

Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	LIMIT	Verdict
N48	30	10	DFT-PI2BPSK	L	Inner_1RB_Left	20.58	20.00	23	PASS
N48	30	10	DFT-PI2BPSK	L	Inner_1RB_Right	20.48	19.90	23	PASS
N48	30	10	DFT-PI2BPSK	L	Outer_Full	20.02	19.44	23	PASS
N48	30	10	DFT-QPSK	L	Inner_1RB_Left	20.52	19.94	23	PASS
N48	30	10	DFT-QPSK	L	Inner_1RB_Right	20.57	19.99	23	PASS
N48	30	10	DFT-QPSK	L	Outer_Full	19.91	19.33	23	PASS
N48	30	10	DFT-16QAM	L	Inner_1RB_Left	19.91	19.33	23	PASS
N48	30	10	DFT-16QAM	L	Inner_1RB_Right	20.02	19.44	23	PASS
N48	30	10	DFT-16QAM	L	Outer_Full	18.93	18.35	23	PASS
N48	30	10	DFT-64QAM	L	Inner_1RB_Left	19.00	18.42	23	PASS
N48	30	10	DFT-64QAM	L	Inner_1RB_Right	18.82	18.24	23	PASS
N48	30	10	DFT-64QAM	L	Outer_Full	17.87	17.29	23	PASS
N48	30	10	DFT-256QAM	L	Inner_1RB_Left	15.88	15.30	23	PASS
N48	30	10	DFT-256QAM	L	Inner_1RB_Right	15.88	15.30	23	PASS
N48	30	10	DFT-256QAM	L	Outer_Full	16.03	15.45	23	PASS
N48	30	10	DFT-PI2BPSK	M	Inner_1RB_Left	20.30	19.72	23	PASS
N48	30	10	DFT-PI2BPSK	M	Inner_1RB_Right	20.13	19.55	23	PASS
N48	30	10	DFT-PI2BPSK	M	Outer_Full	19.76	19.18	23	PASS
N48	30	10	DFT-QPSK	M	Inner_1RB_Left	20.31	19.73	23	PASS
N48	30	10	DFT-QPSK	M	Inner_1RB_Right	20.18	19.60	23	PASS
N48	30	10	DFT-QPSK	M	Outer_Full	19.27	18.69	23	PASS
N48	30	10	DFT-16QAM	M	Inner_1RB_Left	19.44	18.86	23	PASS
N48	30	10	DFT-16QAM	M	Inner_1RB_Right	19.35	18.77	23	PASS
N48	30	10	DFT-16QAM	M	Outer_Full	18.26	17.68	23	PASS
N48	30	10	DFT-64QAM	M	Inner_1RB_Left	17.79	17.21	23	PASS
N48	30	10	DFT-64QAM	M	Inner_1RB_Right	17.67	17.09	23	PASS
N48	30	10	DFT-64QAM	M	Outer_Full	17.76	17.18	23	PASS
N48	30	10	DFT-256QAM	M	Inner_1RB_Left	15.56	14.98	23	PASS
N48	30	10	DFT-256QAM	M	Inner_1RB_Right	15.48	14.90	23	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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

N48	30	10	DFT-256QAM	M	Outer_Full	15.66	15.08	23	PASS
N48	30	10	DFT-PI2BPSK	H	Inner_1RB_Left	20.11	19.53	23	PASS
N48	30	10	DFT-PI2BPSK	H	Inner_1RB_Right	20.12	19.54	23	PASS
N48	30	10	DFT-PI2BPSK	H	Outer_Full	19.62	19.04	23	PASS
N48	30	10	DFT-QPSK	H	Inner_1RB_Left	20.07	19.49	23	PASS
N48	30	10	DFT-QPSK	H	Inner_1RB_Right	20.03	19.45	23	PASS
N48	30	10	DFT-QPSK	H	Outer_Full	19.02	18.44	23	PASS
N48	30	10	DFT-16QAM	H	Inner_1RB_Left	18.82	18.24	23	PASS
N48	30	10	DFT-16QAM	H	Inner_1RB_Right	19.00	18.42	23	PASS
N48	30	10	DFT-16QAM	H	Outer_Full	18.89	18.31	23	PASS
N48	30	10	DFT-64QAM	H	Inner_1RB_Left	17.87	17.29	23	PASS
N48	30	10	DFT-64QAM	H	Inner_1RB_Right	17.67	17.09	23	PASS
N48	30	10	DFT-64QAM	H	Outer_Full	17.57	16.99	23	PASS
N48	30	10	DFT-256QAM	H	Inner_1RB_Left	15.38	14.80	23	PASS
N48	30	10	DFT-256QAM	H	Inner_1RB_Right	15.31	14.73	23	PASS
N48	30	10	DFT-256QAM	H	Outer_Full	15.51	14.93	23	PASS
N48	30	20	DFT-PI2BPSK	L	Inner_1RB_Left	20.76	20.18	23	PASS
N48	30	20	DFT-PI2BPSK	L	Inner_1RB_Right	20.75	20.17	23	PASS
N48	30	20	DFT-PI2BPSK	L	Outer_Full	20.32	19.74	23	PASS
N48	30	20	DFT-QPSK	L	Inner_1RB_Left	20.82	20.24	23	PASS
N48	30	20	DFT-QPSK	L	Inner_1RB_Right	20.73	20.15	23	PASS
N48	30	20	DFT-QPSK	L	Outer_Full	19.69	19.11	23	PASS
N48	30	20	DFT-16QAM	L	Inner_1RB_Left	19.91	19.33	23	PASS
N48	30	20	DFT-16QAM	L	Inner_1RB_Right	19.86	19.28	23	PASS
N48	30	20	DFT-16QAM	L	Outer_Full	18.81	18.23	23	PASS
N48	30	20	DFT-64QAM	L	Inner_1RB_Left	18.18	17.60	23	PASS
N48	30	20	DFT-64QAM	L	Inner_1RB_Right	18.18	17.60	23	PASS
N48	30	20	DFT-64QAM	L	Outer_Full	18.24	17.66	23	PASS
N48	30	20	DFT-256QAM	L	Inner_1RB_Left	16.01	15.43	23	PASS
N48	30	20	DFT-256QAM	L	Inner_1RB_Right	16.01	15.43	23	PASS
N48	30	20	DFT-256QAM	L	Outer_Full	16.08	15.50	23	PASS
N48	30	20	DFT-PI2BPSK	M	Inner_1RB_Left	20.53	19.95	23	PASS
N48	30	20	DFT-PI2BPSK	M	Inner_1RB_Right	20.25	19.67	23	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	19.85	19.27	23	PASS
N48	30	20	DFT-QPSK	M	Inner_1RB_Left	20.53	19.95	23	PASS
N48	30	20	DFT-QPSK	M	Inner_1RB_Right	20.25	19.67	23	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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

N48	30	20	DFT-QPSK	M	Outer_Full	19.33	18.75	23	PASS
N48	30	20	DFT-16QAM	M	Inner_1RB_Left	19.70	19.12	23	PASS
N48	30	20	DFT-16QAM	M	Inner_1RB_Right	19.38	18.80	23	PASS
N48	30	20	DFT-16QAM	M	Outer_Full	18.33	17.75	23	PASS
N48	30	20	DFT-64QAM	M	Inner_1RB_Left	17.94	17.36	23	PASS
N48	30	20	DFT-64QAM	M	Inner_1RB_Right	17.66	17.08	23	PASS
N48	30	20	DFT-64QAM	M	Outer_Full	17.87	17.29	23	PASS
N48	30	20	DFT-256QAM	M	Inner_1RB_Left	15.79	15.21	23	PASS
N48	30	20	DFT-256QAM	M	Inner_1RB_Right	15.51	14.93	23	PASS
N48	30	20	DFT-256QAM	M	Outer_Full	15.74	15.16	23	PASS
N48	30	20	DFT-PI2BPSK	H	Inner_1RB_Left	20.66	20.08	23	PASS
N48	30	20	DFT-PI2BPSK	H	Inner_1RB_Right	21.36	20.78	23	PASS
N48	30	20	DFT-PI2BPSK	H	Outer_Full	20.72	20.14	23	PASS
N48	30	20	DFT-QPSK	H	Inner_1RB_Left	21.33	20.75	23	PASS
N48	30	20	DFT-QPSK	H	Inner_1RB_Right	21.35	20.77	23	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	20.32	19.74	23	PASS
N48	30	20	DFT-16QAM	H	Inner_1RB_Left	20.38	19.80	23	PASS
N48	30	20	DFT-16QAM	H	Inner_1RB_Right	20.35	19.77	23	PASS
N48	30	20	DFT-16QAM	H	Outer_Full	19.31	18.73	23	PASS
N48	30	20	DFT-64QAM	H	Inner_1RB_Left	18.76	18.18	23	PASS
N48	30	20	DFT-64QAM	H	Inner_1RB_Right	18.68	18.10	23	PASS
N48	30	20	DFT-64QAM	H	Outer_Full	18.77	18.19	23	PASS
N48	30	20	DFT-256QAM	H	Inner_1RB_Left	15.37	14.79	23	PASS
N48	30	20	DFT-256QAM	H	Inner_1RB_Right	15.63	15.05	23	PASS
N48	30	20	DFT-256QAM	H	Outer_Full	15.45	14.87	23	PASS
N48	30	30	DFT-PI2BPSK	L	Inner_1RB_Left	20.16	19.58	23	PASS
N48	30	30	DFT-PI2BPSK	L	Inner_1RB_Right	19.85	19.27	23	PASS
N48	30	30	DFT-PI2BPSK	L	Outer_Full	19.48	18.90	23	PASS
N48	30	30	DFT-QPSK	L	Inner_1RB_Left	20.1	19.52	23	PASS
N48	30	30	DFT-QPSK	L	Inner_1RB_Right	19.76	19.18	23	PASS
N48	30	30	DFT-QPSK	L	Outer_Full	18.95	18.37	23	PASS
N48	30	30	DFT-16QAM	L	Inner_1RB_Left	19.26	18.68	23	PASS
N48	30	30	DFT-16QAM	L	Inner_1RB_Right	18.93	18.35	23	PASS
N48	30	30	DFT-16QAM	L	Outer_Full	17.91	17.33	23	PASS
N48	30	30	DFT-64QAM	L	Inner_1RB_Left	17.65	17.07	23	PASS
N48	30	30	DFT-64QAM	L	Inner_1RB_Right	17.27	16.69	23	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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

N48	30	30	DFT-64QAM	L	Outer_Full	17.49	16.91	23	PASS
N48	30	30	DFT-256QAM	L	Inner_1RB_Left	15.48	14.90	23	PASS
N48	30	30	DFT-256QAM	L	Inner_1RB_Right	15.12	14.54	23	PASS
N48	30	30	DFT-256QAM	L	Outer_Full	15.42	14.84	23	PASS
N48	30	30	DFT-PI2BPSK	M	Inner_1RB_Left	19.89	19.31	23	PASS
N48	30	30	DFT-PI2BPSK	M	Inner_1RB_Right	19.54	18.96	23	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	19.19	18.61	23	PASS
N48	30	30	DFT-QPSK	M	Inner_1RB_Left	19.87	19.29	23	PASS
N48	30	30	DFT-QPSK	M	Inner_1RB_Right	19.54	18.96	23	PASS
N48	30	30	DFT-QPSK	M	Outer_Full	18.65	18.07	23	PASS
N48	30	30	DFT-16QAM	M	Inner_1RB_Left	18.96	18.38	23	PASS
N48	30	30	DFT-16QAM	M	Inner_1RB_Right	18.6	18.02	23	PASS
N48	30	30	DFT-16QAM	M	Outer_Full	17.68	17.10	23	PASS
N48	30	30	DFT-64QAM	M	Inner_1RB_Left	17.44	16.86	23	PASS
N48	30	30	DFT-64QAM	M	Inner_1RB_Right	16.96	16.38	23	PASS
N48	30	30	DFT-64QAM	M	Outer_Full	17.21	16.63	23	PASS
N48	30	30	DFT-256QAM	M	Inner_1RB_Left	15.2	14.62	23	PASS
N48	30	30	DFT-256QAM	M	Inner_1RB_Right	14.89	14.31	23	PASS
N48	30	30	DFT-256QAM	M	Outer_Full	15.15	14.57	23	PASS
N48	30	30	DFT-PI2BPSK	H	Inner_1RB_Left	19.33	18.75	23	PASS
N48	30	30	DFT-PI2BPSK	H	Inner_1RB_Right	18.99	18.41	23	PASS
N48	30	30	DFT-PI2BPSK	H	Outer_Full	18.58	18.00	23	PASS
N48	30	30	DFT-QPSK	H	Inner_1RB_Left	19.34	18.76	23	PASS
N48	30	30	DFT-QPSK	H	Inner_1RB_Right	18.97	18.39	23	PASS
N48	30	30	DFT-QPSK	H	Outer_Full	18.1	17.52	23	PASS
N48	30	30	DFT-16QAM	H	Inner_1RB_Left	18.43	17.85	23	PASS
N48	30	30	DFT-16QAM	H	Inner_1RB_Right	18.04	17.46	23	PASS
N48	30	30	DFT-16QAM	H	Outer_Full	17.05	16.47	23	PASS
N48	30	30	DFT-64QAM	H	Inner_1RB_Left	16.8	16.22	23	PASS
N48	30	30	DFT-64QAM	H	Inner_1RB_Right	16.46	15.88	23	PASS
N48	30	30	DFT-64QAM	H	Outer_Full	16.62	16.04	23	PASS
N48	30	30	DFT-256QAM	H	Inner_1RB_Left	14.68	14.10	23	PASS
N48	30	30	DFT-256QAM	H	Inner_1RB_Right	14.34	13.76	23	PASS
N48	30	30	DFT-256QAM	H	Outer_Full	14.53	13.95	23	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Left	21.30	20.72	23	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	20.44	19.86	23	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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

N48	30	40	DFT-PI2BPSK	L	Outer_Full	20.10	19.52	23	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Left	20.64	20.06	23	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Right	20.39	19.81	23	PASS
N48	30	40	DFT-QPSK	L	Outer_Full	19.47	18.89	23	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Left	19.82	19.24	23	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Right	19.56	18.98	23	PASS
N48	30	40	DFT-16QAM	L	Outer_Full	18.42	17.84	23	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Left	18.15	17.57	23	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Right	17.84	17.26	23	PASS
N48	30	40	DFT-64QAM	L	Outer_Full	17.92	17.34	23	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Left	15.89	15.31	23	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Right	15.67	15.09	23	PASS
N48	30	40	DFT-256QAM	L	Outer_Full	15.92	15.34	23	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Left	20.46	19.88	23	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Right	20.19	19.61	23	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	19.83	19.25	23	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Left	20.41	19.83	23	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Right	20.12	19.54	23	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	20.02	19.44	23	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Left	18.69	18.11	23	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Right	18.89	18.31	23	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	17.87	17.29	23	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Left	17.67	17.09	23	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Right	17.60	17.02	23	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	17.46	16.88	23	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Left	15.81	15.23	23	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Right	15.47	14.89	23	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	15.69	15.11	23	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Left	20.29	19.71	23	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Right	20.19	19.61	23	PASS
N48	30	40	DFT-PI2BPSK	H	Outer_Full	19.65	19.07	23	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Left	20.27	19.69	23	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Right	20.21	19.63	23	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	19.17	18.59	23	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Left	19.41	18.83	23	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Right	19.36	18.78	23	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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

N48	30	40	DFT-16QAM	H	Outer_Full	18.16	17.58	23	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Left	17.82	17.24	23	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Right	17.61	17.03	23	PASS
N48	30	40	DFT-64QAM	H	Outer_Full	17.63	17.05	23	PASS
N48	30	40	DFT-256QAM	H	Inner_1RB_Left	15.59	15.01	23	PASS
N48	30	40	DFT-256QAM	H	Inner_1RB_Right	15.47	14.89	23	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	15.60	15.02	23	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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn
 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Peak-to-Average Ratio for SA

Peak-to-Average Ratio(PAPR)

Test Result

Band	SCS	Bandwidth h	Modulation	Cha nnel	RB Config	DutyCy cle	Facto r	Resul t	Limit	Verdict
N48	30	40	DFT-256QAM	L	Outer_Full	100%	0.00	9.64	≤13	PASS
N48	30	40	CP-256QAM	L	Outer_Full	100%	0.00	10.5 5	≤13	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	100%	0.00	9.72	≤13	PASS
N48	30	40	CP-256QAM	M	Outer_Full	100%	0.00	9.79	≤13	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	100%	0.00	9.83	≤13	PASS
N48	30	40	CP-256QAM	H	Outer_Full	100%	0.00	10.0 3	≤13	PASS



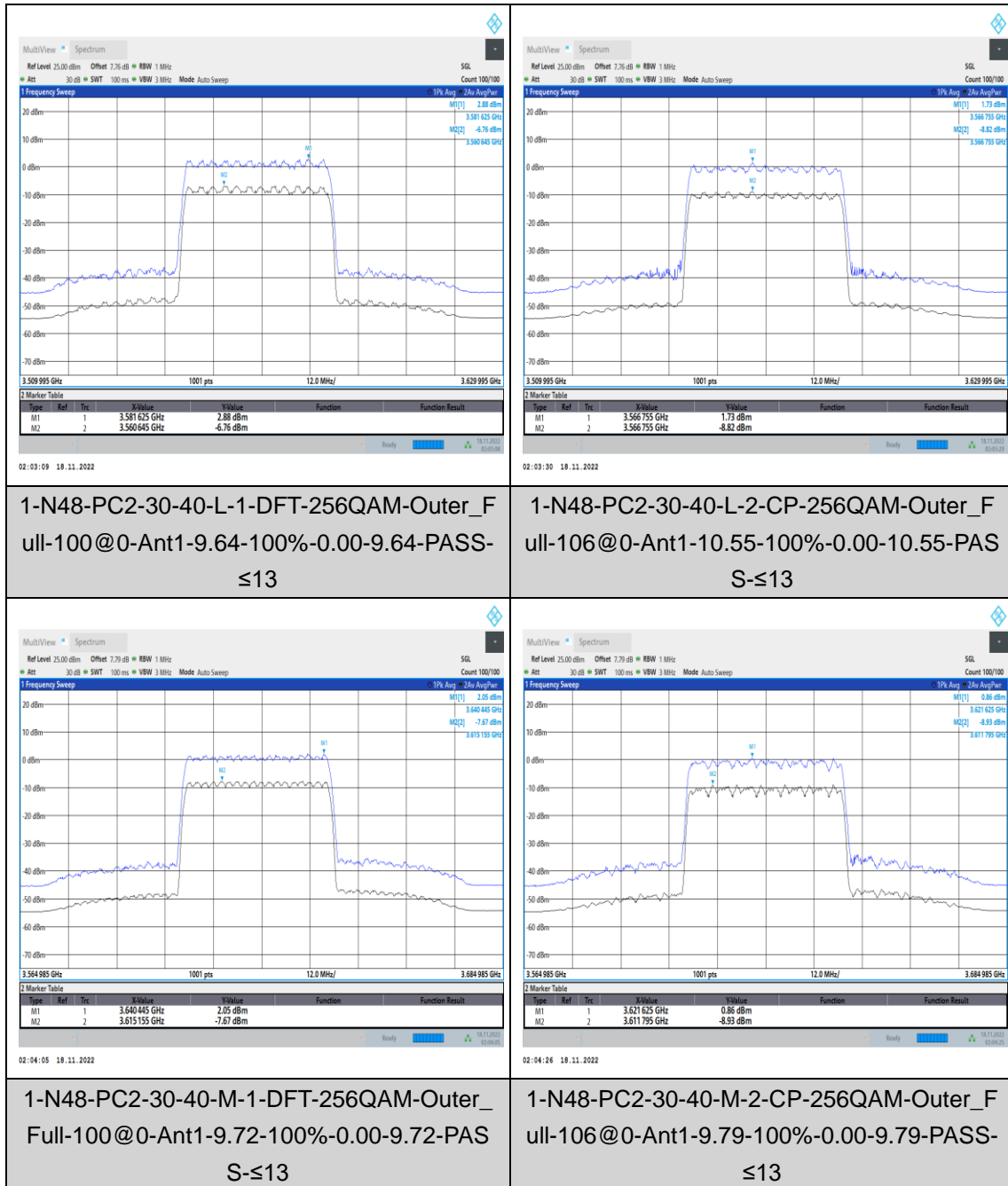
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn
t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Test Graphs

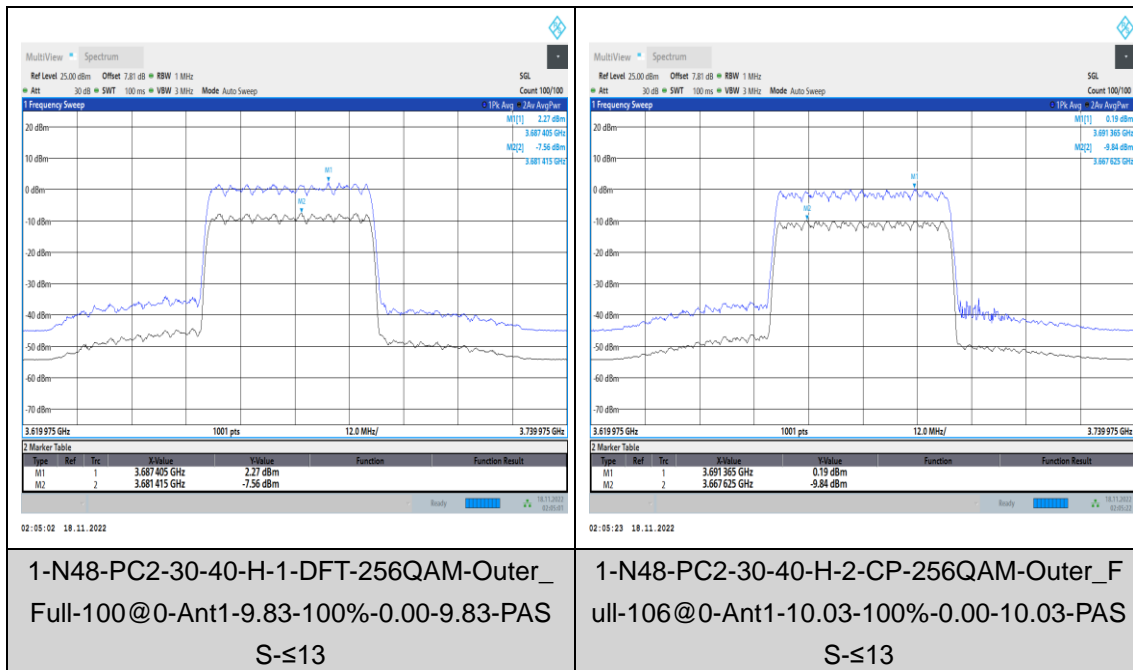


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com



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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N48	30	10	DFT-QPSK	L	Outer_Full	8.572	9.740	PASS
N48	30	10	DFT-PI2BPSK	L	Outer_Full	8.617	9.900	PASS
N48	30	10	DFT-16QAM	L	Outer_Full	8.607	9.820	PASS
N48	30	10	DFT-64QAM	L	Outer_Full	8.589	9.700	PASS
N48	30	10	DFT-256QAM	L	Outer_Full	8.578	9.680	PASS
N48	30	10	CP-QPSK	L	Outer_Full	8.592	9.940	PASS
N48	30	10	CP-16QAM	L	Outer_Full	8.613	9.960	PASS
N48	30	10	CP-64QAM	L	Outer_Full	8.601	9.820	PASS
N48	30	10	CP-256QAM	L	Outer_Full	8.572	9.700	PASS
N48	30	10	DFT-QPSK	M	Outer_Full	8.605	9.860	PASS
N48	30	10	DFT-PI2BPSK	M	Outer_Full	8.607	9.840	PASS
N48	30	10	DFT-16QAM	M	Outer_Full	8.603	9.720	PASS
N48	30	10	DFT-64QAM	M	Outer_Full	8.587	9.700	PASS
N48	30	10	DFT-256QAM	M	Outer_Full	8.578	9.520	PASS
N48	30	10	CP-QPSK	M	Outer_Full	8.595	9.900	PASS
N48	30	10	CP-16QAM	M	Outer_Full	8.602	10.020	PASS
N48	30	10	CP-64QAM	M	Outer_Full	8.599	9.840	PASS
N48	30	10	CP-256QAM	M	Outer_Full	8.565	9.600	PASS
N48	30	10	DFT-QPSK	H	Outer_Full	8.605	9.800	PASS
N48	30	10	DFT-PI2BPSK	H	Outer_Full	8.611	9.780	PASS
N48	30	10	DFT-16QAM	H	Outer_Full	8.596	9.620	PASS
N48	30	10	DFT-64QAM	H	Outer_Full	8.583	9.740	PASS
N48	30	10	DFT-256QAM	H	Outer_Full	8.585	9.700	PASS
N48	30	10	CP-QPSK	H	Outer_Full	8.601	10.120	PASS
N48	30	10	CP-16QAM	H	Outer_Full	8.601	9.860	PASS
N48	30	10	CP-64QAM	H	Outer_Full	8.598	9.840	PASS
N48	30	10	CP-256QAM	H	Outer_Full	8.57	9.580	PASS
N48	30	20	DFT-QPSK	L	Outer_Full	17.902	19.400	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
 No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 (86-512)57355888 (86-512)57370818 www.sgs.com
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

N48	30	20	DFT-PI2BPSK	L	Outer_Full	17.847	19.520	PASS
N48	30	20	DFT-16QAM	L	Outer_Full	17.958	19.640	PASS
N48	30	20	DFT-64QAM	L	Outer_Full	17.902	19.400	PASS
N48	30	20	DFT-256QAM	L	Outer_Full	17.84	19.400	PASS
N48	30	20	CP-QPSK	L	Outer_Full	18.21	19.760	PASS
N48	30	20	CP-16QAM	L	Outer_Full	18.254	19.960	PASS
N48	30	20	CP-64QAM	L	Outer_Full	18.166	19.800	PASS
N48	30	20	CP-256QAM	L	Outer_Full	18.19	19.680	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	17.848	19.240	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	17.836	19.480	PASS
N48	30	20	DFT-16QAM	M	Outer_Full	17.936	19.720	PASS
N48	30	20	DFT-64QAM	M	Outer_Full	17.886	19.480	PASS
N48	30	20	DFT-256QAM	M	Outer_Full	17.839	19.480	PASS
N48	30	20	CP-QPSK	M	Outer_Full	18.221	20.000	PASS
N48	30	20	CP-16QAM	M	Outer_Full	18.235	20.000	PASS
N48	30	20	CP-64QAM	M	Outer_Full	18.174	19.800	PASS
N48	30	20	CP-256QAM	M	Outer_Full	18.175	19.960	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	17.89	19.440	PASS
N48	30	20	DFT-PI2BPSK	H	Outer_Full	17.865	19.520	PASS
N48	30	20	DFT-16QAM	H	Outer_Full	17.906	19.240	PASS
N48	30	20	DFT-64QAM	H	Outer_Full	17.918	19.480	PASS
N48	30	20	DFT-256QAM	H	Outer_Full	17.854	19.360	PASS
N48	30	20	CP-QPSK	H	Outer_Full	18.222	20.040	PASS
N48	30	20	CP-16QAM	H	Outer_Full	18.262	19.960	PASS
N48	30	20	CP-64QAM	H	Outer_Full	18.183	19.880	PASS
N48	30	20	CP-256QAM	H	Outer_Full	18.203	19.960	PASS
N48	30	30	DFT-QPSK	L	Outer_Full	26.809	28.740	PASS
N48	30	30	DFT-PI2BPSK	L	Outer_Full	26.797	28.800	PASS
N48	30	30	DFT-16QAM	L	Outer_Full	26.869	28.680	PASS
N48	30	30	DFT-64QAM	L	Outer_Full	26.768	28.560	PASS
N48	30	30	DFT-256QAM	L	Outer_Full	26.857	28.680	PASS
N48	30	30	CP-QPSK	L	Outer_Full	27.851	29.700	PASS
N48	30	30	CP-16QAM	L	Outer_Full	27.874	29.640	PASS
N48	30	30	CP-64QAM	L	Outer_Full	27.813	29.760	PASS
N48	30	30	CP-256QAM	L	Outer_Full	27.838	29.700	PASS
N48	30	30	DFT-QPSK	M	Outer_Full	26.809	28.620	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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

N48	30	30	DFT-PI2BPSK	M	Outer_Full	26.736	28.620	PASS
N48	30	30	DFT-16QAM	M	Outer_Full	26.867	28.860	PASS
N48	30	30	DFT-64QAM	M	Outer_Full	26.796	28.680	PASS
N48	30	30	DFT-256QAM	M	Outer_Full	26.844	28.620	PASS
N48	30	30	CP-QPSK	M	Outer_Full	27.867	30.060	PASS
N48	30	30	CP-16QAM	M	Outer_Full	27.882	29.820	PASS
N48	30	30	CP-64QAM	M	Outer_Full	27.816	29.700	PASS
N48	30	30	CP-256QAM	M	Outer_Full	27.876	29.820	PASS
N48	30	30	DFT-QPSK	H	Outer_Full	26.786	28.680	PASS
N48	30	30	DFT-PI2BPSK	H	Outer_Full	26.783	28.740	PASS
N48	30	30	DFT-16QAM	H	Outer_Full	26.87	28.740	PASS
N48	30	30	DFT-64QAM	H	Outer_Full	26.808	28.740	PASS
N48	30	30	DFT-256QAM	H	Outer_Full	26.858	28.680	PASS
N48	30	30	CP-QPSK	H	Outer_Full	27.862	29.580	PASS
N48	30	30	CP-16QAM	H	Outer_Full	27.879	29.760	PASS
N48	30	30	CP-64QAM	H	Outer_Full	27.81	29.700	PASS
N48	30	30	CP-256QAM	H	Outer_Full	27.835	29.880	PASS
N48	30	40	DFT-QPSK	L	Outer_Full	35.75	38.160	PASS
N48	30	40	DFT-PI2BPSK	L	Outer_Full	35.753	38.000	PASS
N48	30	40	DFT-16QAM	L	Outer_Full	35.687	38.000	PASS
N48	30	40	DFT-64QAM	L	Outer_Full	35.745	38.000	PASS
N48	30	40	DFT-256QAM	L	Outer_Full	35.716	38.160	PASS
N48	30	40	CP-QPSK	L	Outer_Full	37.846	40.240	PASS
N48	30	40	CP-16QAM	L	Outer_Full	37.852	40.240	PASS
N48	30	40	CP-64QAM	L	Outer_Full	37.839	40.240	PASS
N48	30	40	CP-256QAM	L	Outer_Full	37.849	40.320	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	35.753	38.240	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	35.714	38.000	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	35.712	38.080	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	35.754	38.080	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	35.736	38.000	PASS
N48	30	40	CP-QPSK	M	Outer_Full	37.845	40.320	PASS
N48	30	40	CP-16QAM	M	Outer_Full	37.907	40.160	PASS
N48	30	40	CP-64QAM	M	Outer_Full	37.846	40.240	PASS
N48	30	40	CP-256QAM	M	Outer_Full	37.853	40.320	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	35.756	38.160	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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

N48	30	40	DFT-PI2BPSK	H	Outer_Full	35.704	38.080	PASS
N48	30	40	DFT-16QAM	H	Outer_Full	35.703	38.080	PASS
N48	30	40	DFT-64QAM	H	Outer_Full	35.774	38.160	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	35.737	38.000	PASS
N48	30	40	CP-QPSK	H	Outer_Full	37.858	40.240	PASS
N48	30	40	CP-16QAM	H	Outer_Full	37.922	40.160	PASS
N48	30	40	CP-64QAM	H	Outer_Full	37.842	40.240	PASS
N48	30	40	CP-256QAM	H	Outer_Full	37.86	40.240	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

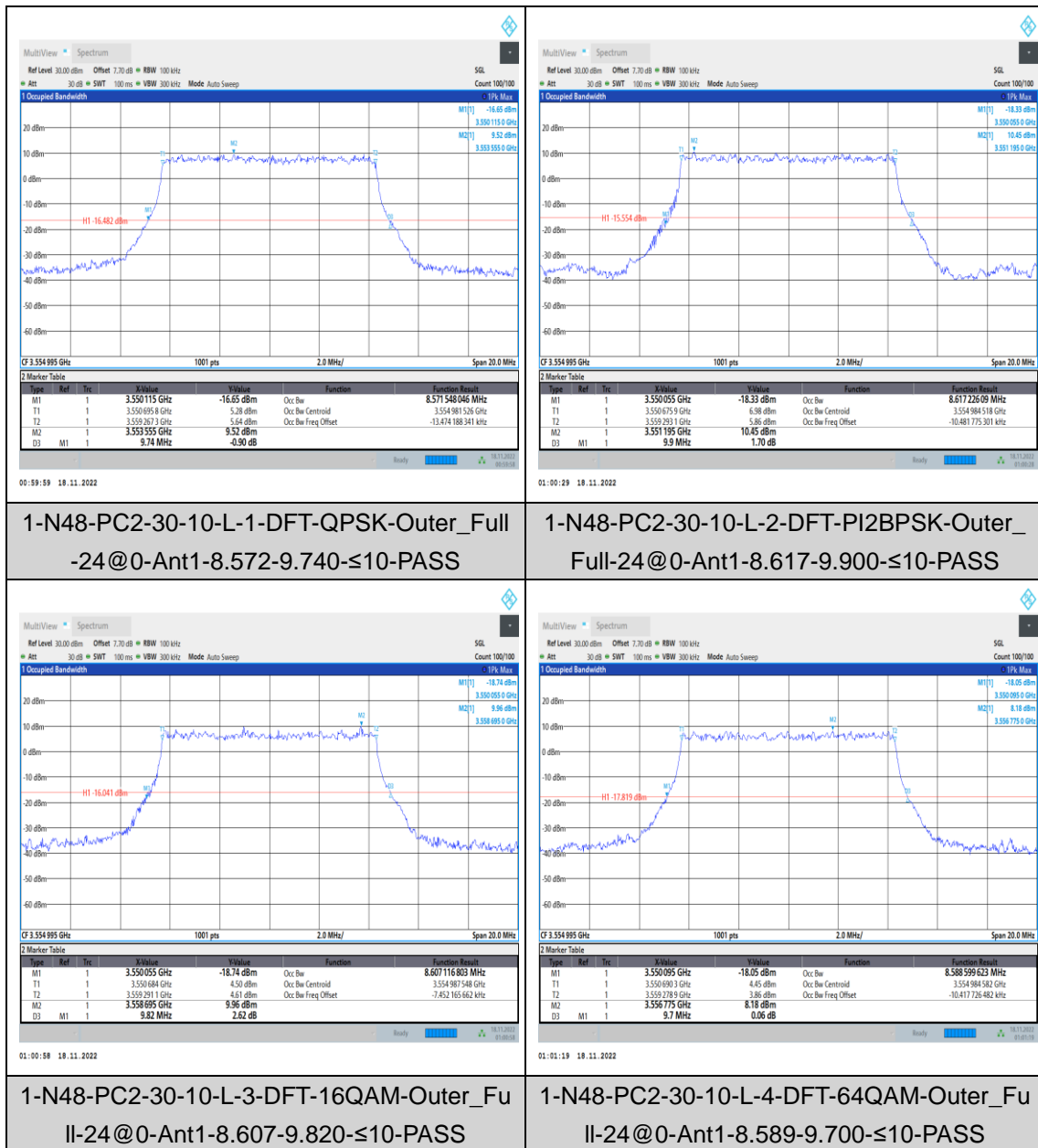
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Test Graphs

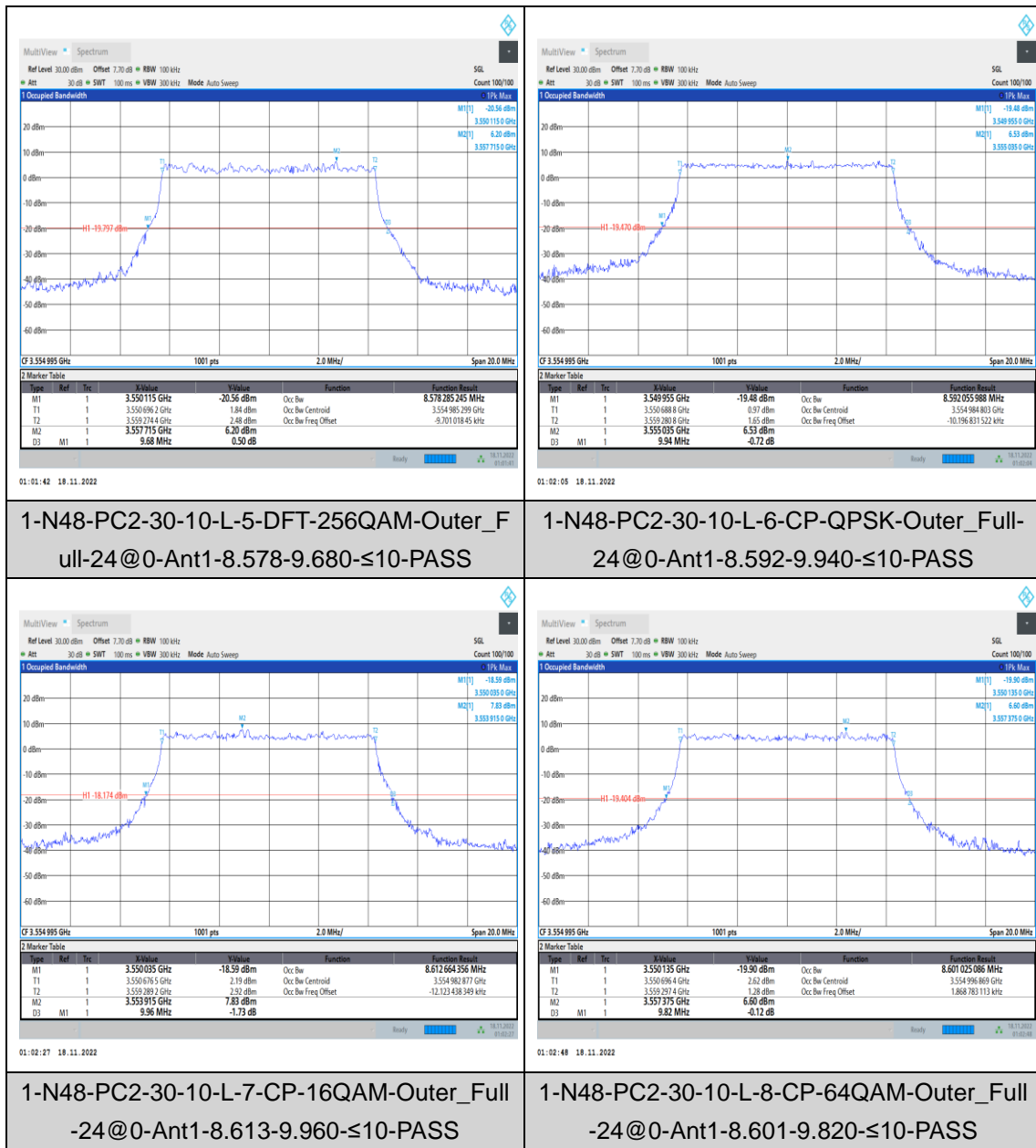


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

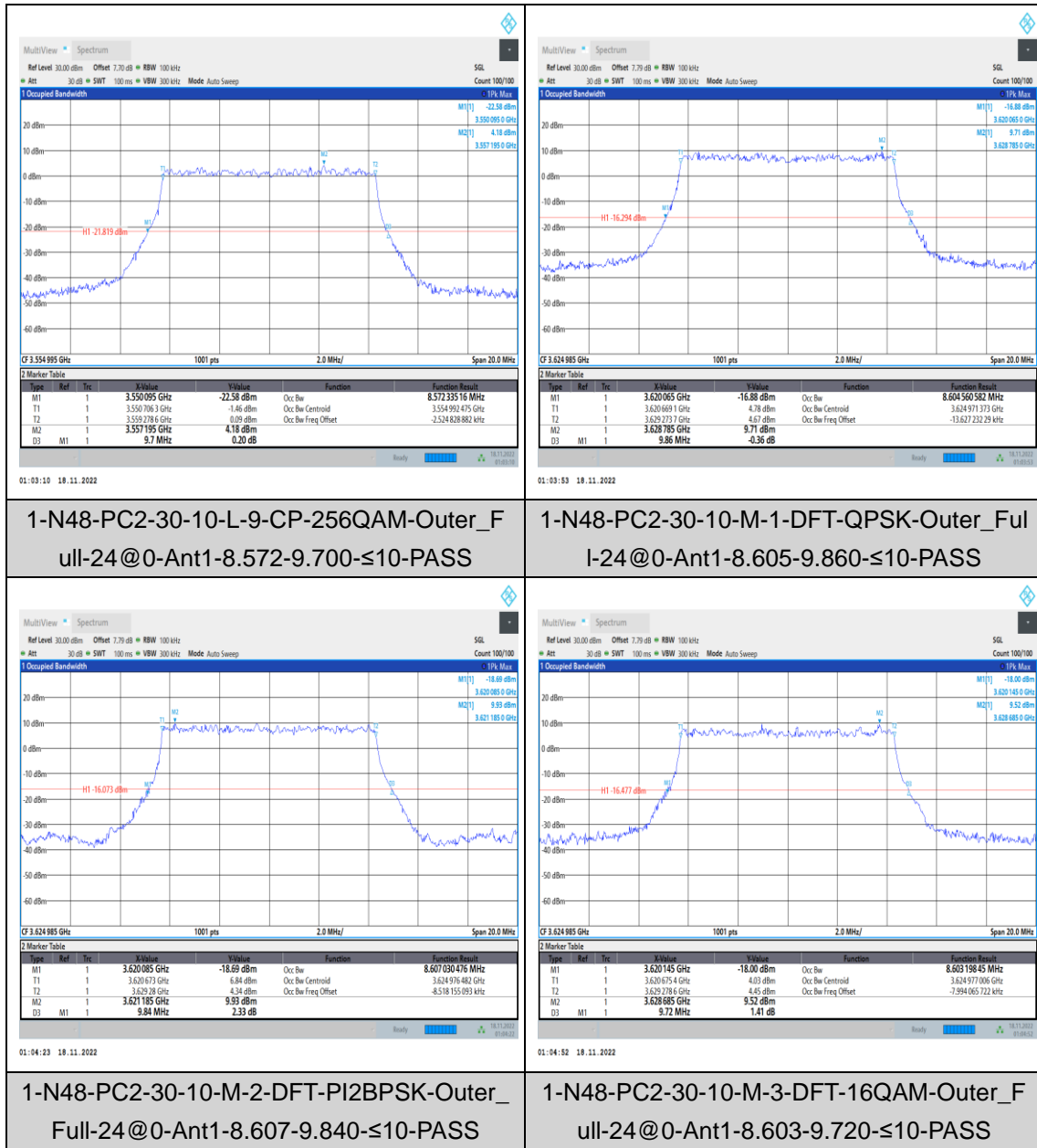


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

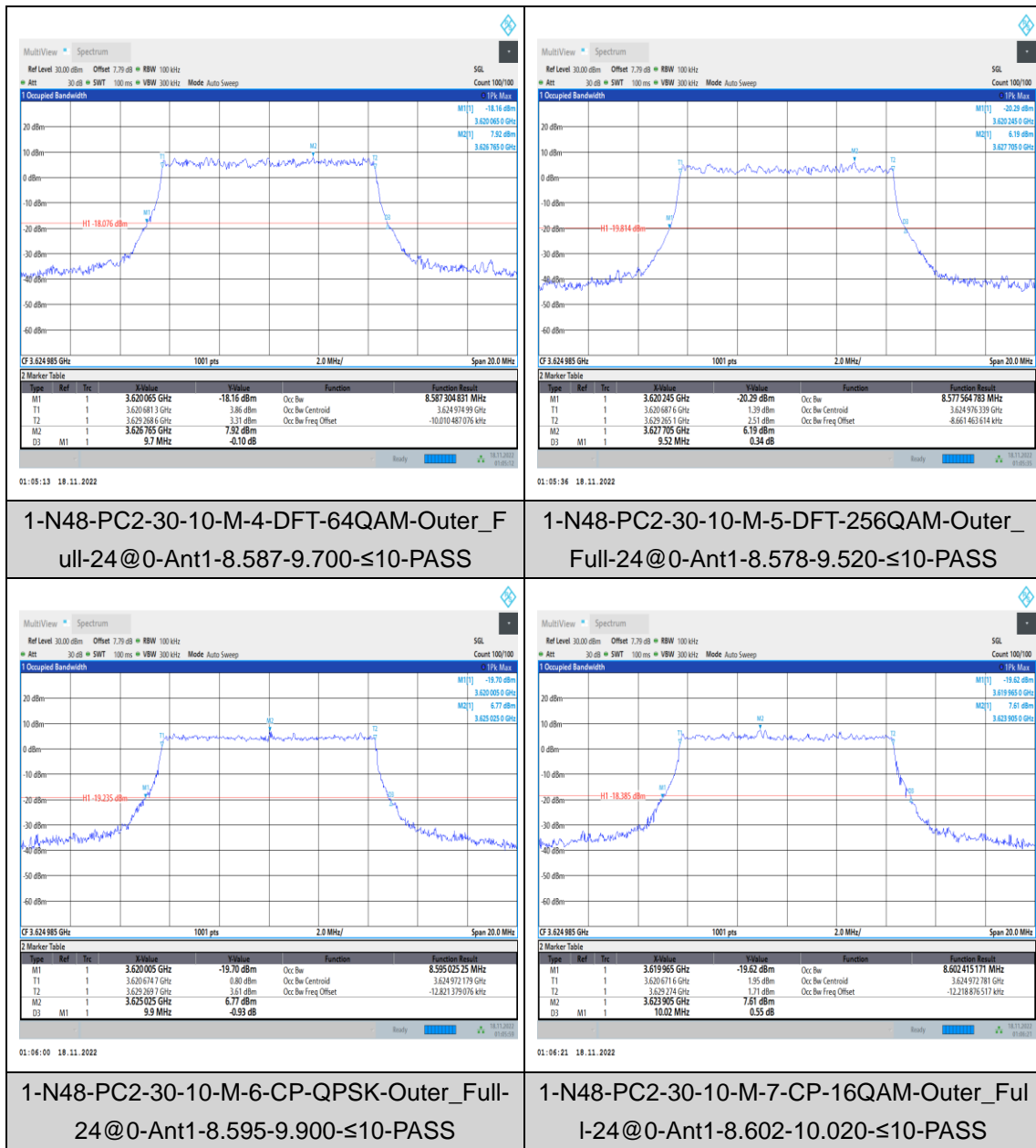


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

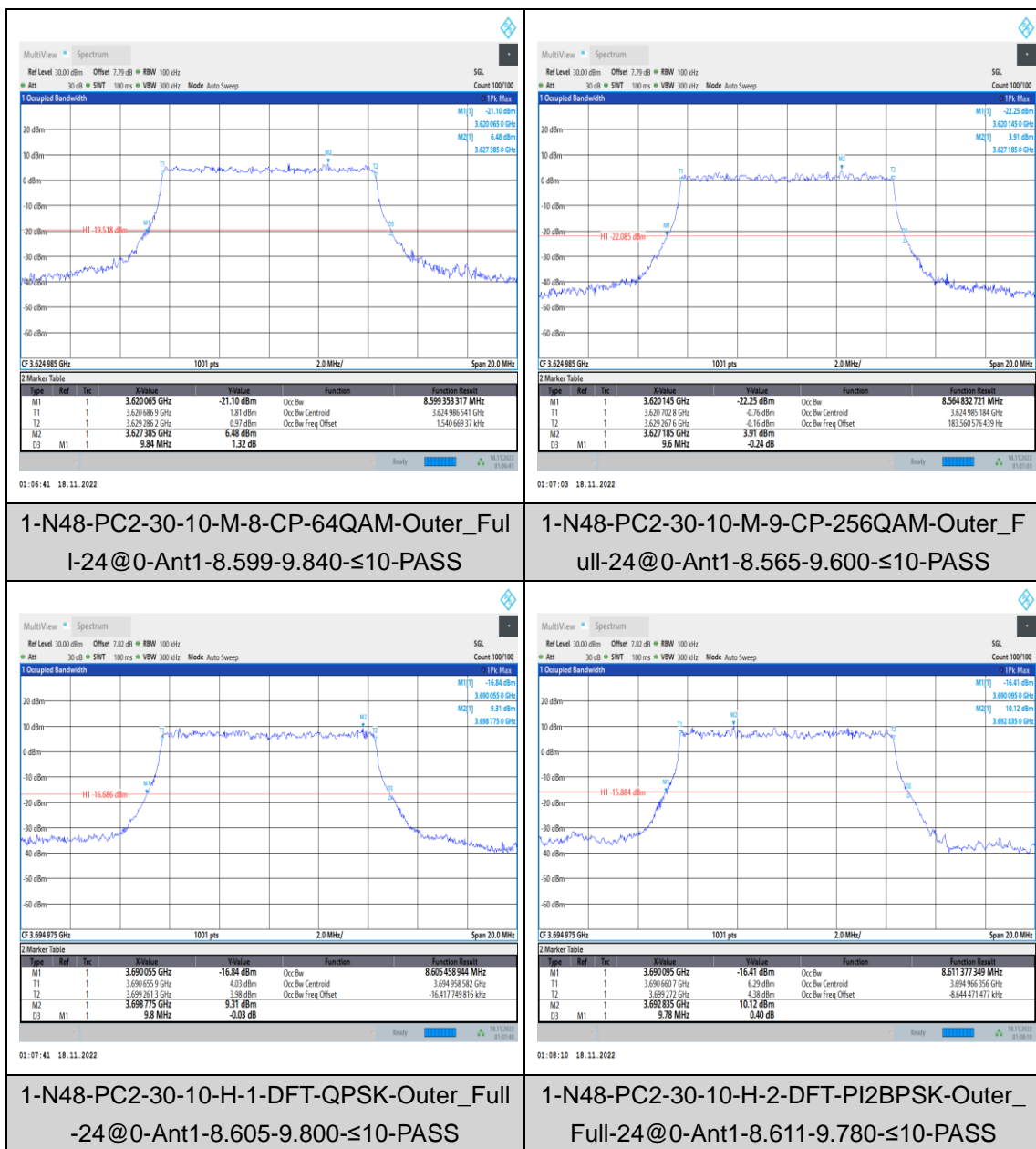


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

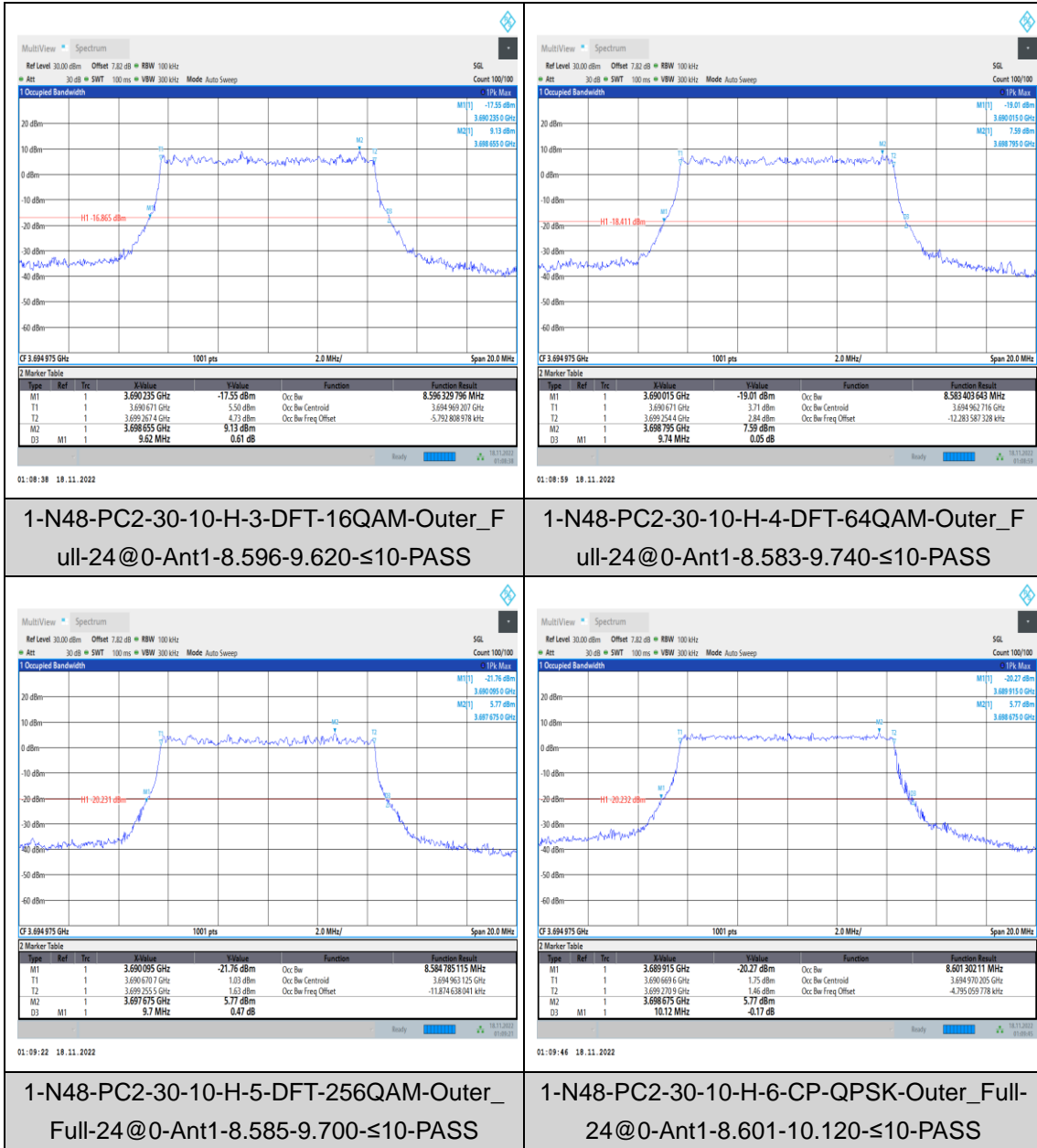


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

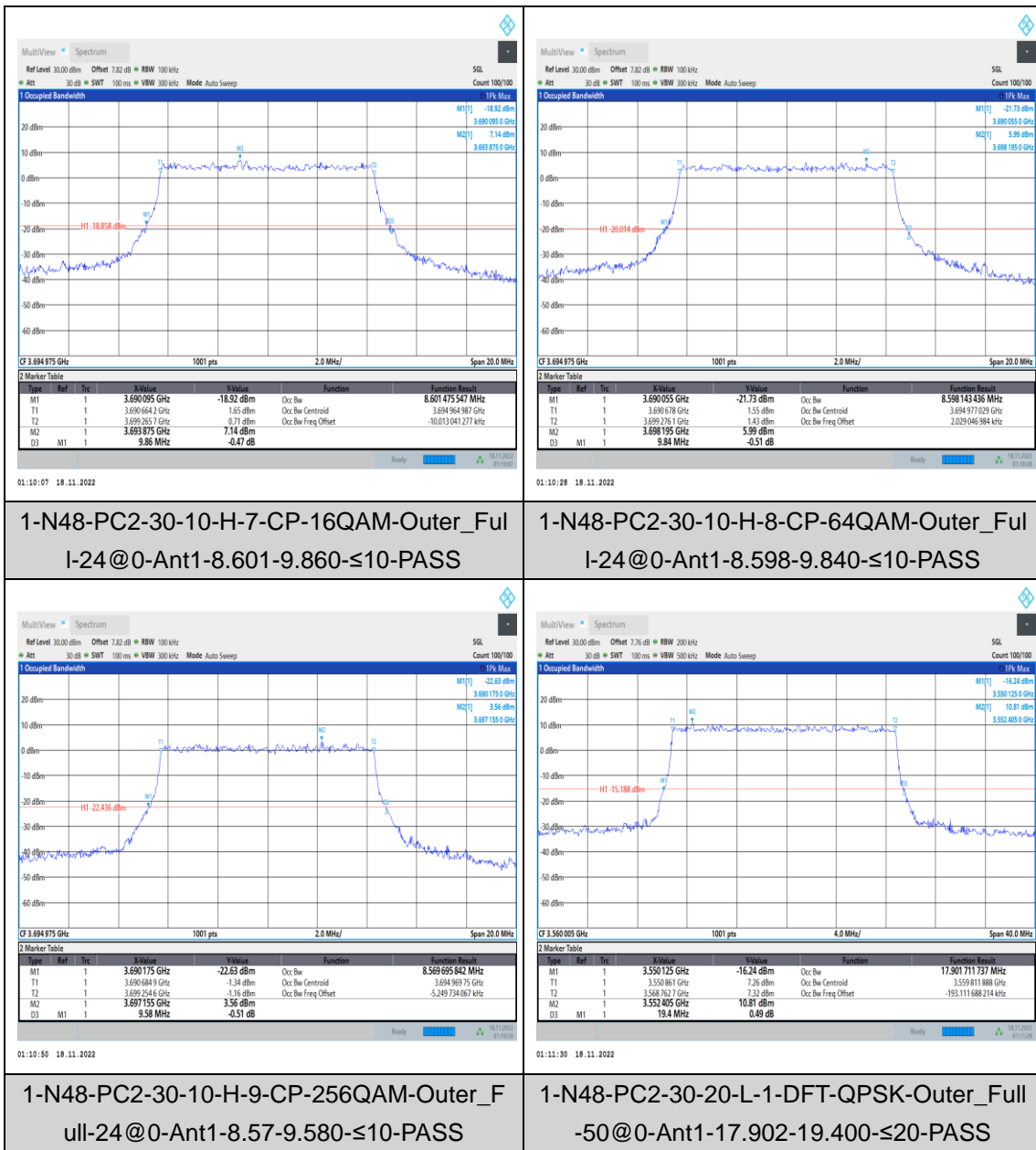


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

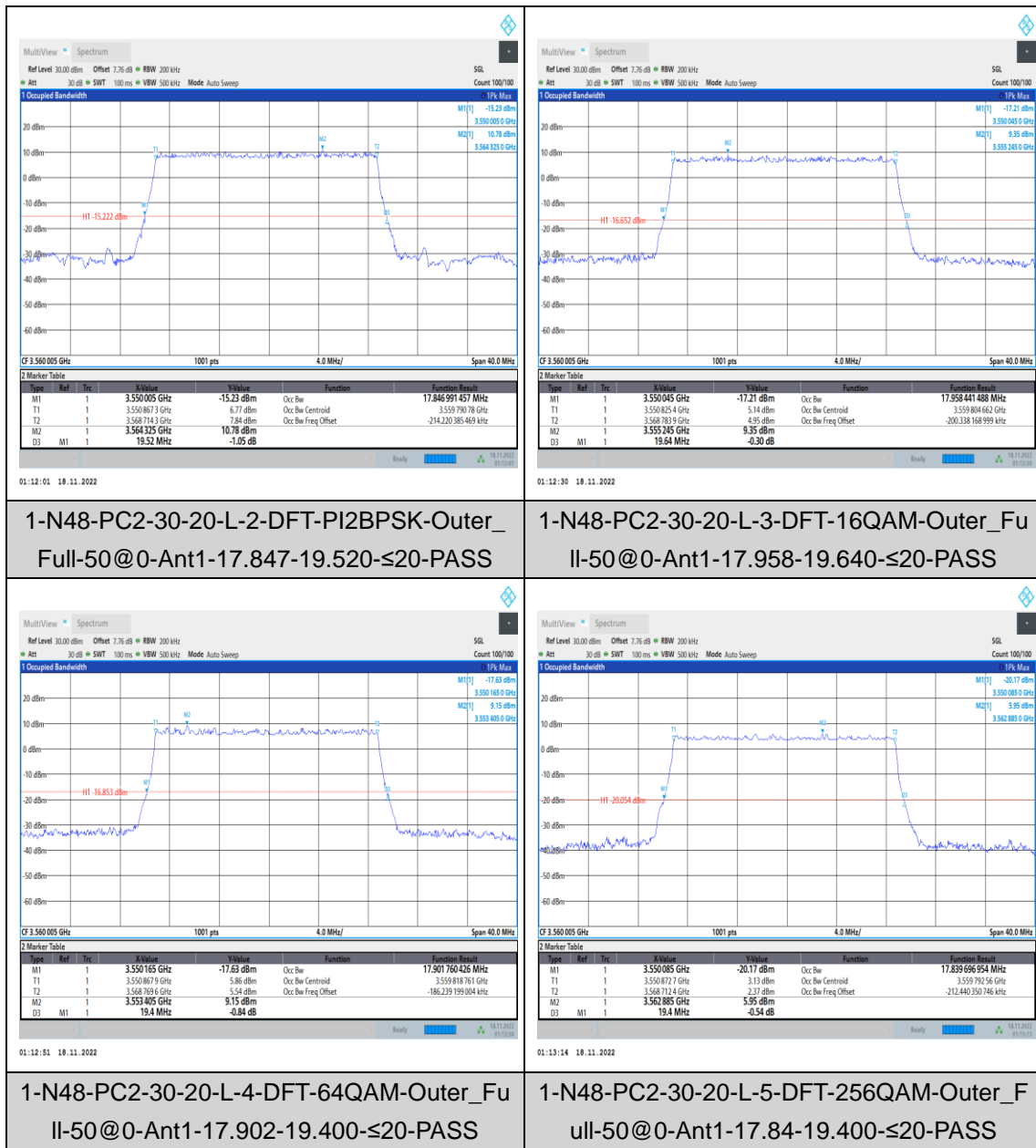


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

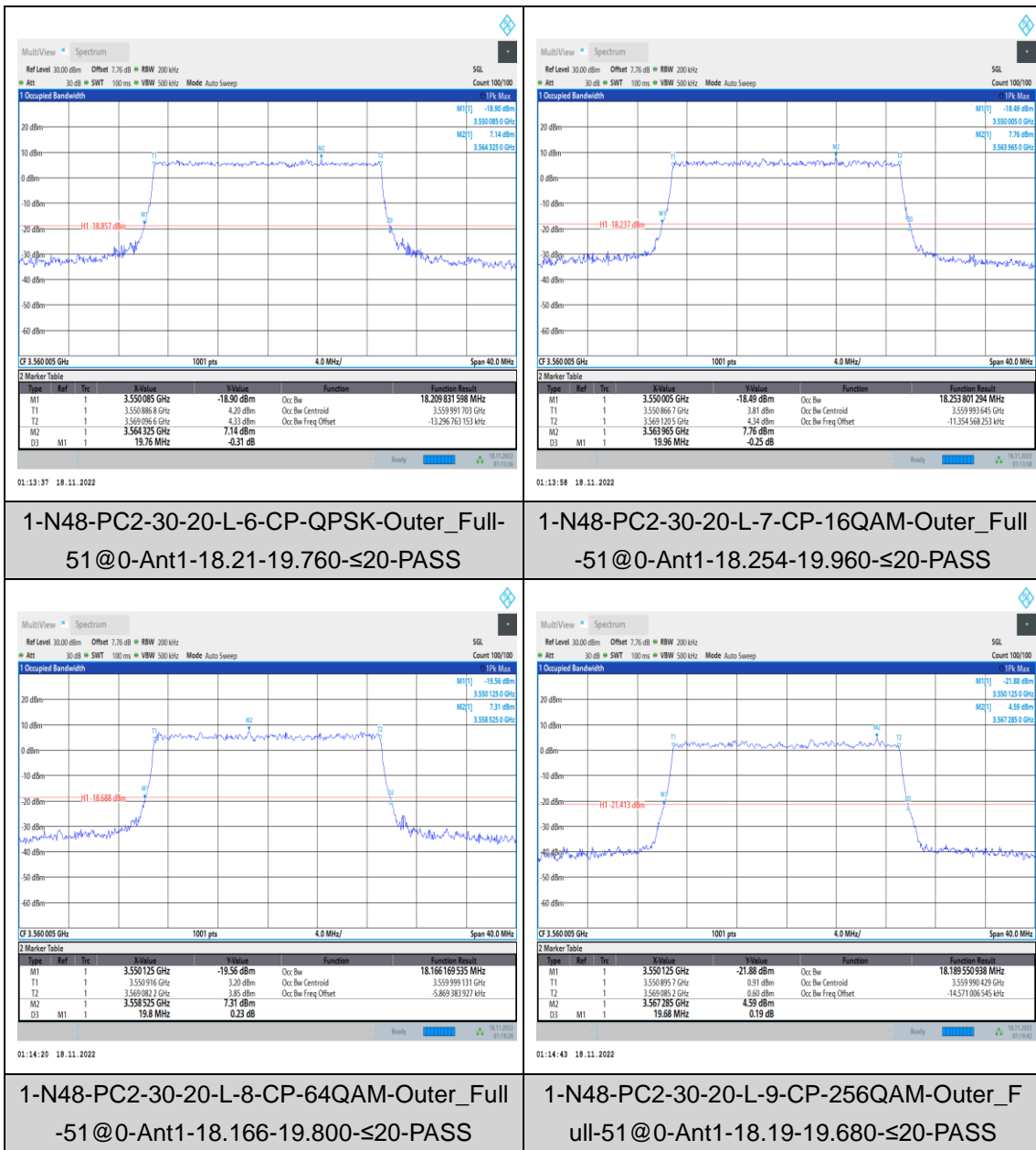


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

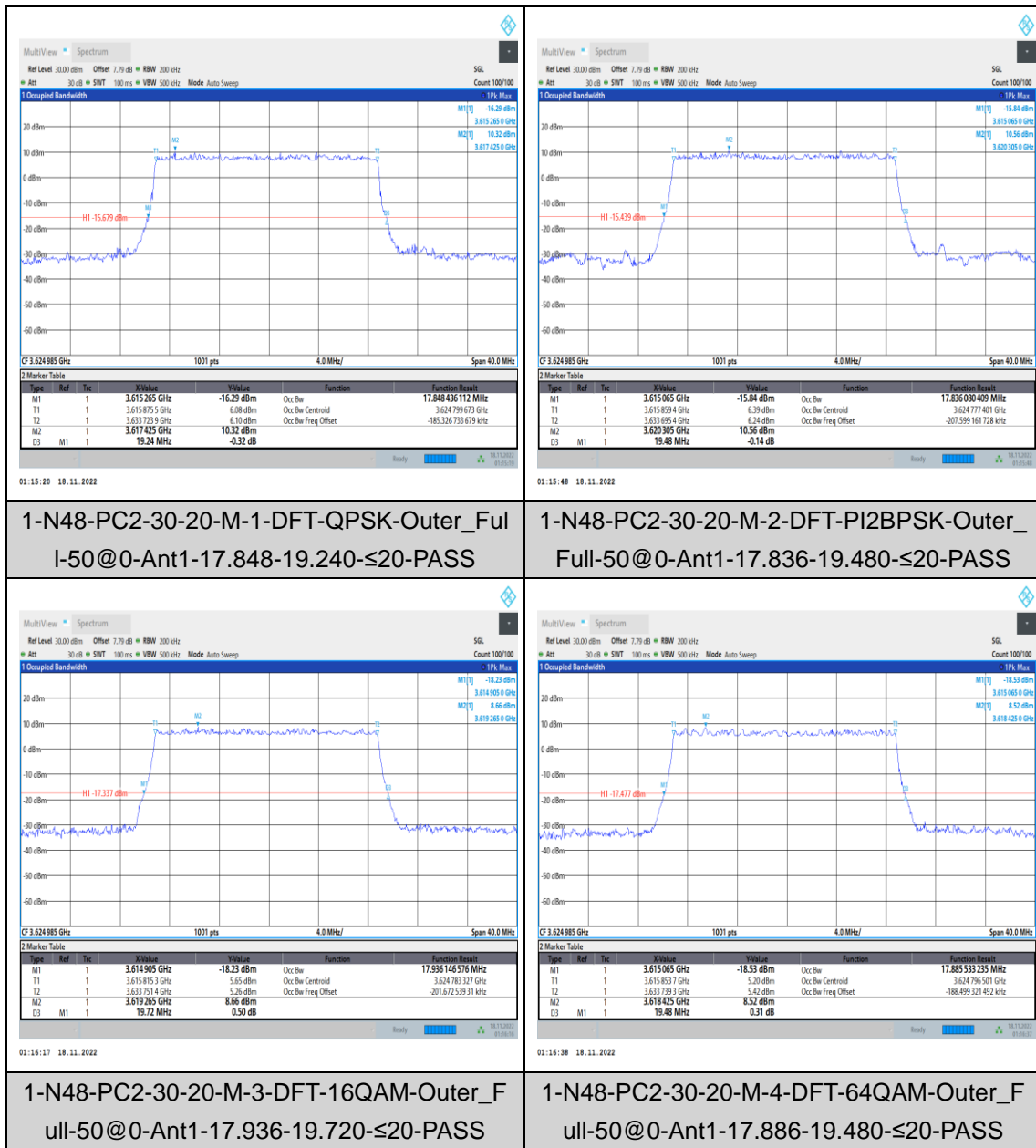


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

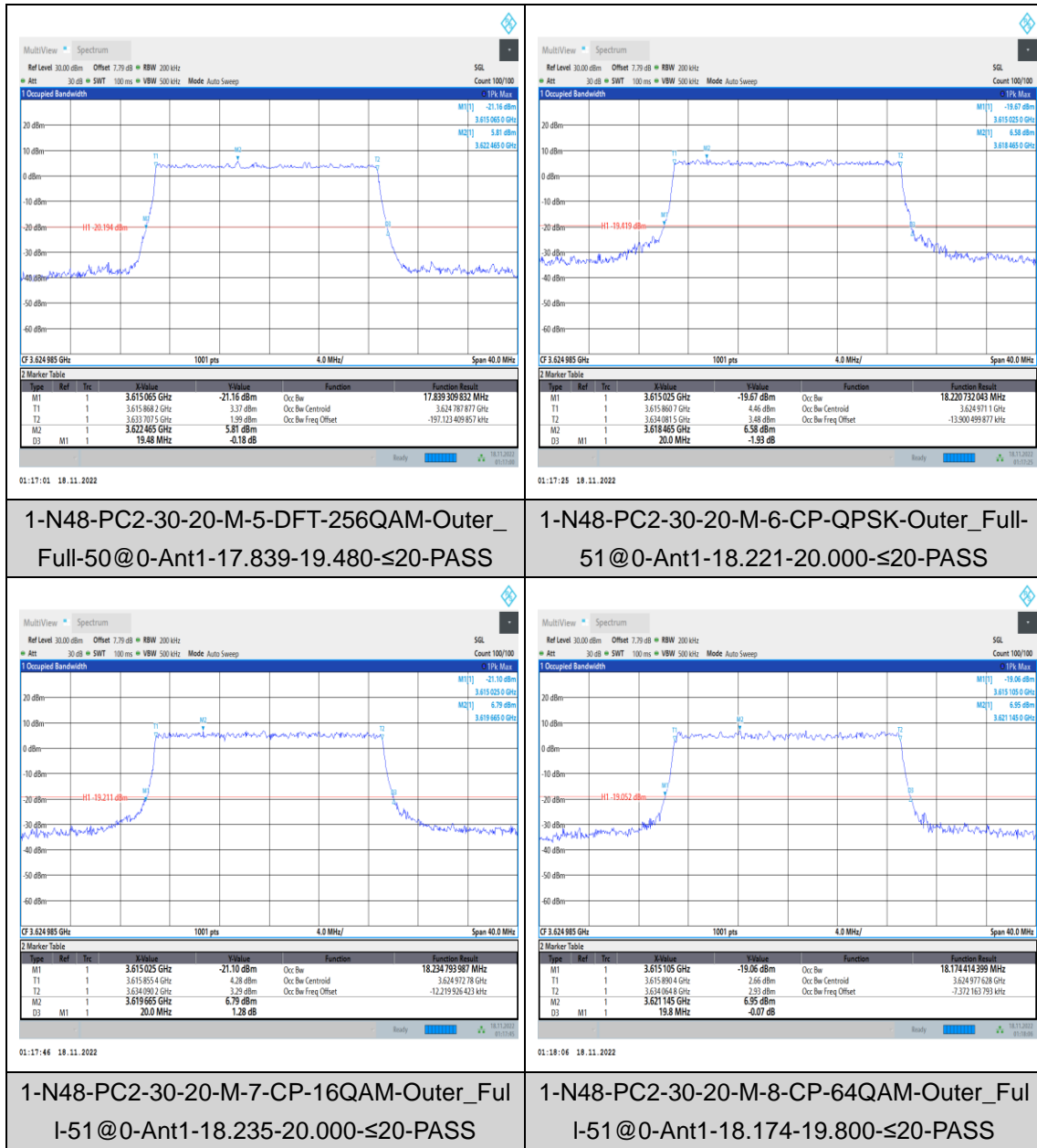


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com

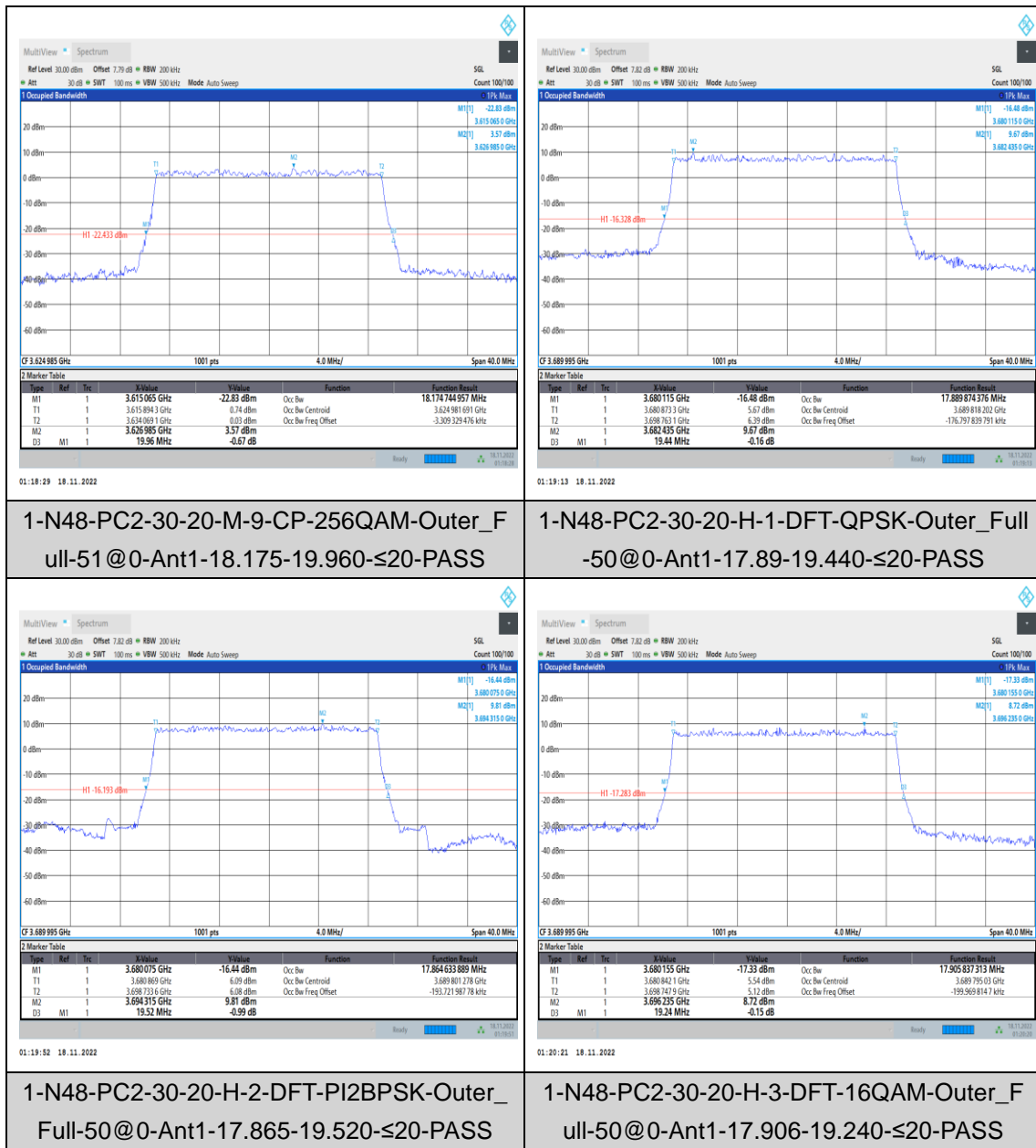


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com



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

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57355888 (86-512)57370818 www.sgs.com.cn
 (86-512)57355888 (86-512)57370818 sgs.china@sgs.com