

# 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	23.01	23.29	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.26	23.54	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.00	23.28	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.19	22.47	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.02	23.3	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.28	23.56	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.23	23.51	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.24	22.52	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.23	23.51	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.12	23.4	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.91	23.19	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.22	22.5	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.16	22.44	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.59	22.87	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	21.61	21.89	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.28	21.56	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	21.49	21.77	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.04	22.32	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	21.76	22.04	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.11	21.39	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	21.79	22.07	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	21.86	22.14	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	21.62	21.9	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.23	21.51	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.24	23.52	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.46	23.74	34.77	PASS



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Report No.: SEWA2206000022RG01

Rev.: 01

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Band14	10MHz	QPSK	23330	1RB#49	22.83	23.11	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.26	22.54	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.42	22.7	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.38	22.66	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	21.54	21.82	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.14	21.42	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	1577.1429	62.94	-48.29	25.38	-55.23	-40.00	15.23	153	118	Horizontal
2	2365.7143	62.71	-47.47	27.42	-52.59	-13.00	39.59	216	212	Horizontal
3	3154.3600	52.49	-46.50	29.61	-59.66	-13.00	46.66	195	264	Horizontal
4	3942.9500	50.90	-46.22	30.67	-59.91	-13.00	46.91	178	80	Horizontal
5	4731.5400	50.26	-45.75	32.11	-58.64	-13.00	45.64	148	80	Horizontal
6	5520.1300	50.42	-45.17	32.93	-57.07	-13.00	44.07	190	200	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	58.61	-48.29	25.38	-59.56	-40.00	19.56	175	227	Vertical
2	2365.7700	53.97	-47.47	27.42	-61.33	-13.00	48.33	145	242	Vertical
3	3154.3600	50.99	-46.50	29.61	-61.16	-13.00	48.16	196	201	Vertical
4	3942.9500	50.76	-46.22	30.67	-60.05	-13.00	47.05	211	0	Vertical
5	4731.5400	53.67	-45.75	32.11	-55.23	-13.00	42.23	153	242	Vertical
6	5520.1300	49.28	-45.17	32.93	-58.21	-13.00	45.21	237	309	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	1576.5714	62.75	-48.29	25.38	-55.42	-40.00	15.42	128	211	Horizontal
2	2365.0200	60.95	-47.47	27.42	-54.35	-13.00	41.35	145	117	Horizontal
3	3153.3600	53.74	-46.50	29.60	-58.42	-13.00	45.42	169	251	Horizontal
4	3941.7000	50.26	-46.22	30.66	-60.55	-13.00	47.55	172	360	Horizontal
5	4730.0400	50.93	-45.75	32.11	-57.97	-13.00	44.97	211	302	Horizontal
6	5518.3800	49.83	-45.16	32.93	-57.66	-13.00	44.66	230	79	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	1576.5714	61.17	-48.29	25.38	-57.00	-40.00	17.00	145	44	Vertical
2	2365.0200	55.72	-47.47	27.42	-59.58	-13.00	46.58	129	244	Vertical
3	3153.3600	53.62	-46.50	29.60	-58.54	-13.00	45.54	191	285	Vertical
4	3941.7000	49.79	-46.22	30.66	-61.02	-13.00	48.02	175	232	Vertical
5	4730.0400	55.19	-45.75	32.11	-53.71	-13.00	40.71	142	244	Vertical
6	5518.3800	49.48	-45.16	32.93	-58.01	-13.00	45.01	213	112	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	62.71	-48.29	25.37	-55.46	-40.00	15.46	103	106	Horizontal
2	2372.5200	60.90	-47.46	27.43	-54.40	-13.00	41.40	215	146	Horizontal
3	3163.3600	51.69	-46.46	29.62	-60.41	-13.00	47.41	198	4	Horizontal
4	3954.2000	51.23	-46.21	30.69	-59.55	-13.00	46.55	175	121	Horizontal
5	4745.0400	49.61	-45.73	32.15	-59.23	-13.00	46.23	142	146	Horizontal
6	5535.8800	50.48	-45.19	32.95	-57.02	-13.00	44.02	230	319	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	61.14	-48.29	25.37	-57.03	-40.00	17.03	216	42	Vertical
2	2372.5200	53.37	-47.46	27.43	-61.93	-13.00	48.93	148	201	Vertical
3	3163.3600	54.49	-46.46	29.62	-57.61	-13.00	44.61	196	281	Vertical
4	3954.2000	51.79	-46.21	30.69	-58.99	-13.00	45.99	199	55	Vertical
5	4745.0400	53.75	-45.73	32.15	-55.09	-13.00	42.09	177	240	Vertical
6	5535.8800	48.95	-45.19	32.95	-58.55	-13.00	45.55	138	347	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	60.56	-48.29	25.37	-57.62	-40.00	17.62	165	118	Horizontal
2	2380.0200	58.77	-47.46	27.43	-56.52	-13.00	43.52	122	224	Horizontal
3	3173.3600	51.36	-46.41	29.64	-60.67	-13.00	47.67	145	53	Horizontal
4	3966.7000	49.92	-46.21	30.72	-60.83	-13.00	47.83	175	250	Horizontal
5	4760.0400	50.14	-45.70	32.20	-58.62	-13.00	45.62	191	264	Horizontal
6	5553.3800	48.34	-45.21	32.97	-59.16	-13.00	46.16	184	105	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	59.33	-48.29	25.37	-58.85	-40.00	18.85	174	281	Vertical
2	2380.0200	51.89	-47.46	27.43	-63.40	-13.00	50.40	158	281	Vertical
3	3173.3600	53.26	-46.41	29.64	-58.77	-13.00	45.77	169	281	Vertical
4	3966.7000	50.41	-46.21	30.72	-60.34	-13.00	47.34	155	8	Vertical
5	4760.0400	49.08	-45.70	32.20	-59.68	-13.00	46.68	172	40	Vertical
6	5553.3800	49.62	-45.21	32.97	-57.88	-13.00	44.88	130	108	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---

