

Report No.: SEWM2308000332RG01

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Appendix B.12

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	22.38	26.58	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	22.23	26.43	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.21	26.41	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.48	25.68	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.4	26.6	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.28	26.48	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.36	26.56	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	21.58	25.78	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.39	26.59	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.42	26.62	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.39	26.59	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.72	25.92	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.69	25.89	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.52	25.72	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.59	25.79	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.63	24.83	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.68	25.88	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.58	25.78	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.52	25.72	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.54	24.74	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.79	25.99	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.88	26.08	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.81	26.01	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.85	25.05	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.41	26.61	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.29	26.49	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.17	26.37	33	PASS



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Band41	10MHz	QPSK	39700	50RB#0	21.46	25.66	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.19	26.39	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	22.26	26.46	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.31	26.51	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	21.51	25.71	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.35	26.55	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.52	26.72	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.3	26.5	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.7	25.9	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.69	25.89	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.63	25.83	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.54	25.74	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.58	24.78	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.51	25.71	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.58	25.78	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.58	25.78	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.57	24.77	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.74	25.94	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.74	25.94	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.75	25.95	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	20.71	24.91	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	21.91	26.11	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	21.94	26.14	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	21.5	25.7	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.52	25.72	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	21.51	25.71	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.25	26.45	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	21.8	26	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.36	25.56	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	21.72	25.92	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.32	26.52	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	21.71	25.91	33	PASS



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Band41	15MHz	16QAM	39725	1RB#0	21.2	25.4	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.38	25.58	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	20.75	24.95	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.35	24.55	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	20.73	24.93	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.48	25.68	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.06	25.26	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	20.53	24.73	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.05	25.25	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.61	25.81	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	20.8	25	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.78	24.98	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.16	26.36	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	21.98	26.18	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	21.4	25.6	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.2	25.4	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	21.81	26.01	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.32	26.52	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	21.82	26.02	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	21.35	25.55	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	21.85	26.05	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.62	26.82	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	21.91	26.11	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	21.67	25.87	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.43	25.63	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.43	25.63	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	20.82	25.02	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.3	24.5	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.1	25.3	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.59	25.79	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	20.97	25.17	33	PASS



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Band41	20MHz	16QAM	40620	100RB#0	20.46	24.66	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	20.99	25.19	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.75	25.95	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.13	25.33	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.69	24.89	33	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 41_20MHz_ 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	4994	52.25	-44.94	32.59	-55.36	-25.00	30.36	241	129	Horizontal
2	7491	58.32	-41.63	36.49	-42.08	-25.00	17.08	186	107	Horizontal
3	9988.36	35.19	-37.16	38.50	-58.73	-25.00	33.73	158	213	Horizontal
4	12485.45	32.36	-35.26	39.09	-59.07	-25.00	34.07	223	234	Horizontal
5	14982.54	31.81	-33.99	39.22	-58.22	-25.00	33.22	284	45	Horizontal
6	17479.63	29.85	-31.91	40.52	-56.80	-25.00	31.80	173	1	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	59.40	-44.94	32.59	-48.21	-25.00	23.21	185	174	Vertical
2	7491	59.81	-41.63	36.49	-40.59	-25.00	15.59	263	92	Vertical
3	9988.36	39.52	-37.16	38.50	-54.40	-25.00	29.40	268	111	Vertical
4	12485.45	32.98	-35.26	39.09	-58.45	-25.00	33.45	186	174	Vertical
5	14982.54	31.50	-33.99	39.22	-58.53	-25.00	33.53	258	131	Vertical
6	17479.63	29.87	-31.91	40.52	-56.78	-25.00	31.78	176	258	Vertical



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Test Band = LTE Band 41_20MHz_ 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	17700.5	32.31	-30.97	41.40	-52.52	-25.00	27.52	211	2	Horizontal
2	5168.18	46.47	-44.19	32.60	-60.38	-25.00	35.38	147	110	Horizontal
3	7752.27	47.39	-40.96	37.01	-51.82	-25.00	26.82	214	192	Horizontal
4	10336.36	34.75	-36.70	38.87	-58.34	-25.00	33.34	233	88	Horizontal
5	12920.45	32.34	-34.87	39.52	-58.27	-25.00	33.27	176	88	Horizontal
6	15504.54	31.01	-34.16	38.54	-59.86	-25.00	34.86	288	340	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	7752	51.14	-40.96	37.00	-48.08	-25.00	23.08	161	74	Vertical
2	17455.5	32.29	-31.93	40.42	-54.48	-25.00	29.48	293	0	Vertical
3	5168.18	53.51	-44.19	32.60	-53.34	-25.00	28.34	244	135	Vertical
4	10336.36	37.38	-36.70	38.87	-55.71	-25.00	30.71	156	240	Vertical
5	12920.45	32.72	-34.87	39.52	-57.89	-25.00	32.89	228	259	Vertical
6	15504.54	31.91	-34.16	38.54	-58.96	-25.00	33.96	178	259	Vertical



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Test Band = LTE Band 41_20MHz_ 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	5342	54.43	-44.09	32.60	-52.32	-25.00	27.32	254	258	Horizontal
2	8013.5	49.47	-40.39	37.51	-48.67	-25.00	23.67	193	196	Horizontal
3	17324.5	33.17	-31.67	39.90	-53.86	-25.00	28.86	228	279	Horizontal
4	10510.36	32.20	-36.37	39.06	-60.36	-25.00	35.36	146	174	Horizontal
5	13137.95	31.01	-34.60	39.68	-59.16	-25.00	34.16	274	174	Horizontal
6	15765.54	31.48	-34.12	38.20	-59.70	-25.00	34.70	166	112	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	5342	56.55	-44.09	32.60	-50.20	-25.00	25.20	168	340	Vertical
2	8013	54.41	-40.39	37.51	-43.73	-25.00	18.73	263	113	Vertical
3	17844.5	32.83	-30.92	41.98	-51.37	-25.00	26.37	197	135	Vertical
4	10510.36	32.33	-36.37	39.06	-60.23	-25.00	35.23	146	258	Vertical
5	13137.95	31.20	-34.60	39.68	-58.97	-25.00	33.97	221	154	Vertical
6	15765.54	31.80	-34.12	38.20	-59.38	-25.00	34.38	177	298	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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Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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