

Report No.: SUCR240400008902

Rev.: 01

Page: 112 of 116

Test Band = UL MIMO SA Band 77 3700-3980_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7357.2292	34.11	-37.64	36.43	-62.36	-13.00	49.36	Horizontal
2	9541.2708	33.48	-33.76	37.76	-57.77	-13.00	44.77	Horizontal
3	11320.4167	29.36	-30.02	38.40	-57.52	-13.00	44.52	Horizontal
4	13896.4167	30.50	-28.74	40.23	-53.27	-13.00	40.27	Horizontal
5	15532.7708	29.16	-27.24	39.09	-54.26	-13.00	41.26	Horizontal
6	17852.8958	28.99	-24.29	40.95	-49.61	-13.00	36.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7402.2708	36.61	-37.93	36.48	-60.09	-13.00	47.09	Vertical
2	8971.5417	32.67	-34.73	37.59	-59.73	-13.00	46.73	Vertical
3	11123	29.57	-30.16	38.40	-57.45	-13.00	44.45	Vertical
4	13641.5	31.46	-28.95	40.05	-52.70	-13.00	39.70	Vertical
5	15046.8958	29.98	-28.48	40.01	-53.75	-13.00	40.75	Vertical
6	17187.3333	29.80	-25.36	39.35	-51.47	-13.00	38.47	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) 83071443, 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
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

Member of the SGS Group (SGS SA)

Report No.: SUCR240400008902

Rev.: 01

Page: 113 of 116

Test Band = UL MIMO SA Band 77 3700-3980_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7965.7708	34.19	-36.74	37.07	-60.74	-13.00	47.74	Horizontal
2	9468.4375	33.56	-33.85	37.74	-57.81	-13.00	44.81	Horizontal
3	11217.875	29.76	-30.24	38.40	-57.34	-13.00	44.34	Horizontal
4	12970.1875	31.53	-29.81	39.56	-53.98	-13.00	40.98	Horizontal
5	14536.1042	30.44	-29.06	40.19	-53.69	-13.00	40.69	Horizontal
6	16986.0833	29.80	-24.85	38.89	-51.42	-13.00	38.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7581.9583	38.22	-37.71	36.68	-58.06	-13.00	45.06	Vertical
2	9511.0833	33.28	-33.86	37.75	-58.09	-13.00	45.09	Vertical
3	11373.125	37.15	-30.34	38.40	-50.05	-13.00	37.05	Vertical
4	13633.8333	30.26	-28.93	40.04	-53.88	-13.00	40.88	Vertical
5	16355.5	30.03	-26.72	38.45	-53.50	-13.00	40.50	Vertical
6	17782.4583	28.33	-23.85	40.78	-50.00	-13.00	37.00	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

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

Member of the SGS Group (SGS SA)

Report No.: SUCR240400008902

Rev.: 01

Page: 114 of 116

Test Band = UL MIMO SA Band 77 3700-3980_TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6900.5833	35.12	-38.19	35.96	-62.37	-13.00	49.37	Horizontal
2	9025.2083	33.35	-34.58	37.61	-58.89	-13.00	45.89	Horizontal
3	11642.8958	36.53	-30.10	38.40	-50.43	-13.00	37.43	Horizontal
4	14389	29.70	-28.79	40.22	-54.12	-13.00	41.12	Horizontal
5	15540.4375	29.33	-27.33	39.07	-54.19	-13.00	41.19	Horizontal
6	17849.5417	29.31	-24.25	40.94	-49.26	-13.00	36.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7762.125	35.67	-37.11	36.86	-59.84	-13.00	46.84	Vertical
2	9512.5208	33.50	-33.86	37.75	-57.86	-13.00	44.86	Vertical
3	11642.8958	44.48	-30.10	38.40	-42.48	-13.00	29.48	Vertical
4	13661.1458	30.89	-29.01	40.06	-53.31	-13.00	40.31	Vertical
5	15542.8333	29.11	-27.36	39.07	-54.44	-13.00	41.44	Vertical
6	17846.6667	28.77	-24.22	40.93	-49.78	-13.00	36.78	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-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

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

Member of the SGS Group (SGS SA)

Report No.: SUCR240400008902

Rev.: 01

Page: 115 of 116

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	3.100000	0.000807	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	0.800000	0.000208	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	1.700000	0.000443	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	7.500000	0.001953	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-6.600000	-0.001719	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	13.200000	0.003438	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-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

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

Member of the SGS Group (SGS SA)



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	50	6.700000	0.001745	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	3.200000	0.000833	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	2.700000	0.000703	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-4.900000	-0.001276	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	5.500000	0.001432	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	0.000000	0.000000	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-7.000000	-0.001823	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.900000	-0.000755	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	4.000000	0.001042	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	-0.200000	-0.000052	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	-1.700000	-0.000443	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	-0.600000	-0.000156	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	4.500000	0.001172	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	-4.900000	-0.001276	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	-5.600000	-0.001458	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	1.700000	0.000443	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	0.100000	0.000026	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-1.400000	-0.000365	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
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

Member of the SGS Group (SGS SA)