

Test Band = 5G NR N66\_N77\_TM1

Test Channel = High 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	44.23	-42.69	36.86	-56.86	-13.00	43.86	269	270	Horizontal
2	8402.675	45.15	-41.38	37.34	-54.16	-13.00	41.16	255	2	Horizontal
3	9465.275	42.01	-39.95	38.47	-54.72	-13.00	41.72	148	1	Horizontal
4	11805.2700	29.70	-37.21	38.76	-64.01	-13.00	51.01	185	285	Horizontal
5	13705.325	33.63	-36.00	40.05	-57.58	-13.00	44.58	176	356	Horizontal
6	15740.3600	29.97	-33.18	38.27	-60.20	-13.00	47.20	133	0	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	7870.1800	44.07	-42.69	36.86	-57.02	-13.00	44.02	256	36	Vertical
2	8417.625	46.13	-41.45	37.37	-53.21	-13.00	40.21	122	236	Vertical
3	9567.05	42.58	-39.45	38.45	-53.68	-13.00	40.68	148	175	Vertical
4	11805.2700	31.14	-37.21	38.76	-62.57	-13.00	49.57	159	312	Vertical
5	15342.35	32.55	-33.98	38.78	-57.91	-13.00	44.91	133	21	Vertical
6	15740.3600	29.32	-33.18	38.27	-60.85	-13.00	47.85	255	0	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn  
 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号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

Test Band = 5G NR N71\_N77\_TM1

Test Channel = Low 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	41.00	-43.27	36.54	-60.99	-13.00	47.99	254	252	Horizontal
2	8933.975	40.32	-40.90	38.16	-57.68	-13.00	44.68	162	86	Horizontal
3	9442.85	38.43	-39.94	38.48	-58.29	-13.00	45.29	133	69	Horizontal
4	10965.2700	27.20	-37.67	39.10	-66.63	-13.00	53.63	251	224	Horizontal
5	12850.875	31.34	-36.75	39.68	-60.99	-13.00	47.99	189	329	Horizontal
6	14620.3600	27.32	-35.23	39.91	-63.26	-13.00	50.26	194	100	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	7310.1800	42.98	-43.27	36.54	-59.01	-13.00	46.01	211	0	Vertical
2	8435.45	43.04	-41.52	37.40	-56.34	-13.00	43.34	132	177	Vertical
3	10965.2700	26.88	-37.67	39.10	-66.95	-13.00	53.95	165	254	Vertical
4	12835.35	31.23	-36.71	39.67	-61.07	-13.00	48.07	125	222	Vertical
5	14620.3600	27.55	-35.23	39.91	-63.03	-13.00	50.03	195	330	Vertical
6	16356.65	34.41	-34.68	37.70	-57.83	-13.00	44.83	142	163	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn  
 中国·苏州·中国(江苏)自由贸易试验区苏州片区工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

Test Band = 5G NR N71\_N77\_TM1

Test Channel = Mid 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	42.83	-42.78	36.39	-58.82	-13.00	45.82	215	14	Horizontal
2	8937.425	39.88	-40.90	38.16	-58.11	-13.00	45.11	142	0	Horizontal
3	9470.45	37.99	-39.95	38.47	-58.75	-13.00	45.75	136	117	Horizontal
4	11835.2700	28.14	-37.25	38.79	-65.58	-13.00	52.58	255	134	Horizontal
5	13816.875	31.59	-36.14	39.98	-59.83	-13.00	46.83	169	357	Horizontal
6	15180.3600	28.56	-33.90	38.98	-61.62	-13.00	48.62	148	134	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	7590.1800	41.68	-42.78	36.39	-59.97	-13.00	46.97	241	330	Vertical
2	8422.225	43.02	-41.47	37.38	-56.33	-13.00	43.33	152	255	Vertical
3	8939.15	39.54	-40.89	38.16	-58.45	-13.00	45.45	123	209	Vertical
4	11311.025	31.75	-37.26	39.11	-61.66	-13.00	48.66	269	195	Vertical
5	11835.2700	27.61	-37.25	38.79	-66.11	-13.00	53.11	251	1	Vertical
6	15180.3600	28.61	-33.90	38.98	-61.57	-13.00	48.57	188	134	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn  
 中国·苏州·中国(江苏)自由贸易试验区苏州片区工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

Test Band = 5G NR N71\_N77\_TM1

Test Channel = High 3700-3980

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	39.94	-42.69	36.86	-61.15	-13.00	48.15	278	2	Horizontal
2	8936.85	39.44	-40.90	38.16	-58.55	-13.00	45.55	145	2	Horizontal
3	9423.3	38.21	-39.93	38.48	-58.50	-13.00	45.50	126	102	Horizontal
4	11805.2700	26.56	-37.21	38.76	-67.15	-13.00	54.15	295	316	Horizontal
5	12787.05	31.52	-36.65	39.61	-60.78	-13.00	47.78	145	26	Horizontal
6	15740.3600	28.89	-33.18	38.27	-61.28	-13.00	48.28	180	72	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	7870.1800	39.44	-42.69	36.86	-61.65	-13.00	48.65	155	356	Vertical
s	8407.85	42.86	-41.40	37.35	-56.46	-13.00	43.46	142	71	Vertical
3	9449.175	39.03	-39.94	38.48	-57.69	-13.00	44.69	199	102	Vertical
4	11805.2700	27.18	-37.21	38.76	-66.53	-13.00	53.53	128	133	Vertical
5	12752.55	30.73	-36.72	39.55	-61.70	-13.00	48.70	174	285	Vertical
6	15740.3600	28.29	-33.18	38.27	-61.88	-13.00	48.88	186	13	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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**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](mailto:CN.Doccheck@sgs.com)

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号厂房南楼 邮编: 215000

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

## Frequency Stability for SA

### Test Result

### Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	VH	NT	9.100000	0.002370	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	VN	NT	25.200000	0.006563	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	VL	NT	12.900000	0.003359	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	8.900000	0.002318	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	14.600000	0.003802	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	13.900000	0.003620	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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](mailto:CN.Doccheck@sgs.com)

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号厂房南楼 邮编: 215000

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

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	-30	9.200000	0.002396	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	-20	7.400000	0.001927	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	-10	13.300000	0.003464	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	0	14.600000	0.003802	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	10	15.200000	0.003958	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	20	7.500000	0.001953	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	30	11.700000	0.003047	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	40	16.000000	0.004167	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	50	12.800000	0.003333	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	13.900000	0.003620	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	6.800000	0.001771	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	9.200000	0.002396	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	5.300000	0.001380	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	3.500000	0.000911	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	15.800000	0.004115	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	12.200000	0.003177	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	6.200000	0.001615	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	13.700000	0.003568	PASS

---End of Attachment---



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn  
 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号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com