

Report No.: SEWM2211000245RG01

Rev.: 01

Page: 1 of 8

# Appendix B.9

## LTE Band 71



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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
Band71	5MHz	QPSK	133147	1RB#0	22.64	19.49	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	22.89	19.74	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	22.54	19.39	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	21.7	18.55	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.79	19.64	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.03	19.88	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.75	19.6	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.85	18.7	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.52	19.37	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.98	19.83	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	22.51	19.36	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.68	18.53	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.34	18.19	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	21.46	18.31	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.38	18.23	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	20.62	17.47	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.66	18.51	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	21.65	18.5	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	21.37	18.22	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.87	17.72	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.31	18.16	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.37	18.22	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.51	18.36	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.7	17.55	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.72	19.57	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	22.75	19.6	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	22.64	19.49	34.77	PASS



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Band71	10MHz	QPSK	133172	50RB#0	21.7	18.55	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.76	19.61	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	22.71	19.56	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.78	19.63	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.82	18.67	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	22.89	19.74	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.87	19.72	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.56	19.41	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.81	18.66	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	21.42	18.27	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.48	18.33	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.49	18.34	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	20.65	17.5	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	21.43	18.28	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.63	18.48	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.99	18.84	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	20.74	17.59	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.43	18.28	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	21.45	18.3	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.59	18.44	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	20.91	17.76	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.46	19.31	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	22.59	19.44	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.83	19.68	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.61	18.46	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	22.6	19.45	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	22.74	19.59	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.68	19.53	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.82	18.67	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.94	19.79	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.05	19.9	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	22.64	19.49	34.77	PASS



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Band71	15MHz	QPSK	133397	75RB#0	21.67	18.52	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	21.51	18.36	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	21.45	18.3	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.65	18.5	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	20.71	17.56	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.39	18.24	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.62	18.47	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.53	18.38	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	20.72	17.57	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.53	18.38	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.65	18.5	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.53	18.38	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	20.85	17.7	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	22.64	19.49	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	22.61	19.46	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.89	19.74	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	21.6	18.45	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.99	19.84	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	22.99	19.84	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.55	19.4	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.79	18.64	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.92	19.77	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	22.7	19.55	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.57	19.42	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.69	18.54	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.39	18.24	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	21.49	18.34	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.42	18.27	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	20.69	17.54	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.34	18.19	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.31	19.16	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	21.37	18.22	34.77	PASS



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Rev.: 01

Page: 5 of 8

Band71	20MHz	16QAM	133322	100RB#0	20.69	17.54	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	21.45	18.3	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.68	18.53	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.9	18.75	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	20.78	17.63	34.77	PASS



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## Field Strength of Spurious Radiation

Test Band = LTE Band 71\_ 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	1328	69.98	-48.79	25.54	-48.52	-13.00	35.52	296	276	Horizontal
2	1992.27	63.26	-48.08	26.85	-53.23	-13.00	40.23	265	304	Horizontal
3	2656.36	46.12	-47.14	28.43	-67.85	-13.00	54.85	285	188	Horizontal
4	3320.45	43.72	-46.14	29.47	-68.21	-13.00	55.21	241	246	Horizontal
5	3984.54	40.34	-45.50	30.56	-69.86	-13.00	56.86	142	359	Horizontal
6	4648.63	41.60	-44.59	31.76	-66.49	-13.00	53.49	201	3	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	1328	61.07	-48.79	25.54	-57.43	-13.00	44.43	201	302	Vertical
2	1992.27	56.90	-48.08	26.85	-59.59	-13.00	46.59	174	357	Vertical
3	2656.36	45.39	-47.14	28.43	-68.58	-13.00	55.58	142	114	Vertical
4	3320.45	43.66	-46.14	29.47	-68.27	-13.00	55.27	263	28	Vertical
5	3984.54	40.82	-45.50	30.56	-69.38	-13.00	56.38	255	316	Vertical
6	4648.63	41.51	-44.59	31.76	-66.58	-13.00	53.58	284	43	Vertical



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**Test Band = LTE Band 71\_ 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	1348.18	57.79	-48.77	25.50	-60.74	-13.00	47.74	296	204	Horizontal
2	2022.27	63.20	-48.04	26.95	-53.15	-13.00	40.15	265	277	Horizontal
3	2696.36	46.20	-47.07	28.57	-67.56	-13.00	54.56	241	360	Horizontal
4	3370.45	44.83	-46.23	29.45	-67.21	-13.00	54.21	145	306	Horizontal
5	4044.54	41.26	-45.46	30.67	-68.79	-13.00	55.79	253	354	Horizontal
6	4718.63	41.92	-44.56	31.93	-65.98	-13.00	52.98	268	115	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	1348.18	55.94	-48.77	25.50	-62.59	-13.00	49.59	201	54	Vertical
2	2022.27	58.33	-48.04	26.95	-58.02	-13.00	45.02	174	7	Vertical
3	2696.36	45.91	-47.07	28.57	-67.85	-13.00	54.85	142	357	Vertical
4	3370.45	44.02	-46.23	29.45	-68.02	-13.00	55.02	263	26	Vertical
5	4044.54	41.39	-45.46	30.67	-68.66	-13.00	55.66	255	199	Vertical
6	4718.63	41.97	-44.56	31.93	-65.93	-13.00	52.93	284	26	Vertical



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**Test Band = LTE Band 71\_ 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	1358	60.41	-48.76	25.48	-58.13	-13.00	45.13	285	204	Horizontal
2	2037.27	61.02	-48.01	26.98	-55.27	-13.00	42.27	241	306	Horizontal
3	2716.36	45.23	-47.00	28.64	-68.39	-13.00	55.39	142	117	Horizontal
4	3395.45	43.31	-46.27	29.44	-68.78	-13.00	55.78	263	58	Horizontal
5	4074.54	40.22	-45.43	30.72	-69.75	-13.00	56.75	201	74	Horizontal
6	4753.63	42.23	-44.58	32.01	-65.60	-13.00	52.60	146	190	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	1358.18	55.61	-48.76	25.48	-62.93	-13.00	49.93	296	28	Vertical
2	2037.27	56.92	-48.01	26.98	-59.37	-13.00	46.37	265	0	Vertical
3	2716.36	45.78	-47.00	28.64	-67.84	-13.00	54.84	284	57	Vertical
4	3395.45	43.59	-46.27	29.44	-68.50	-13.00	55.50	142	3	Vertical
5	4074.54	40.54	-45.43	30.72	-69.43	-13.00	56.43	201	43	Vertical
6	4753.63	41.89	-44.58	32.01	-65.94	-13.00	52.94	145	43	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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