

# 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	22.42	22.48	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.42	22.48	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.35	22.41	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.34	21.4	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.42	22.48	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.42	22.48	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.33	22.39	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.35	21.41	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.39	22.45	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.42	22.48	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.3	22.36	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.33	21.39	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.52	21.58	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.56	21.62	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.5	21.56	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.35	20.41	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.5	21.56	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.51	21.57	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.39	21.45	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.37	20.43	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.47	21.53	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.39	22.45	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.44	21.5	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.39	22.45	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	20.58	20.64	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	20.57	20.63	34.77	PASS



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Band13	5MHz	64QAM	23205	1RB#24	20.53	20.59	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	19.48	19.54	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	20.57	20.63	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	20.52	20.58	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	20.45	20.51	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	19.47	19.53	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	20.58	20.64	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	20.56	20.62	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	20.46	20.52	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	19.43	19.49	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	18.65	18.71	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	18.52	18.58	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	18.41	18.47	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	17.56	17.62	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	18.63	18.69	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	18.55	18.61	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	18.54	18.6	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	17.52	17.58	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	18.63	18.69	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	18.54	18.6	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	18.66	18.72	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	17.52	17.58	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.4	22.46	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.37	22.43	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.28	22.34	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.39	21.45	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.52	21.58	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.49	21.55	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.38	21.44	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.34	20.4	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	20.63	20.69	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	20.58	20.64	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	20.48	20.54	34.77	PASS



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Band13	10MHz	64QAM	23230	50RB#0	19.5	19.56	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	18.54	18.6	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	18.63	18.69	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	18.45	18.51	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	17.55	17.61	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	544.1300	52.37	-47.10	25.37	-64.62	-13.00	51.62	142	164	Horizontal
2	1555.1800	64.38	-48.30	25.41	-53.77	-13.00	40.77	165	357	Horizontal
3	2332.7700	52.90	-47.48	27.41	-62.44	-13.00	49.44	132	1	Horizontal
4	3110.3600	50.55	-46.70	29.53	-61.88	-13.00	48.88	125	357	Horizontal
5	3887.9500	49.12	-46.22	30.54	-61.82	-13.00	48.82	196	173	Horizontal
6	4665.5400	47.55	-45.80	31.91	-61.60	-13.00	48.60	148	80	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	544.1300	53.43	-47.10	25.37	-63.56	-13.00	50.56	214	197	Vertical
2	1555.1800	63.33	-48.30	25.41	-54.82	-13.00	41.82	136	224	Vertical
3	2332.7700	53.26	-47.48	27.41	-62.08	-13.00	49.08	265	136	Vertical
4	3110.3600	49.66	-46.70	29.53	-62.77	-13.00	49.77	296	212	Vertical
5	3887.9500	48.45	-46.22	30.54	-62.49	-13.00	49.49	145	183	Vertical
6	4665.5400	46.43	-45.80	31.91	-62.72	-13.00	49.72	172	322	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	1554.6800	64.93	-48.30	25.41	-53.22	-13.00	40.22	235	268	Horizontal
2	2332.0200	53.31	-47.48	27.41	-62.03	-13.00	49.03	142	37	Horizontal
3	3109.3600	50.58	-46.71	29.53	-61.85	-13.00	48.85	195	340	Horizontal
4	3886.7000	49.17	-46.22	30.53	-61.78	-13.00	48.78	156	340	Horizontal
5	4664.0400	46.97	-45.80	31.91	-62.18	-13.00	49.18	112	0	Horizontal
6	5441.3800	47.69	-45.04	32.85	-59.77	-13.00	46.77	199	359	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	1554.6800	63.13	-48.30	25.41	-55.02	-13.00	42.02	248	197	Vertical
2	2250.2857	54.64	-47.59	27.37	-60.84	-13.00	47.84	169	175	Vertical
3	3109.3600	50.31	-46.71	29.53	-62.12	-13.00	49.12	152	146	Vertical
4	3886.7000	49.28	-46.22	30.53	-61.67	-13.00	48.67	149	133	Vertical
5	4664.0400	47.53	-45.80	31.91	-61.62	-13.00	48.62	175	202	Vertical
6	5441.3800	48.33	-45.04	32.85	-59.13	-13.00	46.13	211	281	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	1559.6800	64.05	-48.30	25.40	-54.10	-40.00	14.10	248	290	Horizontal
2	2339.4286	56.08	-47.48	27.41	-59.25	-13.00	46.25	195	348	Horizontal
3	3119.3600	49.47	-46.66	29.55	-62.90	-13.00	49.90	123	68	Horizontal
4	3899.2000	49.98	-46.23	30.56	-60.95	-13.00	47.95	263	135	Horizontal
5	4679.0400	47.60	-45.80	31.95	-61.51	-13.00	48.51	256	66	Horizontal
6	5458.8800	48.47	-45.07	32.87	-59.00	-13.00	46.00	149	360	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	1559.6800	64.39	-48.30	25.40	-53.76	-40.00	13.76	248	40	Vertical
2	2339.5200	52.00	-47.48	27.41	-63.33	-13.00	50.33	175	148	Vertical
3	3119.3600	49.58	-46.66	29.55	-62.79	-13.00	49.79	145	148	Vertical
4	3899.2000	49.84	-46.23	30.56	-61.09	-13.00	48.09	169	0	Vertical
5	4679.0400	47.40	-45.80	31.95	-61.71	-13.00	48.71	291	92	Vertical
6	5458.8800	47.58	-45.07	32.87	-59.89	-13.00	46.89	143	188	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	64.75	-48.29	25.40	-53.41	-40.00	13.41	165	9	Horizontal
2	2347.0200	52.90	-47.48	27.41	-62.42	-13.00	49.42	142	355	Horizontal
3	3129.3600	49.94	-46.61	29.56	-62.37	-13.00	49.37	193	118	Horizontal
4	3911.7000	48.93	-46.23	30.59	-61.96	-13.00	48.96	215	236	Horizontal
5	4694.0400	47.90	-45.80	32.00	-61.16	-13.00	48.16	142	240	Horizontal
6	5476.3800	47.74	-45.10	32.88	-59.74	-13.00	46.74	133	3	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	63.54	-48.29	25.40	-54.62	-40.00	14.62	245	200	Vertical
2	2347.0200	52.28	-47.48	27.41	-63.04	-13.00	50.04	162	120	Vertical
3	3129.3600	50.34	-46.61	29.56	-61.97	-13.00	48.97	132	228	Vertical
4	3911.7000	48.50	-46.23	30.59	-62.39	-13.00	49.39	126	1	Vertical
5	4694.0400	46.78	-45.80	32.00	-62.28	-13.00	49.28	198	109	Vertical
6	5476.3800	47.56	-45.10	32.88	-59.92	-13.00	46.92	145	356	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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