

Appendix B.17

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	23.73	22.80	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.77	22.84	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.68	22.75	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.87	21.94	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.85	22.92	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.85	22.92	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.75	22.82	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.90	21.97	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.80	22.87	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.81	22.88	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.69	22.76	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.91	21.98	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	23.08	22.15	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	23.04	22.11	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	23.02	22.09	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.86	20.93	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	23.25	22.32	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	23.20	22.27	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	23.05	22.12	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.93	21.00	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	23.21	22.28	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	23.06	22.13	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.97	22.04	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.89	20.96	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.78	22.85	34.77	PASS



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Band71	10MHz	QPSK	133172	1RB#24	23.71	22.78	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.74	22.81	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.96	22.03	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.80	22.87	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.83	22.90	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.72	22.79	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.94	22.01	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.88	22.95	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.83	22.90	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.74	22.81	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.91	21.98	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	23.01	22.08	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.90	21.97	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	23.04	22.11	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.93	21.00	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	23.07	22.14	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	23.08	22.15	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	23.01	22.08	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.91	20.98	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	23.19	22.26	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	23.14	22.21	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	23.09	22.16	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.91	20.98	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.77	22.84	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.80	22.87	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.83	22.90	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.92	21.99	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.85	22.92	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.84	22.91	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.74	22.81	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.95	22.02	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.80	22.87	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.86	22.93	34.77	PASS



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Band71	15MHz	QPSK	133397	1RB#74	23.74	22.81	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.84	21.91	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	23.01	22.08	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.99	22.06	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	23.23	22.30	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.91	20.98	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	23.09	22.16	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	23.08	22.15	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.98	22.05	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.91	20.98	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	23.07	22.14	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	23.24	22.31	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.98	22.05	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.79	20.86	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.79	22.86	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.82	22.89	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.69	22.76	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.99	22.06	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.89	22.96	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.76	22.83	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	23.78	22.85	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.92	21.99	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.90	22.97	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.87	22.94	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.74	22.81	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.87	21.94	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	23.00	22.07	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	23.01	22.08	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	23.03	22.10	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.99	21.06	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	23.26	22.33	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	23.02	22.09	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	23.05	22.12	34.77	PASS



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Band71	20MHz	16QAM	133322	100RB#0	21.91	20.98	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	23.23	22.30	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	23.07	22.14	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	23.08	22.15	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.84	20.91	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE_71_20MHz_TM1
 Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.0664	68.54	-53.89	25.77	-54.84	-13.00	41.84	229	345	Horizontal
2	1992.2996	57.24	-52.64	26.69	-63.97	-13.00	50.97	367	276	Horizontal
3	2850.9425	53.58	-50.11	28.90	-62.89	-13.00	49.89	219	350	Horizontal
4	3969.2485	52.10	-47.91	30.98	-60.09	-13.00	47.09	189	340	Horizontal
5	6650.4825	50.45	-44.10	36.10	-52.81	-13.00	39.81	226	281	Horizontal
6	9729.9865	47.35	-39.03	38.76	-48.18	-13.00	35.18	147	320	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.0664	64.87	-53.89	25.77	-58.51	-13.00	45.51	309	251	Vertical
2	1992.2996	55.36	-52.64	26.69	-65.85	-13.00	52.85	224	198	Vertical
3	2870.2935	53.23	-50.37	28.98	-63.42	-13.00	50.42	189	192	Vertical
4	3826.1413	52.50	-48.19	30.45	-60.50	-13.00	47.50	156	89	Vertical
5	5714.4357	50.98	-43.64	33.62	-54.30	-13.00	41.30	221	222	Vertical
6	9074.7537	49.36	-40.40	38.70	-47.60	-13.00	34.60	234	40	Vertical



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 Wireless Laboratory

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Test Band = LTE_71_20MHz_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1343.3672	65.34	-53.76	25.86	-57.82	-13.00	44.82	204	180	Horizontal
2	2014.8007	57.35	-52.54	26.89	-63.56	-13.00	50.56	146	282	Horizontal
3	3270.3635	52.04	-49.82	30.64	-62.40	-13.00	49.40	232	130	Horizontal
4	5549.2775	50.85	-43.47	33.20	-54.68	-13.00	41.68	326	48	Horizontal
5	7144.1572	49.07	-43.47	37.08	-52.58	-13.00	39.58	221	330	Horizontal
6	9578.7789	47.24	-39.57	39.16	-48.43	-13.00	35.43	199	242	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1343.3672	66.13	-53.76	25.86	-57.03	-13.00	44.03	254	214	Vertical
2	1936.4968	53.93	-52.24	26.05	-67.52	-13.00	54.52	154	189	Vertical
3	2863.5432	53.18	-50.28	28.95	-63.41	-13.00	50.41	116	327	Vertical
4	4388.2194	51.79	-46.71	32.13	-58.05	-13.00	45.05	325	337	Vertical
5	6216.2108	50.98	-43.89	34.26	-53.91	-13.00	40.91	115	332	Vertical
6	9063.9532	48.83	-40.26	38.70	-47.99	-13.00	34.99	253	228	Vertical



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Test Band = LTE_71_20MHz_TM1
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.2179	71.24	-53.71	25.88	-51.85	-13.00	38.85	265	251	Horizontal
2	2037.3019	57.30	-52.25	27.02	-63.19	-13.00	50.19	148	285	Horizontal
3	3135.8068	52.96	-50.14	30.24	-62.20	-13.00	49.20	224	6	Horizontal
4	4776.5888	52.00	-44.93	32.31	-55.88	-13.00	42.88	146	217	Horizontal
5	6899.795	50.20	-44.06	36.20	-52.92	-13.00	39.92	325	324	Horizontal
6	9060.353	48.27	-40.21	38.70	-48.50	-13.00	35.50	229	309	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.2179	67.67	-53.71	25.88	-55.42	-13.00	42.42	263	208	Vertical
2	2108.8554	53.60	-52.11	27.48	-66.29	-13.00	53.29	332	116	Vertical
3	3322.1161	52.65	-49.72	30.26	-62.07	-13.00	49.07	148	360	Vertical
4	5044.3522	51.61	-44.58	33.37	-54.86	-13.00	41.86	226	76	Vertical
5	7372.7686	49.50	-42.67	36.85	-51.58	-13.00	38.58	325	125	Vertical
6	9090.5045	48.97	-40.60	38.70	-48.19	-13.00	35.19	221	140	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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