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Appendix B.14

LTE Band 41



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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
Band41	5MHz	QPSK	39675	1RB#0	24.89	26.41	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	24.92	26.44	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	24.89	26.41	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	23.85	25.37	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	25.17	26.69	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	25.13	26.65	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	25.05	26.57	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	24.15	25.67	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	25.39	26.91	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	25.23	26.75	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	25.39	26.91	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	24.4	25.92	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	24.09	25.61	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	24.06	25.58	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	24.06	25.58	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	22.84	24.36	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	24.45	25.97	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	24.4	25.92	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	24.34	25.86	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	23.06	24.58	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	24.63	26.15	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	24.66	26.18	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	24.66	26.18	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	23.34	24.86	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	22.82	24.34	33	PASS
Band41	5MHz	64QAM	39675	1RB#12	22.89	24.41	33	PASS
Band41	5MHz	64QAM	39675	1RB#24	22.77	24.29	33	PASS



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Band41	5MHz	64QAM	39675	25RB#0	21.87	23.39	33	PASS
Band41	5MHz	64QAM	40620	1RB#0	23.15	24.67	33	PASS
Band41	5MHz	64QAM	40620	1RB#12	23.1	24.62	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	23.05	24.57	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	22.11	23.63	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	23.35	24.87	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	23.35	24.87	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	23.35	24.87	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	22.41	23.93	33	PASS
Band41	5MHz	256QAM	39675	1RB#0	22.85	24.37	33	PASS
Band41	5MHz	256QAM	39675	1RB#12	22.77	24.29	33	PASS
Band41	5MHz	256QAM	39675	1RB#24	22.63	24.15	33	PASS
Band41	5MHz	256QAM	39675	25RB#0	21.56	23.08	33	PASS
Band41	5MHz	256QAM	40620	1RB#0	22.45	23.97	33	PASS
Band41	5MHz	256QAM	40620	1RB#12	22.36	23.88	33	PASS
Band41	5MHz	256QAM	40620	1RB#24	22.41	23.93	33	PASS
Band41	5MHz	256QAM	40620	25RB#0	21.54	23.06	33	PASS
Band41	5MHz	256QAM	41565	1RB#0	22.77	24.29	33	PASS
Band41	5MHz	256QAM	41565	1RB#12	23.02	24.54	33	PASS
Band41	5MHz	256QAM	41565	1RB#24	22.56	24.08	33	PASS
Band41	5MHz	256QAM	41565	25RB#0	21.77	23.29	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	24.89	26.41	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	24.9	26.42	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	24.86	26.38	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	23.93	25.45	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	25.17	26.69	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	25.14	26.66	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	25	26.52	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	24.19	25.71	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	25.34	26.86	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	25.39	26.91	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	25.27	26.79	33	PASS



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Band41	10MHz	QPSK	41540	50RB#0	24.39	25.91	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	24.09	25.61	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	24.12	25.64	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	24.08	25.6	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	22.95	24.47	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	24.46	25.98	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	24.45	25.97	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	24.33	25.85	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	23.2	24.72	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	24.57	26.09	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	24.69	26.21	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	24.63	26.15	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	23.42	24.94	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	22.83	24.35	33	PASS
Band41	10MHz	64QAM	39700	1RB#24	22.81	24.33	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	22.8	24.32	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	21.96	23.48	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	23.18	24.7	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	23.15	24.67	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	23.02	24.54	33	PASS
Band41	10MHz	64QAM	40620	50RB#0	22.2	23.72	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	23.32	24.84	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	23.4	24.92	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	23.33	24.85	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	22.41	23.93	33	PASS
Band41	10MHz	256QAM	39700	1RB#0	22.56	24.08	33	PASS
Band41	10MHz	256QAM	39700	1RB#24	22.63	24.15	33	PASS
Band41	10MHz	256QAM	39700	1RB#49	22.45	23.97	33	PASS
Band41	10MHz	256QAM	39700	50RB#0	21.36	22.88	33	PASS
Band41	10MHz	256QAM	40620	1RB#0	22.44	23.96	33	PASS
Band41	10MHz	256QAM	40620	1RB#24	22.63	24.15	33	PASS
Band41	10MHz	256QAM	40620	1RB#49	22.74	24.26	33	PASS



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Band41	10MHz	256QAM	40620	50RB#0	21.25	22.77	33	PASS
Band41	10MHz	256QAM	41540	1RB#0	22.63	24.15	33	PASS
Band41	10MHz	256QAM	41540	1RB#24	22.45	23.97	33	PASS
Band41	10MHz	256QAM	41540	1RB#49	22.36	23.88	33	PASS
Band41	10MHz	256QAM	41540	50RB#0	21.58	23.1	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	24.75	26.27	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	24.87	26.39	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	24.82	26.34	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	23.83	25.35	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	25.13	26.65	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	25.09	26.61	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	24.92	26.44	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	24.14	25.66	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	25.13	26.65	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	25.25	26.77	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	25.25	26.77	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	24.36	25.88	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	23.98	25.5	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	24.12	25.64	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	24.08	25.6	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	22.83	24.35	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	24.42	25.94	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	24.43	25.95	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	24.29	25.81	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	23.16	24.68	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	24.46	25.98	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	24.62	26.14	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	24.59	26.11	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	23.38	24.9	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	22.7	24.22	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	22.8	24.32	33	PASS
Band41	15MHz	64QAM	39725	1RB#74	22.78	24.3	33	PASS



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Band41	15MHz	64QAM	40620	1RB#0	23.14	24.66	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	23.13	24.65	33	PASS
Band41	15MHz	64QAM	40620	1RB#74	23.03	24.55	33	PASS
Band41	15MHz	64QAM	40620	75RB#0	22.14	23.66	33	PASS
Band41	15MHz	64QAM	41515	1RB#0	23.17	24.69	33	PASS
Band41	15MHz	64QAM	41515	1RB#38	23.33	24.85	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	23.3	24.82	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	22.37	23.89	33	PASS
Band41	15MHz	256QAM	39725	1RB#0	22.52	24.04	33	PASS
Band41	15MHz	256QAM	39725	1RB#38	22.14	23.66	33	PASS
Band41	15MHz	256QAM	39725	1RB#74	22.32	23.84	33	PASS
Band41	15MHz	256QAM	39725	75RB#0	21.02	22.54	33	PASS
Band41	15MHz	256QAM	40620	1RB#0	22.12	23.64	33	PASS
Band41	15MHz	256QAM	40620	1RB#38	22.36	23.88	33	PASS
Band41	15MHz	256QAM	40620	1RB#74	22.21	23.73	33	PASS
Band41	15MHz	256QAM	40620	75RB#0	21.02	22.54	33	PASS
Band41	15MHz	256QAM	41515	1RB#0	22.45	23.97	33	PASS
Band41	15MHz	256QAM	41515	1RB#38	22.36	23.88	33	PASS
Band41	15MHz	256QAM	41515	1RB#74	22.02	23.54	33	PASS
Band41	15MHz	256QAM	41515	75RB#0	20.85	22.37	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	24.74	26.26	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	24.91	26.43	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	24.96	26.48	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	23.9	25.42	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	25.12	26.64	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	25.14	26.66	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	24.86	26.38	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	24.15	25.67	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	25.14	26.66	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	25.29	26.81	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	25.19	26.71	33	PASS



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Band41	20MHz	16QAM	39750	1RB#0	23.95	25.47	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	24.16	25.68	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	24.21	25.73	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	22.92	24.44	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	24.39	25.91	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	24.45	25.97	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	24.2	25.72	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	23.18	24.7	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	24.44	25.96	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	24.62	26.14	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	24.54	26.06	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	23.39	24.91	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	22.68	24.2	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	22.87	24.39	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	22.91	24.43	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	21.88	23.4	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	23.13	24.65	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	23.15	24.67	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	22.89	24.41	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	22.13	23.65	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	23.15	24.67	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	23.34	24.86	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	23.23	24.75	33	PASS
Band41	20MHz	64QAM	41490	100RB#0	22.32	23.84	33	PASS
Band41	20MHz	256QAM	39750	1RB#0	21.89	23.41	33	PASS
Band41	20MHz	256QAM	39750	1RB#49	21.65	23.17	33	PASS
Band41	20MHz	256QAM	39750	1RB#99	21.58	23.1	33	PASS
Band41	20MHz	256QAM	39750	100RB#0	20.55	22.07	33	PASS
Band41	20MHz	256QAM	40620	1RB#0	21.24	22.76	33	PASS
Band41	20MHz	256QAM	40620	1RB#49	21.24	22.76	33	PASS
Band41	20MHz	256QAM	40620	1RB#99	21.22	22.74	33	PASS



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Band41	20MHz	256QAM	40620	100RB#0	20.57	22.09	33	PASS
Band41	20MHz	256QAM	41490	1RB#0	21.63	23.15	33	PASS
Band41	20MHz	256QAM	41490	1RB#49	21.54	23.06	33	PASS
Band41	20MHz	256QAM	41490	1RB#99	21.25	22.77	33	PASS
Band41	20MHz	256QAM	41490	100RB#0	20.54	22.06	33	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band41_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	40.96	-45.63	32.86	-67.07	-25.00	42.07	236	345	Horizontal
2	7491.2700	39.07	-43.16	36.44	-62.91	-25.00	37.91	256	230	Horizontal
3	9988.3600	35.57	-39.25	38.47	-60.47	-25.00	35.47	154	108	Horizontal
4	12485.4500	33.65	-37.04	39.16	-59.49	-25.00	34.49	128	348	Horizontal
5	14982.5400	32.43	-34.64	39.26	-58.21	-25.00	33.21	192	261	Horizontal
6	17479.6300	32.17	-35.10	39.13	-59.06	-25.00	34.06	188	73	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	4994.1800	40.56	-45.63	32.86	-67.47	-25.00	42.47	223	3	Vertical
2	7491.2700	38.90	-43.16	36.44	-63.08	-25.00	38.08	213	105	Vertical
3	9988.3600	34.69	-39.25	38.47	-61.35	-25.00	36.35	210	213	Vertical
4	12485.4500	32.99	-37.04	39.16	-60.15	-25.00	35.15	148	165	Vertical
5	14982.5400	32.88	-34.64	39.26	-57.76	-25.00	32.76	175	121	Vertical
6	17479.6300	31.80	-35.10	39.13	-59.43	-25.00	34.43	136	17	Vertical



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Test Band = LTE Band41_ TM1

Test Channel = Mid

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3779.25	42.76	-45.83	30.26	-68.08	-25.00	43.08	247	14	Horizontal
2	5168.1800	40.23	-45.31	32.97	-67.37	-25.00	42.37	145	61	Horizontal
3	7752.2700	39.09	-42.69	36.69	-62.17	-25.00	37.17	196	151	Horizontal
4	10336.3600	34.84	-39.06	38.84	-60.64	-25.00	35.64	128	359	Horizontal
5	12920.4500	33.09	-37.16	39.75	-59.58	-25.00	34.58	143	30	Horizontal
6	15504.5400	32.31	-35.35	38.57	-59.73	-25.00	34.73	123	30	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	3648	42.41	-45.83	29.78	-68.89	-25.00	43.89	245	135	Vertical
2	5168.1800	39.50	-45.31	32.97	-68.10	-25.00	43.10	123	75	Vertical
3	7752.2700	38.92	-42.69	36.69	-62.34	-25.00	37.34	235	261	Vertical
4	10336.3600	35.16	-39.06	38.84	-60.32	-25.00	35.32	166	227	Vertical
5	12920.4500	32.98	-37.16	39.75	-59.69	-25.00	34.69	192	73	Vertical
6	15504.5400	32.17	-35.35	38.57	-59.87	-25.00	34.87	175	337	Vertical



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Test Band = LTE Band41_ TM1

Test Channel = High

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4077.75	42.44	-45.82	30.92	-67.73	-25.00	42.73	241	182	Horizontal
2	5255.1800	40.22	-45.18	32.94	-67.28	-25.00	42.28	126	360	Horizontal
3	7882.7700	38.57	-42.73	36.88	-62.55	-25.00	37.55	235	75	Horizontal
4	10510.3600	34.10	-38.77	38.97	-60.95	-25.00	35.95	128	182	Horizontal
5	13137.9500	33.15	-37.08	39.89	-59.29	-25.00	34.29	196	360	Horizontal
6	15765.5400	30.62	-33.25	38.24	-59.64	-25.00	34.64	154	105	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	4248	42.13	-45.66	31.20	-67.59	-25.00	42.59	126	106	Vertical
2	5255.1800	40.46	-45.18	32.94	-67.04	-25.00	42.04	256	121	Vertical
3	7882.7700	39.12	-42.73	36.88	-62.00	-25.00	37.00	142	257	Vertical
4	10510.3600	33.46	-38.77	38.97	-61.59	-25.00	36.59	135	335	Vertical
5	13137.9500	31.92	-37.08	39.89	-60.52	-25.00	35.52	192	92	Vertical
6	15765.5400	30.55	-33.25	38.24	-59.71	-25.00	34.71	175	354	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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