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# Appendix B.6

LTE Band 12



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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
Band12	1.4MHz	QPSK	23017	1RB#0	23.51	22.59	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.49	22.57	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.36	22.44	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.31	21.39	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.38	22.46	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.36	22.44	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.47	22.55	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.28	21.36	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.33	22.41	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.53	22.61	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.24	22.32	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.37	21.45	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.69	20.77	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.15	21.23	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.97	21.05	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.04	20.12	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.92	21	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.22	21.3	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.84	20.92	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.36	20.44	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.39	21.47	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.79	21.87	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.75	21.83	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.34	20.42	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.50	22.58	34.77	PASS



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Band12	3MHz	QPSK	23025	1RB#8	23.24	22.32	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.29	22.37	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.23	21.31	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.39	22.47	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.29	22.37	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.07	22.15	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.39	21.47	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.46	22.54	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.24	22.32	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.60	22.68	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.41	21.49	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.95	21.03	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.65	20.73	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.50	20.58	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.24	20.32	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.86	20.94	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.48	21.56	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.88	20.96	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.60	20.68	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.76	21.84	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.20	21.28	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.02	21.1	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.50	20.58	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.45	22.53	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.51	22.59	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.14	22.22	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.31	21.39	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.16	22.24	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.45	22.53	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.19	22.27	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.44	21.52	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.18	22.26	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.60	22.68	34.77	PASS



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Band12	5MHz	QPSK	23155	1RB#24	23.52	22.6	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.32	21.4	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.83	20.91	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.90	20.98	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.67	20.75	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.42	20.5	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.80	20.88	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.75	21.83	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.66	20.74	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.32	20.4	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.79	20.87	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.81	21.89	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.08	21.16	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.42	20.5	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.18	22.26	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.31	22.39	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.05	22.13	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.32	21.4	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.14	22.22	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.40	22.48	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.20	22.28	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.27	21.35	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.25	22.33	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.41	22.49	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.51	22.59	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.39	21.47	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.40	21.48	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.00	21.08	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.53	21.61	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.29	20.37	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.84	20.92	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.56	21.64	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.74	20.82	34.77	PASS



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Band12	10MHz	16QAM	23095	50RB#0	21.18	20.26	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.85	20.93	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.30	21.38	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.32	21.4	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.48	20.56	34.77	PASS



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#### **Field Strength of Spurious Radiation**

Test Band = LTE Band12\_ TM1
Test Channel = Low

Final	Final Data List											
NO.	Frequency	Reading	Factor	A E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1399.1800	57.63	-48.00	25.62	-60.01	-13.00	47.01	126	216	Horizontal		
2	2098.7700	65.95	-47.71	26.99	-50.04	-13.00	37.04	142	216	Horizontal		
3	2798.3600	51.62	-46.92	28.48	-62.08	-13.00	49.08	239	148	Horizontal		
4	3497.9500	50.27	-46.54	29.52	-62.01	-13.00	49.01	178	148	Horizontal		
5	4197.5400	49.36	-45.96	31.10	-60.76	-13.00	47.76	155	136	Horizontal		
6	4897.1300	51.15	-45.58	32.59	-57.10	-13.00	44.10	146	83	Horizontal		

Final	Final Data List											
NO.	Frequency	Reading	Factor	A E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1399.1800	57.48	-48.00	25.62	-60.16	-13.00	47.16	129	52	Vertical		
2	2098.7700	56.54	-47.71	26.99	-59.45	-13.00	46.45	148	236	Vertical		
3	2798.3600	51.19	-46.92	28.48	-62.51	-13.00	49.51	175	290	Vertical		
4	3497.9500	50.78	-46.54	29.52	-61.50	-13.00	48.50	266	350	Vertical		
5	4197.5400	49.32	-45.96	31.10	-60.80	-13.00	47.80	250	117	Vertical		
6	4897.1300	51.47	-45.58	32.59	-56.78	-13.00	43.78	211	170	Vertical		



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#### Test Band = LTE Band12\_ TM1 Test Channel = Mid

Final	Final Data List											
NO.	Frequency	Reading	Factor	A E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1406.1800	56.50	-48.02	25.61	-61.17	-13.00	48.17	178	276	Horizontal		
2	2109.2700	69.70	-47.71	27.02	-46.24	-13.00	33.24	191	209	Horizontal		
3	2812.3600	53.15	-46.88	28.53	-60.45	-13.00	47.45	145	145	Horizontal		
4	3515.4500	50.01	-46.51	29.53	-62.22	-13.00	49.22	186	209	Horizontal		
5	4218.5400	51.45	-45.93	31.14	-58.60	-13.00	45.60	236	276	Horizontal		
6	4921.6300	50.58	-45.63	32.66	-57.65	-13.00	44.65	211	302	Horizontal		

Final	Final Data List											
NO.	Frequency	Reading	Factor	Λ E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1406.1800	54.74	-48.02	25.61	-62.93	-13.00	49.93	214	71	Vertical		
2	2109.2700	58.11	-47.71	27.02	-57.83	-13.00	44.83	263	56	Vertical		
3	2812.3600	53.27	-46.88	28.53	-60.33	-13.00	47.33	251	150	Vertical		
4	3515.4500	51.23	-46.51	29.53	-61.00	-13.00	48.00	149	294	Vertical		
5	4218.5400	50.85	-45.93	31.14	-59.20	-13.00	46.20	175	268	Vertical		
6	4921.6300	50.74	-45.63	32.66	-57.49	-13.00	44.49	231	282	Vertical		



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## Test Band = LTE Band12\_ TM1 Test Channel = High

Final	Final Data List											
NO.	Frequency	Reading	Factor	Λ E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1413.1800	54.17	-48.04	25.60	-63.53	-13.00	50.53	150	227	Horizontal		
2	2119.7700	71.00	-47.70	27.06	-44.90	-13.00	31.90	150	201	Horizontal		
3	2826.3600	51.73	-46.83	28.60	-61.76	-13.00	48.76	150	319	Horizontal		
4	3532.9500	51.23	-46.47	29.55	-60.95	-13.00	47.95	150	4	Horizontal		
5	4239.5400	49.68	-45.89	31.18	-60.29	-13.00	47.29	150	252	Horizontal		
6	4946.1300	49.85	-45.69	32.73	-58.37	-13.00	45.37	150	352	Horizontal		

Final	Final Data List											
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1413.1800	54.45	-48.04	25.60	-63.25	-13.00	50.25	214	95	Vertical		
2	2119.7700	62.04	-47.70	27.06	-53.86	-13.00	40.86	175	294	Vertical		
3	2826.3600	52.00	-46.83	28.60	-61.49	-13.00	48.49	169	0	Vertical		
4	3532.9500	51.08	-46.47	29.55	-61.10	-13.00	48.10	191	160	Vertical		
5	4239.5400	49.88	-45.89	31.18	-60.09	-13.00	47.09	142	54	Vertical		
6	4946.1300	50.62	-45.69	32.73	-57.60	-13.00	44.60	160	54	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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