

# 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	23.61	23.00	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.57	22.96	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.63	23.02	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.79	22.18	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.63	23.02	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.69	23.08	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.64	23.03	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.72	22.11	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.69	23.08	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.67	23.06	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.63	23.02	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.76	22.15	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.84	22.23	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.84	22.23	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.93	22.32	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.81	21.20	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.88	22.27	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.97	22.36	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.95	22.34	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.78	21.17	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.98	22.37	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.93	22.32	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.86	22.25	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.76	21.15	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.63	23.02	34.77	PASS



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Band13	10MHz	QPSK	23230	1RB#24	23.72	23.11	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.61	23.00	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.79	22.18	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.80	22.19	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.96	22.35	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.91	22.30	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.84	21.23	34.77	PASS



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## Field Strength of Spurious Radiation

Test Band = LTE\_13\_5M\_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.5693	27.13	-19.23	25.89	-61.47	-13.00	48.47	347	344	Horizontal
2	2303.913	24.33	-17.92	27.62	-61.23	-13.00	48.23	237	250	Horizontal
3	3898.4949	51.96	-49.05	30.59	-61.76	-13.00	48.76	236	354	Horizontal
4	5245.7123	51.11	-46.47	33.31	-57.31	-13.00	44.31	221	237	Horizontal
5	7500.175	49.79	-43.17	36.60	-52.04	-13.00	39.04	142	2	Horizontal
6	9034.3017	48.77	-41.80	38.73	-49.56	-13.00	36.56	273	138	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.8194	25.22	-19.23	25.89	-63.38	-13.00	50.38	304	210	Vertical
2	2413.6767	25.46	-17.54	27.83	-59.51	-13.00	46.51	322	261	Vertical
3	3978.999	52.33	-49.08	31.02	-60.99	-13.00	47.99	259	300	Vertical
4	5441.7221	51.43	-45.61	33.35	-56.09	-13.00	43.09	265	163	Vertical
5	7114.1057	49.25	-43.87	36.96	-52.92	-13.00	39.92	211	281	Vertical
6	9051.1026	48.68	-41.88	38.70	-49.76	-13.00	36.76	171	25	Vertical



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 Wireless Laboratory

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Test Band = LTE\_13\_5M\_TM1  
 Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.5699	28.28	-19.24	25.88	-60.34	-40.00	20.34	142	2	Horizontal
2	2525.4407	24.75	-17.85	28.15	-60.21	-13.00	47.21	216	102	Horizontal
3	3647.5324	52.72	-49.16	30.39	-61.31	-13.00	48.31	211	236	Horizontal
4	5269.5135	51.25	-46.56	33.32	-57.25	-13.00	44.25	273	90	Horizontal
5	7459.573	49.78	-43.47	36.68	-52.27	-13.00	39.27	195	296	Horizontal
6	8413.7207	50.38	-43.08	37.71	-50.25	-13.00	37.25	192	252	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.5699	26.19	-19.24	25.88	-62.43	-40.00	22.43	310	240	Vertical
2	2411.4264	24.81	-17.53	27.82	-60.16	-13.00	47.16	211	44	Vertical
3	3507.8754	52.81	-49.14	29.85	-61.74	-13.00	48.74	210	280	Vertical
4	5494.2247	51.03	-45.47	33.13	-56.57	-13.00	43.57	259	207	Vertical
5	7479.874	49.85	-43.32	36.64	-52.09	-13.00	39.09	171	358	Vertical
6	9031.1516	48.45	-41.79	38.74	-49.86	-13.00	36.86	304	295	Vertical



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Test Band = LTE\_13\_5M\_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.8206	29.56	-19.25	25.87	-59.08	-40.00	19.08	216	347	Horizontal
2	2441.4302	26.28	-17.67	27.88	-58.77	-13.00	45.77	223	44	Horizontal
3	3892.8946	52.13	-49.13	30.57	-61.69	-13.00	48.69	316	325	Horizontal
4	5247.1124	51.06	-46.48	33.34	-57.34	-13.00	44.34	195	45	Horizontal
5	7141.4071	49.38	-44.03	37.07	-52.84	-13.00	39.84	205	241	Horizontal
6	8548.8274	48.55	-42.27	39.07	-49.91	-13.00	36.91	192	295	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.5706	26.03	-19.25	25.87	-62.61	-40.00	22.61	216	81	Vertical
2	2208.9011	24.22	-17.90	27.66	-61.28	-13.00	48.28	193	164	Vertical
3	3900.945	52.11	-49.03	30.61	-61.57	-13.00	48.57	203	167	Vertical
4	5476.3738	51.03	-45.50	33.24	-56.49	-13.00	43.49	171	65	Vertical
5	7479.874	49.87	-43.32	36.64	-52.07	-13.00	39.07	259	310	Vertical
6	9038.8519	48.63	-41.82	38.72	-49.73	-13.00	36.73	304	25	Vertical



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**Test Band = LTE\_13\_10M\_TM1**  
**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.0694	27.69	-19.23	25.89	-60.91	-13.00	47.91	323	304	Horizontal
2	1588.8236	23.31	-19.30	25.82	-65.43	-40.00	25.43	192	128	Horizontal
3	3947.8474	52.19	-49.10	30.89	-61.28	-13.00	48.28	273	2	Horizontal
4	5318.1659	51.74	-46.48	33.20	-56.80	-13.00	43.80	211	251	Horizontal
5	7107.8054	49.50	-43.84	36.93	-52.67	-13.00	39.67	236	345	Horizontal
6	9038.5019	48.36	-41.82	38.72	-50.00	-13.00	37.00	142	172	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.3194	25.57	-19.23	25.89	-63.03	-13.00	50.03	304	207	Vertical
2	1580.3225	23.58	-19.28	25.84	-65.12	-40.00	25.12	304	2	Vertical
3	2558.1948	25.01	-17.67	28.32	-59.60	-13.00	46.60	188	244	Vertical
4	4224.0112	52.54	-48.52	31.79	-59.45	-13.00	46.45	265	172	Vertical
5	5452.9226	51.02	-45.54	33.38	-56.40	-13.00	43.40	171	315	Vertical
6	7501.5751	49.82	-43.20	36.61	-52.03	-13.00	39.03	259	1	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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