

# Appendix B.4

## LTE Band 5



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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
Band5	1.4MHz	QPSK	20407	1RB#0	23.56	24.09	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.58	24.11	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.56	24.09	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.63	23.16	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.66	24.19	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.76	24.29	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.65	24.18	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.80	23.33	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.71	24.24	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.73	24.26	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.69	24.22	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.78	23.31	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.85	23.38	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.91	23.44	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.85	23.38	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.72	22.25	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.97	23.50	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.01	23.54	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.02	23.55	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.90	22.43	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.94	23.47	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.97	23.50	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.95	23.48	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.86	22.39	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.61	24.14	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.57	24.10	38.45	PASS



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Band5	3MHz	QPSK	20415	1RB#14	23.63	24.16	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.73	23.26	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.77	24.30	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.77	24.30	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.73	24.26	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.85	23.38	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.77	24.30	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.72	24.25	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.69	24.22	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.90	23.43	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.92	23.45	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.97	23.50	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.91	23.44	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.73	22.26	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.08	23.61	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.12	23.65	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.08	23.61	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.91	22.44	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.98	23.51	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.02	23.55	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.91	23.44	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.90	22.43	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.63	24.16	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.62	24.15	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.75	24.28	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.82	23.35	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.76	24.29	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.77	24.30	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.68	24.21	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.85	23.38	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.82	24.35	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.83	24.36	38.45	PASS



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Band5	5MHz	QPSK	20625	1RB#24	23.71	24.24	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.90	23.43	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.92	23.45	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.00	23.53	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.98	23.51	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.83	22.36	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.11	23.64	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.11	23.64	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.97	23.50	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.84	22.37	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.13	23.66	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.99	23.52	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.87	23.40	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.92	22.45	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.63	24.16	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.77	24.30	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.79	24.32	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.81	23.34	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.72	24.25	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.79	24.32	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.72	24.25	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.90	23.43	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.75	24.28	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.86	24.39	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.72	24.25	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.86	23.39	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.91	23.44	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.09	23.62	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.99	23.52	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.84	22.37	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.03	23.56	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.02	23.55	38.45	PASS



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Band5	10MHz	16QAM	20525	1RB#49	22.97	23.50	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.88	22.41	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.05	23.58	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.15	23.68	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.90	23.43	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.86	22.39	38.45	PASS



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### Field Strength of Spurious Radiation

Test Band = LTE\_5\_10MHz\_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	1169.5212	54.07	-53.41	25.78	-68.82	-13.00	55.82	223	146	Horizontal
2	1649.0811	72.88	-52.88	25.90	-49.36	-13.00	36.36	325	193	Horizontal
3	2193.8992	52.95	-51.96	27.66	-66.61	-13.00	53.61	214	124	Horizontal
4	3115.1558	53.12	-50.35	30.16	-62.33	-13.00	49.33	178	146	Horizontal
5	6510.3255	50.05	-44.27	35.12	-54.36	-13.00	41.36	226	225	Horizontal
6	9613.9307	47.21	-41.10	39.09	-50.06	-13.00	37.06	219	240	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	1357.7947	53.44	-53.71	25.88	-69.65	-13.00	56.65	336	158	Vertical
2	1649.0811	70.18	-52.88	25.90	-52.06	-13.00	39.06	345	241	Vertical
3	2442.1803	53.68	-51.38	27.88	-65.08	-13.00	52.08	241	295	Vertical
4	3122.1561	53.59	-50.24	30.19	-61.72	-13.00	48.72	178	261	Vertical
5	5727.3364	51.04	-45.40	33.72	-55.90	-13.00	42.90	220	39	Vertical
6	9022.4011	48.16	-41.75	38.76	-50.09	-13.00	37.09	166	320	Vertical



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Test Band = LTE\_5\_10MHz\_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	1169.5212	53.84	-53.41	25.78	-69.05	-13.00	56.05	255	340	Horizontal
2	1664.083	70.10	-52.81	25.87	-52.10	-13.00	39.10	263	220	Horizontal
3	3171.8586	52.66	-50.17	30.34	-62.43	-13.00	49.43	254	0	Horizontal
4	4446.6223	51.67	-48.19	31.92	-59.86	-13.00	46.86	148	300	Horizontal
5	6747.2874	49.94	-44.11	36.18	-53.25	-13.00	40.25	226	152	Horizontal
6	9044.8022	48.34	-41.85	38.71	-50.06	-13.00	37.06	326	117	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	1664.083	68.98	-52.81	25.87	-53.22	-13.00	40.22	287	221	Vertical
2	2523.9405	52.81	-51.06	28.14	-65.37	-13.00	52.37	145	51	Vertical
3	3928.9464	52.00	-49.07	30.77	-61.56	-13.00	48.56	226	43	Vertical
4	5697.2349	50.85	-44.75	33.49	-55.67	-13.00	42.67	325	291	Vertical
5	7484.7742	49.78	-43.28	36.63	-52.13	-13.00	39.13	144	237	Vertical
6	9931.3966	47.47	-41.18	38.91	-50.06	-13.00	37.06	129	300	Vertical



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**Test Band = LTE\_5\_10MHz\_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	1679.0849	69.57	-52.74	25.84	-52.59	-13.00	39.59	179	205	Horizontal
2	2203.9005	52.82	-51.94	27.68	-66.70	-13.00	53.70	254	230	Horizontal
3	3000	51.39	-50.37	29.80	-64.44	-13.00	50.74	145	142	Horizontal
4	4234.5117	51.80	-48.51	31.91	-60.06	-13.00	47.06	226	280	Horizontal
5	7497.0249	49.71	-43.19	36.61	-52.13	-13.00	39.13	321	251	Horizontal
6	9023.1012	48.46	-41.75	38.75	-49.80	-13.00	36.80	102	167	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	1679.3349	66.28	-52.74	25.84	-55.88	-13.00	42.88	258	240	Vertical
2	2526.9409	52.59	-51.04	28.16	-65.55	-13.00	52.55	263	337	Vertical
3	3543.5772	52.64	-49.62	30.06	-62.18	-13.00	49.18	388	330	Vertical
4	5127.0564	50.82	-47.11	33.55	-58.00	-13.00	45.00	196	202	Vertical
5	7874.6937	49.26	-43.37	37.25	-52.12	-13.00	39.12	322	349	Vertical
6	9014.0007	48.04	-41.71	38.77	-50.16	-13.00	37.16	321	34	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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