

Report No.: SEWM2307000288RG01

Rev.: 01

Page: 1 of 6

Appendix B.8

LTE-NB1 Band 66



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Effective (Isotropic) Radiated Power Output Data

Test Result

Test Band	Test Mode	Sub-carrier Spacing (kHz)	Test channel	Number of T	Conducted Power (dBm)	EIRP (dBm)	limit (dBm)	Verdict
NB1 Band 66	BPSK	3.75	131973	1T0	23.44	26.54	30	PASS
NB1 Band 66	BPSK	3.75	131973	1T47	23.37	26.47	30	PASS
NB1 Band 66	BPSK	3.75	132322	1T0	23.41	26.51	30	PASS
NB1 Band 66	BPSK	3.75	132322	1T47	23.43	26.53	30	PASS
NB1 Band 66	BPSK	3.75	132671	1T0	23.23	26.33	30	PASS
NB1 Band 66	BPSK	3.75	132671	1T47	23.24	26.34	30	PASS
NB1 Band 66	QPSK	3.75	131973	1T0	23.41	26.51	30	PASS
NB1 Band 66	QPSK	3.75	131973	1T47	23.45	26.55	30	PASS
NB1 Band 66	QPSK	3.75	132322	1T0	23.23	26.33	30	PASS
NB1 Band 66	QPSK	3.75	132322	1T47	23.21	26.31	30	PASS
NB1 Band 66	QPSK	3.75	132671	1T0	23.16	26.26	30	PASS
NB1 Band 66	QPSK	3.75	132671	1T47	23.29	26.39	30	PASS



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratories

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Test Band	Test Mode	Sub-carrier Spacing (kHz)	Test channel	Number of T	Conducted Power (dBm)	EIRP (dBm)	limit (dBm)	Verdict
NB1 Band 66	BPSK	15	131973	1T0	23.32	26.42	30	PASS
NB1 Band 66	BPSK	15	131973	1T11	23.37	26.47	30	PASS
NB1 Band 66	BPSK	15	132322	1T0	23.39	26.49	30	PASS
NB1 Band 66	BPSK	15	132322	1T11	23.38	26.48	30	PASS
NB1 Band 66	BPSK	15	132671	1T0	23.49	26.59	30	PASS
NB1 Band 66	BPSK	15	132671	1T11	23.58	26.68	30	PASS
NB1 Band 66	QPSK	15	131973	1T0	23.38	26.48	30	PASS
NB1 Band 66	QPSK	15	131973	1T11	23.46	26.56	30	PASS
NB1 Band 66	QPSK	15	131973	12T0	21.41	24.51	30	PASS
NB1 Band 66	QPSK	15	132322	1T0	23.36	26.46	30	PASS
NB1 Band 66	QPSK	15	132322	1T11	23.47	26.57	30	PASS
NB1 Band 66	QPSK	15	132322	12T0	21.39	24.49	30	PASS
NB1 Band 66	QPSK	15	132671	1T0	23.46	26.56	30	PASS
NB1 Band 66	QPSK	15	132671	1T11	23.26	26.36	30	PASS
NB1 Band 66	QPSK	15	132671	12T0	21.45	24.55	30	PASS



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Field Strength of Spurious Radiation

Test Band = NB-IOT Band 66_ 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	3424.5	77.55	-45.87	29.58	-34.00	-13.00	21.00	254	111	Horizontal
2	5137.5	54.37	-44.24	33.17	-51.96	-13.00	38.96	142	318	Horizontal
3	6849.75	44.77	-42.50	35.94	-57.05	-13.00	44.05	263	142	Horizontal
4	7950	40.74	-40.53	37.05	-58.00	-13.00	45.00	225	206	Horizontal
5	11812.5	35.54	-35.28	38.40	-56.60	-13.00	43.60	114	254	Horizontal
6	14578.5	35.48	-34.76	40.18	-54.36	-13.00	41.36	228	191	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	3424.5	73.07	-45.87	29.58	-38.48	-13.00	25.48	102	105	Vertical
2	5137.5	55.09	-44.24	33.17	-51.24	-13.00	38.24	265	329	Vertical
3	6850.5	49.06	-42.49	35.94	-52.75	-13.00	39.75	284	105	Vertical
4	8923.5	39.63	-38.98	37.56	-57.05	-13.00	44.05	142	346	Vertical
5	12224.25	35.88	-35.21	38.67	-55.92	-13.00	42.92	263	0	Vertical
6	15192.75	34.30	-32.62	39.73	-53.84	-13.00	40.84	228	297	Vertical



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Test Band = NB-IOT Band 66_ 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	3489.75	72.69	-45.71	29.60	-38.69	-13.00	25.69	254	111	Horizontal
2	5235	46.37	-44.10	33.15	-59.84	-13.00	46.84	142	354	Horizontal
3	6979.5	47.66	-42.56	35.99	-54.17	-13.00	41.17	263	288	Horizontal
4	9556.5	39.28	-38.12	37.77	-56.33	-13.00	43.33	225	15	Horizontal
5	12897	35.89	-34.87	39.48	-54.76	-13.00	41.76	142	32	Horizontal
6	15185.25	34.67	-32.76	39.75	-53.60	-13.00	40.60	288	359	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	3489.75	66.24	-45.71	29.60	-45.14	-13.00	32.14	102	233	Vertical
2	5235	49.41	-44.10	33.15	-56.80	-13.00	43.80	265	185	Vertical
3	6979.5	48.92	-42.56	35.99	-52.91	-13.00	39.91	284	90	Vertical
4	9548.25	39.08	-38.13	37.76	-56.54	-13.00	43.54	142	0	Vertical
5	12012	36.09	-35.36	38.41	-56.12	-13.00	43.12	263	122	Vertical
6	15197.25	34.42	-32.53	39.73	-53.65	-13.00	40.65	252	185	Vertical



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Test Band = NB-IOT Band 66_ 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	3555	70.07	-45.43	29.79	-40.83	-13.00	27.83	201	111	Horizontal
2	5332.5	45.53	-44.07	33.13	-60.67	-13.00	47.67	122	158	Horizontal
3	7110	47.92	-42.45	36.13	-53.66	-13.00	40.66	221	206	Horizontal
4	9522	39.71	-38.14	37.76	-55.93	-13.00	42.93	254	358	Horizontal
5	11844.75	35.66	-35.19	38.40	-56.39	-13.00	43.39	142	285	Horizontal
6	15150.75	34.75	-33.41	39.81	-54.10	-13.00	41.10	263	360	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	3555	64.16	-45.43	29.79	-46.74	-13.00	33.74	265	72	Vertical
2	5332.5	46.25	-44.07	33.13	-59.95	-13.00	46.95	284	41	Vertical
3	7110	47.74	-42.45	36.13	-53.84	-13.00	40.84	142	136	Vertical
4	8921.25	39.14	-38.99	37.56	-57.55	-13.00	44.55	263	357	Vertical
5	11203.5	35.47	-34.97	38.40	-56.36	-13.00	43.36	228	186	Vertical
6	14999.25	34.85	-33.97	40.10	-54.28	-13.00	41.28	241	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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