

Appendix B.7

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	22.83	18.21	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.02	18.4	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.98	18.36	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.05	17.43	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.05	18.43	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.25	18.63	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.2	18.58	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.12	17.5	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.08	18.46	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.29	18.67	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.3	18.68	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.22	17.6	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.23	17.61	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.44	16.82	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.72	17.1	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.97	16.35	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.79	17.17	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.58	16.96	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.82	17.2	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.16	16.54	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.48	17.86	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.78	17.16	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.02	17.4	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.06	16.44	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.67	18.05	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.2	18.58	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.06	18.44	34.77	PASS



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Band13	10MHz	QPSK	23230	50RB#0	22.17	17.55	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.63	17.01	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.62	17	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.99	17.37	34.77	PASS
Band13	10MHz	16QAM	23230	27RB#0	20.69	16.07	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band13_10M_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	1554.8571	59.24	-48.30	25.41	-58.91	-13.00	45.91	186	345	Horizontal
2	2332.5714	50.95	-47.48	27.41	-64.39	-13.00	51.39	125	70	Horizontal
3	3110.2857	53.40	-46.70	29.53	-59.03	-13.00	46.03	145	345	Horizontal
4	3888	49.45	-46.22	30.54	-61.49	-13.00	48.49	199	335	Horizontal
5	4665.7143	45.91	-45.80	31.91	-63.24	-13.00	50.24	146	136	Horizontal
6	7003.4286	41.18	-43.59	36.09	-61.58	-13.00	48.58	138	242	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	1555.4286	58.44	-48.30	25.41	-59.71	-13.00	46.71	148	184	Vertical
2	2332.5714	50.92	-47.48	27.41	-64.42	-13.00	51.42	195	356	Vertical
3	3312	55.99	-46.66	29.54	-56.39	-13.00	43.39	142	4	Vertical
4	3888	53.02	-46.22	30.54	-57.92	-13.00	44.92	135	358	Vertical
5	4665.7143	49.80	-45.80	31.91	-59.35	-13.00	46.35	177	348	Vertical
6	6818.8571	42.01	-44.13	35.86	-61.52	-13.00	48.52	105	265	Vertical



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Test Band = LTE Band13_5M_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	1554.2857	56.32	-48.30	25.41	-61.83	-13.00	48.83	148	346	Horizontal
2	2332	51.24	-47.48	27.41	-64.10	-13.00	51.10	199	252	Horizontal
3	3109.1429	51.15	-46.71	29.53	-61.29	-13.00	48.29	175	107	Horizontal
4	3886.8571	49.82	-46.22	30.53	-61.13	-13.00	48.13	142	346	Horizontal
5	4664	45.86	-45.80	31.91	-63.29	-13.00	50.29	136	133	Horizontal
6	6935.4286	41.66	-43.96	36.00	-61.55	-13.00	48.55	256	26	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	1554.8571	58.46	-48.30	25.41	-59.69	-13.00	46.69	248	176	Vertical
2	2332	51.80	-47.48	27.41	-63.54	-13.00	50.54	195	360	Vertical
3	3312	56.02	-46.66	29.54	-56.36	-13.00	43.36	175	4	Vertical
4	3886.8571	53.27	-46.22	30.53	-57.68	-13.00	44.68	146	360	Vertical
5	4664	50.00	-45.80	31.91	-59.15	-13.00	46.15	135	360	Vertical
6	6328	42.02	-44.65	34.47	-63.42	-13.00	50.42	120	360	Vertical



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Test Band = LTE Band13_5M_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	1559.4286	57.28	-48.30	25.40	-60.87	-40.00	20.87	175	202	Horizontal
2	2339.4286	51.25	-47.48	27.41	-64.08	-13.00	51.08	148	28	Horizontal
3	3119.4286	49.52	-46.66	29.55	-62.85	-13.00	49.85	156	134	Horizontal
4	3898.8571	48.49	-46.23	30.56	-62.44	-13.00	49.44	162	353	Horizontal
5	4897.7143	43.29	-45.58	32.59	-64.96	-13.00	51.96	199	201	Horizontal
6	7013.7143	41.52	-43.66	36.12	-61.28	-13.00	48.28	142	1	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	1559.4286	59.70	-48.30	25.40	-58.45	-40.00	18.45	145	185	Vertical
2	2339.4286	50.69	-47.48	27.41	-64.64	-13.00	51.64	199	173	Vertical
3	3119.4286	49.95	-46.66	29.55	-62.42	-13.00	49.42	178	352	Vertical
4	3312	56.11	-46.66	29.54	-56.27	-13.00	43.27	145	4	Vertical
5	3899.4286	50.58	-46.23	30.56	-60.35	-13.00	47.35	153	14	Vertical
6	4678.8571	49.00	-45.80	31.95	-60.11	-13.00	47.11	163	360	Vertical



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Test Band = LTE Band13_5M_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	1564.5714	58.76	-48.29	25.40	-59.40	-40.00	19.40	154	317	Horizontal
2	2346.8571	49.72	-47.48	27.41	-65.60	-13.00	52.60	145	40	Horizontal
3	3129.1429	49.92	-46.62	29.56	-62.39	-13.00	49.39	192	120	Horizontal
4	3312	51.97	-46.66	29.54	-60.41	-13.00	47.41	166	264	Horizontal
5	3911.4286	47.27	-46.23	30.59	-63.62	-13.00	50.62	235	350	Horizontal
6	4693.7143	44.00	-45.80	32.00	-65.06	-13.00	52.06	128	91	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	1564.5714	60.34	-48.29	25.40	-57.82	-40.00	17.82	248	160	Vertical
2	2346.8571	50.44	-47.48	27.41	-64.88	-13.00	51.88	159	133	Vertical
3	3312	56.15	-46.66	29.54	-56.23	-13.00	43.23	195	4	Vertical
4	3911.4286	50.21	-46.23	30.59	-60.68	-13.00	47.68	145	359	Vertical
5	4694.2857	46.80	-45.80	32.00	-62.26	-13.00	49.26	162	4	Vertical
6	6992.5714	41.08	-43.61	36.07	-61.72	-13.00	48.72	138	305	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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