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Appendix B.6

LTE Band 13



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.33	20.8	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.64	21.11	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.65	21.12	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.66	20.13	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.53	21	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.69	21.16	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.57	21.04	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.45	19.92	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.53	21	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.27	20.74	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.52	20.99	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.48	19.95	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.35	19.82	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.46	19.93	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.51	19.98	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.65	19.12	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.47	19.94	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.61	20.08	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.58	20.05	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.44	18.91	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.81	20.28	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.56	20.03	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.42	19.89	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.27	18.74	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.59	21.06	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.79	21.26	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.62	21.09	34.77	PASS



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Band13	10MHz	QPSK	23230	50RB#0	22.45	19.92	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.19	19.66	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.32	19.79	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.31	19.78	34.77	PASS
Band13	10MHz	16QAM	23230	27RB#0	21.49	18.96	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 13 _10MHz _ 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	1555.18	53.54	-48.51	25.56	-64.67	-13.00	51.67	219	136	Horizontal
2	2332.77	57.07	-47.62	27.57	-58.24	-13.00	45.24	153	181	Horizontal
3	3110.36	45.90	-46.51	29.56	-66.32	-13.00	53.32	216	78	Horizontal
4	3887.95	42.48	-45.54	30.33	-67.99	-13.00	54.99	287	298	Horizontal
5	4665.54	41.58	-44.58	31.80	-66.46	-13.00	53.46	149	360	Horizontal
6	5443.13	41.57	-43.83	32.60	-64.92	-13.00	51.92	256	78	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	1555.18	58.92	-48.51	25.56	-59.29	-13.00	46.29	219	121	Vertical
2	2332.77	55.67	-47.62	27.57	-59.64	-13.00	46.64	153	152	Vertical
3	3110.36	45.12	-46.51	29.56	-67.10	-13.00	54.10	274	147	Vertical
4	3887.95	44.55	-45.54	30.33	-65.92	-13.00	52.92	184	163	Vertical
5	4665.54	42.16	-44.58	31.80	-65.88	-13.00	52.88	155	17	Vertical
6	5443.13	41.07	-43.83	32.60	-65.42	-13.00	52.42	163	47	Vertical



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Test Band = LTE Band 13 _5MHz _ 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	1554.68	53.41	-48.51	25.56	-64.80	-13.00	51.80	258	153	Horizontal
2	2332.02	54.39	-47.62	27.57	-60.92	-13.00	47.92	179	179	Horizontal
3	3109.36	46.73	-46.51	29.56	-65.49	-13.00	52.49	263	163	Horizontal
4	3886.7	40.94	-45.54	30.33	-69.53	-13.00	56.53	211	327	Horizontal
5	4664.04	42.20	-44.58	31.79	-65.84	-13.00	52.84	146	357	Horizontal
6	5441.38	40.77	-43.83	32.60	-65.72	-13.00	52.72	203	240	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	2332	57.04	-47.62	27.56	-58.27	-13.00	45.27	132	137	Vertical
2	1554.68	59.59	-48.51	25.56	-58.62	-13.00	45.62	267	166	Vertical
3	3109.36	44.93	-46.51	29.56	-67.29	-13.00	54.29	184	298	Vertical
4	3886.7	44.85	-45.54	30.33	-65.62	-13.00	52.62	195	301	Vertical
5	4664.04	41.53	-44.58	31.79	-66.51	-13.00	53.51	144	360	Vertical
6	5441.38	41.01	-43.83	32.60	-65.48	-13.00	52.48	168	357	Vertical



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Test Band = LTE Band 13 _5MHz _ 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	2339.5	57.54	-47.61	27.58	-57.76	-13.00	44.76	241	181	Horizontal
2	1559.68	50.64	-48.51	25.56	-67.57	-40.00	27.57	139	105	Horizontal
3	3119.36	46.40	-46.49	29.55	-65.80	-13.00	52.80	284	164	Horizontal
4	3899.2	40.00	-45.53	30.36	-70.43	-13.00	57.43	156	14	Horizontal
5	4679.04	41.30	-44.57	31.83	-66.70	-13.00	53.70	241	0	Horizontal
6	5458.88	41.05	-43.82	32.60	-65.43	-13.00	52.43	155	210	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	1559.5	58.86	-48.51	25.56	-59.35	-40.00	19.35	239	8	Vertical
2	2339.5	55.39	-47.61	27.58	-59.91	-13.00	46.91	286	120	Vertical
3	3119.36	44.54	-46.49	29.55	-67.66	-13.00	54.66	271	120	Vertical
4	3899.2	42.55	-45.53	30.36	-67.88	-13.00	54.88	146	357	Vertical
5	4679.04	40.84	-44.57	31.83	-67.16	-13.00	54.16	216	328	Vertical
6	5458.88	40.26	-43.82	32.60	-66.22	-13.00	53.22	134	17	Vertical



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Test Band = LTE Band 13 _5MHz _ 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	1564.5	51.74	-48.51	25.56	-66.46	-40.00	26.46	138	208	Horizontal
2	2347	58.62	-47.61	27.59	-56.66	-13.00	43.66	219	166	Horizontal
3	3129.36	47.11	-46.46	29.55	-65.06	-13.00	52.06	256	88	Horizontal
4	3911.7	40.94	-45.53	30.39	-69.46	-13.00	56.46	274	269	Horizontal
5	4694.04	41.59	-44.55	31.87	-66.36	-13.00	53.36	142	328	Horizontal
6	5476.38	40.99	-43.80	32.60	-65.47	-13.00	52.47	162	58	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	1564.5	58.43	-48.51	25.56	-59.77	-40.00	19.77	294	0	Vertical
2	2347	56.39	-47.61	27.59	-58.89	-13.00	45.89	178	138	Vertical
3	3129.36	46.27	-46.46	29.55	-65.90	-13.00	52.90	156	107	Vertical
4	3911.7	42.62	-45.53	30.39	-67.78	-13.00	54.78	241	272	Vertical
5	4694.04	41.16	-44.55	31.87	-66.79	-13.00	53.79	163	316	Vertical
6	5476.38	40.51	-43.80	32.60	-65.95	-13.00	52.95	224	47	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---



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