



Report No.: SEWA2209000044RG01

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Appendix B.3

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.38	23.62	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.46	23.7	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.40	23.64	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.48	22.72	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.85	24.09	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.97	24.21	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.63	23.87	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.74	22.98	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.55	23.79	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.66	23.9	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.48	23.72	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.70	22.94	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.25	22.49	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.26	22.5	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.39	22.63	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.72	21.96	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.52	22.76	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.49	22.73	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.52	22.76	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.61	21.85	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.40	22.64	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.41	22.65	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.40	22.64	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.76	22	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.47	23.71	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.53	23.77	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.61	23.85	30	PASS



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Band4	3MHz	QPSK	19965	15RB#0	21.58	22.82	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.95	24.19	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.62	23.86	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.73	23.97	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.66	22.9	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.64	23.88	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.64	23.88	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.64	23.88	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.57	22.81	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.36	22.6	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.27	22.51	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.47	22.71	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.68	21.92	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.54	22.78	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.52	22.76	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.52	22.76	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.76	22	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.57	22.81	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.47	22.71	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.57	22.81	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.80	22.04	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.34	23.58	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.49	23.73	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.66	23.9	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.57	22.81	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.73	23.97	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.81	24.05	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.69	23.93	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.81	23.05	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.81	24.05	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.91	24.15	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.87	24.11	30	PASS



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Band4	5MHz	QPSK	20375	25RB#0	21.73	22.97	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.20	22.44	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.48	22.72	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.49	22.73	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.76	22	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.52	22.76	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.56	22.8	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.55	22.79	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.90	22.14	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.55	22.79	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.69	22.93	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.43	22.67	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.85	22.09	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.48	23.72	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.71	23.95	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.87	24.11	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.81	23.05	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.77	24.01	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.66	23.9	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.64	23.88	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.82	23.06	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.45	23.69	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.13	24.37	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.34	23.58	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.84	23.08	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.28	22.52	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.36	22.6	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.70	22.94	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.06	22.3	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.43	22.67	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.49	22.73	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.57	22.81	30	PASS



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Band4	10MHz	16QAM	20350	1RB#0	21.85	23.09	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.49	22.73	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.68	22.92	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.97	22.21	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.38	23.62	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.82	24.06	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.03	24.27	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.75	22.99	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.87	24.11	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.59	23.83	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.58	23.82	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.77	23.01	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.57	23.81	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.98	24.22	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.15	23.39	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.87	23.11	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.21	22.45	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.53	22.77	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.56	22.8	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.88	22.12	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.44	22.68	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.47	22.71	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.52	22.76	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.84	22.08	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.51	22.75	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.27	23.51	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.51	22.75	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.88	22.12	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.41	23.65	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.66	23.9	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.63	23.87	30	PASS



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Band4	20MHz	QPSK	20175	1RB#0	22.83	24.07	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.67	23.91	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.38	23.62	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.73	22.97	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.76	24	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.90	24.14	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	21.92	23.16	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.84	23.08	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.32	22.56	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.41	23.65	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.47	22.71	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.86	22.1	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.47	22.71	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.47	22.71	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.62	22.86	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.68	21.92	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.47	22.71	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.63	22.87	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.27	22.51	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.94	22.18	30	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band4_ 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	3422.1800	78.52	-46.28	29.45	-33.57	-13.00	20.57	254	286	Horizontal
2	5133.2700	50.32	-45.34	32.95	-57.33	-13.00	44.33	196	117	Horizontal
3	6844.3600	47.42	-44.14	35.89	-56.09	-13.00	43.09	152	14	Horizontal
4	8555.4500	42.47	-41.46	37.66	-56.59	-13.00	43.59	148	134	Horizontal
5	10266.5400	34.46	-39.23	38.83	-61.20	-13.00	48.20	175	134	Horizontal
6	11977.6300	30.58	-37.51	38.95	-63.25	-13.00	50.25	132	0	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	3422.1800	78.37	-46.28	29.45	-33.72	-13.00	20.72	142	268	Vertical
2	5133.2700	47.17	-45.34	32.95	-60.48	-13.00	47.48	166	208	Vertical
3	6844.3600	45.70	-44.14	35.89	-57.81	-13.00	44.81	251	356	Vertical
4	8555.4500	42.49	-41.46	37.66	-56.57	-13.00	43.57	132	268	Vertical
5	10266.5400	37.11	-39.23	38.83	-58.55	-13.00	45.55	188	0	Vertical
6	11977.6300	31.33	-37.51	38.95	-62.50	-13.00	49.50	149	222	Vertical



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Test Band = LTE Band4_ 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	3447.1800	71.48	-46.27	29.47	-40.58	-13.00	27.58	126	148	Horizontal
2	5170.7700	49.28	-45.31	32.97	-58.31	-13.00	45.31	236	72	Horizontal
3	6894.3600	45.89	-44.10	35.95	-57.52	-13.00	44.52	251	209	Horizontal
4	8617.9500	41.83	-41.40	37.78	-57.05	-13.00	44.05	145	0	Horizontal
5	10341.5400	35.75	-39.06	38.85	-59.72	-13.00	46.72	129	15	Horizontal
6	12065.1300	31.95	-37.44	39.02	-61.73	-13.00	48.73	188	240	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	3447	76.37	-46.27	29.47	-35.69	-13.00	22.69	214	193	Vertical
2	5170.7700	48.30	-45.31	32.97	-59.29	-13.00	46.29	165	101	Vertical
3	6894.3600	47.23	-44.10	35.95	-56.18	-13.00	43.18	125	72	Vertical
4	8617.9500	42.65	-41.40	37.78	-56.23	-13.00	43.23	148	55	Vertical
5	10341.5400	35.48	-39.06	38.85	-59.99	-13.00	46.99	192	255	Vertical
6	12065.1300	30.90	-37.44	39.02	-62.78	-13.00	49.78	135	0	Vertical



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Test Band = LTE Band4_ 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	3472.1800	75.96	-46.27	29.50	-36.07	-13.00	23.07	214	176	Horizontal
2	5208.2700	48.75	-45.26	32.98	-58.79	-13.00	45.79	185	147	Horizontal
3	6944.3600	45.45	-43.85	36.01	-57.65	-13.00	44.65	126	162	Horizontal
4	8680.4500	41.05	-41.62	37.88	-57.95	-13.00	44.95	236	0	Horizontal
5	10416.5400	32.73	-38.97	38.88	-62.63	-13.00	49.63	261	55	Horizontal
6	12152.6300	32.37	-37.42	39.09	-61.22	-13.00	48.22	144	13	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	3472.1800	74.25	-46.27	29.50	-37.78	-13.00	24.78	214	285	Vertical
2	5208.2700	47.66	-45.26	32.98	-59.88	-13.00	46.88	165	20	Vertical
3	6944.3600	45.95	-43.85	36.01	-57.15	-13.00	44.15	128	221	Vertical
4	8680.4500	41.37	-41.62	37.88	-57.63	-13.00	44.63	196	36	Vertical
5	10416.5400	33.88	-38.97	38.88	-61.48	-13.00	48.48	175	0	Vertical
6	12152.6300	32.88	-37.42	39.09	-60.71	-13.00	47.71	145	270	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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