



Test Band = NR N66A_N77A_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]	Polarity
1	7356.75	39.08	-43.02	36.20	-63.00	-13.00	50.00	Horizontal
2	7875.4	38.92	-42.70	36.75	-62.29	-13.00	49.29	Horizontal
3	9094.975	35.27	-40.43	36.48	-63.94	-13.00	50.94	Horizontal
4	9608.45	34.43	-39.22	37.46	-62.60	-13.00	49.60	Horizontal
5	11456.5	29.33	-36.95	38.75	-64.13	-13.00	51.13	Horizontal
6	15823.05	25.92	-33.31	39.57	-63.08	-13.00	50.08	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7623.55	39.47	-42.79	36.65	-61.93	-13.00	48.93	Vertical
2	8418.2	38.47	-41.45	36.59	-61.65	-13.00	48.65	Vertical
3	8979.4	36.19	-40.88	36.31	-63.64	-13.00	50.64	Vertical
4	10379.525	31.63	-38.77	38.39	-64.01	-13.00	51.01	Vertical
5	12242.525	27.73	-36.91	38.87	-65.57	-13.00	52.57	Vertical
6	15155.475	25.91	-34.08	40.97	-62.46	-13.00	49.46	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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = NR N66A_N77A_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]	Polarity
1	7397	40.13	-42.81	36.31	-61.62	-13.00	48.62	Horizontal
2	8203.15	37.38	-42.14	36.70	-63.32	-13.00	50.32	Horizontal
3	8948.925	36.22	-40.89	36.33	-63.60	-13.00	50.60	Horizontal
4	9621.1	34.60	-39.26	37.48	-62.44	-13.00	49.44	Horizontal
5	11452.475	29.53	-36.99	38.75	-63.97	-13.00	50.97	Horizontal
6	14321.725	27.09	-35.69	41.03	-62.83	-13.00	49.83	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7548.8	39.74	-42.96	36.62	-61.86	-13.00	48.86	Vertical
2	8931.1	36.29	-40.90	36.33	-63.53	-13.00	50.53	Vertical
3	9571.075	34.41	-39.42	37.39	-62.88	-13.00	49.88	Vertical
4	11335.175	30.01	-37.33	38.73	-63.84	-13.00	50.84	Vertical
5	12305.2	28.28	-36.66	38.89	-64.75	-13.00	51.75	Vertical
6	13757.075	27.82	-36.14	40.46	-63.12	-13.00	50.12	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 <https://www.sgs.com/en/Terms-and-Conditions>. 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
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com

Test Band = NR N66A_N77A_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]	Polarity
1	8413.025	38.39	-41.43	36.59	-61.70	-13.00	48.70	Horizontal
2	9588.9	34.25	-39.28	37.42	-62.88	-13.00	49.88	Horizontal
3	10368.6	31.76	-38.80	38.38	-63.91	-13.00	50.91	Horizontal
4	11451.9	29.13	-36.99	38.75	-64.38	-13.00	51.38	Horizontal
5	12718.05	27.36	-36.79	39.02	-65.68	-13.00	52.68	Horizontal
6	14464.325	25.61	-34.53	41.09	-63.10	-13.00	50.10	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7831.125	38.97	-42.63	36.73	-62.19	-13.00	49.19	Vertical
2	9406.05	34.84	-39.92	37.07	-63.27	-13.00	50.27	Vertical
3	9688.95	33.10	-39.45	37.61	-64.00	-13.00	51.00	Vertical
4	11445.575	29.52	-37.05	38.74	-64.05	-13.00	51.05	Vertical
5	12842.825	28.30	-36.73	39.05	-64.63	-13.00	51.63	Vertical
6	14629.925	26.13	-35.17	41.15	-63.15	-13.00	50.15	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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-5.300000	-0.001263	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-4.800000	-0.001426	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-5.100000	-0.001534	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	-3.300000	-0.000863	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-2.100000	-0.000763	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	-4.500000	-0.001453	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-3.500000	-0.001563	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-3.500000	-0.000756	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.300000	-0.000763	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-5.200000	-0.002534	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-4.800000	-0.001352	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.300000	-0.004587	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-5.500000	-0.005269	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-4.700000	-0.001452	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-6.700000	-0.004126	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-3.800000	-0.000236	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	-4.700000	-0.001563	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	-3.800000	-0.000569	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	-5.500000	-0.001365	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	-5.100000	-0.004236	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	-3.800000	-0.001532	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	-2.400000	-0.000824	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	-2.500000	-0.000653	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	-4.200000	-0.004123	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 <https://www.sgs.com/en/Terms-and-Conditions>. 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
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com