

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	22.82	26.64	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.77	26.59	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.87	26.69	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.74	25.56	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.58	26.4	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.79	26.61	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.92	26.74	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.89	25.71	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.88	26.7	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.92	26.74	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.8	26.62	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.93	25.75	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.56	25.38	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.62	25.44	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.67	25.49	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.64	24.46	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.68	25.5	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.73	25.55	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.7	25.52	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.94	24.76	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.79	25.61	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.67	25.49	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.8	25.62	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.04	24.86	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.67	26.49	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.7	26.52	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.72	26.54	33	PASS



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Band2	3MHz	QPSK	18615	15RB#0	21.81	25.63	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.03	26.85	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.93	26.75	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.79	26.61	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.99	25.81	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.93	26.75	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.97	26.79	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.04	26.86	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.99	25.81	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.57	25.39	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.56	25.38	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.68	25.5	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.93	24.75	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.73	25.55	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.72	25.54	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.73	25.55	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.06	24.88	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.74	25.56	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.7	25.52	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.86	25.68	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.05	24.87	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.68	26.5	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.71	26.53	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.62	26.44	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.79	25.61	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.72	26.54	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.15	26.97	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.93	26.75	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.89	25.71	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.88	26.7	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.26	27.08	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.04	26.86	33	PASS



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Band2	5MHz	QPSK	19175	25RB#0	22.08	25.9	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.48	25.3	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.51	25.33	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.6	25.42	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.9	24.72	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.61	25.43	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.69	25.51	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.68	25.5	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.05	24.87	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.7	25.52	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.03	25.85	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.64	25.46	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.05	24.87	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.77	26.59	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.1	26.92	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.86	26.68	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.97	25.79	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.72	26.54	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.93	26.75	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.78	26.6	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.03	25.85	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.08	26.9	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.26	27.08	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.88	26.7	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.06	25.88	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.6	25.42	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.79	25.61	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.74	25.56	33	PASS
Band2	10MHz	16QAM	18650	27RB#0	20.42	24.24	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.62	25.44	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.7	25.52	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.48	25.3	33	PASS



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Band2	10MHz	16QAM	18900	27RB#0	20.36	24.18	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.4	26.22	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.78	25.6	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.75	25.57	33	PASS
Band2	10MHz	16QAM	19150	27RB#0	20.35	24.17	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.64	26.46	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.13	26.95	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.72	26.54	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.9	25.72	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.82	26.64	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.07	26.89	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.8	26.62	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.86	25.68	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.93	26.75	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.9	26.72	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.83	26.65	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.04	25.86	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.76	25.58	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.03	25.85	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.68	25.5	33	PASS
Band2	15MHz	16QAM	18675	27RB#0	20.44	24.26	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.62	25.44	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.76	25.58	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.86	25.68	33	PASS
Band2	15MHz	16QAM	18900	27RB#0	20.15	23.97	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.11	25.93	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.84	25.66	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.81	25.63	33	PASS
Band2	15MHz	16QAM	19125	27RB#0	20.25	24.07	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.63	26.45	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.19	27.01	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.62	26.44	33	PASS



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Band2	20MHz	QPSK	18700	100RB#0	21.92	25.74	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.61	26.43	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.17	26.99	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.75	26.57	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.94	25.76	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.83	26.65	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.23	27.05	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.96	26.78	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	22	25.82	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.52	25.34	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.76	25.58	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.98	25.8	33	PASS
Band2	20MHz	16QAM	18700	27RB#0	20.41	24.23	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.55	25.37	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.04	25.86	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.7	25.52	33	PASS
Band2	20MHz	16QAM	18900	27RB#0	20.36	24.18	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.7	25.52	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.24	26.06	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.02	25.84	33	PASS
Band2	20MHz	16QAM	19100	27RB#0	20.45	24.27	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	83.86	-45.51	29.98	-26.93	-13.00	13.93	189	303	Horizontal
2	5553	71.20	-45.15	32.97	-36.24	-13.00	23.24	145	30	Horizontal
3	7404	59.18	-43.40	36.49	-42.99	-13.00	29.99	156	30	Horizontal
4	9255	49.47	-40.23	38.38	-47.64	-13.00	34.64	135	2	Horizontal
5	11106.75	45.18	-37.93	39.09	-48.92	-13.00	35.92	128	0	Horizontal
6	13758.75	33.24	-36.30	40.00	-58.32	-13.00	45.32	147	255	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	3702	83.29	-45.51	29.98	-27.50	-13.00	14.50	222	8	Vertical
2	5553	69.40	-45.15	32.97	-38.04	-13.00	25.04	145	317	Vertical
3	7404	60.36	-43.40	36.49	-41.81	-13.00	28.81	163	3	Vertical
4	9255.75	49.02	-40.23	38.38	-48.09	-13.00	35.09	256	330	Vertical
5	11106.75	43.24	-37.93	39.09	-50.86	-13.00	37.86	148	197	Vertical
6	14808.75	33.86	-35.23	39.64	-56.99	-13.00	43.99	192	105	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	3741.75	78.90	-45.68	30.12	-31.92	-13.00	18.92	214	300	Horizontal
2	5613	61.84	-45.04	33.07	-45.39	-13.00	32.39	155	15	Horizontal
3	7484.25	64.57	-43.18	36.45	-37.42	-13.00	24.42	132	148	Horizontal
4	9355.5	55.48	-40.00	38.46	-41.33	-13.00	28.33	126	58	Horizontal
5	11226.75	44.01	-37.40	39.11	-49.54	-13.00	36.54	302	0	Horizontal
6	14968.5	37.38	-34.65	39.29	-53.24	-13.00	40.24	178	120	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	3741.75	80.10	-45.68	30.12	-30.72	-13.00	17.72	245	28	Vertical
2	5613	62.77	-45.04	33.07	-44.46	-13.00	31.46	156	44	Vertical
3	7484.25	64.79	-43.18	36.45	-37.20	-13.00	24.20	192	6	Vertical
4	9355.5	55.17	-40.00	38.46	-41.64	-13.00	28.64	174	89	Vertical
5	11226.75	46.50	-37.40	39.11	-47.05	-13.00	34.05	154	357	Vertical
6	14968.5	41.22	-34.65	39.29	-49.40	-13.00	36.40	183	196	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	1000	27.63	-23.97	25.37	-66.23	-13.00	53.23	245	69	Horizontal
2	3782.25	78.17	-45.85	30.27	-32.67	-13.00	19.67	152	300	Horizontal
3	5673	61.47	-44.91	33.29	-45.41	-13.00	32.41	163	30	Horizontal
4	7564.5	56.64	-43.00	36.41	-45.22	-13.00	32.22	123	59	Horizontal
5	9455.25	47.84	-40.05	38.48	-48.99	-13.00	35.99	125	150	Horizontal
6	11346.75	42.70	-37.40	39.11	-50.85	-13.00	37.85	148	0	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	3782.25	80.22	-45.85	30.27	-30.62	-13.00	17.62	189	269	Vertical
2	5673	59.32	-44.91	33.29	-47.56	-13.00	34.56	147	317	Vertical
3	7564.5	61.67	-43.00	36.41	-40.19	-13.00	27.19	156	74	Vertical
4	9455.25	49.69	-40.05	38.48	-47.14	-13.00	34.14	145	104	Vertical
5	11346.75	41.42	-37.40	39.11	-52.13	-13.00	39.13	129	90	Vertical
6	14352	32.93	-35.45	40.12	-57.67	-13.00	44.67	138	0	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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