



Appendix for KSCR2207001310AT

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	20	DFT-PI2BPSK	L	Inner_1RB_Left	22.81	19.16	23	PASS
N48	30	20	DFT-PI2BPSK	L	Inner_1RB_Right	22.65	19	23	PASS
N48	30	20	DFT-PI2BPSK	L	Outer_Full	22.76	19.11	23	PASS
N48	30	20	DFT-QPSK	L	Inner_1RB_Left	22.81	19.16	23	PASS
N48	30	20	DFT-QPSK	L	Inner_1RB_Right	22.67	19.02	23	PASS
N48	30	20	DFT-QPSK	L	Outer_Full	22.81	19.16	23	PASS
N48	30	20	DFT-16QAM	L	Inner_1RB_Left	22.84	19.19	23	PASS
N48	30	20	DFT-16QAM	L	Inner_1RB_Right	22.67	19.02	23	PASS
N48	30	20	DFT-16QAM	L	Outer_Full	21.76	18.11	23	PASS
N48	30	20	DFT-64QAM	L	Inner_1RB_Left	20.8	17.15	23	PASS
N48	30	20	DFT-64QAM	L	Inner_1RB_Right	20.65	17	23	PASS
N48	30	20	DFT-64QAM	L	Outer_Full	21.28	17.63	23	PASS
N48	30	20	DFT-256QAM	L	Inner_1RB_Left	19.09	15.44	23	PASS
N48	30	20	DFT-256QAM	L	Inner_1RB_Right	19.04	15.39	23	PASS
N48	30	20	DFT-256QAM	L	Outer_Full	19.21	15.56	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

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

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



N48	30	20	DFT-PI2BPSK	M	Inner_1RB_Left	22.79	19.14	23	PASS
N48	30	20	DFT-PI2BPSK	M	Inner_1RB_Right	22.64	18.99	23	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	22.68	19.03	23	PASS
N48	30	20	DFT-QPSK	M	Inner_1RB_Left	22.75	19.1	23	PASS
N48	30	20	DFT-QPSK	M	Inner_1RB_Right	22.62	18.97	23	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	22.7	19.05	23	PASS
N48	30	20	DFT-16QAM	M	Inner_1RB_Left	22.81	19.16	23	PASS
N48	30	20	DFT-16QAM	M	Inner_1RB_Right	22.7	19.05	23	PASS
N48	30	20	DFT-16QAM	M	Outer_Full	21.69	18.04	23	PASS
N48	30	20	DFT-64QAM	M	Inner_1RB_Left	20.73	17.08	23	PASS
N48	30	20	DFT-64QAM	M	Inner_1RB_Right	20.58	16.93	23	PASS
N48	30	20	DFT-64QAM	M	Outer_Full	21.21	17.56	23	PASS
N48	30	20	DFT-256QAM	M	Inner_1RB_Left	19.06	15.41	23	PASS
N48	30	20	DFT-256QAM	M	Inner_1RB_Right	18.98	15.33	23	PASS
N48	30	20	DFT-256QAM	M	Outer_Full	19.15	15.5	23	PASS
N48	30	20	DFT-PI2BPSK	H	Inner_1RB_Left	22.48	18.83	23	PASS
N48	30	20	DFT-PI2BPSK	H	Inner_1RB_Right	22.62	18.97	23	PASS
N48	30	20	DFT-PI2BPSK	H	Outer_Full	22.59	18.94	23	PASS
N48	30	20	DFT-QPSK	H	Inner_1RB_Left	22.48	18.83	23	PASS
N48	30	20	DFT-QPSK	H	Inner_1RB_Right	22.57	18.92	23	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	22.59	18.94	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

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

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



N48	30	20	DFT-16QAM	H	Inner_1RB_Left	22.61	18.96	23	PASS
N48	30	20	DFT-16QAM	H	Inner_1RB_Right	22.7	19.05	23	PASS
N48	30	20	DFT-16QAM	H	Outer_Full	21.59	17.94	23	PASS
N48	30	20	DFT-64QAM	H	Inner_1RB_Left	20.61	16.96	23	PASS
N48	30	20	DFT-64QAM	H	Inner_1RB_Right	20.56	16.91	23	PASS
N48	30	20	DFT-64QAM	H	Outer_Full	21.08	17.43	23	PASS
N48	30	20	DFT-256QAM	H	Inner_1RB_Left	18.79	15.14	23	PASS
N48	30	20	DFT-256QAM	H	Inner_1RB_Right	18.91	15.26	23	PASS
N48	30	20	DFT-256QAM	H	Outer_Full	19.04	15.39	23	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Left	23.17	19.52	23	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	22.74	19.09	23	PASS
N48	30	40	DFT-PI2BPSK	L	Outer_Full	22.87	19.22	23	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Left	23.17	19.52	23	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Right	22.79	19.14	23	PASS
N48	30	40	DFT-QPSK	L	Outer_Full	22.85	19.2	23	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Left	23.19	19.54	23	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Right	22.71	19.06	23	PASS
N48	30	40	DFT-16QAM	L	Outer_Full	21.88	18.23	23	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Left	21.06	17.41	23	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Right	20.79	17.14	23	PASS
N48	30	40	DFT-64QAM	L	Outer_Full	21.41	17.76	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

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

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



N48	30	40	DFT-256QAM	L	Inner_1RB_Left	19.52	15.87	23	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Right	19.07	15.42	23	PASS
N48	30	40	DFT-256QAM	L	Outer_Full	19.32	15.67	23	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Left	23.05	19.4	23	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Right	22.76	19.11	23	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	22.87	19.22	23	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Left	23.08	19.43	23	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Right	22.76	19.11	23	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	22.88	19.23	23	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Left	23.04	19.39	23	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Right	22.78	19.13	23	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	21.87	18.22	23	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Left	21.07	17.42	23	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Right	20.69	17.04	23	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	21.41	17.76	23	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Left	19.44	15.79	23	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Right	19.16	15.51	23	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	19.34	15.69	23	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Left	22.85	19.2	23	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Right	22.73	19.08	23	PASS
N48	30	40	DFT-PI2BPSK	H	Outer_Full	22.65	19	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

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

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



N48	30	40	DFT-QPSK	H	Inner_1RB_Left	22.85	19.2	23	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Right	22.72	19.07	23	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	22.64	18.99	23	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Left	22.98	19.33	23	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Right	22.67	19.02	23	PASS
N48	30	40	DFT-16QAM	H	Outer_Full	21.65	18	23	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Left	20.82	17.17	23	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Right	20.78	17.13	23	PASS
N48	30	40	DFT-64QAM	H	Outer_Full	21.18	17.53	23	PASS
N48	30	40	DFT-256QAM	H	Inner_1RB_Left	19.21	15.56	23	PASS
N48	30	40	DFT-256QAM	H	Inner_1RB_Right	19.11	15.46	23	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	19.12	15.47	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

t:(86-512)57355888 f:(86-512)57370818 www.sgs.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	9.47	≤13	PASS
N48	30	40	CP-256QAM	L	Outer_Full	100%	0.00	10.75	≤13	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	100%	0.00	9.54	≤13	PASS
N48	30	40	CP-256QAM	M	Outer_Full	100%	0.00	10.13	≤13	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	100%	0.00	9.05	≤13	PASS
N48	30	40	CP-256QAM	H	Outer_Full	100%	0.00	9.42	≤13	PASS



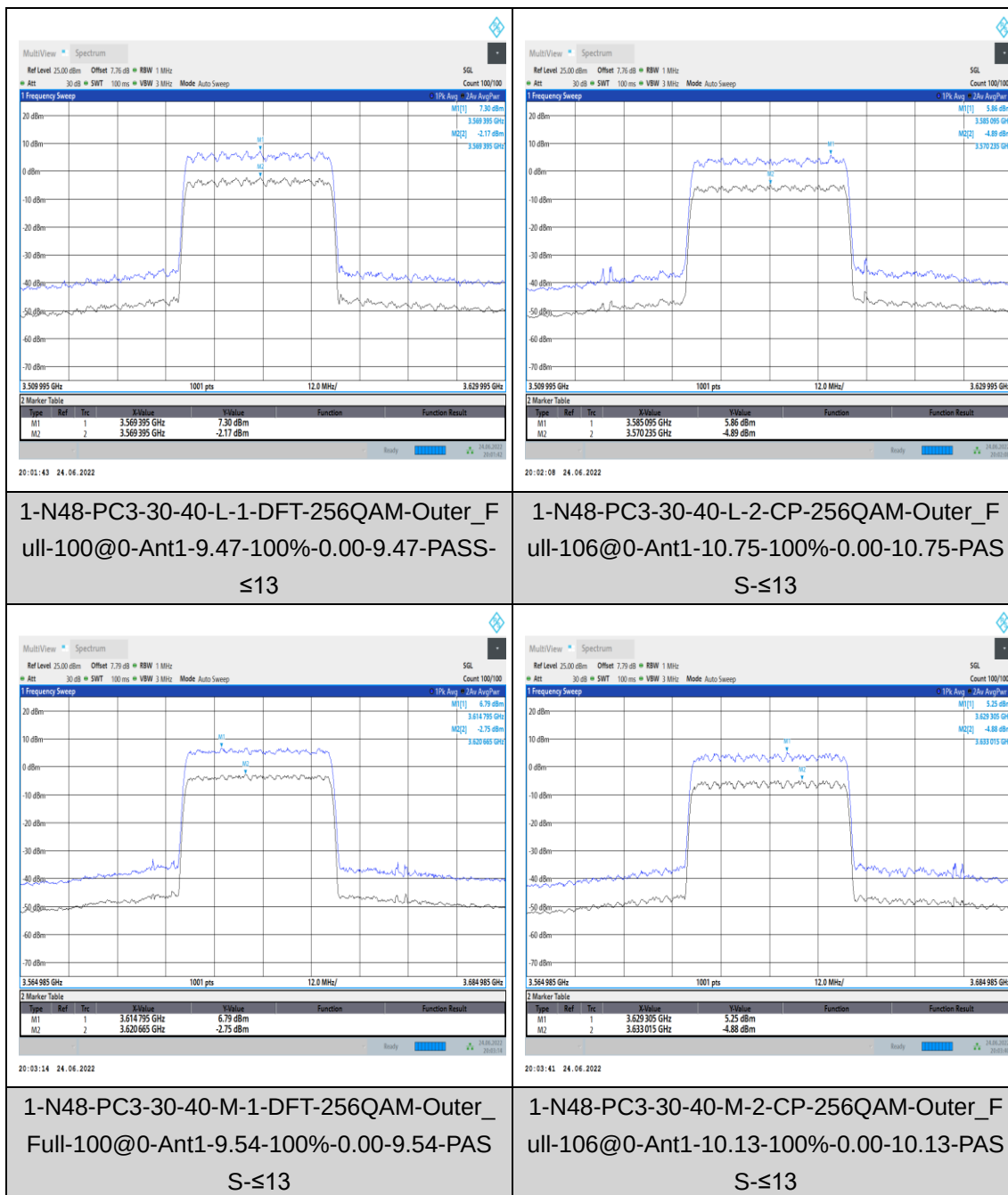
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

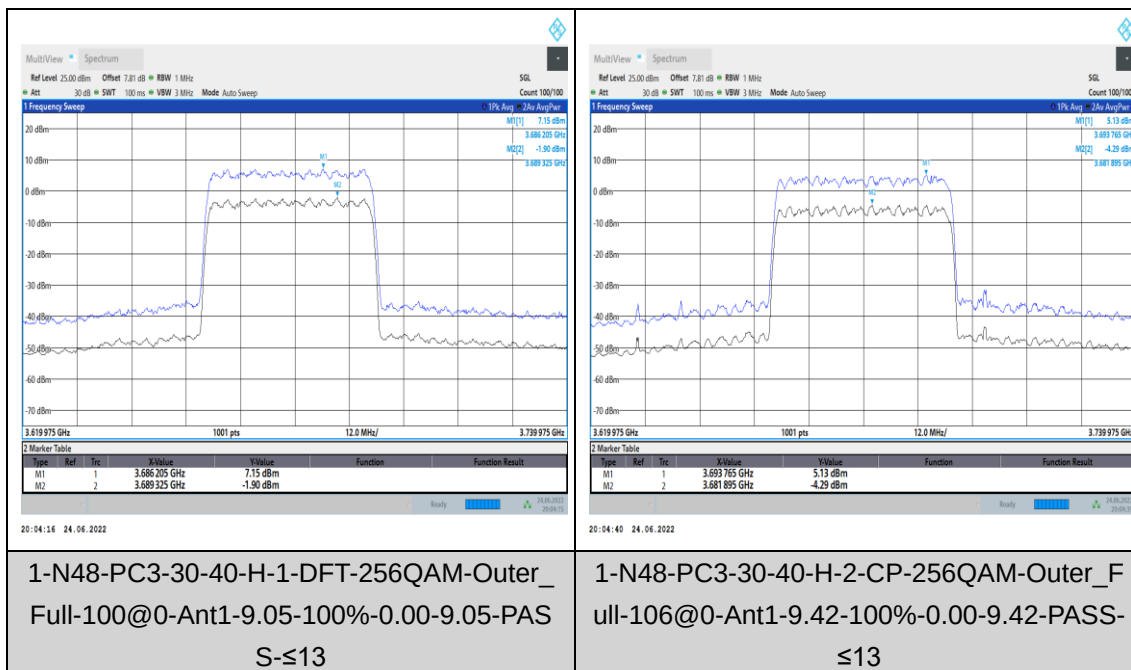
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



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.sgs.com.cn
t(86-512)57355888 f(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	20	DFT-QPSK	L	Outer_Full	17.872	19.080	PASS
N48	30	20	DFT-PI2BPSK	L	Outer_Full	17.814	19.120	PASS
N48	30	20	DFT-16QAM	L	Outer_Full	17.867	19.280	PASS
N48	30	20	DFT-64QAM	L	Outer_Full	17.867	19.160	PASS
N48	30	20	DFT-256QAM	L	Outer_Full	17.851	18.920	PASS
N48	30	20	CP-QPSK	L	Outer_Full	18.198	19.600	PASS
N48	30	20	CP-16QAM	L	Outer_Full	18.205	19.480	PASS
N48	30	20	CP-64QAM	L	Outer_Full	18.207	19.640	PASS
N48	30	20	CP-256QAM	L	Outer_Full	18.212	19.160	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	17.836	19.160	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	17.825	19.160	PASS
N48	30	20	DFT-16QAM	M	Outer_Full	17.858	19.080	PASS
N48	30	20	DFT-64QAM	M	Outer_Full	17.87	19.280	PASS
N48	30	20	DFT-256QAM	M	Outer_Full	17.852	19.120	PASS
N48	30	20	CP-QPSK	M	Outer_Full	18.186	19.640	PASS
N48	30	20	CP-16QAM	M	Outer_Full	18.193	19.520	PASS
N48	30	20	CP-64QAM	M	Outer_Full	18.193	19.600	PASS
N48	30	20	CP-256QAM	M	Outer_Full	18.221	19.240	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	17.85	19.160	PASS
N48	30	20	DFT-PI2BPSK	H	Outer_Full	17.812	19.120	PASS
N48	30	20	DFT-16QAM	H	Outer_Full	17.859	19.240	PASS
N48	30	20	DFT-64QAM	H	Outer_Full	17.872	19.240	PASS
N48	30	20	DFT-256QAM	H	Outer_Full	17.834	19.000	PASS
N48	30	20	CP-QPSK	H	Outer_Full	18.178	23.880	PASS
N48	30	20	CP-16QAM	H	Outer_Full	18.199	19.600	PASS
N48	30	20	CP-64QAM	H	Outer_Full	18.197	19.680	PASS
N48	30	20	CP-256QAM	H	Outer_Full	18.229	19.480	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



N48	30	40	DFT-QPSK	L	Outer_Full	35.7	37.760	PASS
N48	30	40	DFT-PI2BPSK	L	Outer_Full	35.719	37.680	PASS
N48	30	40	DFT-16QAM	L	Outer_Full	35.712	37.760	PASS
N48	30	40	DFT-64QAM	L	Outer_Full	35.831	37.760	PASS
N48	30	40	DFT-256QAM	L	Outer_Full	35.707	37.680	PASS
N48	30	40	CP-QPSK	L	Outer_Full	37.852	39.920	PASS
N48	30	40	CP-16QAM	L	Outer_Full	37.793	39.840	PASS
N48	30	40	CP-64QAM	L	Outer_Full	37.785	39.920	PASS
N48	30	40	CP-256QAM	L	Outer_Full	37.915	39.760	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	35.68	37.760	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	35.686	37.760	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	35.701	37.840	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	35.819	37.840	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	35.688	37.600	PASS
N48	30	40	CP-QPSK	M	Outer_Full	37.886	39.840	PASS
N48	30	40	CP-16QAM	M	Outer_Full	37.809	39.920	PASS
N48	30	40	CP-64QAM	M	Outer_Full	37.792	39.920	PASS
N48	30	40	CP-256QAM	M	Outer_Full	37.792	39.600	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	35.683	37.680	PASS
N48	30	40	DFT-PI2BPSK	H	Outer_Full	35.704	37.680	PASS
N48	30	40	DFT-16QAM	H	Outer_Full	35.732	37.760	PASS
N48	30	40	DFT-64QAM	H	Outer_Full	35.84	37.840	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	35.693	37.680	PASS
N48	30	40	CP-QPSK	H	Outer_Full	37.883	39.920	PASS
N48	30	40	CP-16QAM	H	Outer_Full	37.812	39.920	PASS
N48	30	40	CP-64QAM	H	Outer_Full	37.806	39.920	PASS
N48	30	40	CP-256QAM	H	Outer_Full	37.814	39.600	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.sgs.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-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

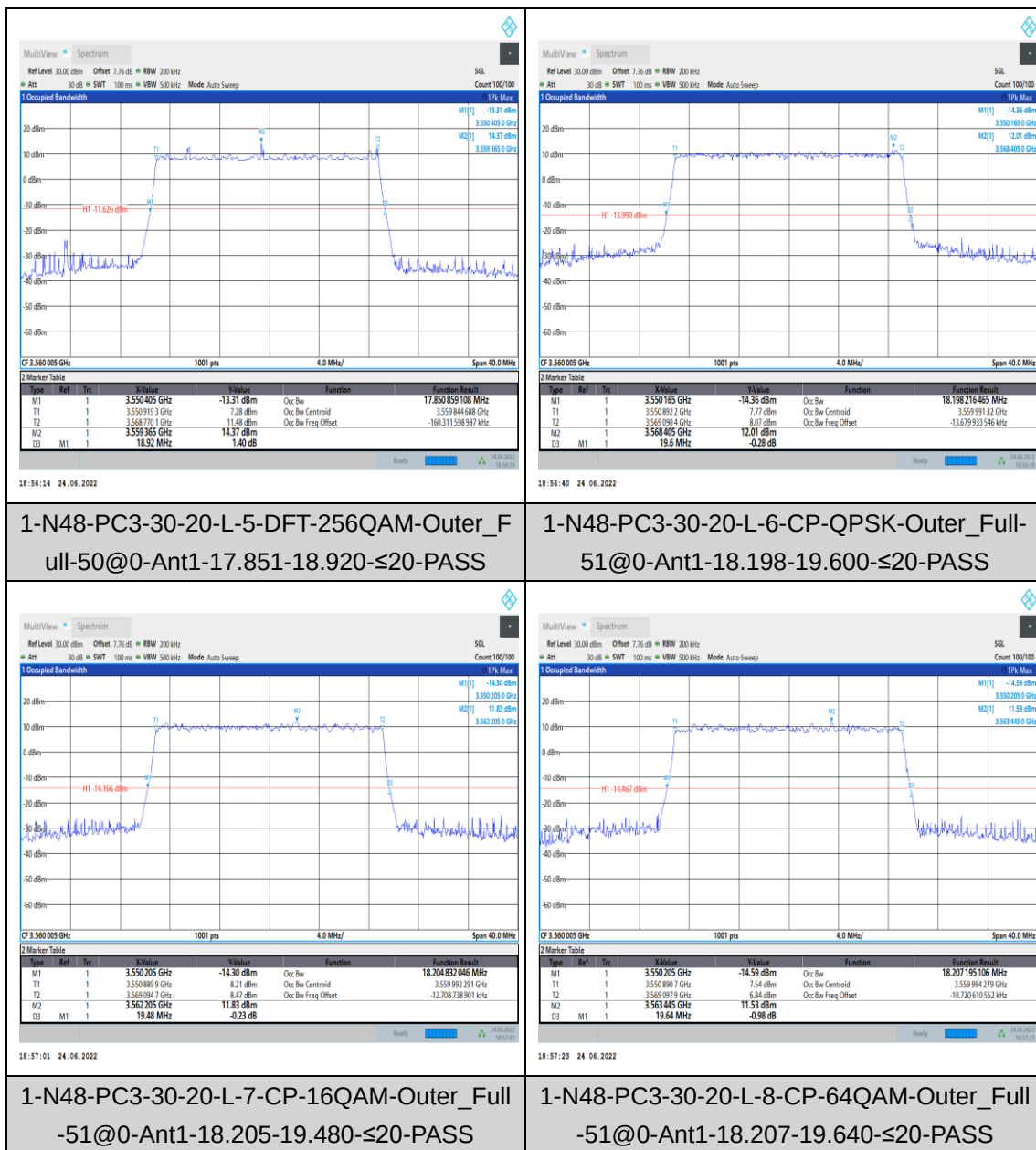
t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn

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



Compliance Certification Services (Kunshan) Inc.

12 of 44



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.

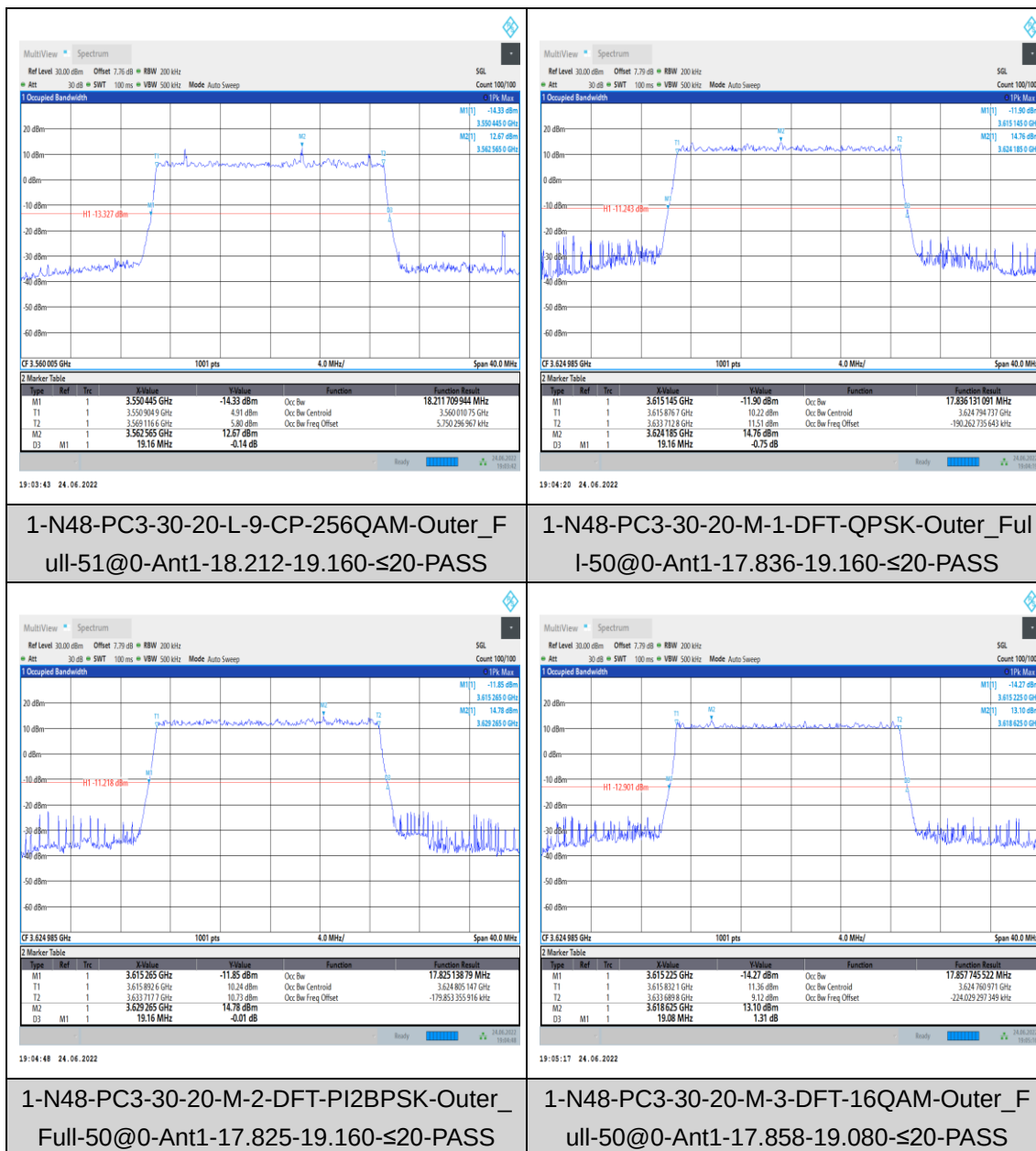
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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.sgs.com

t(86-512)57355888 f(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

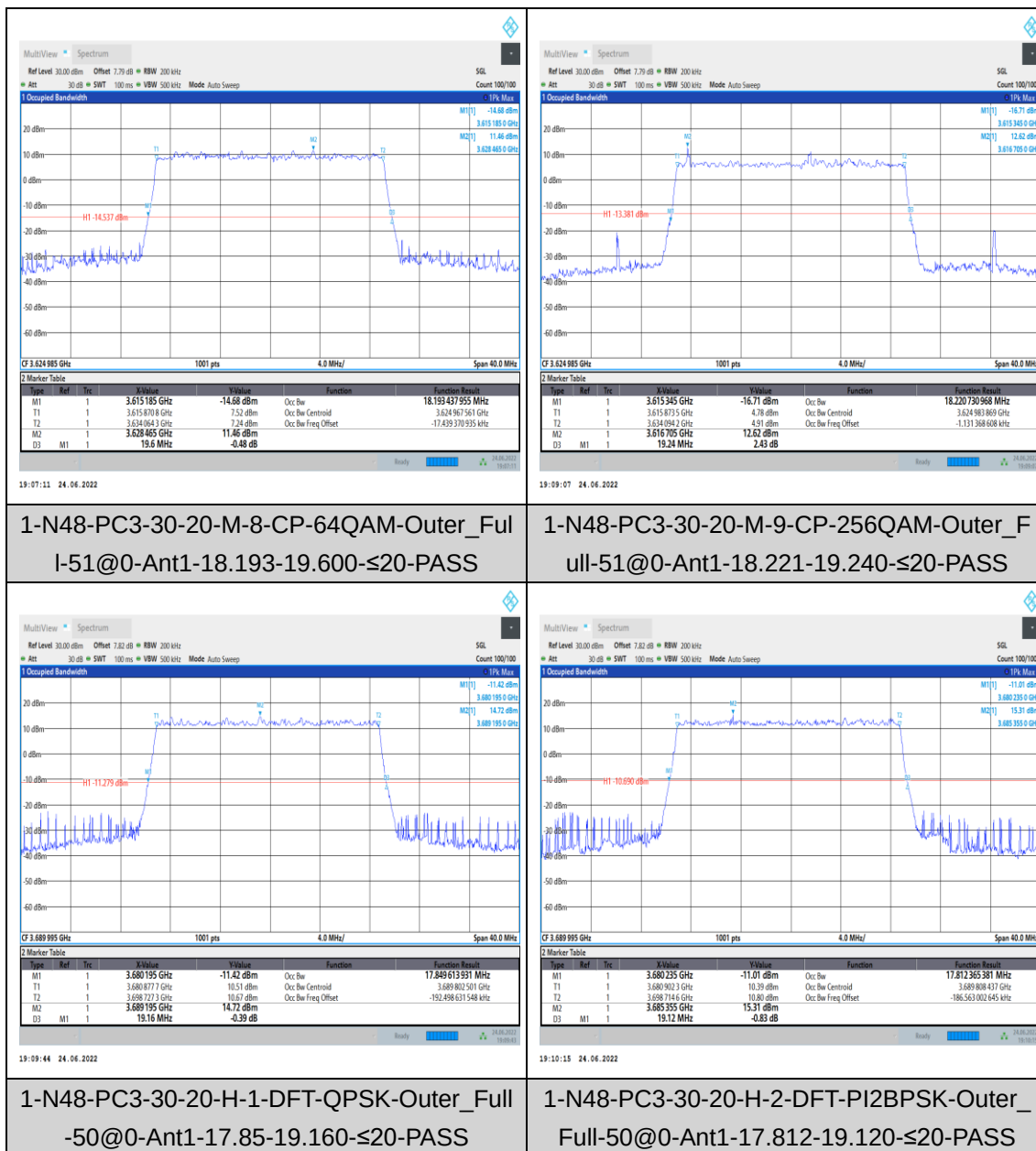


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

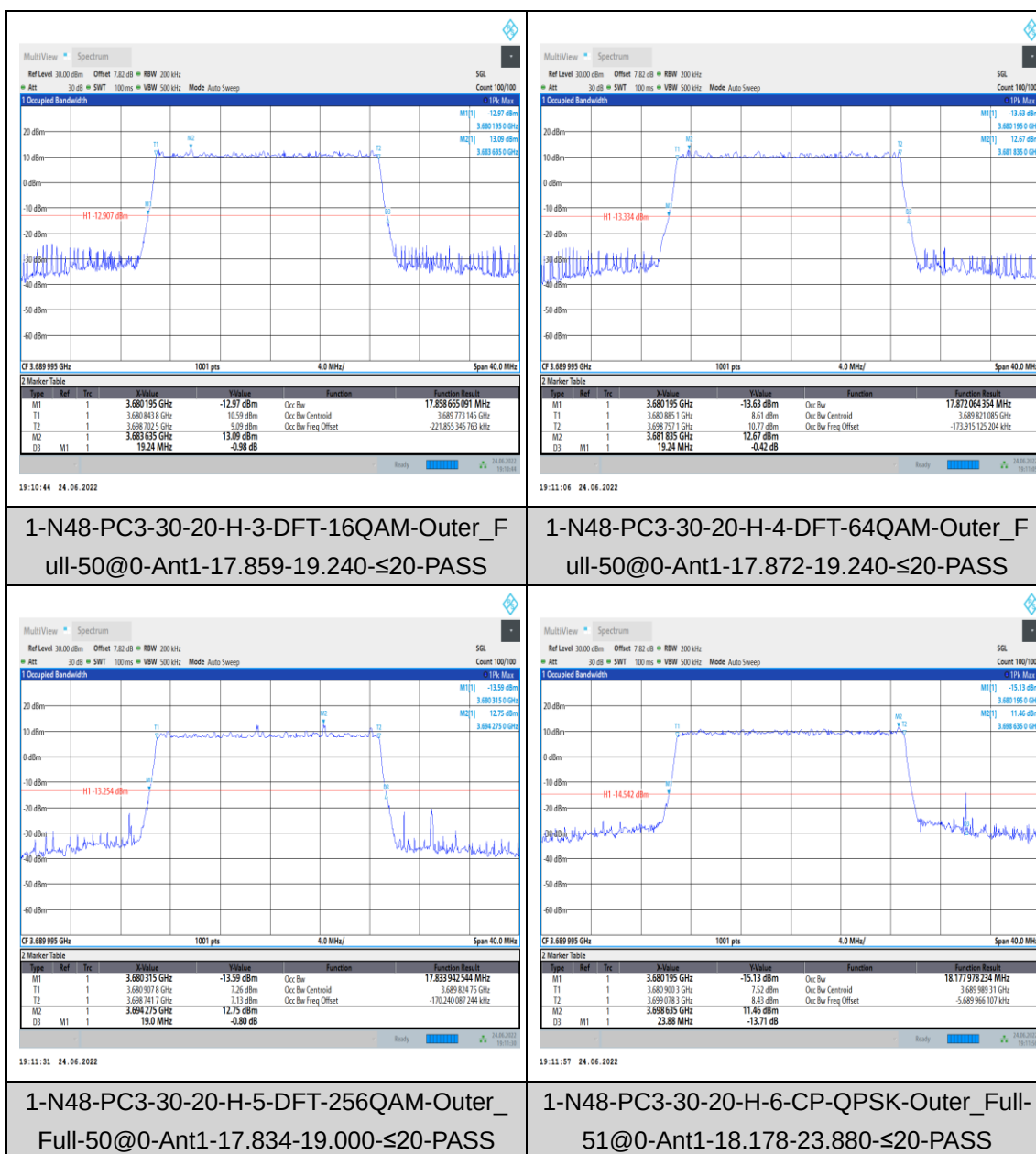


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

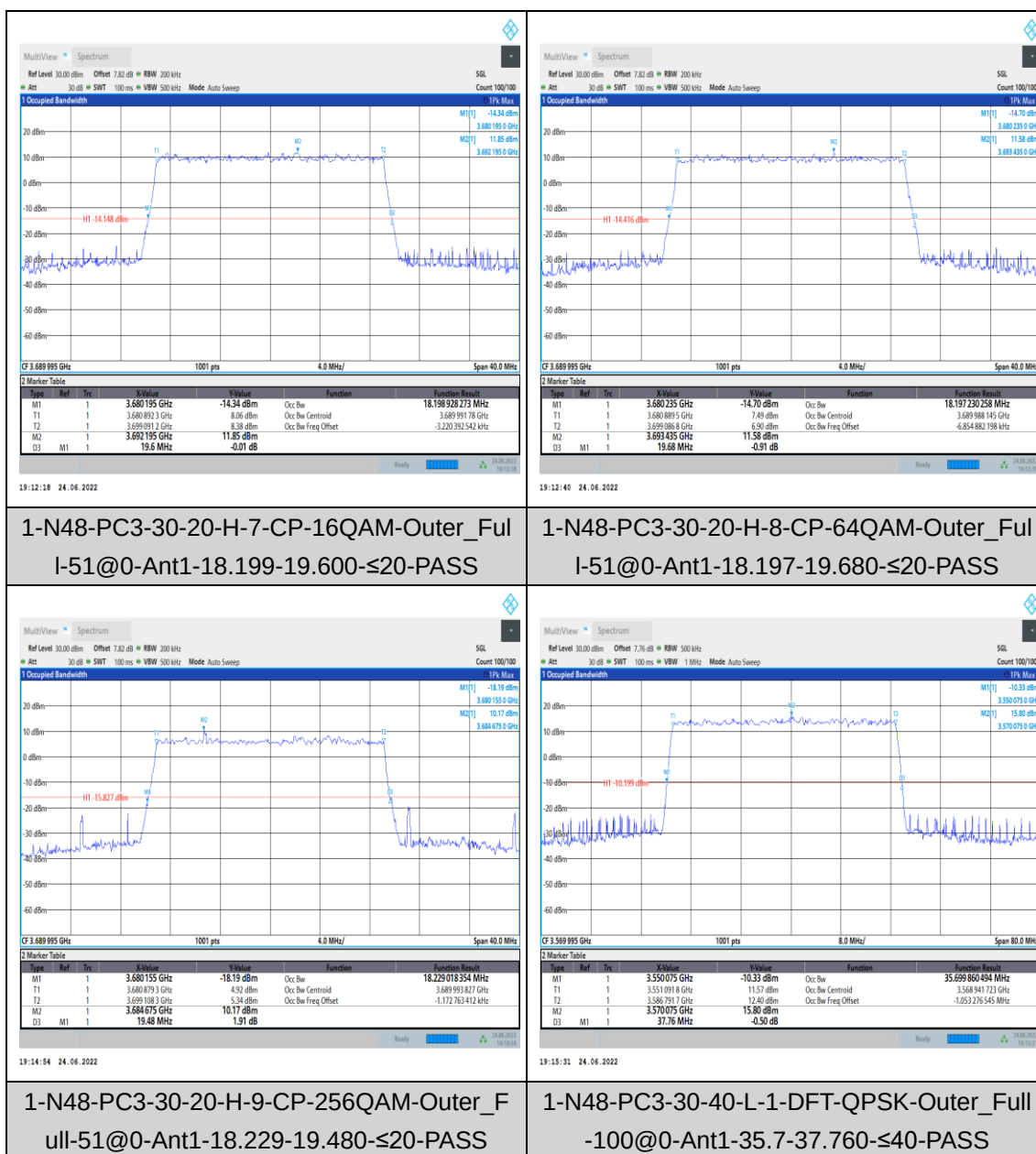


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.sgs.com.cn
t(86-512)57355888 f(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

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

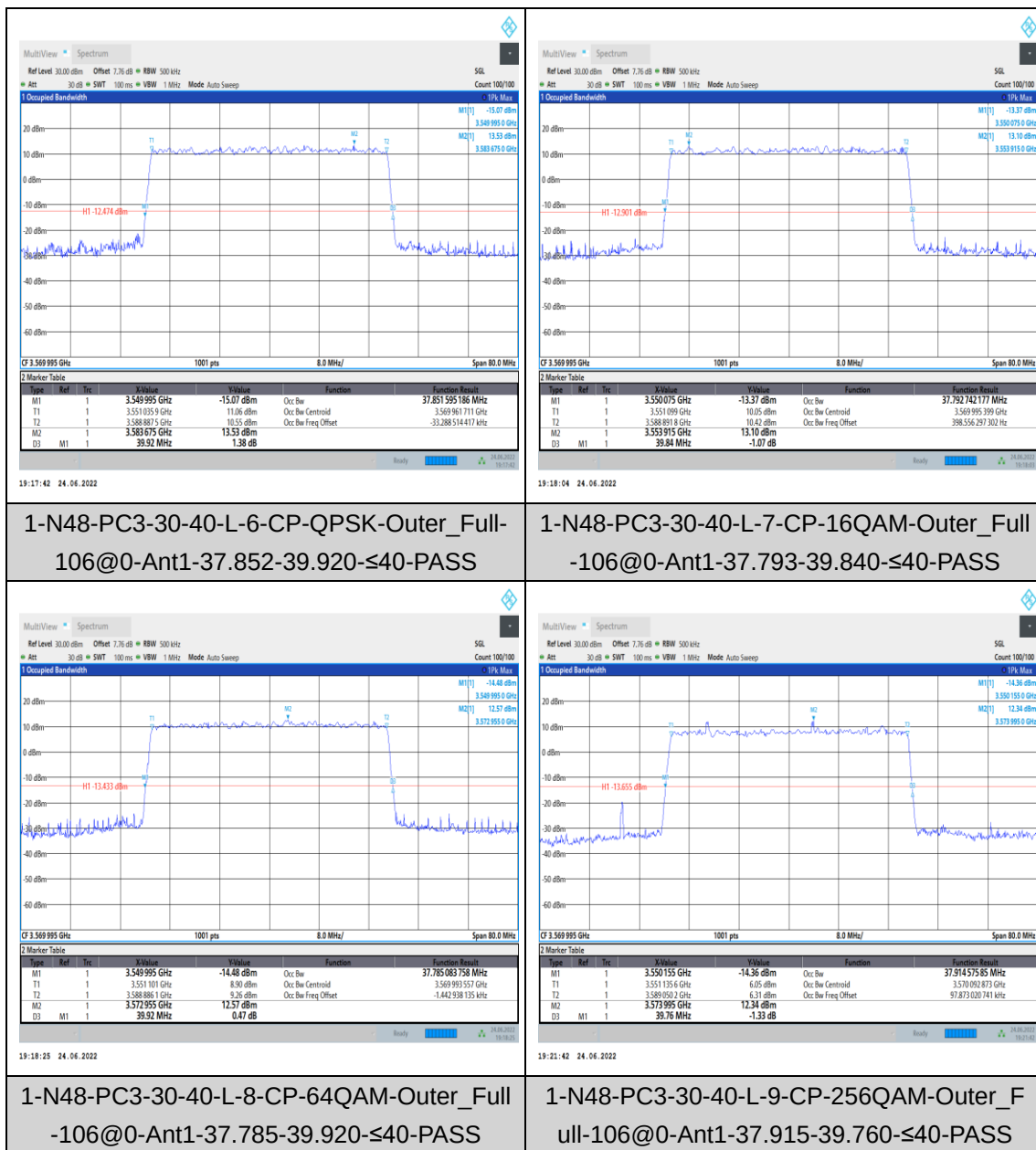


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

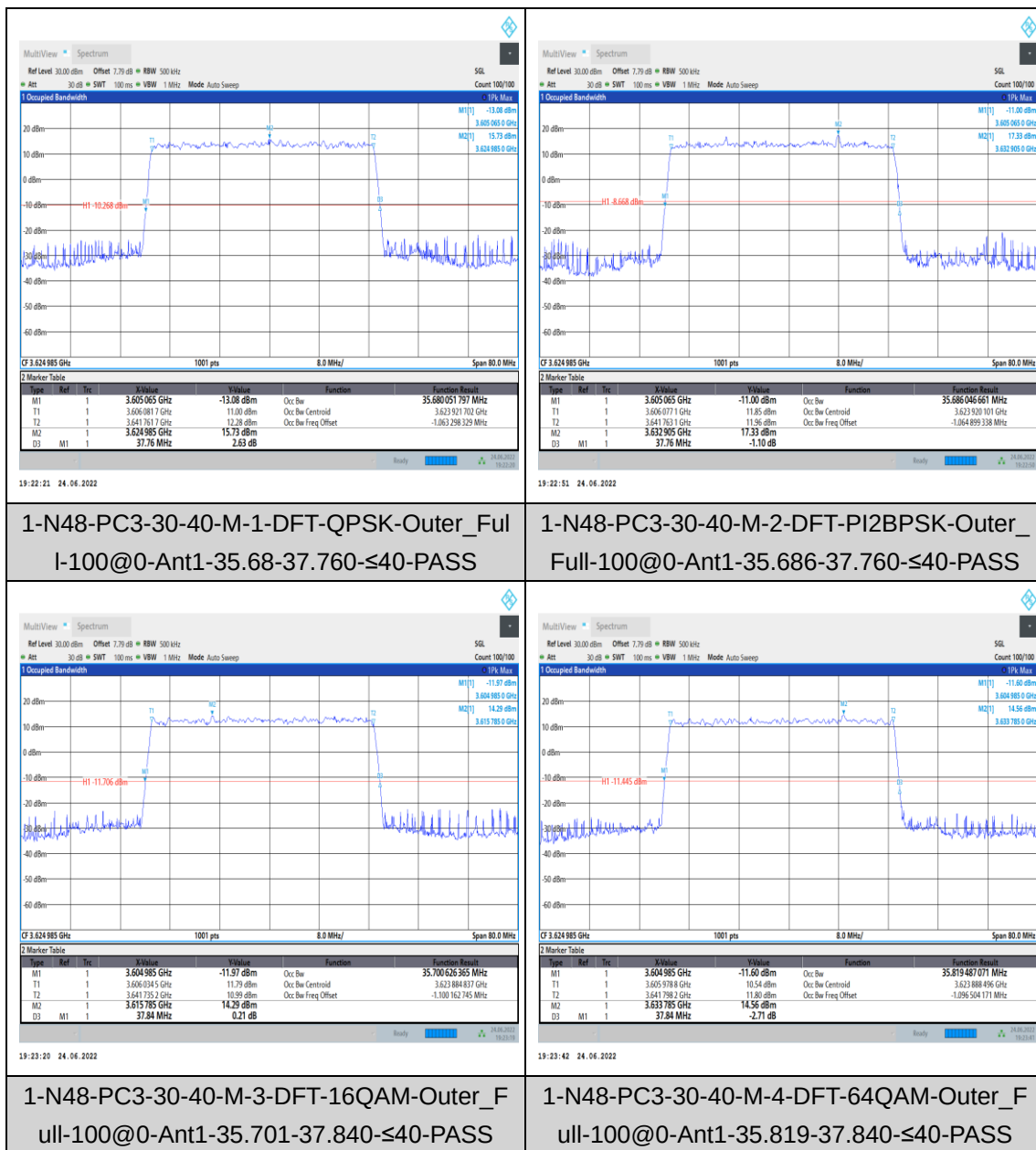


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

t(86-512)57355888 f(86-512)57370818 www.sgs.com
t(86-512)57355888 f(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·昆山市留学生创业园伟业路10号 邮编 215300

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

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