



Appendix B.50

NR Band n48



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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.sgsgroup.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



Effective (Isotropic) Radiated Power Output Data

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
N48	30	10	DFT- PI2BPSK	L	Inner_1RB_Left	23.39	17.29	23.00	PASS
N48	30	10	DFT- PI2BPSK	L	Inner_1RB_Right	23.38	17.28	23.00	PASS
N48	30	10	DFT- PI2BPSK	L	Outer_Full	22.84	16.74	23.00	PASS
N48	30	10	DFT-QPSK	L	Inner_1RB_Left	23.39	17.29	23.00	PASS
N48	30	10	DFT-QPSK	L	Inner_1RB_Right	23.35	17.25	23.00	PASS
N48	30	10	DFT-QPSK	L	Outer_Full	22.38	16.28	23.00	PASS
N48	30	10	DFT-16QAM	L	Inner_1RB_Left	22.53	16.43	23.00	PASS
N48	30	10	DFT-16QAM	L	Inner_1RB_Right	22.56	16.46	23.00	PASS
N48	30	10	DFT-16QAM	L	Outer_Full	21.41	15.31	23.00	PASS
N48	30	10	DFT-64QAM	L	Inner_1RB_Left	20.89	14.79	23.00	PASS
N48	30	10	DFT-64QAM	L	Inner_1RB_Right	20.97	14.87	23.00	PASS
N48	30	10	DFT-64QAM	L	Outer_Full	20.94	14.84	23.00	PASS
N48	30	10	DFT-256QAM	L	Inner_1RB_Left	18.69	12.59	23.00	PASS
N48	30	10	DFT-256QAM	L	Inner_1RB_Right	18.69	12.59	23.00	PASS
N48	30	10	DFT-256QAM	L	Outer_Full	18.79	12.69	23.00	PASS
N48	30	10	DFT- PI2BPSK	M	Inner_1RB_Left	23.29	17.19	23.00	PASS
N48	30	10	DFT- PI2BPSK	M	Inner_1RB_Right	23.36	17.26	23.00	PASS
N48	30	10	DFT- PI2BPSK	M	Outer_Full	22.77	16.67	23.00	PASS
N48	30	10	DFT-QPSK	M	Inner_1RB_Left	23.29	17.19	23.00	PASS
N48	30	10	DFT-QPSK	M	Inner_1RB_Right	23.35	17.25	23.00	PASS
N48	30	10	DFT-QPSK	M	Outer_Full	22.26	16.16	23.00	PASS
N48	30	10	DFT-16QAM	M	Inner_1RB_Left	22.52	16.42	23.00	PASS
N48	30	10	DFT-16QAM	M	Inner_1RB_Right	22.52	16.42	23.00	PASS
N48	30	10	DFT-16QAM	M	Outer_Full	21.37	15.27	23.00	PASS
N48	30	10	DFT-64QAM	M	Inner_1RB_Left	20.91	14.81	23.00	PASS
N48	30	10	DFT-64QAM	M	Inner_1RB_Right	20.95	14.85	23.00	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 <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.ssgroup.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



N48	30	10	DFT-64QAM	M	Outer_Full	20.87	14.77	23.00	PASS
N48	30	10	DFT-256QAM	M	Inner_1RB_Left	18.62	12.52	23.00	PASS
N48	30	10	DFT-256QAM	M	Inner_1RB_Right	18.48	12.38	23.00	PASS
N48	30	10	DFT-256QAM	M	Outer_Full	18.78	12.68	23.00	PASS
N48	30	10	DFT-PI2BPSK	H	Inner_1RB_Left	23.12	17.02	23.00	PASS
N48	30	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.25	17.15	23.00	PASS
N48	30	10	DFT-PI2BPSK	H	Outer_Full	22.68	16.58	23.00	PASS
N48	30	10	DFT-QPSK	H	Inner_1RB_Left	23.07	16.97	23.00	PASS
N48	30	10	DFT-QPSK	H	Inner_1RB_Right	23.23	17.13	23.00	PASS
N48	30	10	DFT-QPSK	H	Outer_Full	22.16	16.06	23.00	PASS
N48	30	10	DFT-16QAM	H	Inner_1RB_Left	22.27	16.17	23.00	PASS
N48	30	10	DFT-16QAM	H	Inner_1RB_Right	22.37	16.27	23.00	PASS
N48	30	10	DFT-16QAM	H	Outer_Full	21.25	15.15	23.00	PASS
N48	30	10	DFT-64QAM	H	Inner_1RB_Left	20.66	14.56	23.00	PASS
N48	30	10	DFT-64QAM	H	Inner_1RB_Right	20.70	14.60	23.00	PASS
N48	30	10	DFT-64QAM	H	Outer_Full	20.73	14.63	23.00	PASS
N48	30	10	DFT-256QAM	H	Inner_1RB_Left	18.50	12.40	23.00	PASS
N48	30	10	DFT-256QAM	H	Inner_1RB_Right	18.57	12.47	23.00	PASS
N48	30	10	DFT-256QAM	H	Outer_Full	18.62	12.52	23.00	PASS
N48	30	20	DFT-PI2BPSK	L	Inner_1RB_Left	23.60	17.50	23.00	PASS
N48	30	20	DFT-PI2BPSK	L	Inner_1RB_Right	23.50	17.40	23.00	PASS
N48	30	20	DFT-PI2BPSK	L	Outer_Full	23.08	16.98	23.00	PASS
N48	30	20	DFT-QPSK	L	Inner_1RB_Left	23.60	17.50	23.00	PASS
N48	30	20	DFT-QPSK	L	Inner_1RB_Right	23.50	17.40	23.00	PASS
N48	30	20	DFT-QPSK	L	Outer_Full	22.58	16.48	23.00	PASS
N48	30	20	DFT-16QAM	L	Inner_1RB_Left	22.75	16.65	23.00	PASS
N48	30	20	DFT-16QAM	L	Inner_1RB_Right	22.66	16.56	23.00	PASS
N48	30	20	DFT-16QAM	L	Outer_Full	21.61	15.51	23.00	PASS
N48	30	20	DFT-64QAM	L	Inner_1RB_Left	21.22	15.12	23.00	PASS
N48	30	20	DFT-64QAM	L	Inner_1RB_Right	21.05	14.95	23.00	PASS
N48	30	20	DFT-64QAM	L	Outer_Full	21.19	15.09	23.00	PASS
N48	30	20	DFT-256QAM	L	Inner_1RB_Left	18.97	12.87	23.00	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 <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 herein 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.sgsgroup.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



N48	30	20	DFT-256QAM	L	Inner_1RB_Right	18.81	12.71	23.00	PASS
N48	30	20	DFT-256QAM	L	Outer_Full	19.06	12.96	23.00	PASS
N48	30	20	DFT-PI2BPSK	M	Inner_1RB_Left	23.49	17.39	23.00	PASS
N48	30	20	DFT-PI2BPSK	M	Inner_1RB_Right	23.24	17.14	23.00	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	22.93	16.83	23.00	PASS
N48	30	20	DFT-QPSK	M	Inner_1RB_Left	23.45	17.35	23.00	PASS
N48	30	20	DFT-QPSK	M	Inner_1RB_Right	23.28	17.18	23.00	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	22.39	16.29	23.00	PASS
N48	30	20	DFT-16QAM	M	Inner_1RB_Left	22.64	16.54	23.00	PASS
N48	30	20	DFT-16QAM	M	Inner_1RB_Right	22.60	16.50	23.00	PASS
N48	30	20	DFT-16QAM	M	Outer_Full	21.42	15.32	23.00	PASS
N48	30	20	DFT-64QAM	M	Inner_1RB_Left	21.06	14.96	23.00	PASS
N48	30	20	DFT-64QAM	M	Inner_1RB_Right	20.87	14.77	23.00	PASS
N48	30	20	DFT-64QAM	M	Outer_Full	20.93	14.83	23.00	PASS
N48	30	20	DFT-256QAM	M	Inner_1RB_Left	18.82	12.72	23.00	PASS
N48	30	20	DFT-256QAM	M	Inner_1RB_Right	18.59	12.49	23.00	PASS
N48	30	20	DFT-256QAM	M	Outer_Full	18.93	12.83	23.00	PASS
N48	30	20	DFT-PI2BPSK	H	Inner_1RB_Left	23.13	17.03	23.00	PASS
N48	30	20	DFT-PI2BPSK	H	Inner_1RB_Right	23.36	17.26	23.00	PASS
N48	30	20	DFT-PI2BPSK	H	Outer_Full	22.67	16.57	23.00	PASS
N48	30	20	DFT-QPSK	H	Inner_1RB_Left	23.12	17.02	23.00	PASS
N48	30	20	DFT-QPSK	H	Inner_1RB_Right	23.31	17.21	23.00	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	22.15	16.05	23.00	PASS
N48	30	20	DFT-16QAM	H	Inner_1RB_Left	22.26	16.16	23.00	PASS
N48	30	20	DFT-16QAM	H	Inner_1RB_Right	22.46	16.36	23.00	PASS
N48	30	20	DFT-16QAM	H	Outer_Full	21.19	15.09	23.00	PASS
N48	30	20	DFT-64QAM	H	Inner_1RB_Left	20.65	14.55	23.00	PASS
N48	30	20	DFT-64QAM	H	Inner_1RB_Right	20.89	14.79	23.00	PASS
N48	30	20	DFT-64QAM	H	Outer_Full	20.70	14.60	23.00	PASS
N48	30	20	DFT-256QAM	H	Inner_1RB_Left	18.48	12.38	23.00	PASS
N48	30	20	DFT-256QAM	H	Inner_1RB_Right	18.65	12.55	23.00	PASS
N48	30	20	DFT-256QAM	H	Outer_Full	18.66	12.56	23.00	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 <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 herein 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



N48	30	30	DFT-PI2BPSK	L	Inner_1RB_Left	23.66	17.56	23.00	PASS
N48	30	30	DFT-PI2BPSK	L	Inner_1RB_Right	23.25	17.15	23.00	PASS
N48	30	30	DFT-PI2BPSK	L	Outer_Full	23.01	16.91	23.00	PASS
N48	30	30	DFT-QPSK	L	Inner_1RB_Left	23.65	17.55	23.00	PASS
N48	30	30	DFT-QPSK	L	Inner_1RB_Right	23.31	17.21	23.00	PASS
N48	30	30	DFT-QPSK	L	Outer_Full	22.54	16.44	23.00	PASS
N48	30	30	DFT-16QAM	L	Inner_1RB_Left	22.83	16.73	23.00	PASS
N48	30	30	DFT-16QAM	L	Inner_1RB_Right	22.48	16.38	23.00	PASS
N48	30	30	DFT-16QAM	L	Outer_Full	21.47	15.37	23.00	PASS
N48	30	30	DFT-64QAM	L	Inner_1RB_Left	21.17	15.07	23.00	PASS
N48	30	30	DFT-64QAM	L	Inner_1RB_Right	20.86	14.76	23.00	PASS
N48	30	30	DFT-64QAM	L	Outer_Full	21.10	15.00	23.00	PASS
N48	30	30	DFT-256QAM	L	Inner_1RB_Left	19.01	12.91	23.00	PASS
N48	30	30	DFT-256QAM	L	Inner_1RB_Right	18.75	12.65	23.00	PASS
N48	30	30	DFT-256QAM	L	Outer_Full	18.96	12.86	23.00	PASS
N48	30	30	DFT-PI2BPSK	M	Inner_1RB_Left	23.60	17.50	23.00	PASS
N48	30	30	DFT-PI2BPSK	M	Inner_1RB_Right	23.17	17.07	23.00	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	22.93	16.83	23.00	PASS
N48	30	30	DFT-QPSK	M	Inner_1RB_Left	23.70	17.60	23.00	PASS
N48	30	30	DFT-QPSK	M	Inner_1RB_Right	23.23	17.13	23.00	PASS
N48	30	30	DFT-QPSK	M	Outer_Full	22.43	16.33	23.00	PASS
N48	30	30	DFT-16QAM	M	Inner_1RB_Left	22.82	16.72	23.00	PASS
N48	30	30	DFT-16QAM	M	Inner_1RB_Right	22.43	16.33	23.00	PASS
N48	30	30	DFT-16QAM	M	Outer_Full	21.47	15.37	23.00	PASS
N48	30	30	DFT-64QAM	M	Inner_1RB_Left	21.20	15.10	23.00	PASS
N48	30	30	DFT-64QAM	M	Inner_1RB_Right	20.77	14.67	23.00	PASS
N48	30	30	DFT-64QAM	M	Outer_Full	21.00	14.90	23.00	PASS
N48	30	30	DFT-256QAM	M	Inner_1RB_Left	18.97	12.87	23.00	PASS
N48	30	30	DFT-256QAM	M	Inner_1RB_Right	18.57	12.47	23.00	PASS
N48	30	30	DFT-256QAM	M	Outer_Full	18.99	12.89	23.00	PASS
N48	30	30	DFT-PI2BPSK	H	Inner_1RB_Left	23.32	17.22	23.00	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 <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 herein 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

N48	30	30	DFT-PI2BPSK	H	Inner_1RB_Right	23.26	17.16	23.00	PASS
N48	30	30	DFT-PI2BPSK	H	Outer_Full	22.73	16.63	23.00	PASS
N48	30	30	DFT-QPSK	H	Inner_1RB_Left	23.35	17.25	23.00	PASS
N48	30	30	DFT-QPSK	H	Inner_1RB_Right	23.28	17.18	23.00	PASS
N48	30	30	DFT-QPSK	H	Outer_Full	22.28	16.18	23.00	PASS
N48	30	30	DFT-16QAM	H	Inner_1RB_Left	22.39	16.29	23.00	PASS
N48	30	30	DFT-16QAM	H	Inner_1RB_Right	22.44	16.34	23.00	PASS
N48	30	30	DFT-16QAM	H	Outer_Full	21.20	15.10	23.00	PASS
N48	30	30	DFT-64QAM	H	Inner_1RB_Left	20.80	14.70	23.00	PASS
N48	30	30	DFT-64QAM	H	Inner_1RB_Right	20.81	14.71	23.00	PASS
N48	30	30	DFT-64QAM	H	Outer_Full	20.77	14.67	23.00	PASS
N48	30	30	DFT-256QAM	H	Inner_1RB_Left	18.67	12.57	23.00	PASS
N48	30	30	DFT-256QAM	H	Inner_1RB_Right	18.61	12.51	23.00	PASS
N48	30	30	DFT-256QAM	H	Outer_Full	18.75	12.65	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Left	23.61	17.51	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	23.31	17.21	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Outer_Full	22.97	16.87	23.00	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Left	23.57	17.47	23.00	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Right	23.39	17.29	23.00	PASS
N48	30	40	DFT-QPSK	L	Outer_Full	23.23	17.13	23.00	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Left	22.51	16.41	23.00	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Right	22.41	16.31	23.00	PASS
N48	30	40	DFT-16QAM	L	Outer_Full	22.32	16.22	23.00	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Left	22.58	16.48	23.00	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Right	22.37	16.27	23.00	PASS
N48	30	40	DFT-64QAM	L	Outer_Full	22.19	16.09	23.00	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Left	18.98	12.88	23.00	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Right	18.88	12.78	23.00	PASS
N48	30	40	DFT-256QAM	L	Outer_Full	18.97	12.87	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Left	23.68	17.58	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Right	23.30	17.20	23.00	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 <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 herein 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

N48	30	40	DFT-PI2BPSK	M	Outer_Full	22.95	16.85	23.00	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Left	23.70	17.60	23.00	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Right	23.26	17.16	23.00	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	22.44	16.34	23.00	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Left	22.83	16.73	23.00	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Right	22.34	16.24	23.00	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	21.50	15.40	23.00	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Left	21.29	15.19	23.00	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Right	20.79	14.69	23.00	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	20.96	14.86	23.00	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Left	19.05	12.95	23.00	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Right	18.69	12.59	23.00	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	18.95	12.85	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Left	23.26	17.16	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Right	23.49	17.39	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Outer_Full	22.81	16.71	23.00	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Left	23.31	17.21	23.00	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Right	23.54	17.44	23.00	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	22.32	16.22	23.00	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Left	22.47	16.37	23.00	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Right	22.56	16.46	23.00	PASS
N48	30	40	DFT-16QAM	H	Outer_Full	21.26	15.16	23.00	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Left	20.83	14.73	23.00	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Right	20.93	14.83	23.00	PASS
N48	30	40	DFT-64QAM	H	Outer_Full	20.78	14.68	23.00	PASS
N48	30	40	DFT-256QAM	H	Inner_1RB_Left	18.65	12.55	23.00	PASS
N48	30	40	DFT-256QAM	H	Inner_1RB_Right	18.72	12.62	23.00	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	18.82	12.72	23.00	PASS





Test Result for MIMO

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power Ant1	Power Ant2	Total Power	ERIP	Verdict
N48	30	10	CP-QPSK	L	Inner_1RB_Left	19.28	18.73	22.02	15.92	PASS
N48	30	10	CP-QPSK	L	Inner_1RB_Right	19.24	18.94	22.10	16.00	PASS
N48	30	10	CP-QPSK	L	Outer_Full	17.71	17.17	20.46	14.36	PASS
N48	30	10	CP-16QAM	L	Inner_1RB_Left	18.71	18.28	21.51	15.41	PASS
N48	30	10	CP-16QAM	L	Inner_1RB_Right	18.74	18.03	21.41	15.31	PASS
N48	30	10	CP-16QAM	L	Outer_Full	17.66	17.16	20.43	14.33	PASS
N48	30	10	CP-64QAM	L	Inner_1RB_Left	17.34	16.70	20.04	13.94	PASS
N48	30	10	CP-64QAM	L	Inner_1RB_Right	17.33	16.60	19.99	13.89	PASS
N48	30	10	CP-64QAM	L	Outer_Full	17.13	16.70	19.93	13.83	PASS
N48	30	10	CP-256QAM	L	Inner_1RB_Left	14.33	13.65	17.01	10.91	PASS
N48	30	10	CP-256QAM	L	Inner_1RB_Right	14.19	13.54	16.89	10.79	PASS
N48	30	10	CP-256QAM	L	Outer_Full	14.09	13.68	16.90	10.80	PASS
N48	30	10	CP-QPSK	M	Inner_1RB_Left	18.90	18.75	21.84	15.74	PASS
N48	30	10	CP-QPSK	M	Inner_1RB_Right	18.96	18.88	21.93	15.83	PASS
N48	30	10	CP-QPSK	M	Outer_Full	17.43	17.37	20.41	14.31	PASS
N48	30	10	CP-16QAM	M	Inner_1RB_Left	18.49	18.16	21.34	15.24	PASS
N48	30	10	CP-16QAM	M	Inner_1RB_Right	18.52	18.23	21.39	15.29	PASS
N48	30	10	CP-16QAM	M	Outer_Full	17.38	17.38	20.39	14.29	PASS
N48	30	10	CP-64QAM	M	Inner_1RB_Left	17.00	16.76	19.89	13.79	PASS
N48	30	10	CP-64QAM	M	Inner_1RB_Right	17.02	16.79	19.92	13.82	PASS
N48	30	10	CP-64QAM	M	Outer_Full	16.88	16.93	19.92	13.82	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 <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 herein 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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.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



Report No.: ZEWM2306000841RG02

Page: 9 of 12

N48	30	10	CP-256QAM	M	Inner_1RB_Left	14.10	13.63	16.88	10.78	PASS
N48	30	10	CP-256QAM	M	Inner_1RB_Right	14.04	13.73	16.90	10.80	PASS
N48	30	10	CP-256QAM	M	Outer_Full	13.84	13.82	16.84	10.74	PASS
N48	30	10	CP-QPSK	H	Inner_1RB_Left	18.93	18.76	21.86	15.76	PASS
N48	30	10	CP-QPSK	H	Inner_1RB_Right	18.91	18.72	21.83	15.73	PASS
N48	30	10	CP-QPSK	H	Outer_Full	17.26	17.06	20.17	14.07	PASS
N48	30	10	CP-16QAM	H	Inner_1RB_Left	18.26	18.20	21.24	15.14	PASS
N48	30	10	CP-16QAM	H	Inner_1RB_Right	18.37	17.81	21.11	15.01	PASS
N48	30	10	CP-16QAM	H	Outer_Full	17.29	17.04	20.18	14.08	PASS
N48	30	10	CP-64QAM	H	Inner_1RB_Left	16.89	16.63	19.77	13.67	PASS
N48	30	10	CP-64QAM	H	Inner_1RB_Right	16.93	16.42	19.69	13.59	PASS
N48	30	10	CP-64QAM	H	Outer_Full	16.74	16.55	19.66	13.56	PASS
N48	30	10	CP-256QAM	H	Inner_1RB_Left	13.82	13.54	16.69	10.59	PASS
N48	30	10	CP-256QAM	H	Inner_1RB_Right	13.84	13.33	16.60	10.50	PASS
N48	30	10	CP-256QAM	H	Outer_Full	13.65	13.55	16.61	10.51	PASS
N48	30	20	CP-QPSK	L	Inner_1RB_Left	19.58	18.84	22.24	16.14	PASS
N48	30	20	CP-QPSK	L	Inner_1RB_Right	19.51	19.15	22.34	16.24	PASS
N48	30	20	CP-QPSK	L	Outer_Full	17.88	17.35	20.63	14.53	PASS
N48	30	20	CP-16QAM	L	Inner_1RB_Left	19.00	18.48	21.76	15.66	PASS
N48	30	20	CP-16QAM	L	Inner_1RB_Right	19.11	18.53	21.84	15.74	PASS
N48	30	20	CP-16QAM	L	Outer_Full	17.85	17.36	20.62	14.52	PASS
N48	30	20	CP-64QAM	L	Inner_1RB_Left	17.51	16.84	20.20	14.10	PASS
N48	30	20	CP-64QAM	L	Inner_1RB_Right	17.44	17.17	20.32	14.22	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 <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.sgsgroup.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



Report No.: ZEWM2306000841RG02

Page: 10 of 12

N48	30	20	CP-64QAM	L	Outer_Full	17.42	16.81	20.14	14.04	PASS
N48	30	20	CP-256QAM	L	Inner_1RB_Left	14.63	13.81	17.25	11.15	PASS
N48	30	20	CP-256QAM	L	Inner_1RB_Right	14.47	14.07	17.28	11.18	PASS
N48	30	20	CP-256QAM	L	Outer_Full	14.38	13.90	17.16	11.06	PASS
N48	30	20	CP-QPSK	M	Inner_1RB_Left	19.16	18.65	21.92	15.82	PASS
N48	30	20	CP-QPSK	M	Inner_1RB_Right	19.30	18.77	22.05	15.95	PASS
N48	30	20	CP-QPSK	M	Outer_Full	17.57	17.38	20.49	14.39	PASS
N48	30	20	CP-16QAM	M	Inner_1RB_Left	18.67	18.10	21.40	15.30	PASS
N48	30	20	CP-16QAM	M	Inner_1RB_Right	18.63	17.97	21.32	15.22	PASS
N48	30	20	CP-16QAM	M	Outer_Full	17.56	17.43	20.51	14.41	PASS
N48	30	20	CP-64QAM	M	Inner_1RB_Left	17.28	16.81	20.06	13.96	PASS
N48	30	20	CP-64QAM	M	Inner_1RB_Right	17.19	16.64	19.93	13.83	PASS
N48	30	20	CP-64QAM	M	Outer_Full	17.07	16.92	20.01	13.91	PASS
N48	30	20	CP-256QAM	M	Inner_1RB_Left	14.31	13.65	17.00	10.90	PASS
N48	30	20	CP-256QAM	M	Inner_1RB_Right	14.28	13.56	16.95	10.85	PASS
N48	30	20	CP-256QAM	M	Outer_Full	14.11	13.91	17.02	10.92	PASS
N48	30	20	CP-QPSK	H	Inner_1RB_Left	18.92	18.74	21.84	15.74	PASS
N48	30	20	CP-QPSK	H	Inner_1RB_Right	19.06	18.62	21.86	15.76	PASS
N48	30	20	CP-QPSK	H	Outer_Full	17.38	17.35	20.38	14.28	PASS
N48	30	20	CP-16QAM	H	Inner_1RB_Left	18.38	18.19	21.30	15.20	PASS
N48	30	20	CP-16QAM	H	Inner_1RB_Right	18.44	18.00	21.24	15.14	PASS
N48	30	20	CP-16QAM	H	Outer_Full	17.37	17.30	20.35	14.25	PASS
N48	30	20	CP-64QAM	H	Inner_1RB_Left	16.98	16.79	19.90	13.80	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 <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 herein 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.sgsgroup.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



Report No.: ZEWM2306000841RG02

Page: 11 of 12

N48	30	20	CP-64QAM	H	Inner_1RB_Right	17.12	16.61	19.88	13.78	PASS
N48	30	20	CP-64QAM	H	Outer_Full	16.83	16.79	19.82	13.72	PASS
N48	30	20	CP-256QAM	H	Inner_1RB_Left	14.03	13.64	16.85	10.75	PASS
N48	30	20	CP-256QAM	H	Inner_1RB_Right	14.04	13.56	16.82	10.72	PASS
N48	30	20	CP-256QAM	H	Outer_Full	13.91	13.84	16.89	10.79	PASS
N48	30	40	CP-QPSK	L	Inner_1RB_Left	19.48	18.99	22.25	16.15	PASS
N48	30	40	CP-QPSK	L	Inner_1RB_Right	19.08	19.11	22.11	16.01	PASS
N48	30	40	CP-QPSK	L	Outer_Full	17.74	17.51	20.64	14.54	PASS
N48	30	40	CP-16QAM	L	Inner_1RB_Left	19.01	18.51	21.78	15.68	PASS
N48	30	40	CP-16QAM	L	Inner_1RB_Right	18.56	18.51	21.55	15.45	PASS
N48	30	40	CP-16QAM	L	Outer_Full	17.69	17.54	20.63	14.53	PASS
N48	30	40	CP-64QAM	L	Inner_1RB_Left	17.59	16.89	20.26	14.16	PASS
N48	30	40	CP-64QAM	L	Inner_1RB_Right	17.09	17.06	20.09	13.99	PASS
N48	30	40	CP-64QAM	L	Outer_Full	17.24	17.00	20.13	14.03	PASS
N48	30	40	CP-256QAM	L	Inner_1RB_Left	14.58	13.77	17.20	11.10	PASS
N48	30	40	CP-256QAM	L	Inner_1RB_Right	14.25	13.96	17.12	11.02	PASS
N48	30	40	CP-256QAM	L	Outer_Full	14.15	14.05	17.11	11.01	PASS
N48	30	40	CP-QPSK	M	Inner_1RB_Left	19.32	19.03	22.19	16.09	PASS
N48	30	40	CP-QPSK	M	Inner_1RB_Right	19.40	18.21	21.86	15.76	PASS
N48	30	40	CP-QPSK	M	Outer_Full	17.66	17.33	20.51	14.41	PASS
N48	30	40	CP-16QAM	M	Inner_1RB_Left	18.82	18.50	21.67	15.57	PASS
N48	30	40	CP-16QAM	M	Inner_1RB_Right	18.87	17.68	21.33	15.23	PASS
N48	30	40	CP-16QAM	M	Outer_Full	17.64	17.29	20.48	14.38	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Inspection & Testing Services

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 herein 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.sgsgroup.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



Report No.: ZEWM2306000841RG02

Page: 12 of 12

N48	30	40	CP-64QAM	M	Inner_1RB_Left	17.37	16.91	20.16	14.06	PASS
N48	30	40	CP-64QAM	M	Inner_1RB_Right	17.35	16.21	19.83	13.73	PASS
N48	30	40	CP-64QAM	M	Outer_Full	17.16	16.79	19.99	13.89	PASS
N48	30	40	CP-256QAM	M	Inner_1RB_Left	14.40	13.87	17.15	11.05	PASS
N48	30	40	CP-256QAM	M	Inner_1RB_Right	14.47	13.17	16.88	10.78	PASS
N48	30	40	CP-256QAM	M	Outer_Full	14.24	13.85	17.06	10.96	PASS
N48	30	40	CP-QPSK	H	Inner_1RB_Left	19.32	18.94	22.14	16.04	PASS
N48	30	40	CP-QPSK	H	Inner_1RB_Right	19.09	18.56	21.84	15.74	PASS
N48	30	40	CP-QPSK	H	Outer_Full	17.59	17.25	20.43	14.33	PASS
N48	30	40	CP-16QAM	H	Inner_1RB_Left	18.63	18.33	21.49	15.39	PASS
N48	30	40	CP-16QAM	H	Inner_1RB_Right	18.51	18.11	21.32	15.22	PASS
N48	30	40	CP-16QAM	H	Outer_Full	17.56	17.20	20.39	14.29	PASS
N48	30	40	CP-64QAM	H	Inner_1RB_Left	17.16	16.74	19.97	13.87	PASS
N48	30	40	CP-64QAM	H	Inner_1RB_Right	17.17	16.63	19.92	13.82	PASS
N48	30	40	CP-64QAM	H	Outer_Full	17.07	16.70	19.90	13.80	PASS
N48	30	40	CP-256QAM	H	Inner_1RB_Left	14.25	13.89	17.08	10.98	PASS
N48	30	40	CP-256QAM	H	Inner_1RB_Right	14.20	13.65	16.94	10.84	PASS
N48	30	40	CP-256QAM	H	Outer_Full	14.01	13.77	16.90	10.80	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