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Appendix B.12

LTE Band 30

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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
Band30	5MHz	QPSK	27685	1RB#0	20.53	23.37	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	20.45	23.29	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	20.3	23.14	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	19.35	22.19	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	20.4	23.24	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	20.38	23.22	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	20.45	23.29	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	19.36	22.2	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	20.36	23.2	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	20.42	23.26	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	20.29	23.13	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	19.37	22.21	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	20.12	22.96	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	19.5	22.34	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	19.39	22.23	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	18.34	21.18	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	19.7	22.54	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	19.57	22.41	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	19.5	22.34	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	18.33	21.17	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	19.64	22.48	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	19.65	22.49	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	19.51	22.35	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	18.32	21.16	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	18.61	21.45	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	18.66	21.5	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	18.48	21.32	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	17.39	20.23	23.98	PASS

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Band30	5MHz	64QAM	27710	1RB#0	18.62	21.46	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	18.6	21.44	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	18.67	21.51	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	17.35	20.19	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	18.6	21.44	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	18.52	21.36	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	18.53	21.37	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	17.34	20.18	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	15.35	18.19	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	15.46	18.3	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	15.36	18.2	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	15.4	18.24	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	15.48	18.32	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	15.53	18.37	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	15.19	18.03	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	15.34	18.18	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	15.55	18.39	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	15.43	18.27	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	15.18	18.02	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	15.37	18.21	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	20.29	23.13	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	20.5	23.34	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	20.4	23.24	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	19.31	22.15	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	19.49	22.33	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	19.56	22.4	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	19.25	22.09	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	18.31	21.15	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	18.68	21.52	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	18.6	21.44	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	18.41	21.25	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	17.35	20.19	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	15.48	18.32	23.98	PASS

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Band30	10MHz	256QAM	27710	1RB#24	15.51	18.35	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	15.25	18.09	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	15.33	18.17	23.98	PASS

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Field Strength of Spurious Radiation

Test Band = LTE Band30_10M_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.1800	42.66	-45.66	31.75	-66.52	-40.00	26.52	111	135	Horizontal
2	6916.7700	41.75	-44.01	35.98	-61.53	-40.00	21.53	125	344	Horizontal
3	9222.3600	40.42	-40.24	38.36	-56.73	-40.00	16.73	145	178	Horizontal
4	11527.9500	35.20	-37.19	38.97	-58.29	-40.00	18.29	130	360	Horizontal
5	13833.5400	35.01	-36.08	39.99	-56.34	-40.00	16.34	265	118	Horizontal
6	16139.1300	36.80	-34.58	37.69	-55.35	-40.00	15.35	188	225	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.1800	43.94	-45.66	31.75	-65.24	-40.00	25.24	214	191	Vertical
2	6916.7700	41.43	-44.01	35.98	-61.85	-40.00	21.85	174	148	Vertical
3	9222.3600	38.18	-40.24	38.36	-58.97	-40.00	18.97	169	14	Vertical
4	11527.9500	34.59	-37.19	38.97	-58.90	-40.00	18.90	192	356	Vertical
5	13833.5400	35.68	-36.08	39.99	-55.67	-40.00	15.67	145	359	Vertical
6	16139.1300	36.18	-34.58	37.69	-55.97	-40.00	15.97	133	296	Vertical

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Test Band = LTE Band30_5M_TM1

Test Channel = Low

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4610.6800	45.25	-45.66	31.74	-63.93	-40.00	23.93	145	225	Horizontal	
2	6916.0200	41.22	-44.01	35.98	-62.07	-40.00	22.07	174	360	Horizontal	
3	9221.3600	39.03	-40.24	38.36	-58.12	-40.00	18.12	159	181	Horizontal	
4	11526.7000	35.08	-37.20	38.97	-58.41	-40.00	18.41	184	74	Horizontal	
5	13832.0400	35.56	-36.09	39.99	-55.80	-40.00	15.80	126	344	Horizontal	
6	16137.3800	36.29	-34.58	37.69	-55.85	-40.00	15.85	118	61	Horizontal	

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4610.6800	44.66	-45.66	31.74	-64.52	-40.00	24.52	214	240	Vertical	
2	6916.0200	41.37	-44.01	35.98	-61.92	-40.00	21.92	135	88	Vertical	
3	9221.3600	38.17	-40.24	38.36	-58.98	-40.00	18.98	165	285	Vertical	
4	11526.7000	35.10	-37.20	38.97	-58.39	-40.00	18.39	174	256	Vertical	
5	13832.0400	34.98	-36.09	39.99	-56.38	-40.00	16.38	159	16	Vertical	
6	16137.3800	36.20	-34.58	37.69	-55.94	-40.00	15.94	142	4	Vertical	

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Test Band = LTE Band30_5M_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.6800	42.37	-45.66	31.76	-66.79	-40.00	26.79	256	271	Horizontal
2	6923.5200	41.58	-43.97	35.99	-61.66	-40.00	21.66	145	44	Horizontal
3	9231.3600	39.85	-40.24	38.36	-57.29	-40.00	17.29	159	194	Horizontal
4	11539.2000	35.26	-37.15	38.96	-58.19	-40.00	18.19	193	194	Horizontal
5	13847.0400	34.58	-35.95	40.00	-56.63	-40.00	16.63	172	75	Horizontal
6	16154.8800	36.16	-34.60	37.67	-56.02	-40.00	16.02	125	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.5	47.36	-45.66	31.76	-61.80	-40.00	21.80	222	164	Vertical
2	6923.5200	42.34	-43.97	35.99	-60.90	-40.00	20.90	166	238	Vertical
3	9231.3600	38.70	-40.24	38.36	-58.44	-40.00	18.44	138	283	Vertical
4	11539.2000	34.87	-37.15	38.96	-58.58	-40.00	18.58	148	136	Vertical
5	13847.0400	35.27	-35.95	40.00	-55.94	-40.00	15.94	199	300	Vertical
6	16154.8800	36.36	-34.60	37.67	-55.82	-40.00	15.82	123	118	Vertical

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Test Band = LTE Band30_5M_TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.6800	46.13	-45.66	31.77	-63.01	-40.00	23.01	153	270	Horizontal
2	6931.0200	41.07	-43.93	36.00	-62.12	-40.00	22.12	256	61	Horizontal
3	9241.3600	40.35	-40.24	38.37	-56.78	-40.00	16.78	145	270	Horizontal
4	11551.7000	34.93	-37.10	38.94	-58.48	-40.00	18.48	188	134	Horizontal
5	13862.0400	34.38	-35.81	40.02	-56.67	-40.00	16.67	159	330	Horizontal
6	16172.3800	36.15	-34.61	37.65	-56.07	-40.00	16.07	136	208	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.6800	46.61	-45.66	31.77	-62.53	-40.00	22.53	254	178	Vertical
2	6931.0200	41.63	-43.93	36.00	-61.56	-40.00	21.56	126	353	Vertical
3	9241.3600	38.70	-40.24	38.37	-58.43	-40.00	18.43	153	195	Vertical
4	11551.7000	34.70	-37.10	38.94	-58.71	-40.00	18.71	195	300	Vertical
5	13862.0400	34.14	-35.81	40.02	-56.91	-40.00	16.91	148	360	Vertical
6	16172.3800	37.40	-34.61	37.65	-54.82	-40.00	14.82	172	330	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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