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# Appendix B.8

## LTE Band 14



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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
Band14	5MHz	QPSK	23305	1RB#0	22.03	22.07	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	22.08	22.12	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	22	22.04	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	20.97	21.01	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	22.07	22.11	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	22.06	22.1	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.01	22.05	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	20.99	21.03	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	22.01	22.05	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	22.06	22.1	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.03	22.07	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	20.97	21.01	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	21.09	21.13	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	21.26	21.3	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	21.14	21.18	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	19.99	20.03	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	21.16	21.2	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	21.14	21.18	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	21.09	21.13	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	19.98	20.02	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	21.13	21.17	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	21.14	21.18	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	21.13	21.17	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	19.96	20	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	20.18	20.22	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	20.25	20.29	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	20.16	20.2	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	18.94	18.98	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	20.28	20.32	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	20.26	20.3	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	20.17	20.21	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	18.94	18.98	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	20.17	20.21	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	20.18	20.22	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	20.19	20.23	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	18.91	18.95	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	18.32	18.36	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	18.52	18.56	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	18.41	18.45	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	17.32	17.36	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	18.56	18.6	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	18.33	18.37	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	18.41	18.45	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	17.52	17.56	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	18.32	18.36	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	18.55	18.59	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	18.45	18.49	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	17.36	17.4	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	22.04	22.08	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	22.05	22.09	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	21.97	22.01	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	20.71	20.75	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	21.19	21.23	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	21.19	21.23	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	21.11	21.15	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	19.95	19.99	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	20.11	20.15	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	20.19	20.23	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	20.04	20.08	34.77	PASS



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Band14	10MHz	64QAM	23330	50RB#0	18.94	18.98	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	17.52	17.56	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	17.32	17.36	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	17.56	17.6	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	17.52	17.56	34.77	PASS



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## Field Strength of Spurious Radiation

Test Band = LTE Band14\_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	1577.1800	43.48	-48.29	25.38	-74.69	-40.00	34.69	254	22	Horizontal
2	2365.7700	42.72	-47.47	27.42	-72.58	-13.00	59.58	123	157	Horizontal
3	3154.3600	41.62	-46.50	29.61	-70.53	-13.00	57.53	265	266	Horizontal
4	3942.9500	41.20	-46.22	30.67	-69.61	-13.00	56.61	145	279	Horizontal
5	4731.5400	40.47	-45.75	32.11	-68.43	-13.00	55.43	188	22	Horizontal
6	5520.1300	39.59	-45.17	32.93	-67.90	-13.00	54.90	196	129	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	1577.1800	43.28	-48.29	25.38	-74.89	-40.00	34.89	255	135	Vertical
2	2365.7700	42.76	-47.47	27.42	-72.54	-13.00	59.54	142	135	Vertical
3	3154.3600	42.17	-46.50	29.61	-69.98	-13.00	56.98	198	270	Vertical
4	3942.9500	41.30	-46.22	30.67	-69.51	-13.00	56.51	175	94	Vertical
5	4731.5400	40.26	-45.75	32.11	-68.64	-13.00	55.64	142	4	Vertical
6	5520.1300	39.62	-45.17	32.93	-67.87	-13.00	54.87	136	13	Vertical



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**Test Band = LTE Band14\_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	1579.6800	43.46	-48.29	25.38	-74.71	-40.00	34.71	222	293	Horizontal
2	2365.0200	42.69	-47.47	27.42	-72.61	-13.00	59.61	154	347	Horizontal
3	3153.3600	41.58	-46.50	29.60	-70.58	-13.00	57.58	188	171	Horizontal
4	3941.7000	41.91	-46.22	30.66	-68.90	-13.00	55.90	136	13	Horizontal
5	4730.0400	40.29	-45.75	32.11	-68.61	-13.00	55.61	261	2	Horizontal
6	5518.3800	39.24	-45.16	32.93	-68.25	-13.00	55.25	177	293	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	1579.6800	43.03	-48.29	25.38	-75.14	-40.00	35.14	254	67	Vertical
2	2365.0200	42.78	-47.47	27.42	-72.52	-13.00	59.52	178	4	Vertical
3	3153.3600	42.00	-46.50	29.60	-70.16	-13.00	57.16	145	360	Vertical
4	3941.7000	40.93	-46.22	30.66	-69.88	-13.00	56.88	165	266	Vertical
5	4730.0400	40.50	-45.75	32.11	-68.40	-13.00	55.40	123	188	Vertical
6	5518.3800	40.37	-45.16	32.93	-67.12	-13.00	54.12	269	359	Vertical



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**Test Band = LTE Band14\_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	1581.6800	43.52	-48.29	25.37	-74.65	-40.00	34.65	147	348	Horizontal
2	2372.5200	42.70	-47.46	27.43	-72.60	-13.00	59.60	158	91	Horizontal
3	3163.3600	42.29	-46.46	29.62	-69.81	-13.00	56.81	192	2	Horizontal
4	3954.2000	41.06	-46.21	30.69	-69.72	-13.00	56.72	140	348	Horizontal
5	4745.0400	40.32	-45.73	32.15	-68.52	-13.00	55.52	132	267	Horizontal
6	5535.8800	39.71	-45.19	32.95	-67.79	-13.00	54.79	126	38	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	1581.6800	42.80	-48.29	25.37	-75.37	-40.00	35.37	254	146	Vertical
2	2372.5200	42.61	-47.46	27.43	-72.69	-13.00	59.69	156	227	Vertical
3	3163.3600	41.72	-46.46	29.62	-70.38	-13.00	57.38	128	360	Vertical
4	3954.2000	40.85	-46.21	30.69	-69.93	-13.00	56.93	198	201	Vertical
5	4745.0400	40.27	-45.73	32.15	-68.57	-13.00	55.57	173	80	Vertical
6	5535.8800	40.39	-45.19	32.95	-67.11	-13.00	54.11	211	360	Vertical



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**Test Band = LTE Band14\_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	1586.6800	43.65	-48.29	25.37	-74.53	-40.00	34.53	213	3	Horizontal
2	2380.0200	42.36	-47.46	27.43	-72.93	-13.00	59.93	265	158	Horizontal
3	3173.3600	42.12	-46.41	29.64	-69.91	-13.00	56.91	145	294	Horizontal
4	3966.7000	41.57	-46.21	30.72	-69.18	-13.00	56.18	185	158	Horizontal
5	4760.0400	40.03	-45.70	32.20	-68.73	-13.00	55.73	196	14	Horizontal
6	5553.3800	40.43	-45.21	32.97	-67.07	-13.00	54.07	132	171	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	1586.6800	43.27	-48.29	25.37	-74.91	-40.00	34.91	247	296	Vertical
2	2380.0200	42.60	-47.46	27.43	-72.69	-13.00	59.69	145	109	Vertical
3	3173.3600	41.64	-46.41	29.64	-70.39	-13.00	57.39	186	14	Vertical
4	3966.7000	40.69	-46.21	30.72	-70.06	-13.00	57.06	129	14	Vertical
5	4760.0400	39.97	-45.70	32.20	-68.79	-13.00	55.79	195	296	Vertical
6	5553.3800	40.04	-45.21	32.97	-67.46	-13.00	54.46	147	202	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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