

Report No.: SEWM2303000098RG01

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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	23.82	21.29	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.93	21.4	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.29	20.76	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.67	20.14	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.7	21.17	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.56	21.03	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.44	20.91	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.54	21.01	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.66	21.13	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.71	21.18	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.68	21.15	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.69	20.16	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.42	19.89	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.33	19.8	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.27	19.74	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.6	19.07	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.6	20.07	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.45	19.92	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.27	19.74	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.66	19.13	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.47	19.94	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.4	19.87	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.1	19.57	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.31	18.78	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.79	21.26	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.35	20.82	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.26	20.73	38.45	PASS



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Band5	3MHz	QPSK	20415	15RB#0	22.73	20.2	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.7	21.17	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.76	21.23	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.7	21.17	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.77	20.24	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.77	21.24	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.64	21.11	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.01	21.48	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.73	21.2	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.37	19.84	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.29	19.76	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.32	19.79	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.28	18.75	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.46	19.93	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.47	19.94	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.59	20.06	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.54	19.01	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.57	20.04	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.36	19.83	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.42	19.89	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.57	19.04	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.57	21.04	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.56	21.03	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.6	21.07	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.7	20.17	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.78	21.25	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.9	21.37	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.69	21.16	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.61	20.08	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.26	19.73	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.31	19.78	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.2	19.67	38.45	PASS



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Band5	5MHz	16QAM	20425	25RB#0	21.48	18.95	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.48	19.95	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.36	19.83	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.3	19.77	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.61	19.08	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.35	19.82	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.37	19.84	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.39	19.86	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.53	19	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.9	21.37	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.87	21.34	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.63	21.1	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.78	20.25	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.39	20.86	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.72	21.19	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.29	20.76	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.66	20.13	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.8	21.27	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.82	21.29	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.59	21.06	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.41	20.88	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.43	19.9	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.26	19.73	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.43	19.9	38.45	PASS
Band5	10MHz	16QAM	20450	27RB#0	21.62	19.09	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.55	20.02	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.5	19.97	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.48	19.95	38.45	PASS
Band5	10MHz	16QAM	20525	27RB#0	21.64	19.11	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.51	19.98	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.56	20.03	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.36	19.83	38.45	PASS



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Wireless Laboratory

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Band5	10MHz	16QAM	20600	27RB#0	21.65	19.12	38.45	PASS
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Field Strength of Spurious Radiation

Test Band = LTE Band 5_10MHz _ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	56.13	-48.38	25.58	-61.94	-13.00	48.94	294	221	Horizontal
2	2473.77	63.45	-46.96	27.85	-50.93	-13.00	37.93	164	174	Horizontal
3	3298.36	42.45	-46.11	29.48	-69.44	-13.00	56.44	271	284	Horizontal
4	4122.95	41.96	-45.34	30.80	-67.84	-13.00	54.84	152	111	Horizontal
5	4947.54	42.37	-45.08	32.47	-65.50	-13.00	52.50	213	284	Horizontal
6	5772.13	41.12	-43.52	33.47	-64.19	-13.00	51.19	258	333	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	1649.18	64.34	-48.38	25.58	-53.73	-13.00	40.73	197	344	Vertical
2	2473.77	59.73	-46.96	27.85	-54.65	-13.00	41.65	140	140	Vertical
3	3298.36	43.52	-46.11	29.48	-68.37	-13.00	55.37	216	296	Vertical
4	4122.95	41.30	-45.34	30.80	-68.50	-13.00	55.50	288	157	Vertical
5	4947.54	41.71	-45.08	32.47	-66.16	-13.00	53.16	149	328	Vertical
6	5772.13	41.54	-43.52	33.47	-63.77	-13.00	50.77	256	0	Vertical



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Test Band = LTE Band 5_10MHz _ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	59.51	-48.34	25.57	-58.52	-13.00	45.52	219	220	Horizontal
2	2496.27	65.87	-46.77	27.89	-48.27	-13.00	35.27	153	187	Horizontal
3	3328.36	42.86	-46.16	29.47	-69.09	-13.00	56.09	268	139	Horizontal
4	4160.45	41.12	-45.23	30.86	-68.51	-13.00	55.51	142	77	Horizontal
5	4992.54	42.59	-45.02	32.58	-65.11	-13.00	52.11	192	298	Horizontal
6	5824.63	42.46	-43.43	33.64	-62.59	-13.00	49.59	177	234	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	1664.18	65.48	-48.34	25.57	-52.55	-13.00	39.55	144	7	Vertical
2	2496.27	63.35	-46.77	27.89	-50.79	-13.00	37.79	169	7	Vertical
3	3328.36	45.50	-46.16	29.47	-66.45	-13.00	53.45	259	283	Vertical
4	4160.45	41.49	-45.23	30.86	-68.14	-13.00	55.14	280	204	Vertical
5	4992.54	42.09	-45.02	32.58	-65.61	-13.00	52.61	135	1	Vertical
6	5824.63	42.05	-43.43	33.64	-63.00	-13.00	50.00	267	235	Vertical



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Test Band = LTE Band 5_10MHz _ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1111	56.68	-48.30	25.56	-61.32	-13.00	48.32	143	206	Horizontal
2	2518.6667	63.91	-46.83	27.96	-50.22	-13.00	37.22	239	159	Horizontal
3	3358.36	42.91	-46.21	29.46	-69.10	-13.00	56.10	284	238	Horizontal
4	4197.95	41.59	-45.12	30.92	-67.87	-13.00	54.87	156	47	Horizontal
5	5037.54	42.71	-44.85	32.60	-64.80	-13.00	51.80	214	111	Horizontal
6	5887.13	41.68	-43.24	33.84	-62.98	-13.00	49.98	175	359	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	1679.1111	61.34	-48.30	25.56	-56.66	-13.00	43.66	245	330	Vertical
2	2518.77	60.19	-46.84	27.96	-53.94	-13.00	40.94	196	15	Vertical
3	3358.36	42.89	-46.21	29.46	-69.12	-13.00	56.12	235	2	Vertical
4	4197.95	41.22	-45.12	30.92	-68.24	-13.00	55.24	147	0	Vertical
5	5037.54	42.28	-44.85	32.60	-65.23	-13.00	52.23	156	15	Vertical
6	5887.13	41.39	-43.24	33.84	-63.27	-13.00	50.27	213	203	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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