

Report No.: SUCR240300004401

Rev.: 01

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Appendix B.2

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	22.96	24.9	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.12	25.06	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23	24.94	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.15	24.09	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.01	24.95	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.15	25.09	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.98	24.92	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.12	24.06	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.84	24.78	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.03	24.97	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.88	24.82	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.96	23.9	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.3	24.24	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.4	24.34	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.28	24.22	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.24	23.18	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.31	24.25	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.45	24.39	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.42	24.36	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.25	23.19	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.25	24.19	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.36	24.3	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.3	24.24	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.04	22.98	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.12	25.06	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.08	25.02	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.08	25.02	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.1	24.04	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.99	24.93	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.16	25.1	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.04	24.98	30	PASS



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Band4	3MHz	QPSK	20175	15RB#0	22.16	24.1	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.93	24.87	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.05	24.99	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23	24.94	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.11	24.05	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.44	24.38	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.48	24.42	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.41	24.35	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.22	23.16	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.38	24.32	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.43	24.37	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.34	24.28	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.17	23.11	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.16	24.1	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.29	24.23	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.29	24.23	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.12	23.06	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.06	25	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.13	25.07	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.06	25	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.09	24.03	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.18	25.12	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.15	25.09	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.16	25.1	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.23	24.17	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.97	24.91	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.95	24.89	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.01	24.95	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.05	23.99	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.43	24.37	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.45	24.39	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.52	24.46	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.19	23.13	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.52	24.46	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.49	24.43	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.42	24.36	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.24	23.18	30	PASS



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Band4	5MHz	16QAM	20375	1RB#0	22.19	24.13	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.15	24.09	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.32	24.26	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.08	23.02	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.1	25.04	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.13	25.07	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.14	25.08	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.16	24.1	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.98	24.92	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.14	25.08	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.01	24.95	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.08	24.02	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.97	24.91	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.96	24.9	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.98	24.92	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.11	24.05	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.37	24.31	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.57	24.51	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.47	24.41	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.18	23.12	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.4	24.34	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.53	24.47	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.41	24.35	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.17	23.11	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.38	24.32	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.35	24.29	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.42	24.36	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.15	23.09	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.97	24.91	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.13	25.07	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.06	25	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.05	23.99	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.98	24.92	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.15	25.09	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.08	25.02	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.22	24.16	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.06	25	30	PASS



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Band4	15MHz	QPSK	20325	1RB#38	22.94	24.88	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.09	25.03	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.19	24.13	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.3	24.24	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.46	24.4	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.21	24.15	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.09	23.03	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.41	24.35	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.58	24.52	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.52	24.46	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.2	23.14	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.29	24.23	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.29	24.23	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.37	24.31	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.16	23.1	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.98	24.92	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.08	25.02	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.05	24.99	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.11	24.05	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.06	25	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.2	25.14	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.07	25.01	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.11	24.05	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.08	25.02	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.09	25.03	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.02	24.96	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.12	24.06	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.35	24.29	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.39	24.33	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.48	24.42	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.14	23.08	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.32	24.26	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.35	24.29	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.35	24.29	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.26	23.2	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.36	24.3	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.42	24.36	30	PASS



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Band4	20MHz	16QAM	20300	1RB#99	22.29	24.23	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.18	23.12	30	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 4_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	57.78	-48.38	28.67	-57.19	-13.00	44.19	Horizontal
2	5133.27	43.63	-47.84	31.82	-67.65	-13.00	54.65	Horizontal
3	6844.36	42.90	-46.82	35.26	-63.92	-13.00	50.92	Horizontal
4	8555.45	39.96	-44.11	36.98	-62.43	-13.00	49.43	Horizontal
5	10266.54	38.14	-41.48	38.74	-59.86	-13.00	46.86	Horizontal
6	11977.63	36.35	-39.54	39.20	-59.25	-13.00	46.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	52.07	-48.38	28.67	-62.90	-13.00	49.90	Vertical
2	5133.27	43.04	-47.84	31.82	-68.24	-13.00	55.24	Vertical
3	6844.36	42.54	-46.82	35.26	-64.28	-13.00	51.28	Vertical
4	8555.45	40.23	-44.11	36.98	-62.16	-13.00	49.16	Vertical
5	10266.54	37.62	-41.48	38.74	-60.38	-13.00	47.38	Vertical
6	11977.63	36.37	-39.54	39.20	-59.23	-13.00	46.23	Vertical



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Test Band = LTE Band 4_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447	59.09	-48.35	28.68	-55.84	-13.00	42.84	Horizontal
2	5170.77	43.43	-47.87	31.91	-67.79	-13.00	54.79	Horizontal
3	6894.36	42.25	-46.74	35.37	-64.38	-13.00	51.38	Horizontal
4	8617.95	39.47	-44.00	37.07	-62.72	-13.00	49.72	Horizontal
5	10341.54	38.19	-41.19	38.81	-59.45	-13.00	46.45	Horizontal
6	12065.13	36.81	-39.56	39.16	-58.85	-13.00	45.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447	51.18	-48.35	28.68	-63.75	-13.00	50.75	Vertical
2	5170.77	43.68	-47.87	31.91	-67.54	-13.00	54.54	Vertical
3	6894.36	42.37	-46.74	35.37	-64.26	-13.00	51.26	Vertical
4	8617.95	39.95	-44.00	37.07	-62.24	-13.00	49.24	Vertical
5	10341.54	38.13	-41.19	38.81	-59.51	-13.00	46.51	Vertical
6	12065.13	36.63	-39.56	39.16	-59.03	-13.00	46.03	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	55.06	-48.32	28.69	-59.83	-13.00	46.83	Horizontal
2	5208.27	42.78	-47.88	32.00	-68.36	-13.00	55.36	Horizontal
3	6944.36	41.79	-46.67	35.48	-64.66	-13.00	51.66	Horizontal
4	8680.45	40.21	-44.09	37.15	-61.99	-13.00	48.99	Horizontal
5	10416.54	37.96	-41.14	38.88	-59.57	-13.00	46.57	Horizontal
6	12152.63	36.18	-39.73	39.11	-59.70	-13.00	46.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	47.50	-48.32	28.69	-67.39	-13.00	54.39	Vertical
2	5208.27	43.89	-47.88	32.00	-67.25	-13.00	54.25	Vertical
3	6944.36	41.80	-46.67	35.48	-64.65	-13.00	51.65	Vertical
4	8680.45	40.37	-44.09	37.15	-61.83	-13.00	48.83	Vertical
5	10416.54	37.47	-41.14	38.88	-60.06	-13.00	47.06	Vertical
6	12152.63	36.35	-39.73	39.11	-59.53	-13.00	46.53	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

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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