

Report No.: SEWM2308000313RG02

Rev.: 01

Page: 1 of 72

Appendix B.27

NR Band n77(3450-3550)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

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

Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT5

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N77-3450-3550	30	10	DFT-QPSK	L	Inner_1RB_Left	26.57	26.17	30.00	PASS
N77-3450-3550	30	10	DFT-16QAM	L	Inner_1RB_Left	25.51	25.11	30.00	PASS
N77-3450-3550	30	10	DFT-QPSK	M	Inner_1RB_Left	26.43	26.03	30.00	PASS
N77-3450-3550	30	10	DFT-16QAM	M	Inner_1RB_Left	25.42	25.02	30.00	PASS
N77-3450-3550	30	10	DFT-QPSK	H	Inner_1RB_Left	26.24	25.84	30.00	PASS
N77-3450-3550	30	10	DFT-16QAM	H	Inner_1RB_Left	25.38	24.98	30.00	PASS
N77-3450-3550	30	15	DFT-QPSK	L	Inner_1RB_Left	26.76	26.36	30.00	PASS
N77-3450-3550	30	15	DFT-16QAM	L	Inner_1RB_Left	25.96	25.56	30.00	PASS
N77-3450-3550	30	15	DFT-QPSK	M	Inner_1RB_Left	26.77	26.37	30.00	PASS
N77-3450-3550	30	15	DFT-16QAM	M	Inner_1RB_Left	25.80	25.40	30.00	PASS
N77-3450-3550	30	15	DFT-QPSK	H	Inner_1RB_Left	26.74	26.34	30.00	PASS
N77-3450-3550	30	15	DFT-16QAM	H	Inner_1RB_Left	25.68	25.28	30.00	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Inner_1RB_Left	27.02	26.62	30.00	PASS
N77-3450-3550	30	20	DFT-16QAM	L	Inner_1RB_Left	25.77	25.37	30.00	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Inner_1RB_Left	26.62	26.22	30.00	PASS
N77-3450-3550	30	20	DFT-16QAM	M	Inner_1RB_Left	25.61	25.21	30.00	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Inner_1RB_Left	26.42	26.02	30.00	PASS
N77-3450-3550	30	20	DFT-16QAM	H	Inner_1RB_Left	25.62	25.22	30.00	PASS
N77-3450-3550	30	25	DFT-QPSK	L	Inner_1RB_Left	26.57	26.17	30.00	PASS
N77-3450-3550	30	25	DFT-16QAM	L	Inner_1RB_Left	25.60	25.20	30.00	PASS
N77-3450-3550	30	25	DFT-QPSK	M	Inner_1RB_Left	26.55	26.15	30.00	PASS
N77-3450-3550	30	25	DFT-16QAM	M	Inner_1RB_Left	25.39	24.99	30.00	PASS
N77-3450-3550	30	25	DFT-QPSK	H	Inner_1RB_Left	26.52	26.12	30.00	PASS
N77-3450-3550	30	25	DFT-16QAM	H	Inner_1RB_Left	25.68	25.28	30.00	PASS
N77-3450-3550	30	30	DFT-QPSK	L	Inner_1RB_Left	26.69	26.29	30.00	PASS
N77-3450-3550	30	30	DFT-16QAM	L	Inner_1RB_Left	25.76	25.36	30.00	PASS
N77-3450-3550	30	30	DFT-QPSK	M	Inner_1RB_Left	26.67	26.27	30.00	PASS
N77-3450-3550	30	30	DFT-16QAM	M	Inner_1RB_Left	25.74	25.34	30.00	PASS
N77-3450-3550	30	30	DFT-QPSK	H	Inner_1RB_Left	26.64	26.24	30.00	PASS
N77-3450-3550	30	30	DFT-16QAM	H	Inner_1RB_Left	25.53	25.13	30.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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



N77-3450-3550	30	40	DFT-QPSK	L	Inner_1RB_Left	26.92	26.52	30.00	PASS
N77-3450-3550	30	40	DFT-16QAM	L	Inner_1RB_Left	25.94	25.54	30.00	PASS
N77-3450-3550	30	40	DFT-QPSK	M	Inner_1RB_Left	26.63	26.23	30.00	PASS
N77-3450-3550	30	40	DFT-16QAM	M	Inner_1RB_Left	25.58	25.18	30.00	PASS
N77-3450-3550	30	40	DFT-QPSK	H	Inner_1RB_Left	26.44	26.04	30.00	PASS
N77-3450-3550	30	40	DFT-16QAM	H	Inner_1RB_Left	25.52	25.12	30.00	PASS
N77-3450-3550	30	50	DFT-QPSK	L	Inner_1RB_Left	26.73	26.33	30.00	PASS
N77-3450-3550	30	50	DFT-16QAM	L	Inner_1RB_Left	25.64	25.24	30.00	PASS
N77-3450-3550	30	50	DFT-QPSK	M	Inner_1RB_Left	26.51	26.11	30.00	PASS
N77-3450-3550	30	50	DFT-16QAM	M	Inner_1RB_Left	25.64	25.24	30.00	PASS
N77-3450-3550	30	50	DFT-QPSK	H	Inner_1RB_Left	26.42	26.02	30.00	PASS
N77-3450-3550	30	50	DFT-16QAM	H	Inner_1RB_Left	25.20	24.80	30.00	PASS
N77-3450-3550	30	60	DFT-QPSK	L	Inner_1RB_Left	26.66	26.26	30.00	PASS
N77-3450-3550	30	60	DFT-16QAM	L	Inner_1RB_Left	25.74	25.34	30.00	PASS
N77-3450-3550	30	60	DFT-QPSK	M	Inner_1RB_Left	26.62	26.22	30.00	PASS
N77-3450-3550	30	60	DFT-16QAM	M	Inner_1RB_Left	25.52	25.12	30.00	PASS
N77-3450-3550	30	60	DFT-QPSK	H	Inner_1RB_Left	26.48	26.08	30.00	PASS
N77-3450-3550	30	60	DFT-16QAM	H	Inner_1RB_Left	25.53	25.13	30.00	PASS
N77-3450-3550	30	70	DFT-QPSK	L	Inner_1RB_Left	26.55	26.15	30.00	PASS
N77-3450-3550	30	70	DFT-16QAM	L	Inner_1RB_Left	25.67	25.27	30.00	PASS
N77-3450-3550	30	70	DFT-QPSK	M	Inner_1RB_Left	26.23	25.83	30.00	PASS
N77-3450-3550	30	70	DFT-16QAM	M	Inner_1RB_Left	25.46	25.06	30.00	PASS
N77-3450-3550	30	70	DFT-QPSK	H	Inner_1RB_Left	26.28	25.88	30.00	PASS
N77-3450-3550	30	70	DFT-16QAM	H	Inner_1RB_Left	25.37	24.97	30.00	PASS
N77-3450-3550	30	80	DFT-QPSK	L	Inner_1RB_Left	26.81	26.41	30.00	PASS
N77-3450-3550	30	80	DFT-16QAM	L	Inner_1RB_Left	25.57	25.17	30.00	PASS
N77-3450-3550	30	80	DFT-QPSK	M	Inner_1RB_Left	26.37	25.97	30.00	PASS
N77-3450-3550	30	80	DFT-16QAM	M	Inner_1RB_Left	25.67	25.27	30.00	PASS
N77-3450-3550	30	80	DFT-QPSK	H	Inner_1RB_Left	26.31	25.91	30.00	PASS
N77-3450-3550	30	80	DFT-16QAM	H	Inner_1RB_Left	25.29	24.89	30.00	PASS
N77-3450-3550	30	90	DFT-QPSK	L	Inner_1RB_Left	26.66	26.26	30.00	PASS
N77-3450-3550	30	90	DFT-16QAM	L	Inner_1RB_Left	25.76	25.36	30.00	PASS
N77-3450-3550	30	90	DFT-QPSK	M	Inner_1RB_Left	26.54	26.14	30.00	PASS
N77-3450-3550	30	90	DFT-16QAM	M	Inner_1RB_Left	25.63	25.23	30.00	PASS
N77-3450-3550	30	90	DFT-QPSK	H	Inner_1RB_Left	26.51	26.11	30.00	PASS
N77-3450-3550	30	90	DFT-16QAM	H	Inner_1RB_Left	25.45	25.05	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	L	Inner_1RB_Left	26.64	26.24	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	L	Inner_1RB_Right	26.28	25.88	30.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



N77-3450-3550	30	100	DFT-PI2BPSK	L	Outer_Full	25.77	25.37	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	L	Inner_1RB_Left	26.52	26.12	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	L	Inner_1RB_Right	26.17	25.77	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	L	Outer_Full	25.35	24.95	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	L	Inner_1RB_Left	25.51	25.11	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	L	Inner_1RB_Right	25.11	24.71	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	L	Outer_Full	24.15	23.75	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	L	Inner_1RB_Left	24.05	23.65	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	L	Inner_1RB_Right	23.59	23.19	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	L	Outer_Full	23.75	23.35	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	L	Inner_1RB_Left	21.92	21.52	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	L	Inner_1RB_Right	21.29	20.89	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	L	Outer_Full	21.56	21.16	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Inner_1RB_Left	26.51	26.11	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Inner_1RB_Right	26.08	25.68	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	25.72	25.32	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Inner_1RB_Left	26.68	26.28	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Inner_1RB_Right	26.33	25.93	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Outer_Full	25.26	24.86	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	M	Inner_1RB_Left	25.73	25.33	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	M	Inner_1RB_Right	25.29	24.89	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	M	Outer_Full	24.25	23.85	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	M	Inner_1RB_Left	24.21	23.81	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	M	Inner_1RB_Right	23.79	23.39	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	M	Outer_Full	23.56	23.16	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	M	Inner_1RB_Left	21.99	21.59	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	M	Inner_1RB_Right	21.54	21.14	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	M	Outer_Full	21.70	21.30	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	H	Inner_1RB_Left	26.72	26.32	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	H	Inner_1RB_Right	26.19	25.79	30.00	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	H	Outer_Full	25.89	25.49	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	H	Inner_1RB_Left	26.72	26.32	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	H	Inner_1RB_Right	26.17	25.77	30.00	PASS
N77-3450-3550	30	100	DFT-QPSK	H	Outer_Full	25.17	24.77	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	H	Inner_1RB_Left	25.66	25.26	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	H	Inner_1RB_Right	25.14	24.74	30.00	PASS
N77-3450-3550	30	100	DFT-16QAM	H	Outer_Full	24.21	23.81	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	H	Inner_1RB_Left	23.92	23.52	30.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



Report No.: SEWM2308000313RG02

Rev.: 01

Page: 5 of 72

N77-3450-3550	30	100	DFT-64QAM	H	Inner_1RB_Right	23.85	23.45	30.00	PASS
N77-3450-3550	30	100	DFT-64QAM	H	Outer_Full	23.81	23.41	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	H	Inner_1RB_Left	21.98	21.58	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	H	Inner_1RB_Right	21.59	21.19	30.00	PASS
N77-3450-3550	30	100	DFT-256QAM	H	Outer_Full	21.65	21.25	30.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

t (86-512) 62992980 www.sgs.com.cn

中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

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

Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N77-3450-3550	30	100	DFT-256QAM	L	Outer_Full	9.44	≤13	PASS
N77-3450-3550	30	100	CP-256QAM	L	Outer_Full	9.70	≤13	PASS
N77-3450-3550	30	100	DFT-256QAM	M	Outer_Full	8.96	≤13	PASS
N77-3450-3550	30	100	CP-256QAM	M	Outer_Full	9.44	≤13	PASS
N77-3450-3550	30	100	DFT-256QAM	H	Outer_Full	9.32	≤13	PASS
N77-3450-3550	30	100	CP-256QAM	H	Outer_Full	9.56	≤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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

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

Test Graphs

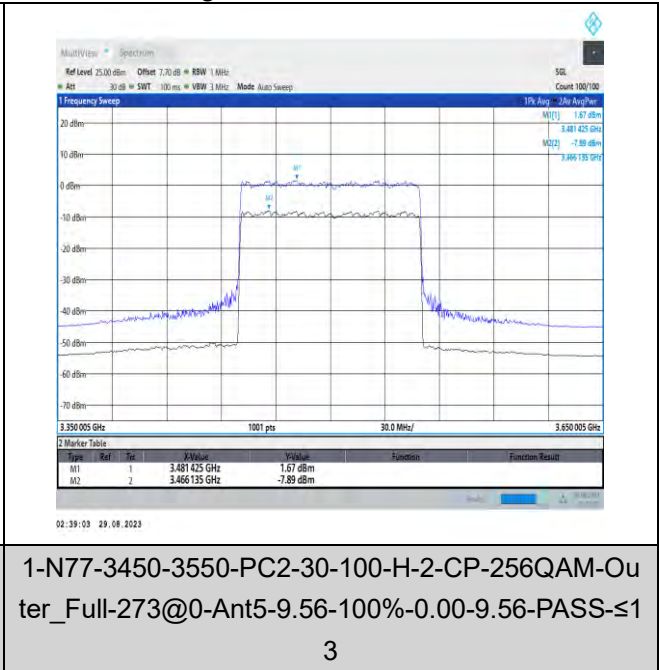
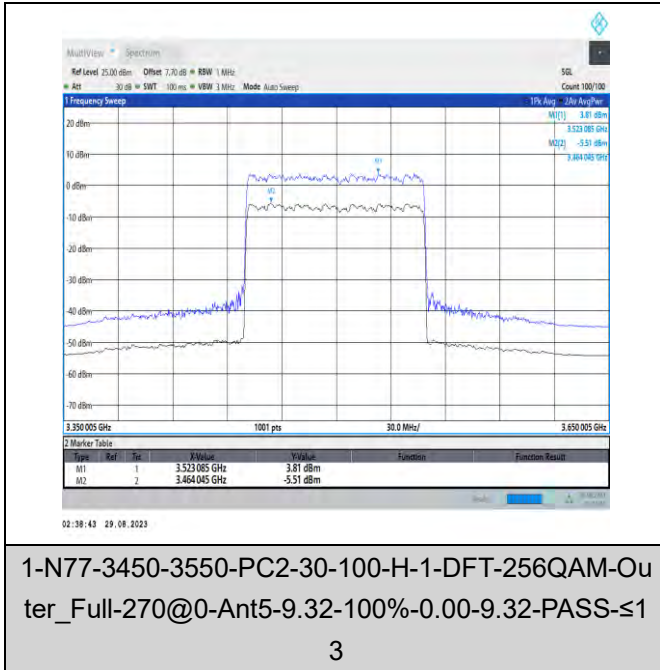
<p>1-N77-3450-3550-PC2-30-100-L-1-DFT-256QAM-Outer_Full-270@0-Ant5-9.44-100%-0.00-9.44-PASS-≤1</p> <p style="text-align: center;">3</p>	<p>1-N77-3450-3550-PC2-30-100-L-2-CP-256QAM-Outer_Full-273@0-Ant5-9.70-100%-0.00-9.70-PASS-≤1</p> <p style="text-align: center;">3</p>
<p>1-N77-3450-3550-PC2-30-100-M-1-DFT-256QAM-Outer_Full-270@0-Ant5-8.96-100%-0.00-8.96-PASS-≤1</p> <p style="text-align: center;">13</p>	<p>1-N77-3450-3550-PC2-30-100-M-2-CP-256QAM-Outer_Full-273@0-Ant5-9.44-100%-0.00-9.44-PASS-≤1</p> <p style="text-align: center;">3</p>



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 report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-100-H-1-DFT-256QAM-Outer_Full-270@0-Ant5-9.32-100%-0.00-9.32-PASS-≤1

3

1-N77-3450-3550-PC2-30-100-H-2-CP-256QAM-Outer_Full-273@0-Ant5-9.56-100%-0.00-9.56-PASS-≤1

3



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N77-3450-3550	30	10	DFT-QPSK	M	Outer_Full	8.559	9.160	PASS
N77-3450-3550	30	10	DFT-PI2BPSK	M	Outer_Full	8.528	9.120	PASS
N77-3450-3550	30	10	DFT-16QAM	M	Outer_Full	8.573	8.980	PASS
N77-3450-3550	30	10	DFT-64QAM	M	Outer_Full	8.606	9.080	PASS
N77-3450-3550	30	10	DFT-256QAM	M	Outer_Full	8.534	9.060	PASS
N77-3450-3550	30	10	CP-QPSK	M	Outer_Full	8.588	9.380	PASS
N77-3450-3550	30	10	CP-16QAM	M	Outer_Full	8.594	9.200	PASS
N77-3450-3550	30	10	CP-64QAM	M	Outer_Full	8.568	9.120	PASS
N77-3450-3550	30	10	CP-256QAM	M	Outer_Full	8.587	9.240	PASS
N77-3450-3550	30	15	DFT-QPSK	M	Outer_Full	12.879	13.680	PASS
N77-3450-3550	30	15	DFT-PI2BPSK	M	Outer_Full	12.855	13.680	PASS
N77-3450-3550	30	15	DFT-16QAM	M	Outer_Full	12.872	13.590	PASS
N77-3450-3550	30	15	DFT-64QAM	M	Outer_Full	12.871	13.650	PASS
N77-3450-3550	30	15	DFT-256QAM	M	Outer_Full	12.794	13.560	PASS
N77-3450-3550	30	15	CP-QPSK	M	Outer_Full	13.549	14.400	PASS
N77-3450-3550	30	15	CP-16QAM	M	Outer_Full	13.608	14.340	PASS
N77-3450-3550	30	15	CP-64QAM	M	Outer_Full	13.579	14.400	PASS
N77-3450-3550	30	15	CP-256QAM	M	Outer_Full	13.595	14.460	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	17.84	18.720	PASS
N77-3450-3550	30	20	DFT-PI2BPSK	M	Outer_Full	17.89	18.800	PASS
N77-3450-3550	30	20	DFT-16QAM	M	Outer_Full	17.822	18.800	PASS
N77-3450-3550	30	20	DFT-64QAM	M	Outer_Full	17.771	18.520	PASS
N77-3450-3550	30	20	DFT-256QAM	M	Outer_Full	17.744	18.680	PASS
N77-3450-3550	30	20	CP-QPSK	M	Outer_Full	18.157	19.160	PASS
N77-3450-3550	30	20	CP-16QAM	M	Outer_Full	18.259	19.000	PASS
N77-3450-3550	30	20	CP-64QAM	M	Outer_Full	18.279	18.960	PASS
N77-3450-3550	30	20	CP-256QAM	M	Outer_Full	18.129	19.120	PASS
N77-3450-3550	30	25	DFT-QPSK	M	Outer_Full	22.852	23.900	PASS
N77-3450-3550	30	25	DFT-PI2BPSK	M	Outer_Full	22.832	24.000	PASS
N77-3450-3550	30	25	DFT-16QAM	M	Outer_Full	22.887	24.100	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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

N77-3450-3550	30	25	DFT-64QAM	M	Outer_Full	22.859	24.000	PASS
N77-3450-3550	30	25	DFT-256QAM	M	Outer_Full	22.872	23.850	PASS
N77-3450-3550	30	25	CP-QPSK	M	Outer_Full	23.213	24.300	PASS
N77-3450-3550	30	25	CP-16QAM	M	Outer_Full	23.156	24.300	PASS
N77-3450-3550	30	25	CP-64QAM	M	Outer_Full	23.245	24.500	PASS
N77-3450-3550	30	25	CP-256QAM	M	Outer_Full	23.27	24.300	PASS
N77-3450-3550	30	30	DFT-QPSK	M	Outer_Full	26.749	28.260	PASS
N77-3450-3550	30	30	DFT-PI2BPSK	M	Outer_Full	26.866	27.900	PASS
N77-3450-3550	30	30	DFT-16QAM	M	Outer_Full	26.811	28.140	PASS
N77-3450-3550	30	30	DFT-64QAM	M	Outer_Full	26.824	28.020	PASS
N77-3450-3550	30	30	DFT-256QAM	M	Outer_Full	26.679	28.200	PASS
N77-3450-3550	30	30	CP-QPSK	M	Outer_Full	27.853	29.040	PASS
N77-3450-3550	30	30	CP-16QAM	M	Outer_Full	27.859	29.220	PASS
N77-3450-3550	30	30	CP-64QAM	M	Outer_Full	27.831	29.640	PASS
N77-3450-3550	30	30	CP-256QAM	M	Outer_Full	27.947	29.160	PASS
N77-3450-3550	30	40	DFT-QPSK	M	Outer_Full	35.814	38.000	PASS
N77-3450-3550	30	40	DFT-PI2BPSK	M	Outer_Full	35.93	37.280	PASS
N77-3450-3550	30	40	DFT-16QAM	M	Outer_Full	35.905	37.280	PASS
N77-3450-3550	30	40	DFT-64QAM	M	Outer_Full	35.794	37.440	PASS
N77-3450-3550	30	40	DFT-256QAM	M	Outer_Full	35.695	38.240	PASS
N77-3450-3550	30	40	CP-QPSK	M	Outer_Full	37.795	39.600	PASS
N77-3450-3550	30	40	CP-16QAM	M	Outer_Full	37.962	39.680	PASS
N77-3450-3550	30	40	CP-64QAM	M	Outer_Full	37.76	39.440	PASS
N77-3450-3550	30	40	CP-256QAM	M	Outer_Full	37.785	39.680	PASS
N77-3450-3550	30	50	DFT-QPSK	M	Outer_Full	45.567	48.200	PASS
N77-3450-3550	30	50	DFT-PI2BPSK	M	Outer_Full	45.815	47.400	PASS
N77-3450-3550	30	50	DFT-16QAM	M	Outer_Full	45.756	47.600	PASS
N77-3450-3550	30	50	DFT-64QAM	M	Outer_Full	45.786	47.600	PASS
N77-3450-3550	30	50	DFT-256QAM	M	Outer_Full	45.656	47.600	PASS
N77-3450-3550	30	50	CP-QPSK	M	Outer_Full	47.377	49.400	PASS
N77-3450-3550	30	50	CP-16QAM	M	Outer_Full	47.454	49.300	PASS
N77-3450-3550	30	50	CP-64QAM	M	Outer_Full	47.45	49.200	PASS
N77-3450-3550	30	50	CP-256QAM	M	Outer_Full	47.426	49.200	PASS
N77-3450-3550	30	60	DFT-QPSK	M	Outer_Full	57.881	59.640	PASS
N77-3450-3550	30	60	DFT-PI2BPSK	M	Outer_Full	57.894	59.640	PASS
N77-3450-3550	30	60	DFT-16QAM	M	Outer_Full	57.718	59.760	PASS
N77-3450-3550	30	60	DFT-64QAM	M	Outer_Full	57.815	59.640	PASS
N77-3450-3550	30	60	DFT-256QAM	M	Outer_Full	57.889	59.640	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
 South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



N77-3450-3550	30	60	CP-QPSK	M	Outer_Full	57.665	59.640	PASS
N77-3450-3550	30	60	CP-16QAM	M	Outer_Full	57.612	59.640	PASS
N77-3450-3550	30	60	CP-64QAM	M	Outer_Full	57.692	59.760	PASS
N77-3450-3550	30	60	CP-256QAM	M	Outer_Full	57.69	59.520	PASS
N77-3450-3550	30	70	DFT-QPSK	M	Outer_Full	64.214	66.220	PASS
N77-3450-3550	30	70	DFT-PI2BPSK	M	Outer_Full	64.081	66.220	PASS
N77-3450-3550	30	70	DFT-16QAM	M	Outer_Full	64.016	66.360	PASS
N77-3450-3550	30	70	DFT-64QAM	M	Outer_Full	64.24	66.220	PASS
N77-3450-3550	30	70	DFT-256QAM	M	Outer_Full	64.469	66.220	PASS
N77-3450-3550	30	70	CP-QPSK	M	Outer_Full	67.399	69.580	PASS
N77-3450-3550	30	70	CP-16QAM	M	Outer_Full	67.416	69.580	PASS
N77-3450-3550	30	70	CP-64QAM	M	Outer_Full	67.426	69.580	PASS
N77-3450-3550	30	70	CP-256QAM	M	Outer_Full	67.415	69.440	PASS
N77-3450-3550	30	80	DFT-QPSK	M	Outer_Full	76.873	80.160	PASS
N77-3450-3550	30	80	DFT-PI2BPSK	M	Outer_Full	77.014	80.160	PASS
N77-3450-3550	30	80	DFT-16QAM	M	Outer_Full	77.269	81.320	PASS
N77-3450-3550	30	80	DFT-64QAM	M	Outer_Full	76.979	80.000	PASS
N77-3450-3550	30	80	DFT-256QAM	M	Outer_Full	77.076	80.000	PASS
N77-3450-3550	30	80	CP-QPSK	M	Outer_Full	77.424	80.640	PASS
N77-3450-3550	30	80	CP-16QAM	M	Outer_Full	77.506	80.640	PASS
N77-3450-3550	30	80	CP-64QAM	M	Outer_Full	77.433	80.640	PASS
N77-3450-3550	30	80	CP-256QAM	M	Outer_Full	77.636	80.960	PASS
N77-3450-3550	30	90	DFT-QPSK	M	Outer_Full	85.393	88.920	PASS
N77-3450-3550	30	90	DFT-PI2BPSK	M	Outer_Full	85.685	88.920	PASS
N77-3450-3550	30	90	DFT-16QAM	M	Outer_Full	85.778	88.920	PASS
N77-3450-3550	30	90	DFT-64QAM	M	Outer_Full	85.516	88.920	PASS
N77-3450-3550	30	90	DFT-256QAM	M	Outer_Full	85.861	88.920	PASS
N77-3450-3550	30	90	CP-QPSK	M	Outer_Full	87.508	90.720	PASS
N77-3450-3550	30	90	CP-16QAM	M	Outer_Full	87.338	90.720	PASS
N77-3450-3550	30	90	CP-64QAM	M	Outer_Full	87.478	90.900	PASS
N77-3450-3550	30	90	CP-256QAM	M	Outer_Full	87.345	90.540	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Outer_Full	96.116	99.800	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	96.575	99.800	PASS
N77-3450-3550	30	100	DFT-16QAM	M	Outer_Full	96.53	99.800	PASS
N77-3450-3550	30	100	DFT-64QAM	M	Outer_Full	96.159	99.800	PASS
N77-3450-3550	30	100	DFT-256QAM	M	Outer_Full	96.215	99.800	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	97.352	100.800	PASS
N77-3450-3550	30	100	CP-16QAM	M	Outer_Full	97.335	100.800	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
 South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



Report No.: SEWM2308000313RG02

Rev.: 01

Page: 12 of 72

N77-3450-3550	30	100	CP-64QAM	M	Outer_Full	97.428	100.800	PASS
N77-3450-3550	30	100	CP-256QAM	M	Outer_Full	97.463	101.000	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

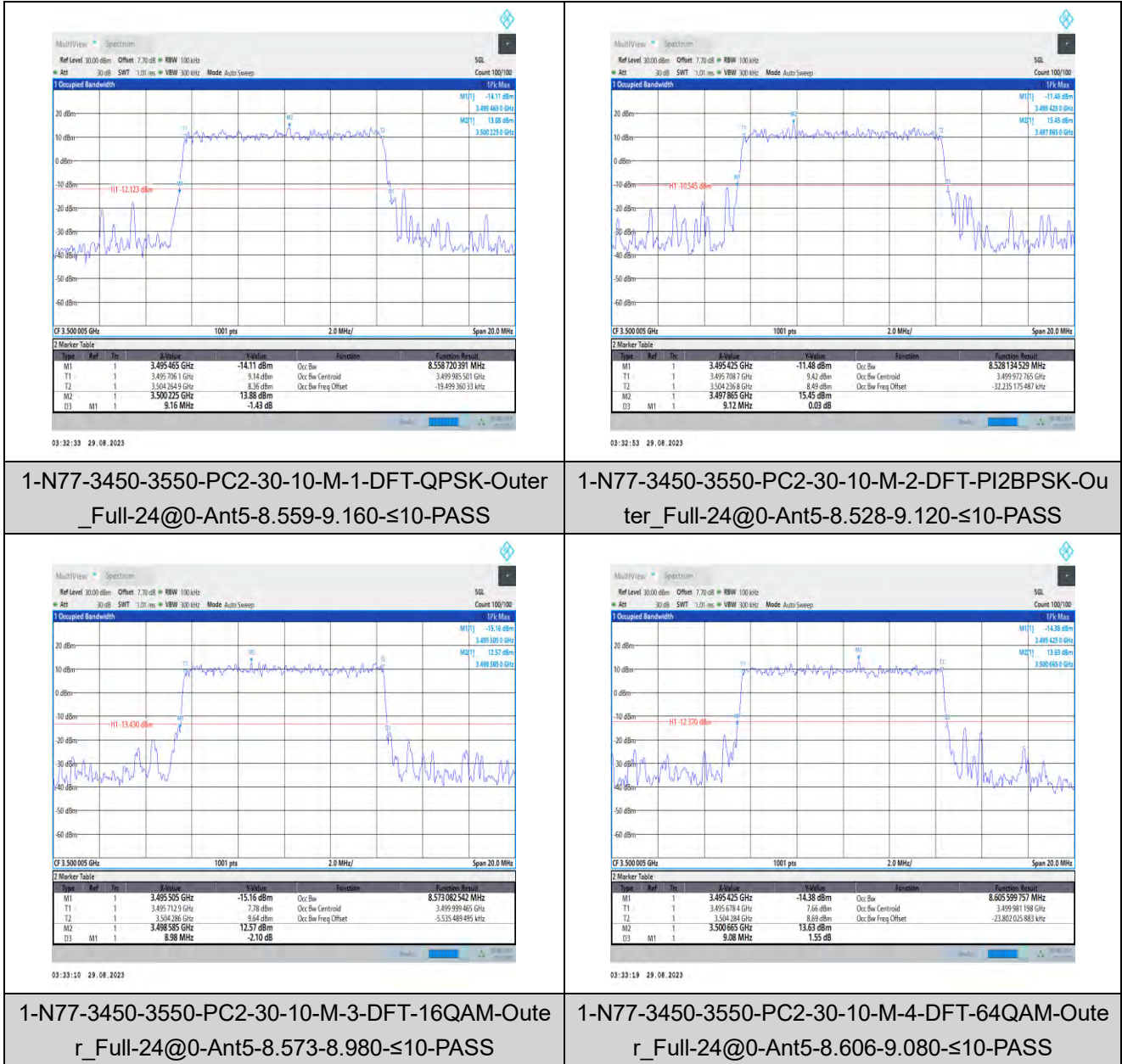
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

t (86-512) 62992980 www.sgs.com.cn

中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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

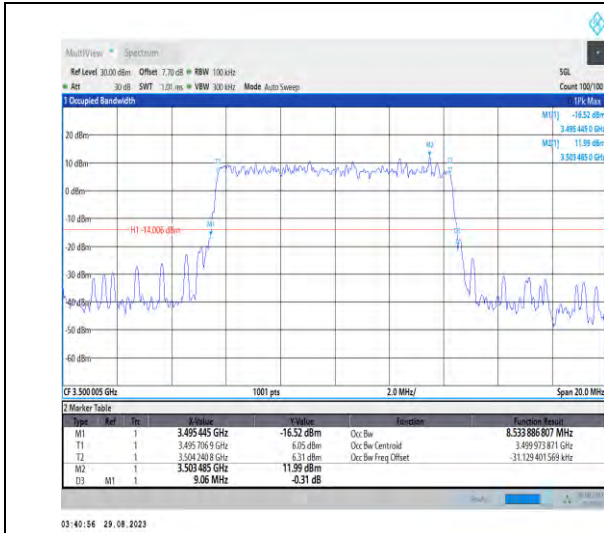
Test Graphs



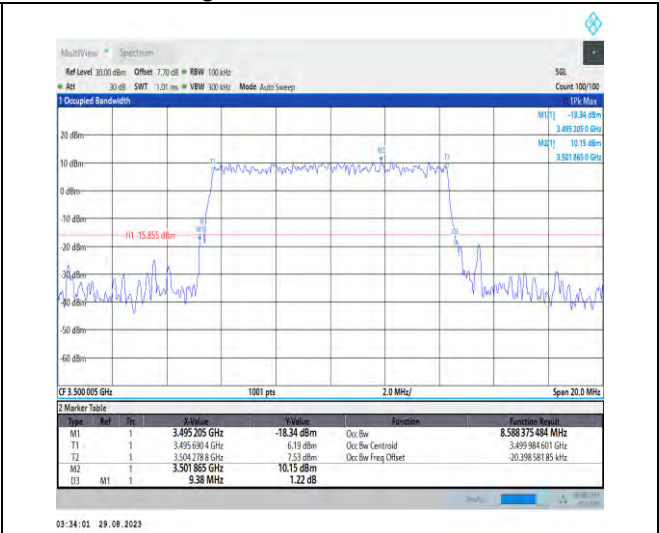
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



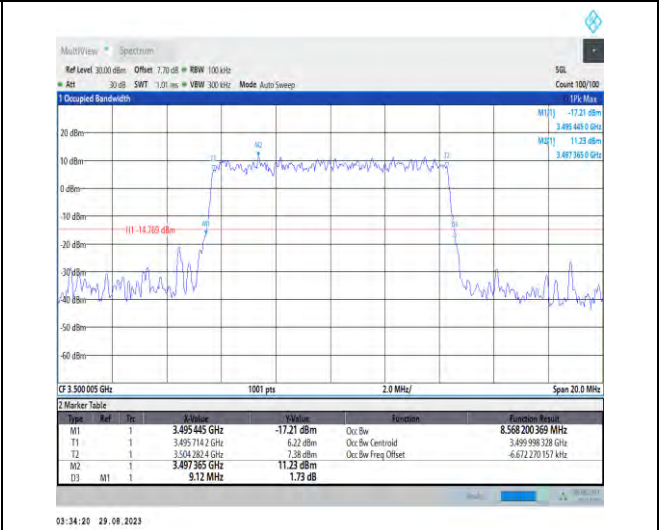
1-N77-3450-3550-PC2-30-10-M-5-DFT-256QAM-Out
_Full-24@0-Ant5-8.534-9.060-≤10-PASS



1-N77-3450-3550-PC2-30-10-M-6-CP-QPSK-Outer
_Full-24@0-Ant5-8.588-9.380-≤10-PASS



1-N77-3450-3550-PC2-30-10-M-7-CP-16QAM-Outer
_Full-24@0-Ant5-8.594-9.200-≤10-PASS



1-N77-3450-3550-PC2-30-10-M-8-CP-64QAM-Outer
_Full-24@0-Ant5-8.568-9.120-≤10-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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

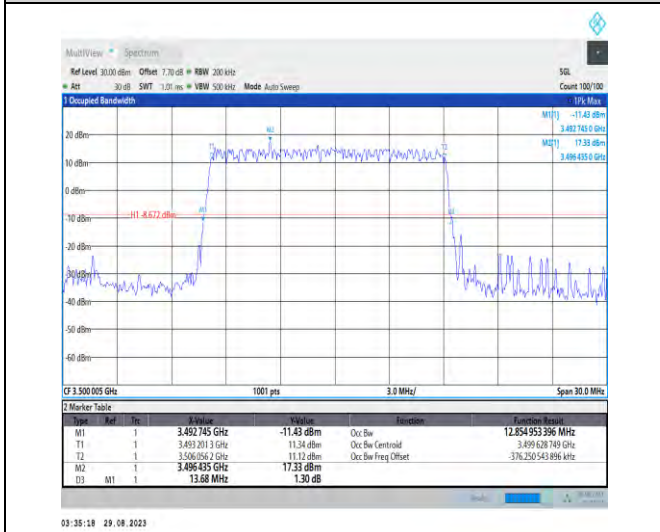
t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-10-M-9-CP-256QAM-Outer_Full-24@0-Ant5-8.587-9.240-≤10-PASS



1-N77-3450-3550-PC2-30-15-M-1-DFT-QPSK-Outer_Full-36@0-Ant5-12.879-13.680-≤15-PASS



1-N77-3450-3550-PC2-30-15-M-2-DFT-PI2BPSK-Outer_Full-36@0-Ant5-12.855-13.680-≤15-PASS



1-N77-3450-3550-PC2-30-15-M-3-DFT-16QAM-Outer_Full-36@0-Ant5-12.872-13.590-≤15-PASS

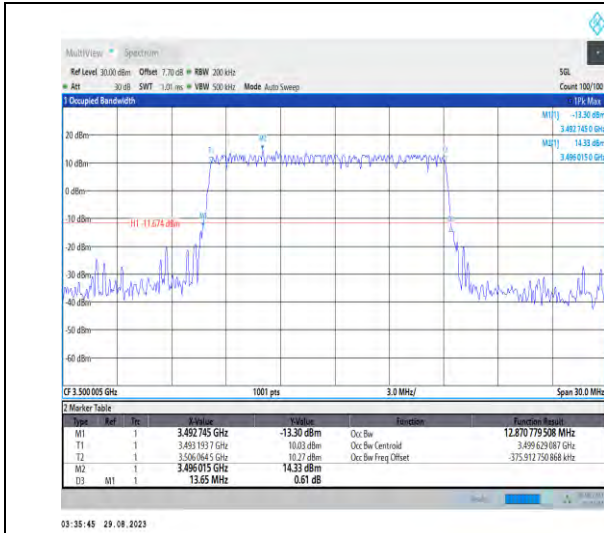


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

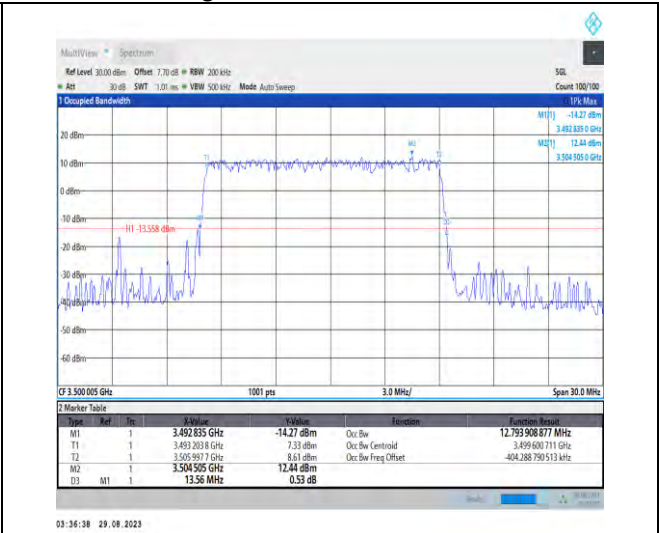
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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



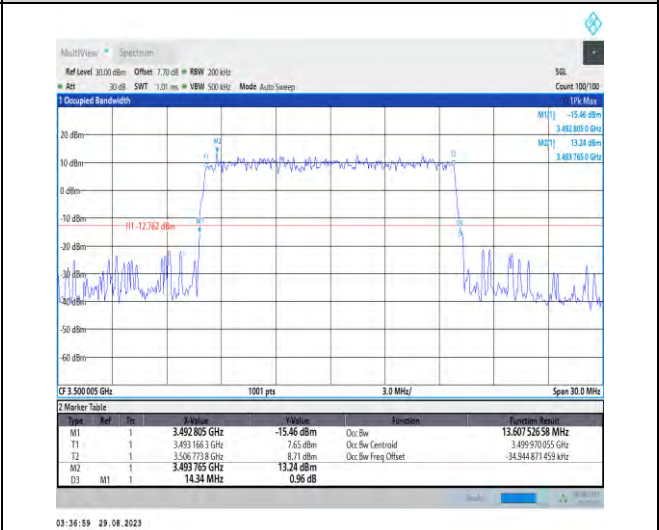
1-N77-3450-3550-PC2-30-15-M-4-DFT-64QAM-Outer_Full-36@0-Ant5-12.871-13.650-≤15-PASS



1-N77-3450-3550-PC2-30-15-M-5-DFT-256QAM-Outer_Full-36@0-Ant5-12.794-13.560-≤15-PASS



1-N77-3450-3550-PC2-30-15-M-6-CP-QPSK-Outer_Full-38@0-Ant5-13.549-14.400-≤15-PASS



1-N77-3450-3550-PC2-30-15-M-7-CP-16QAM-Outer_Full-38@0-Ant5-13.608-14.340-≤15-PASS

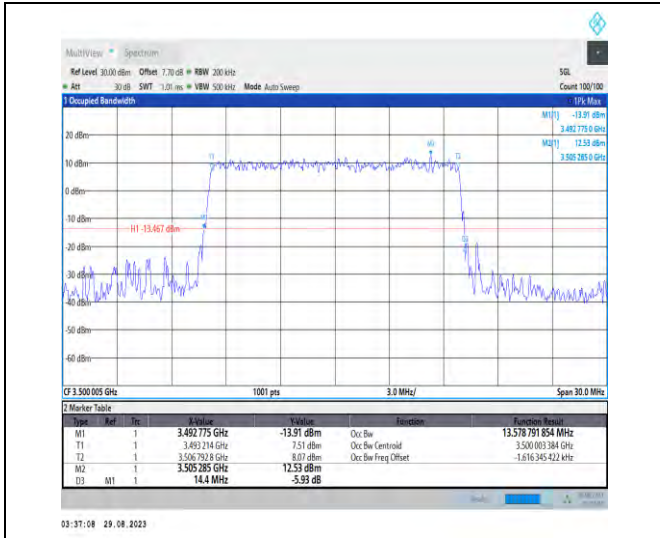


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

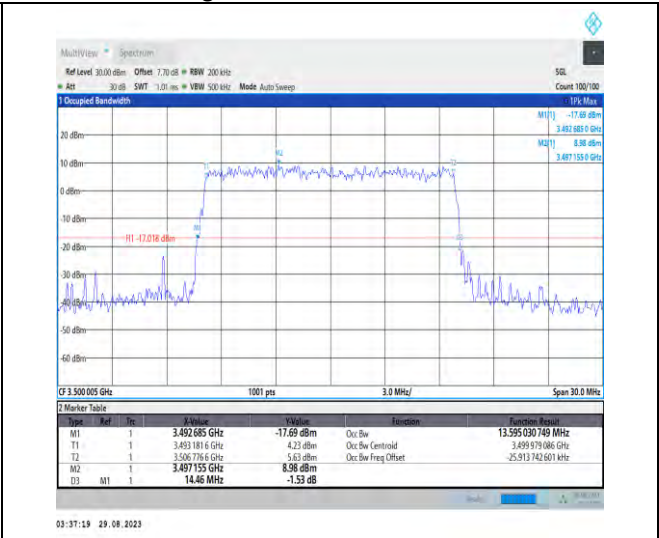
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

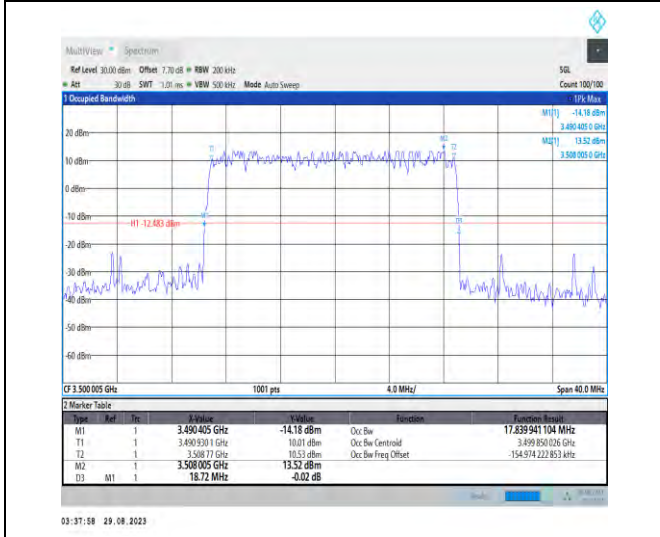
t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com



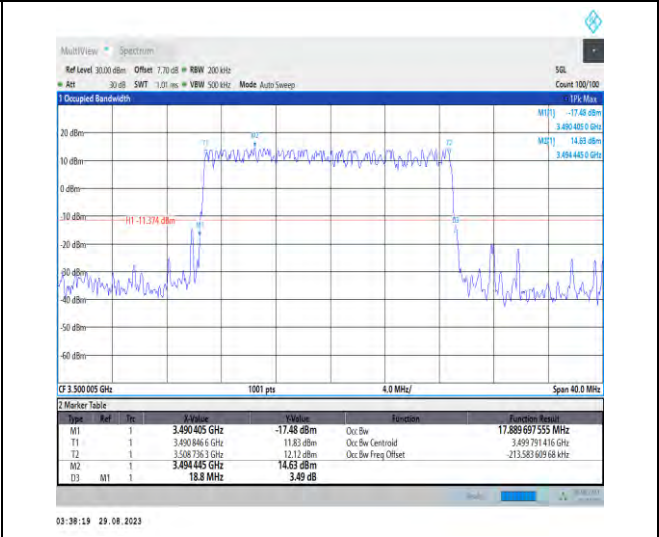
1-N77-3450-3550-PC2-30-15-M-8-CP-64QAM-Outer_Full-38@0-Ant5-13.579-14.400-≤15-PASS



1-N77-3450-3550-PC2-30-15-M-9-CP-256QAM-Outer_Full-38@0-Ant5-13.595-14.460-≤15-PASS



1-N77-3450-3550-PC2-30-20-M-1-DFT-QPSK-Outer_Full-50@0-Ant5-17.84-18.720-≤20-PASS



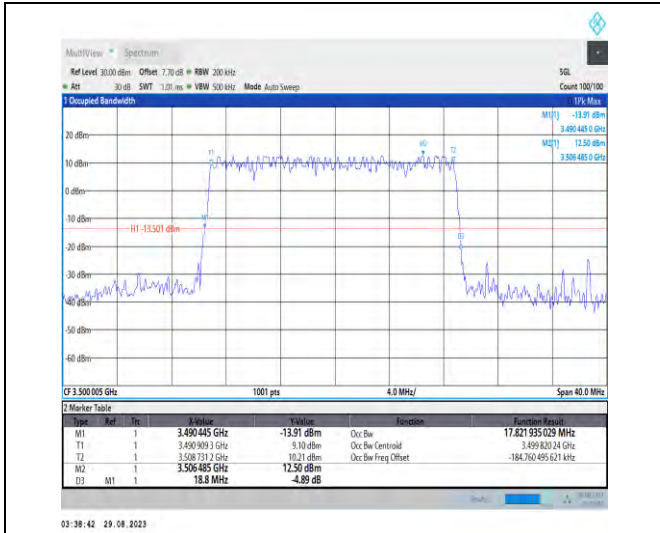
1-N77-3450-3550-PC2-30-20-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant5-17.89-18.800-≤20-PASS



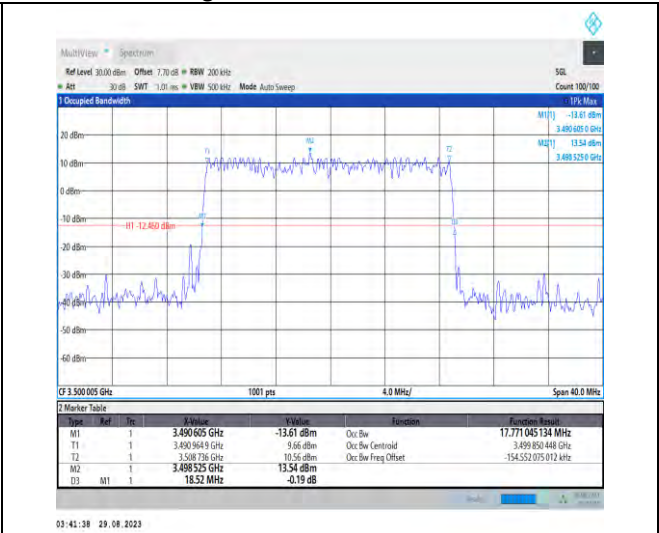
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 83071443, or email: CN.Doccheck@sgs.com

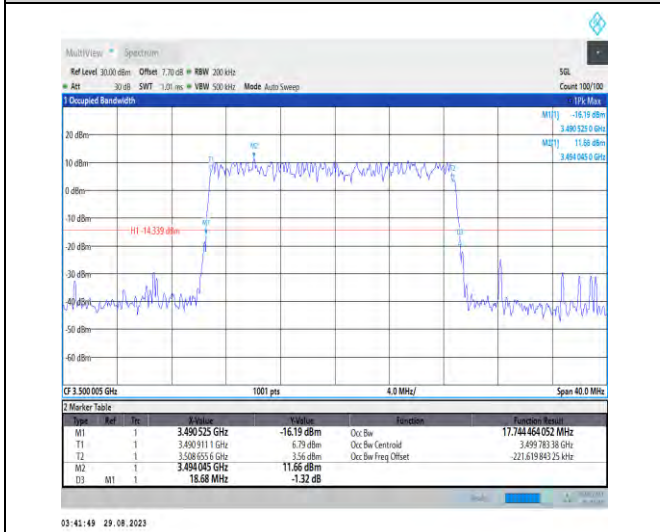
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



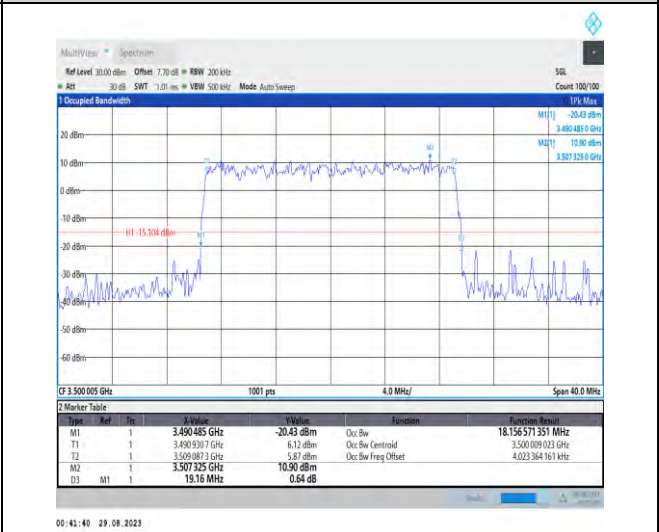
1-N77-3450-3550-PC2-30-20-M-3-DFT-16QAM-Outer_Full-50@0-Ant5-17.822-18.800-≤20-PASS



1-N77-3450-3550-PC2-30-20-M-4-DFT-64QAM-Outer_Full-50@0-Ant5-17.771-18.520-≤20-PASS



1-N77-3450-3550-PC2-30-20-M-5-DFT-256QAM-Outer_Full-50@0-Ant5-17.744-18.680-≤20-PASS



1-N77-3450-3550-PC2-30-20-M-6-CP-QPSK-Outer_Full-51@0-Ant5-18.157-19.160-≤20-PASS

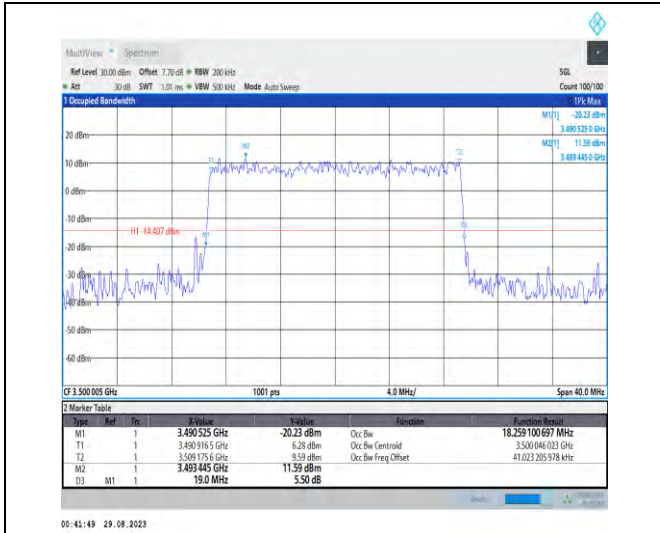


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

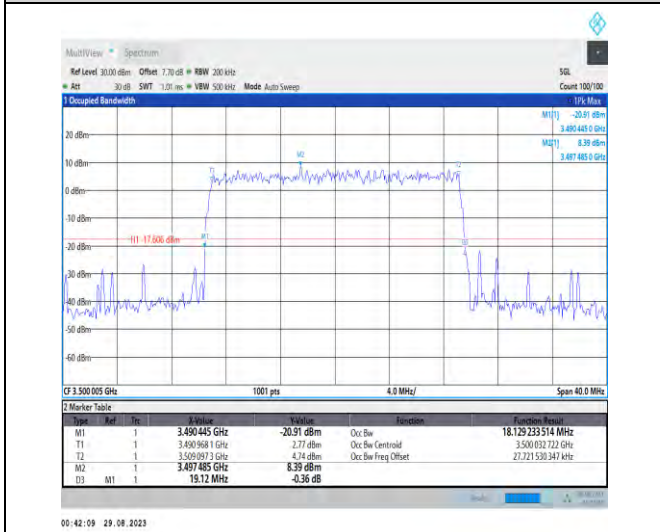
t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-20-M-7-CP-16QAM-Outer_Full-51@0-Ant5-18.259-19.000-≤20-PASS



1-N77-3450-3550-PC2-30-20-M-8-CP-64QAM-Outer_Full-51@0-Ant5-18.279-18.960-≤20-PASS



1-N77-3450-3550-PC2-30-20-M-9-CP-256QAM-Outer_Full-51@0-Ant5-18.129-19.120-≤20-PASS



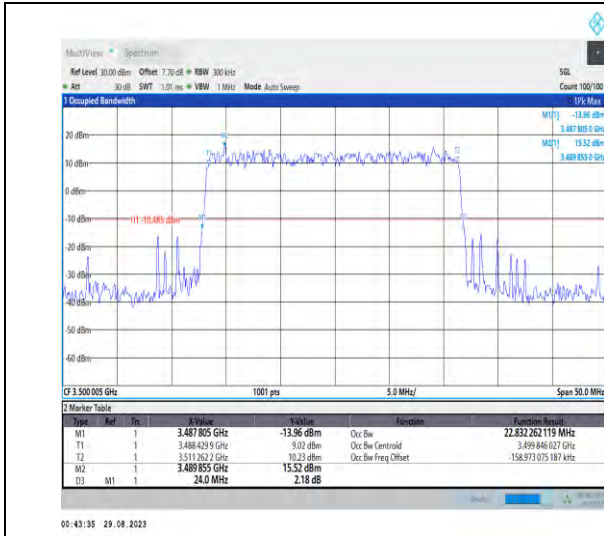
1-N77-3450-3550-PC2-30-25-M-1-DFT-QPSK-Outer_Full-64@0-Ant5-22.852-23.900-≤25-PASS



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) 83071443, or email: CN.Doccheck@sgs.com

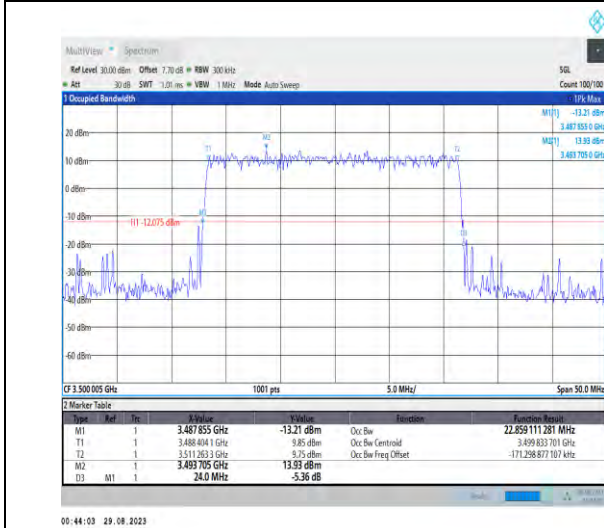
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



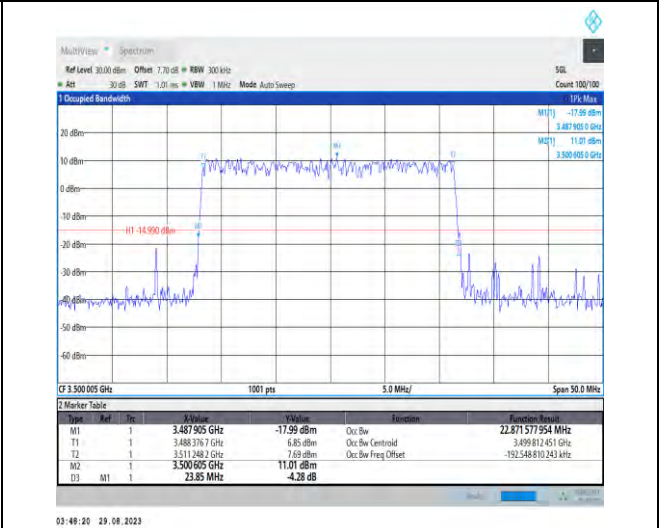
1-N77-3450-3550-PC2-30-25-M-2-DFT-PI2BPSK-Outer_Full-64@0-Ant5-22.832-24.000-≤25-PASS



1-N77-3450-3550-PC2-30-25-M-3-DFT-16QAM-Outer_Full-64@0-Ant5-22.887-24.100-≤25-PASS



1-N77-3450-3550-PC2-30-25-M-4-DFT-64QAM-Outer_Full-64@0-Ant5-22.859-24.000-≤25-PASS



1-N77-3450-3550-PC2-30-25-M-5-DFT-256QAM-Outer_Full-64@0-Ant5-22.872-23.850-≤25-PASS

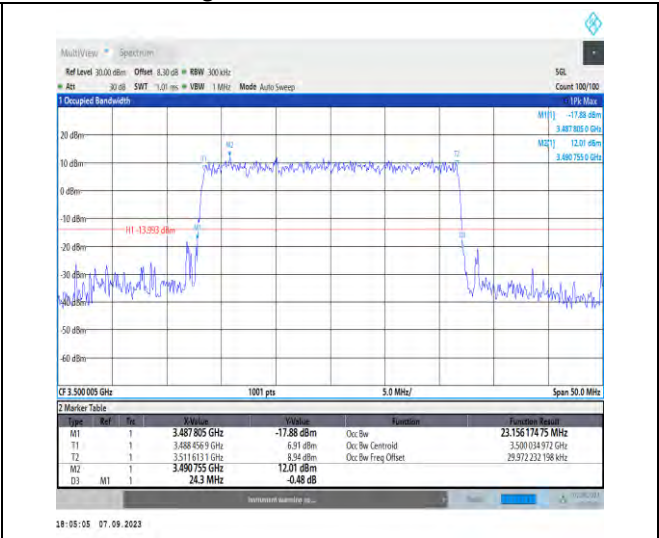
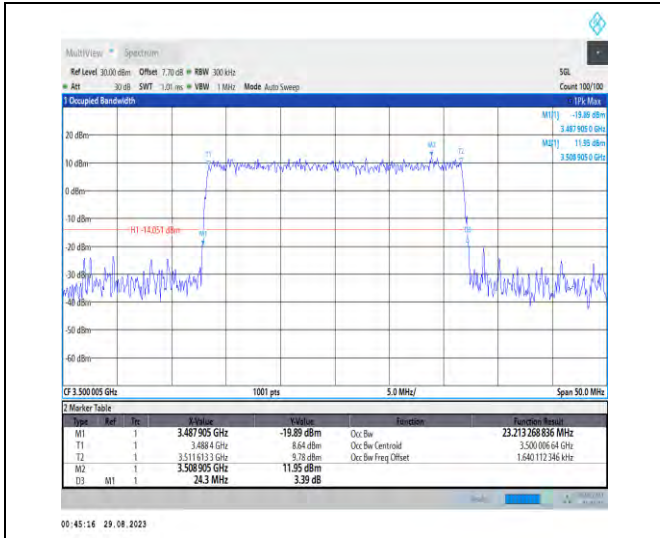


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

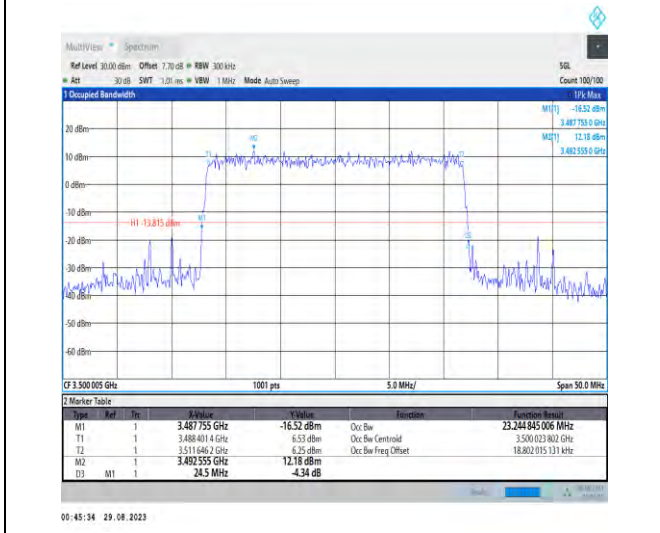
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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



1-N77-3450-3550-PC2-30-25-M-6-CP-QPSK-Outer_Full-65@0-Ant5-23.213-24.300-≤25-PASS

1-N77-3450-3550-PC2-30-25-M-7-CP-16QAM-Outer_Full-65@0-Ant5-23.156-24.30-≤25-PASS



1-N77-3450-3550-PC2-30-25-M-8-CP-64QAM-Outer_Full-65@0-Ant5-23.245-24.500-≤25-PASS

1-N77-3450-3550-PC2-30-25-M-9-CP-256QAM-Outer_Full-65@0-Ant5-23.27-24.300-≤25-PASS



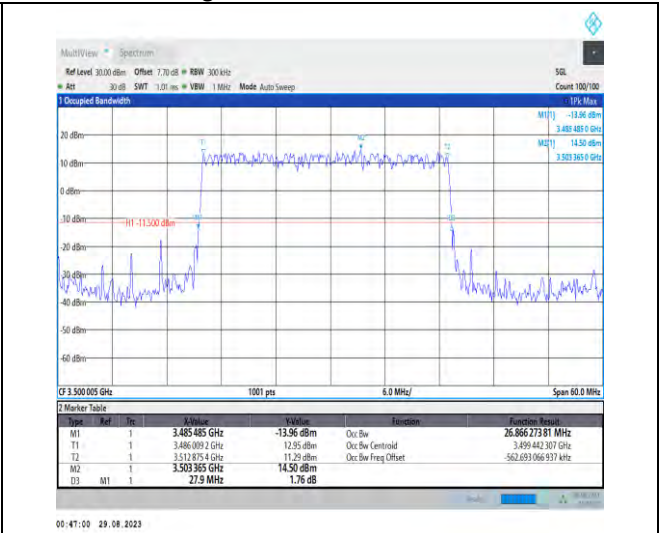
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 83071443, or email: CN.Doccheck@sgs.com

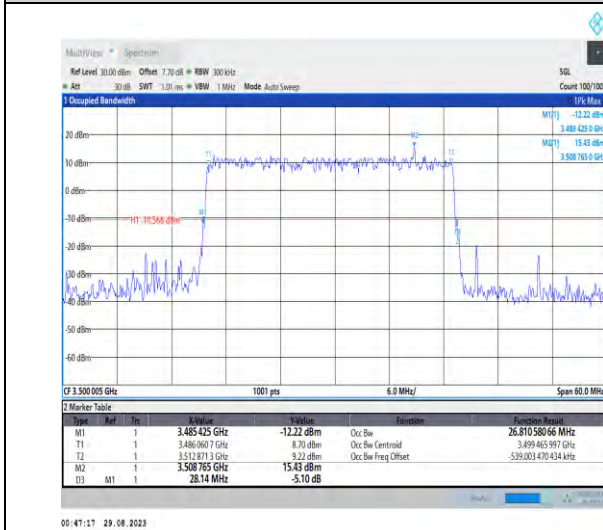
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-30-M-1-DFT-QPSK-Outer_Full-75@0-Ant5-26.749-28.260-≤30-PASS



1-N77-3450-3550-PC2-30-30-M-2-DFT-PI2BPSK-Outer_Full-75@0-Ant5-26.866-27.900-≤30-PASS



1-N77-3450-3550-PC2-30-30-M-3-DFT-16QAM-Outer_Full-75@0-Ant5-26.811-28.140-≤30-PASS



1-N77-3450-3550-PC2-30-30-M-4-DFT-64QAM-Outer_Full-75@0-Ant5-26.824-28.020-≤30-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.

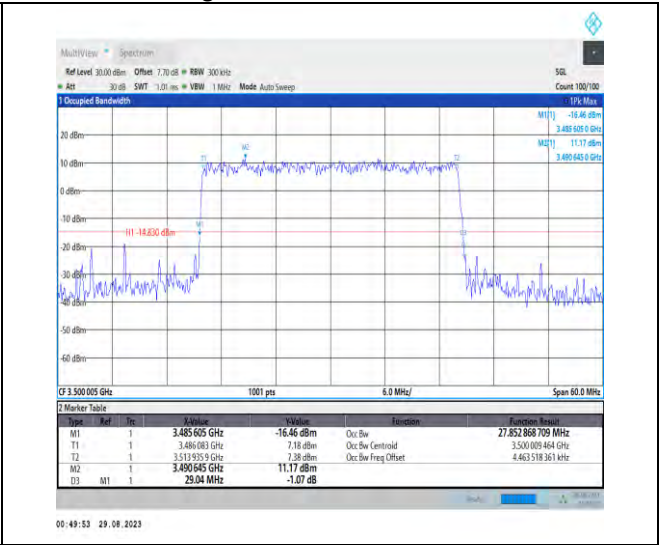
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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



1-N77-3450-3550-PC2-30-30-M-5-DFT-256QAM-Out
_Full-75@0-Ant5-26.679-28.20-≤30-PASS



1-N77-3450-3550-PC2-30-30-M-6-CP-QPSK-Outer
_Full-78@0-Ant5-27.853-29.040-≤30-PASS



1-N77-3450-3550-PC2-30-30-M-7-CP-16QAM-Outer
_Full-78@0-Ant5-27.859-29.220-≤30-PASS



1-N77-3450-3550-PC2-30-30-M-8-CP-64QAM-Outer
_Full-78@0-Ant5-27.831-29.640-≤30-PASS

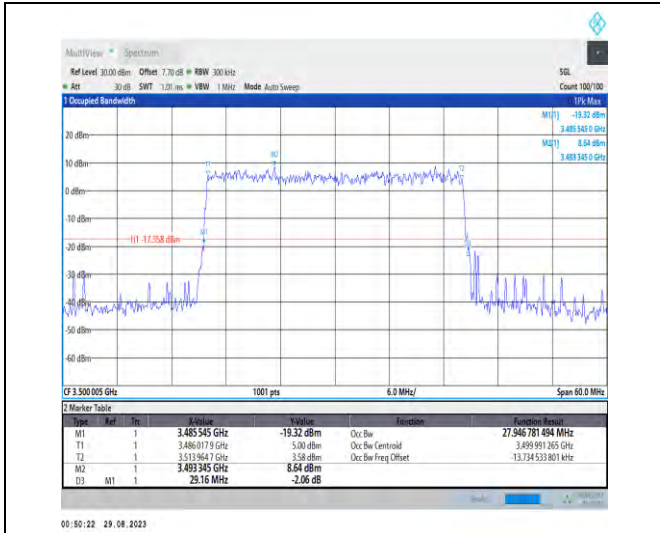


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

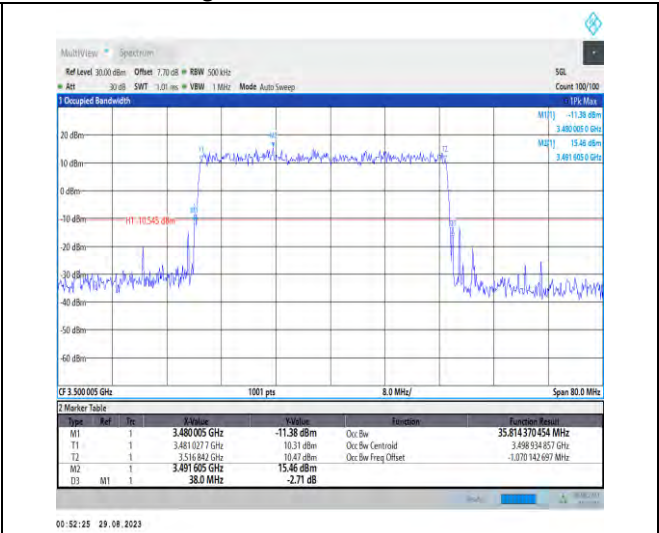
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

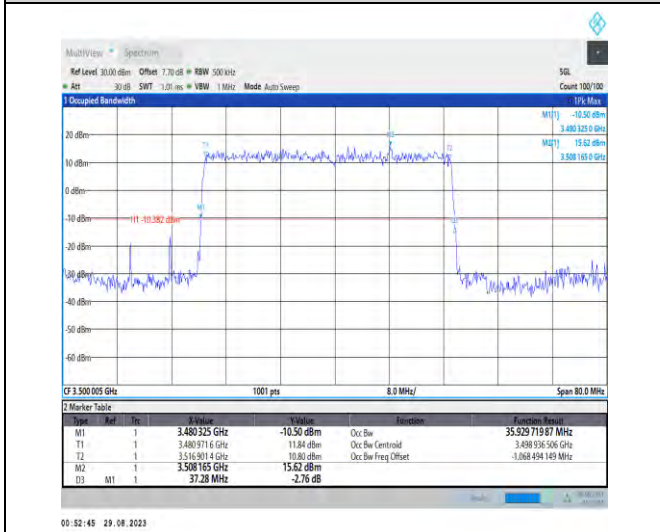
t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com



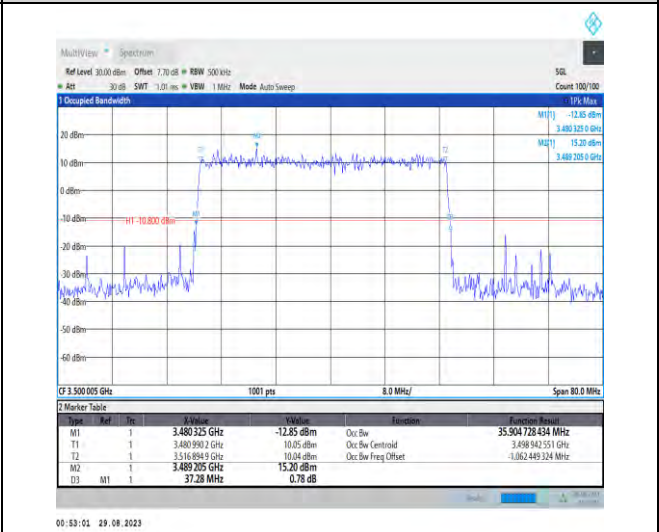
1-N77-3450-3550-PC2-30-30-M-9-CP-256QAM-Outer_Full-78@0-Ant5-27.947-29.160-≤30-PASS



1-N77-3450-3550-PC2-30-40-M-1-DFT-QPSK-Outer_Full-100@0-Ant5-35.814-38.000-≤40-PASS



1-N77-3450-3550-PC2-30-40-M-2-DFT-PI2BPSK-Outer_Full-100@0-Ant5-35.93-37.280-≤40-PASS



1-N77-3450-3550-PC2-30-40-M-3-DFT-16QAM-Outer_Full-100@0-Ant5-35.905-37.280-≤40-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.

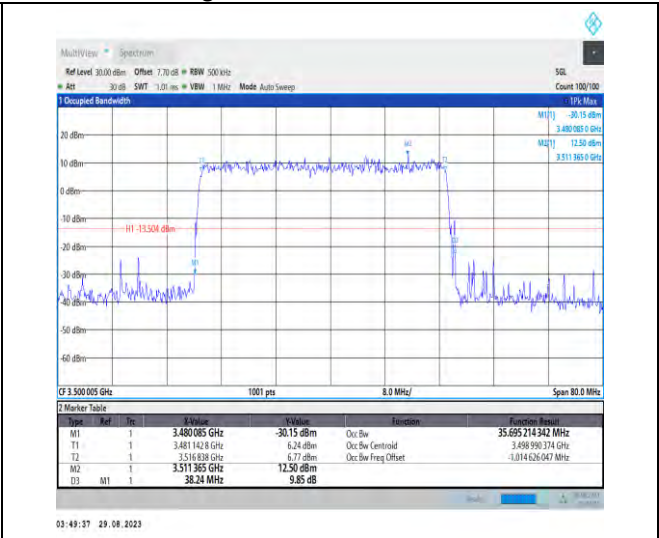
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

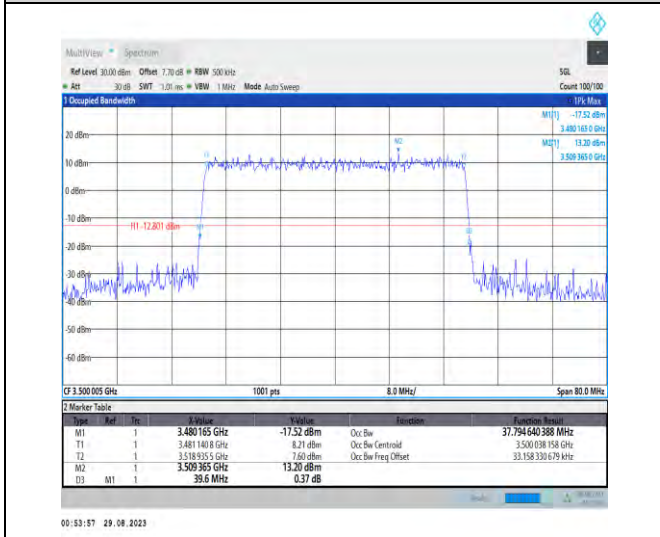
t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com



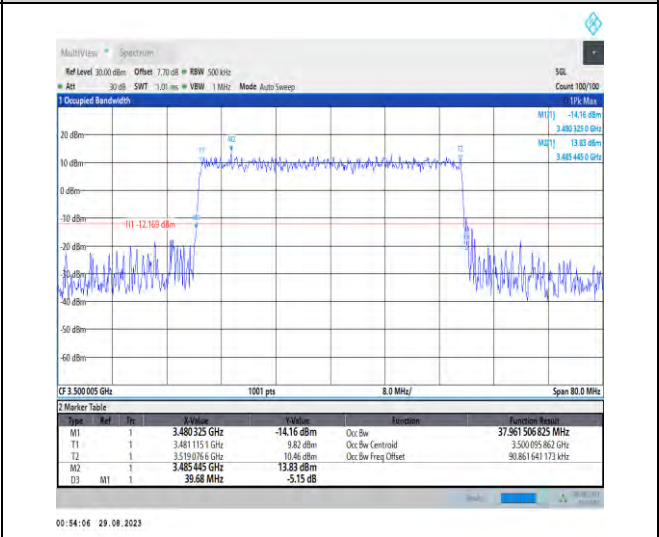
1-N77-3450-3550-PC2-30-40-M-4-DFT-64QAM-Outer_Full-100@0-Ant5-35.794-37.440-≤40-PASS



1-N77-3450-3550-PC2-30-40-M-5-DFT-256QAM-Outer_Full-100@0-Ant5-35.695-38.240-≤40-PASS



1-N77-3450-3550-PC2-30-40-M-6-CP-QPSK-Outer_Full-106@0-Ant5-37.795-39.600-≤40-PASS



1-N77-3450-3550-PC2-30-40-M-7-CP-16QAM-Outer_Full-106@0-Ant5-37.962-39.680-≤40-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.

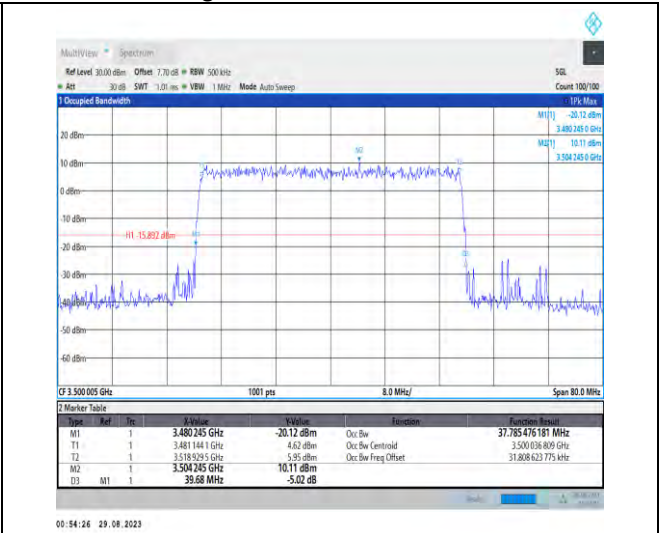
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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



1-N77-3450-3550-PC2-30-40-M-8-CP-64QAM-Outer_Full-106@0-Ant5-37.76-39.440-≤40-PASS



1-N77-3450-3550-PC2-30-40-M-9-CP-256QAM-Outer_Full-106@0-Ant5-37.785-39.680-≤40-PASS



1-N77-3450-3550-PC2-30-50-M-1-DFT-QPSK-Outer_Full-128@0-Ant5-45.567-48.200-≤50-PASS



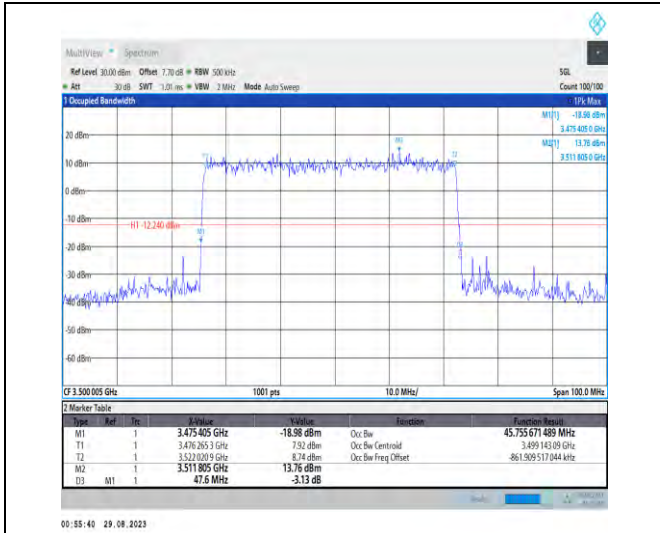
1-N77-3450-3550-PC2-30-50-M-2-DFT-PI2BPSK-Outer_Full-128@0-Ant5-45.815-47.400-≤50-PASS



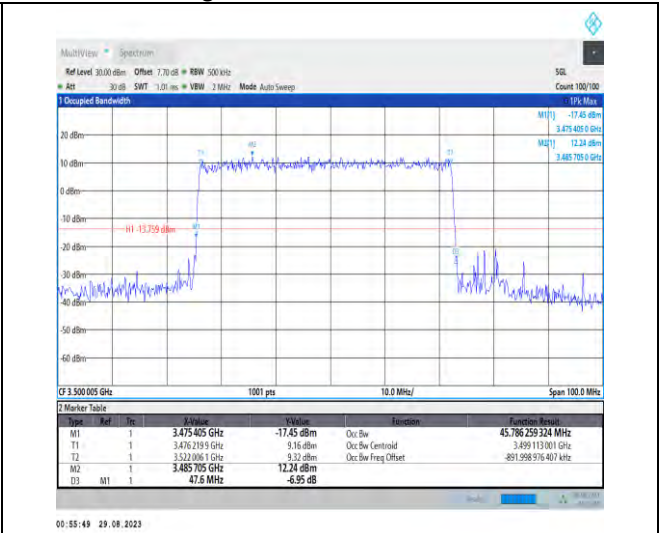
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 83071443, or email: CN.Doccheck@sgs.com

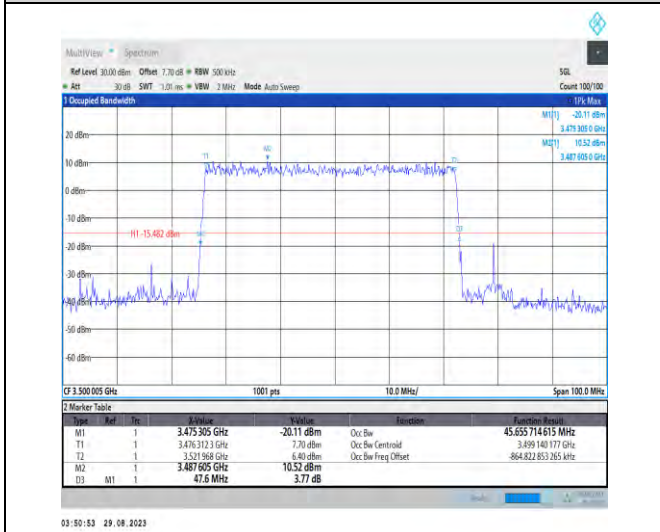
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



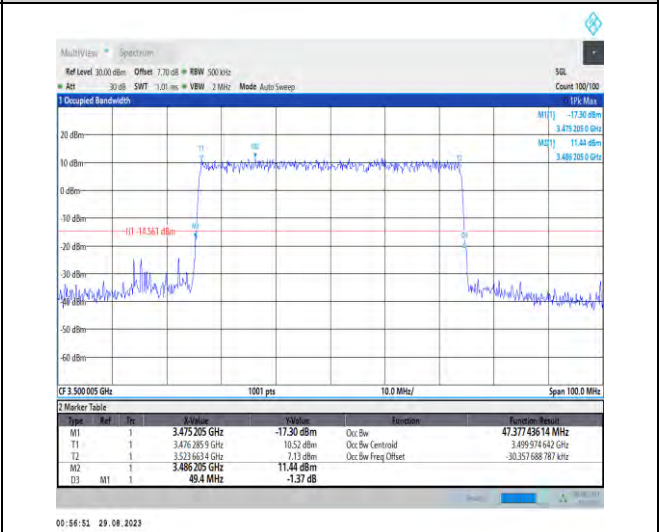
1-N77-3450-3550-PC2-30-50-M-3-DFT-16QAM-Outer_Full-128@0-Ant5-45.756-47.600-≤50-PASS



1-N77-3450-3550-PC2-30-50-M-4-DFT-64QAM-Outer_Full-128@0-Ant5-45.786-47.600-≤50-PASS



1-N77-3450-3550-PC2-30-50-M-5-DFT-256QAM-Outer_Full-128@0-Ant5-45.656-47.600-≤50-PASS



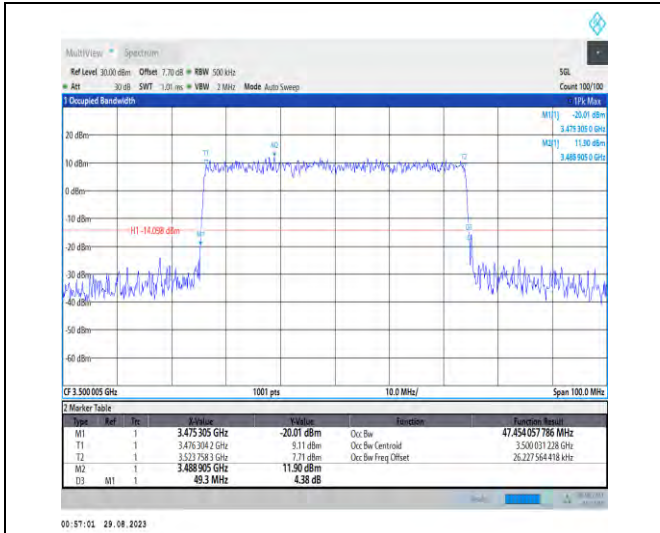
1-N77-3450-3550-PC2-30-50-M-6-CP-QPSK-Outer_Full-133@0-Ant5-47.377-49.400-≤50-PASS



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

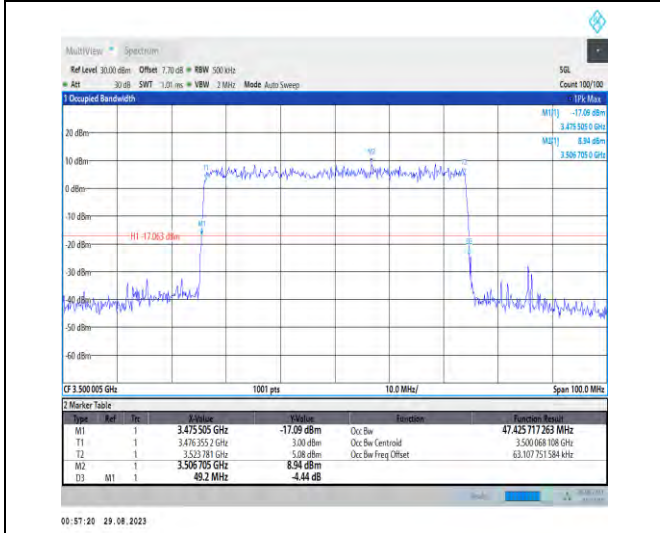
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南座 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



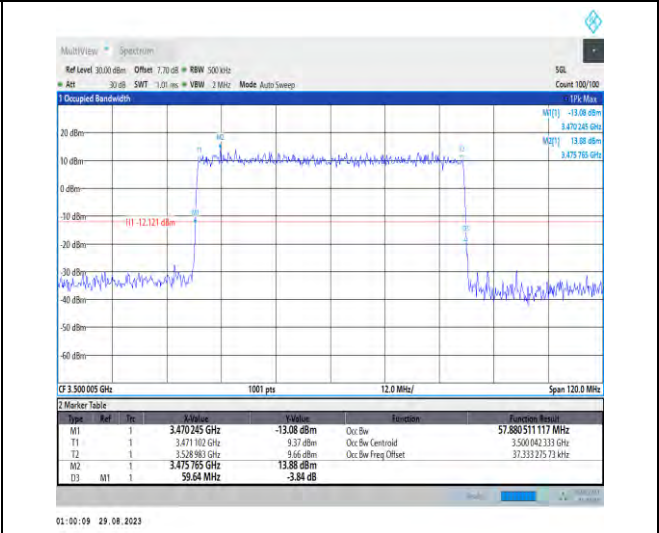
1-N77-3450-3550-PC2-30-50-M-7-CP-16QAM-Outer
_Full-133@0-Ant5-47.454-49.300-≤50-PASS



1-N77-3450-3550-PC2-30-50-M-8-CP-64QAM-Outer
_Full-133@0-Ant5-47.45-49.200-≤50-PASS



1-N77-3450-3550-PC2-30-50-M-9-CP-256QAM-Outer
_Full-133@0-Ant5-47.426-49.200-≤50-PASS



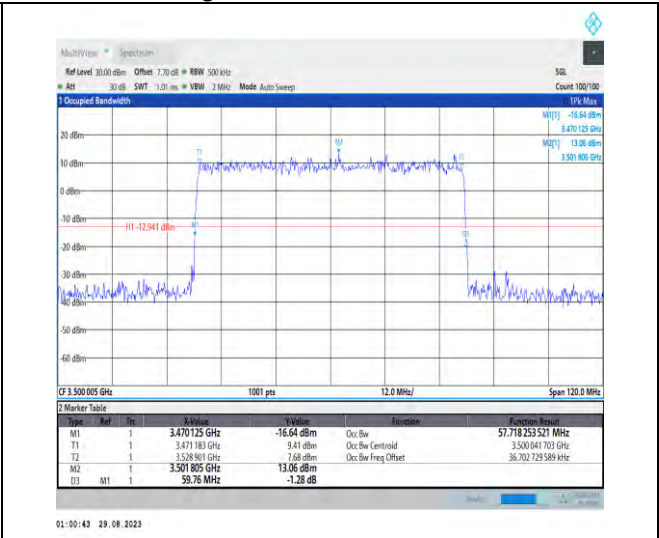
1-N77-3450-3550-PC2-30-60-M-1-DFT-QPSK-Outer
_Full-162@0-Ant5-57.881-59.640-≤60-PASS



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.

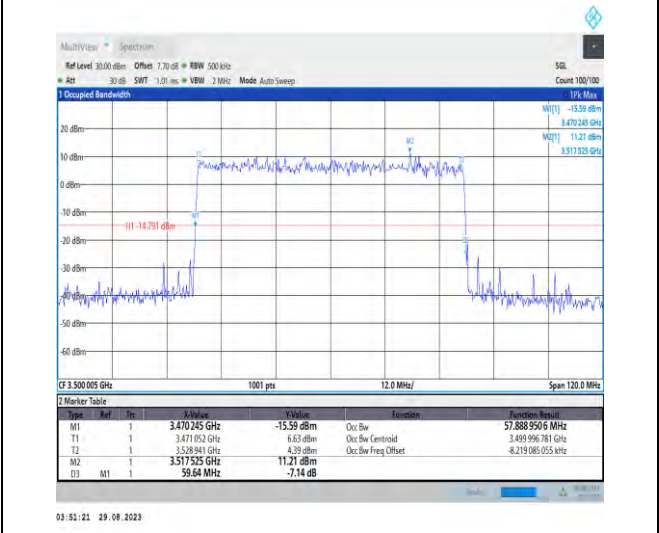
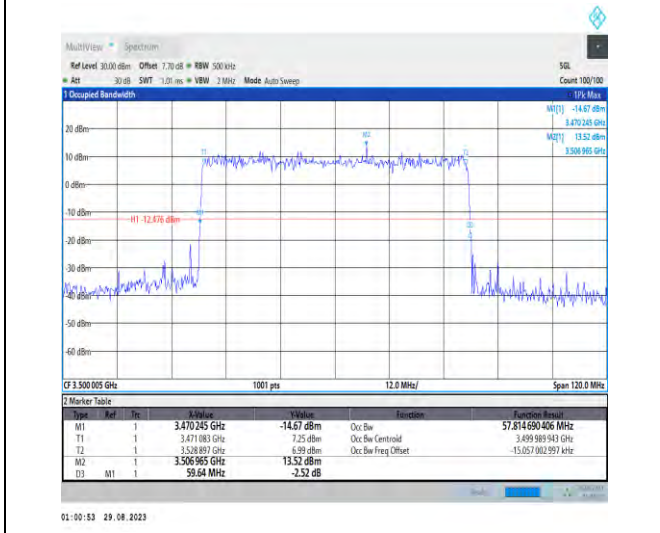
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南座 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-60-M-2-DFT-PI2BPSK-Outer_Full-162@0-Ant5-57.894-59.640-≤60-PASS

1-N77-3450-3550-PC2-30-60-M-3-DFT-16QAM-Outer_Full-162@0-Ant5-57.718-59.760-≤60-PASS



1-N77-3450-3550-PC2-30-60-M-4-DFT-64QAM-Outer_Full-162@0-Ant5-57.815-59.640-≤60-PASS

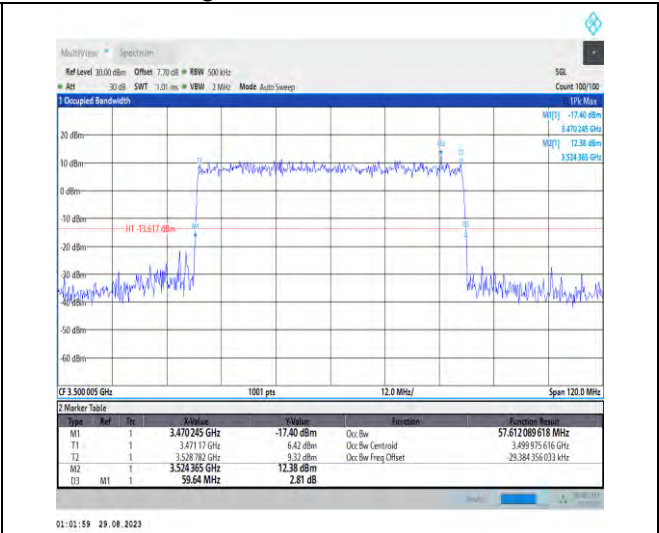
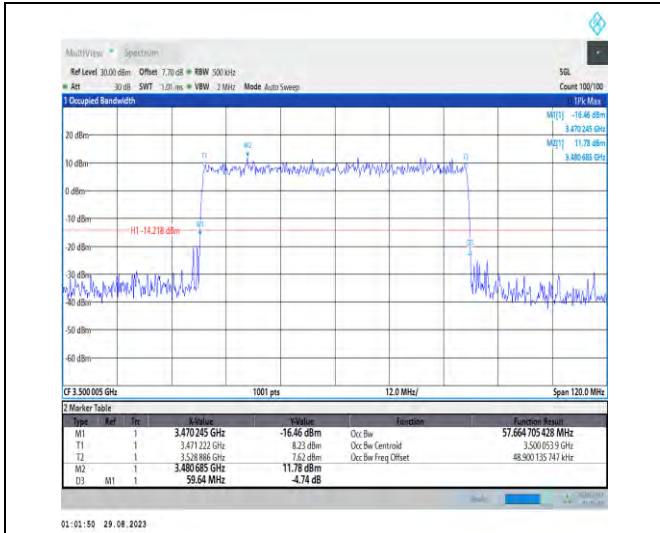
1-N77-3450-3550-PC2-30-60-M-5-DFT-256QAM-Outer_Full-162@0-Ant5-57.889-59.640-≤60-PASS



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.

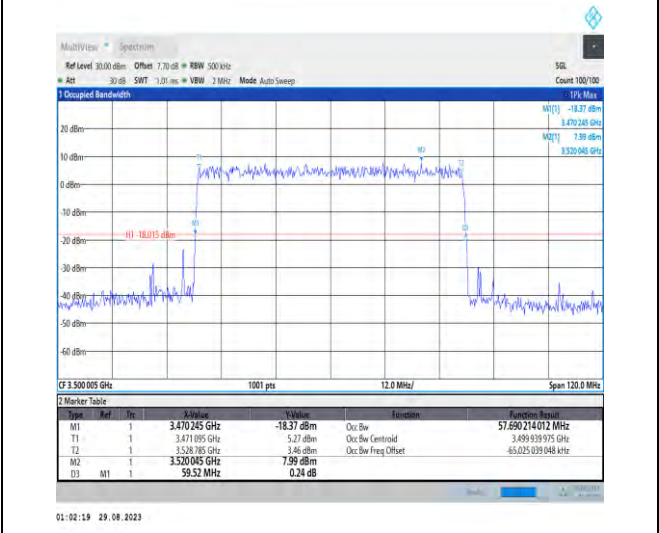
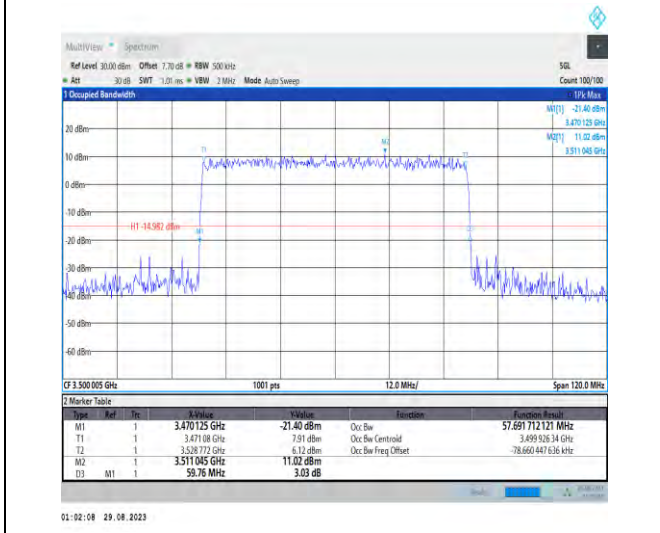
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-60-M-6-CP-QPSK-Outer_Full-162@0-Ant5-57.665-59.640-≤60-PASS

1-N77-3450-3550-PC2-30-60-M-7-CP-16QAM-Outer_Full-162@0-Ant5-57.612-59.640-≤60-PASS



1-N77-3450-3550-PC2-30-60-M-8-CP-64QAM-Outer_Full-162@0-Ant5-57.692-59.760-≤60-PASS

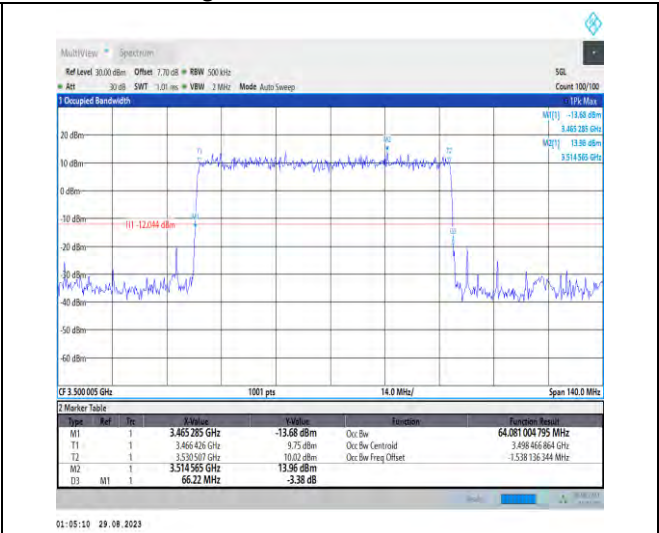
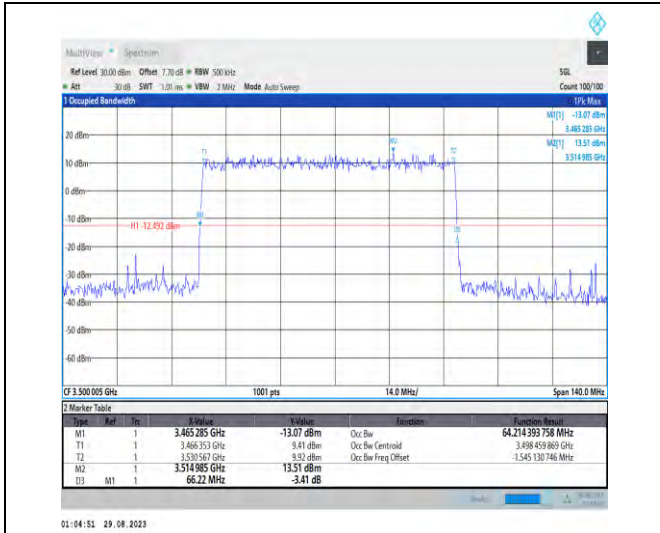
1-N77-3450-3550-PC2-30-60-M-9-CP-256QAM-Outer_Full-162@0-Ant5-57.69-59.520-≤60-PASS



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.

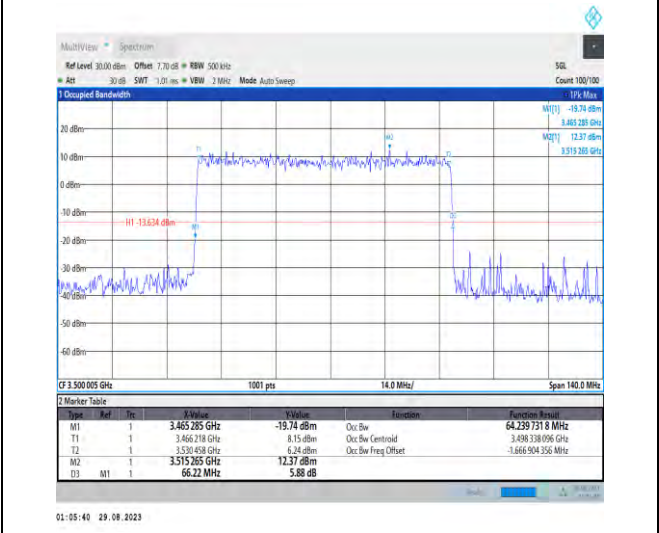
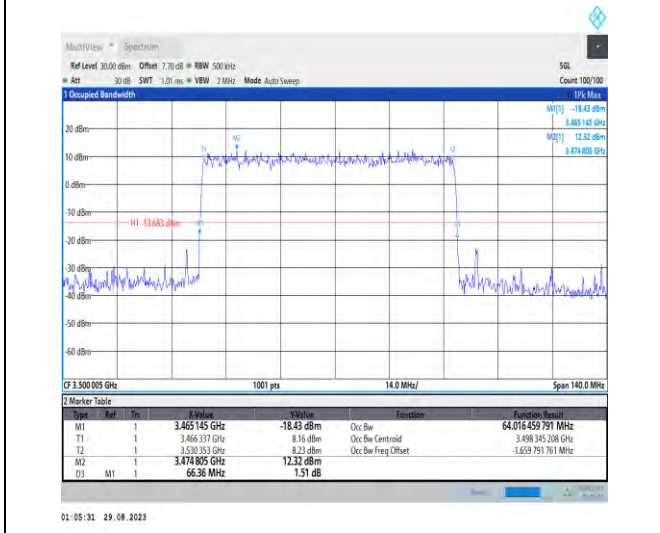
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-70-M-1-DFT-QPSK-Outer_Full-180@0-Ant5-64.214-66.220-≤70-PASS

1-N77-3450-3550-PC2-30-70-M-2-DFT-PI2BPSK-Outer_Full-180@0-Ant5-64.081-66.220-≤70-PASS



1-N77-3450-3550-PC2-30-70-M-3-DFT-16QAM-Outer_Full-180@0-Ant5-64.016-66.360-≤70-PASS

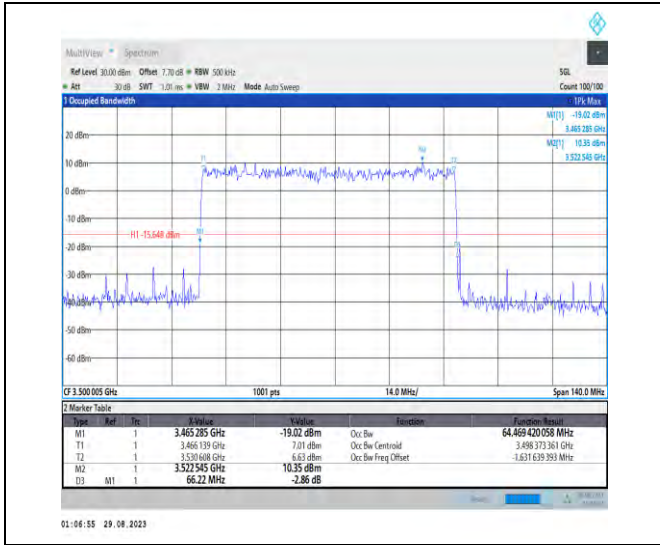
1-N77-3450-3550-PC2-30-70-M-4-DFT-64QAM-Outer_Full-180@0-Ant5-64.24-66.220-≤70-PASS



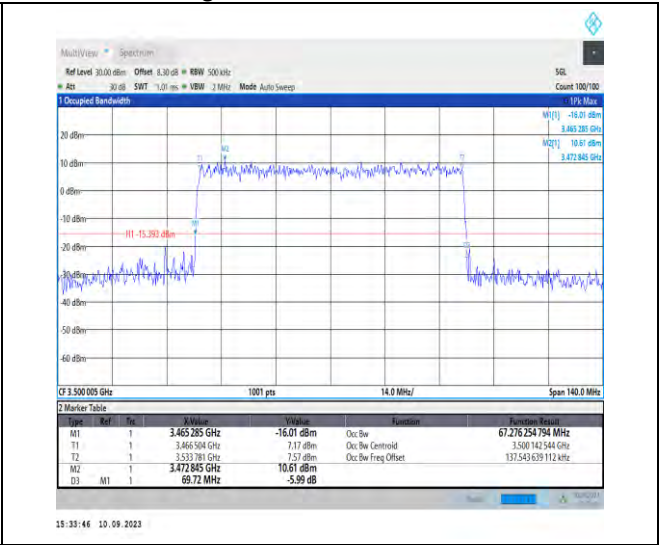
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 83071443, or email: CN.Doccheck@sgs.com

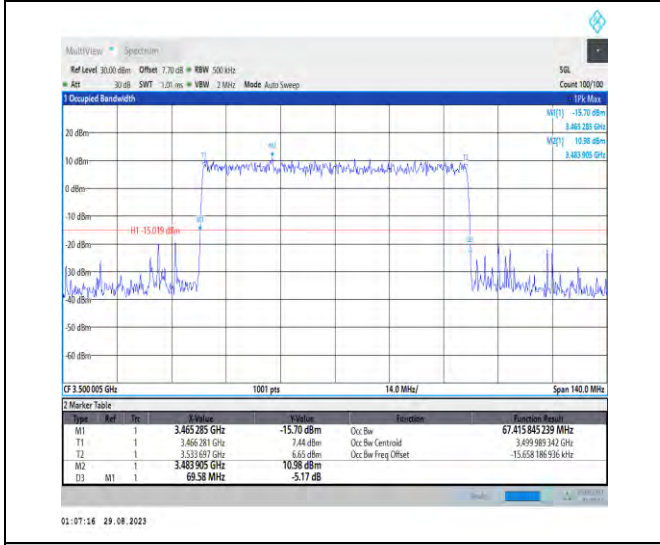
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南座 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-70-M-5-DFT-256QAM-Out_er_Full-180@0-Ant5-64.469-66.220-≤70-PASS



1-N77-3450-3550-PC2-30-70-M-6-CP-QPSK-Outer_Full-189@0-Ant5-67.276-69.720-≤70-PASS



1-N77-3450-3550-PC2-30-70-M-7-CP-16QAM-Outer_Full-189@0-Ant5-67.416-69.580-≤70-PASS



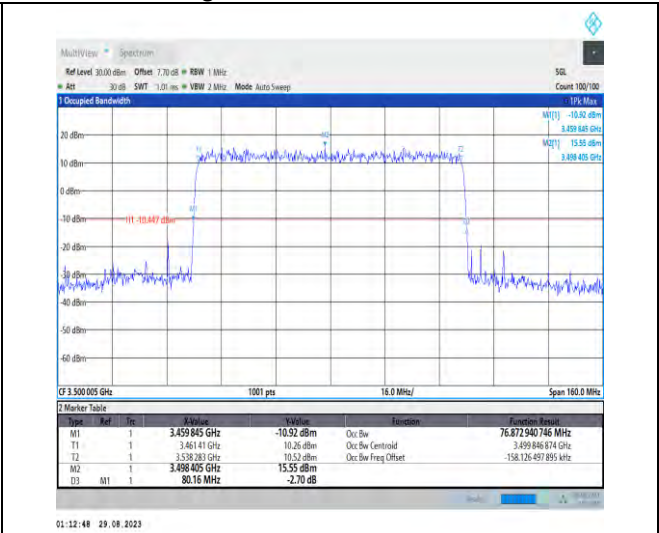
1-N77-3450-3550-PC2-30-70-M-8-CP-64QAM-Outer_Full-189@0-Ant5-67.399-69.580-≤70-PASS



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.

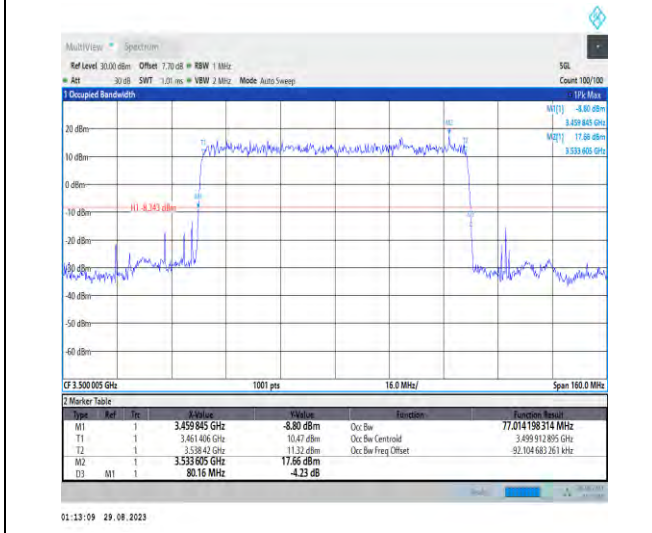
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-70-M-9-CP-256QAM-Outer_Full-189@0-Ant5-67.415-69.440-≤70-PASS

1-N77-3450-3550-PC2-30-80-M-1-DFT-QPSK-Outer_Full-216@0-Ant5-76.873-80.160-≤80-PASS



1-N77-3450-3550-PC2-30-80-M-2-DFT-PI2BPSK-Outer_Full-216@0-Ant5-77.014-80.160-≤80-PASS

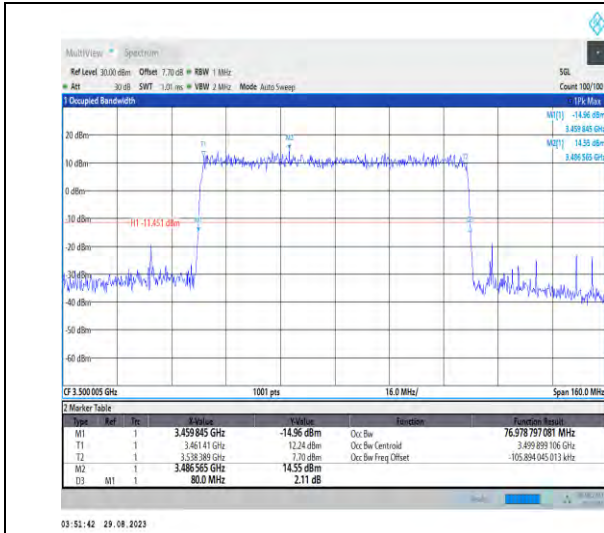
1-N77-3450-3550-PC2-30-80-M-3-DFT-16QAM-Outer_Full-216@0-Ant5-77.269-80.320-≤80-PASS



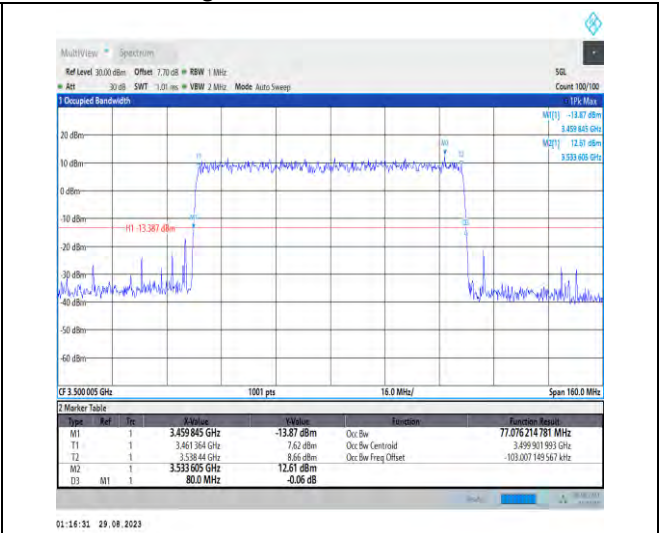
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



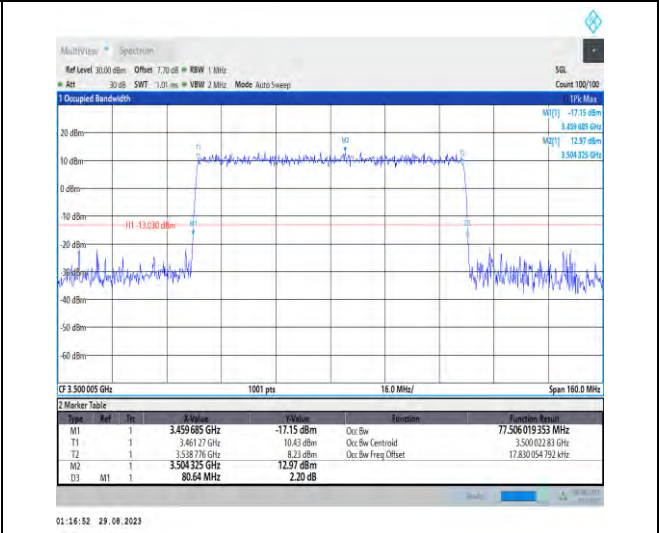
1-N77-3450-3550-PC2-30-80-M-4-DFT-64QAM-Outer_Full-216@0-Ant5-76.979-80.000-≤80-PASS



1-N77-3450-3550-PC2-30-80-M-5-DFT-256QAM-Outer_Full-216@0-Ant5-77.076-80.000-≤80-PASS



1-N77-3450-3550-PC2-30-80-M-6-CP-QPSK-Outer_Full-217@0-Ant5-77.424-80.640-≤80-PASS



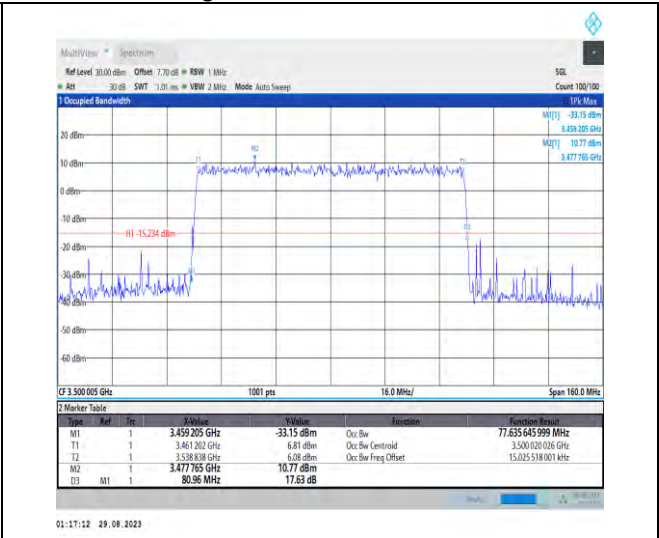
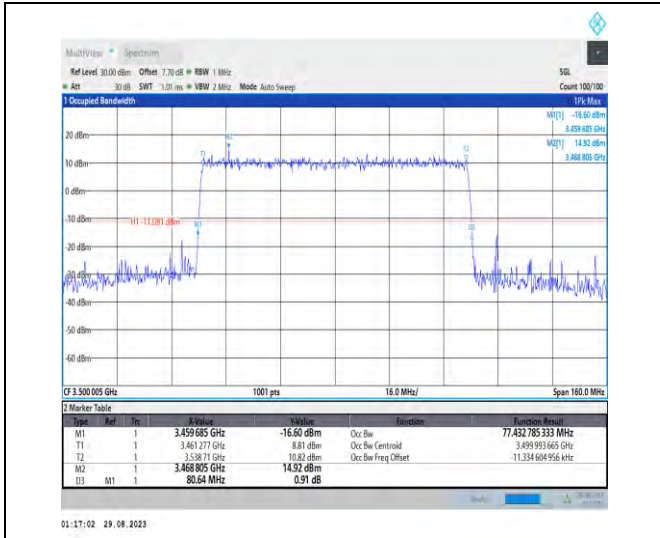
1-N77-3450-3550-PC2-30-80-M-7-CP-16QAM-Outer_Full-217@0-Ant5-77.506-80.640-≤80-PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-80-M-8-CP-64QAM-Outer_Full-217@0-Ant5-77.433-80.640-≤80-PASS

1-N77-3450-3550-PC2-30-80-M-9-CP-256QAM-Out_er_Full-217@0-Ant5-77.636-80.960-≤80-PASS



1-N77-3450-3550-PC2-30-90-M-1-DFT-QPSK-Outer_Full-240@0-Ant5-85.393-88.920-≤90-PASS

1-N77-3450-3550-PC2-30-90-M-2-DFT-PI2BPSK-Outer_Full-240@0-Ant5-85.685-88.920-≤90-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) 83071443, or email: CN.Doccheck@sgs.com

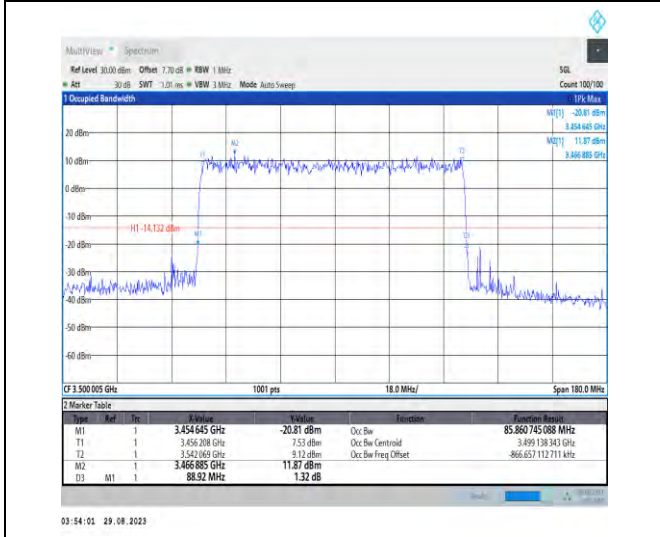
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



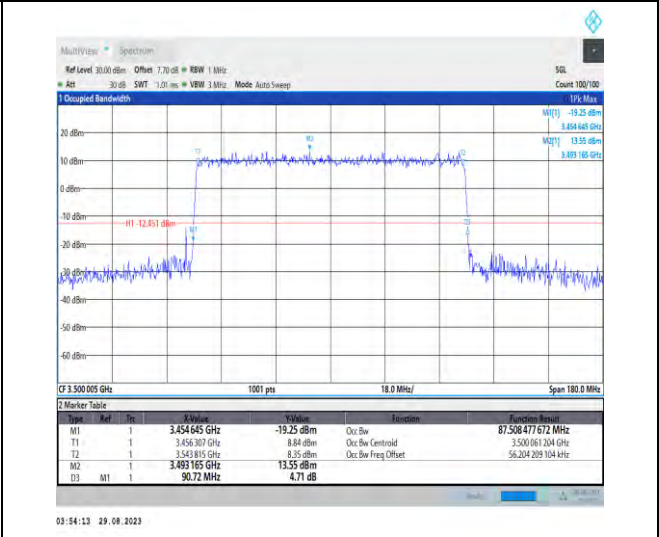
1-N77-3450-3550-PC2-30-90-M-3-DFT-16QAM-Outer_Full-240@0-Ant5-85.778-88.920-≤90-PASS



1-N77-3450-3550-PC2-30-90-M-4-DFT-64QAM-Outer_Full-240@0-Ant5-85.516-88.920-≤90-PASS



1-N77-3450-3550-PC2-30-90-M-5-DFT-256QAM-Outer_Full-240@0-Ant5-85.861-88.920-≤90-PASS



1-N77-3450-3550-PC2-30-90-M-6-CP-QPSK-Outer_Full-245@0-Ant5-87.508-90.720-≤90-PASS



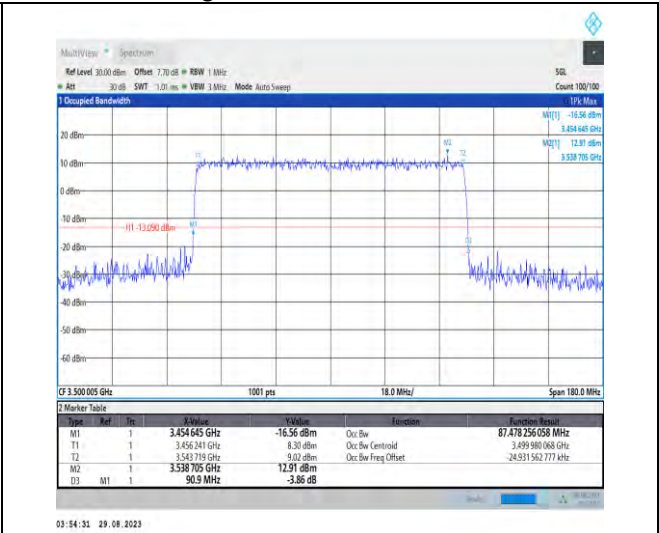
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 83071443, or email: CN.Doccheck@sgs.com

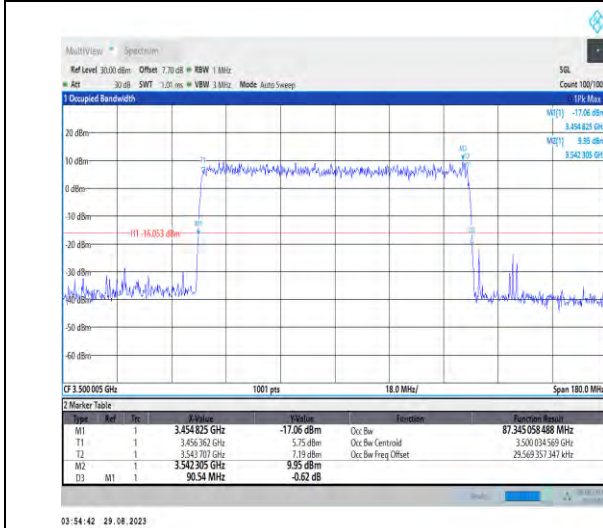
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



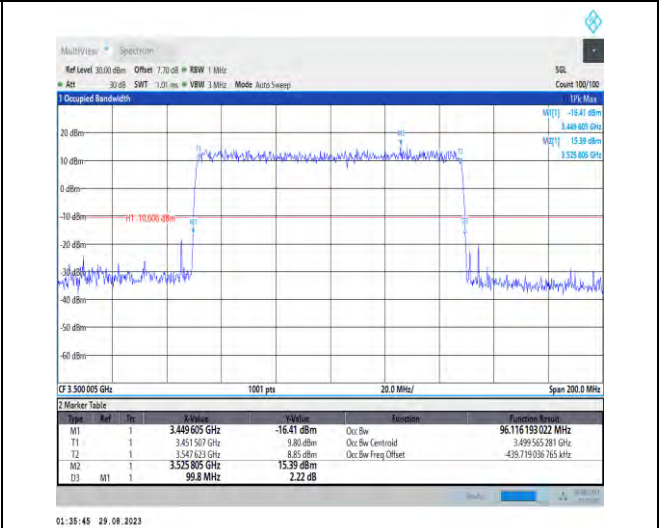
1-N77-3450-3550-PC2-30-90-M-7-CP-16QAM-Outer_Full-245@0-Ant5-87.338-90.720-≤90-PASS



1-N77-3450-3550-PC2-30-90-M-8-CP-64QAM-Outer_Full-245@0-Ant5-87.478-90.900-≤90-PASS



1-N77-3450-3550-PC2-30-90-M-9-CP-256QAM-Outer_Full-245@0-Ant5-87.345-90.540-≤90-PASS



1-N77-3450-3550-PC2-30-100-M-1-DFT-QPSK-Outer_Full-270@0-Ant5-96.116-99.800-≤100-PASS

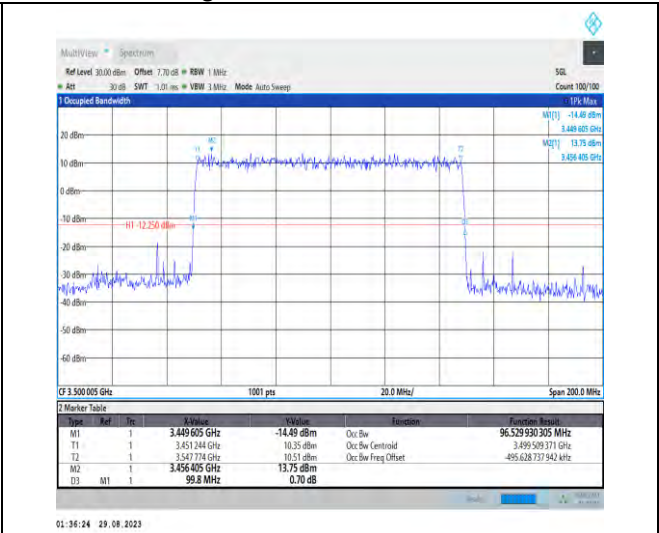
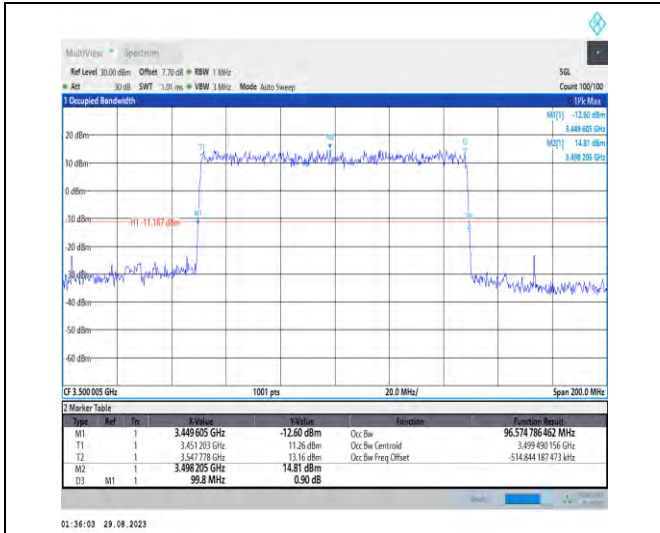


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

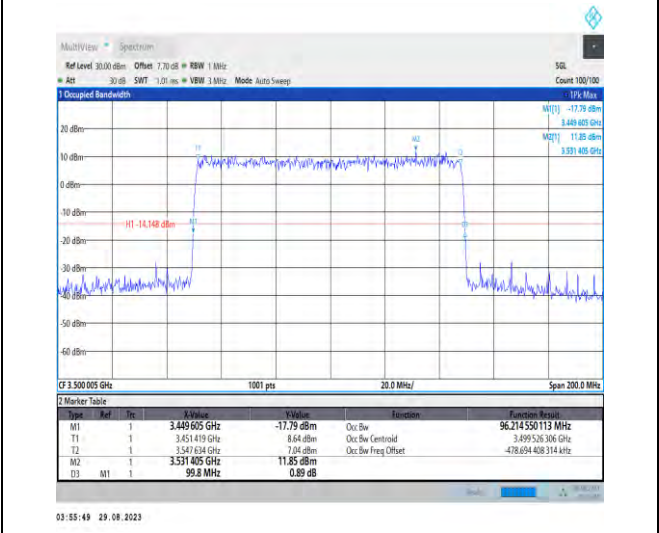
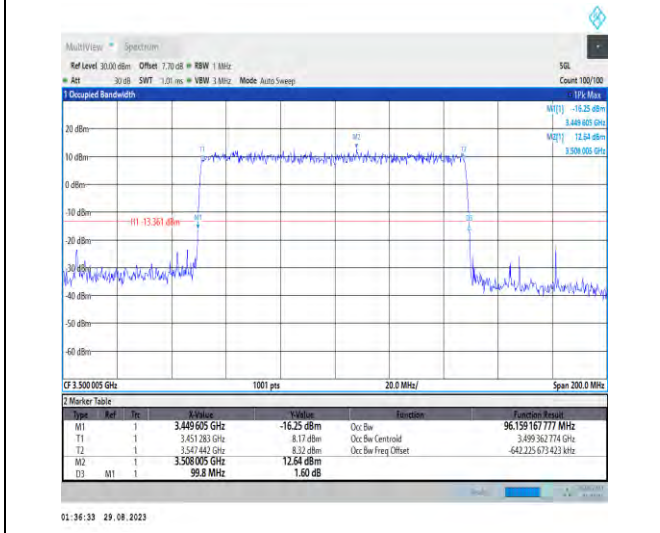
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

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



1-N77-3450-3550-PC2-30-100-M-2-DFT-PI2BPSK-Out_Full-270@0-Ant5-96.575-99.800-≤100-PASS

1-N77-3450-3550-PC2-30-100-M-3-DFT-16QAM-Out_Full-270@0-Ant5-96.53-99.800-≤100-PASS



1-N77-3450-3550-PC2-30-100-M-4-DFT-64QAM-Out_Full-270@0-Ant5-96.159-99.800-≤100-PASS

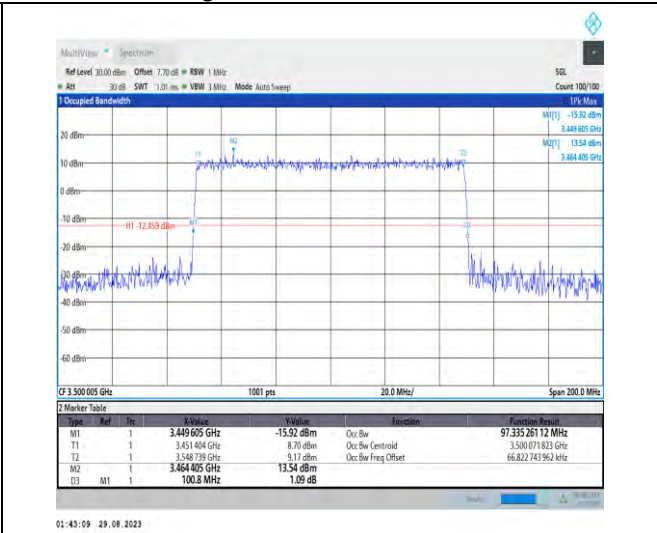
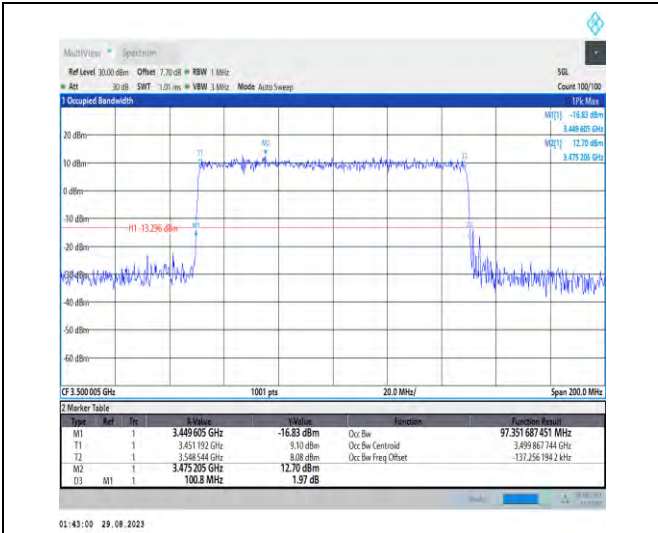
1-N77-3450-3550-PC2-30-100-M-5-DFT-256QAM-Out_Full-270@0-Ant5-96.215-99.800-≤100-PASS



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.

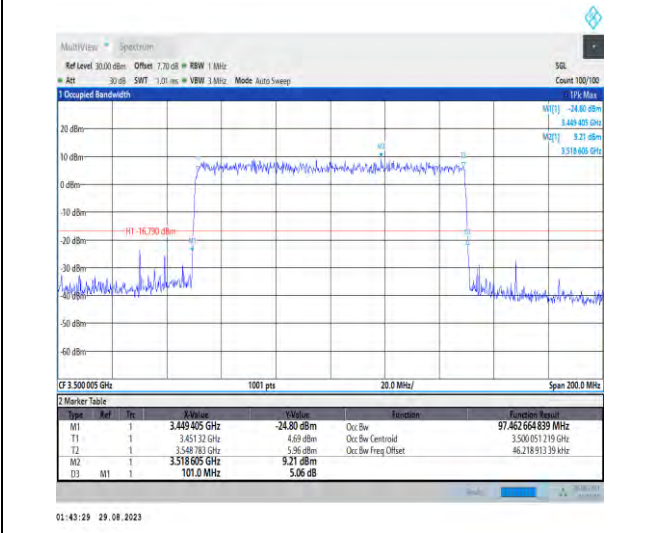
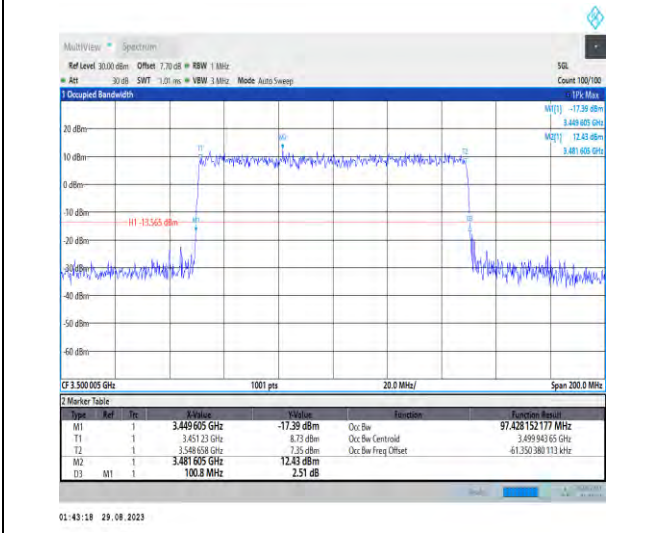
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-100-M-6-CP-QPSK-Outer_Full-273@0-Ant5-97.352-100.800-≤100-PASS

1-N77-3450-3550-PC2-30-100-M-7-CP-16QAM-Outer_Full-273@0-Ant5-97.335-100.800-≤100-PASS



1-N77-3450-3550-PC2-30-100-M-8-CP-64QAM-Outer_Full-273@0-Ant5-97.428-100.800-≤100-PASS

1-N77-3450-3550-PC2-30-100-M-9-CP-256QAM-Outer_Full-273@0-Ant5-97.463-101.000-≤100-PASS



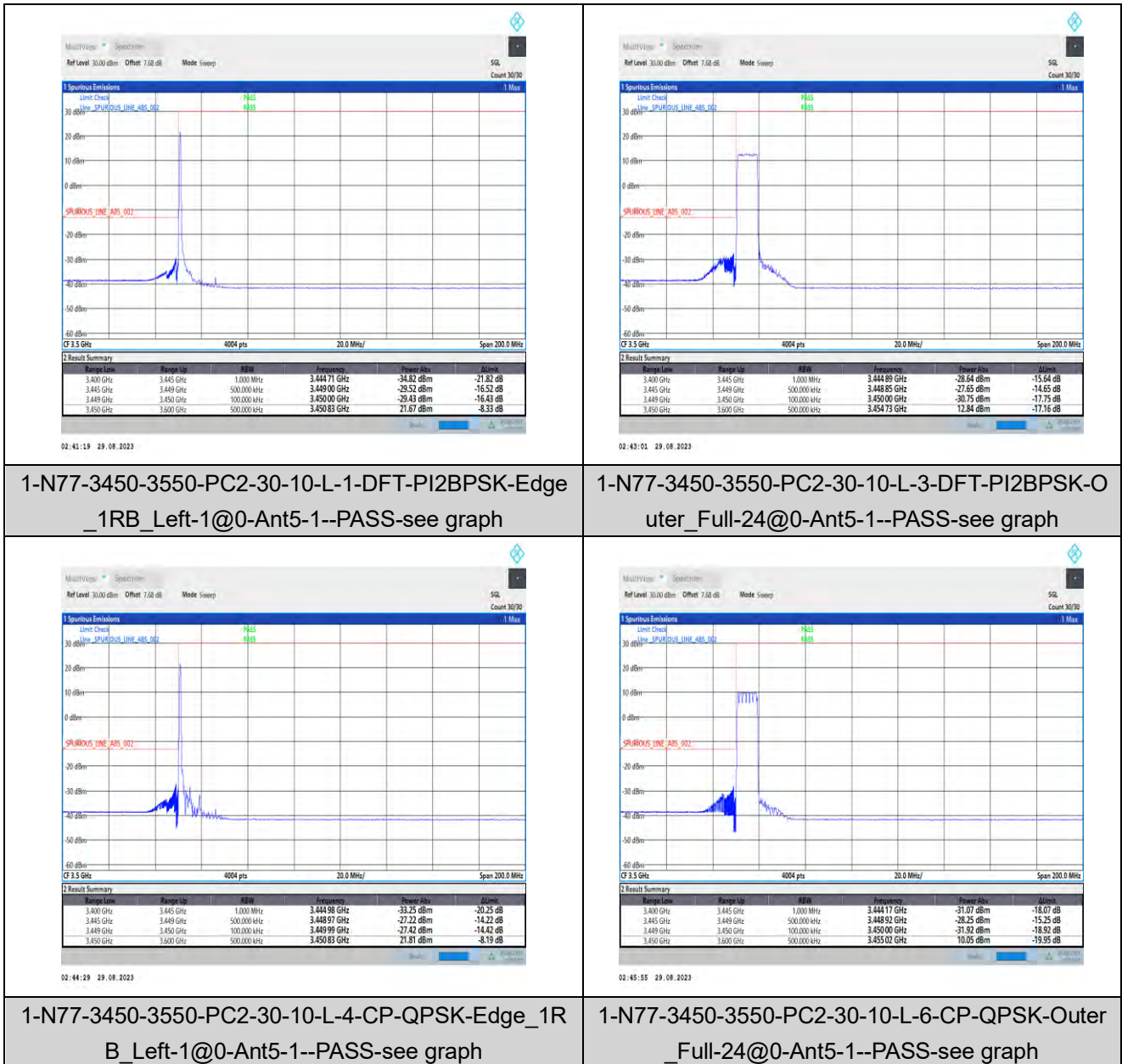
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 83071443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

Band Edge for SA

Test Graphs



1-N77-3450-3550-PC2-30-10-L-1-DFT-PI2BPSK-Edge
 _1RB_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-10-L-3-DFT-PI2BPSK-O
 uter_Full-24@0-Ant5-1--PASS-see graph

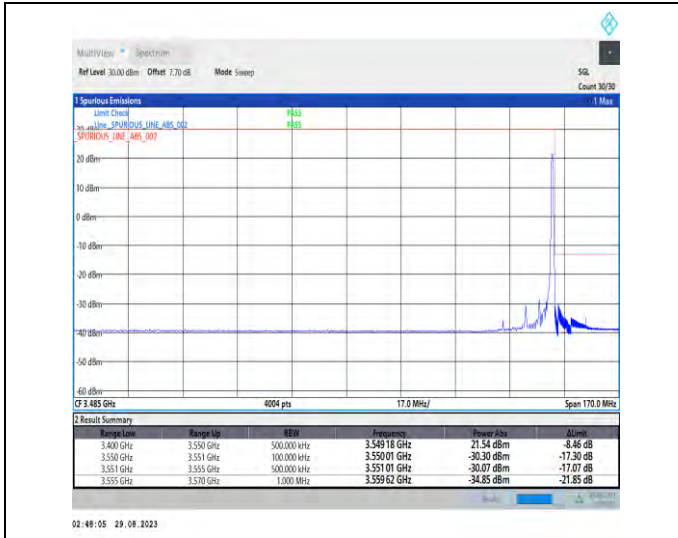
1-N77-3450-3550-PC2-30-10-L-4-CP-QPSK-Edge_1R
 B_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-10-L-6-CP-QPSK-Outer
 _Full-24@0-Ant5-1--PASS-see graph



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

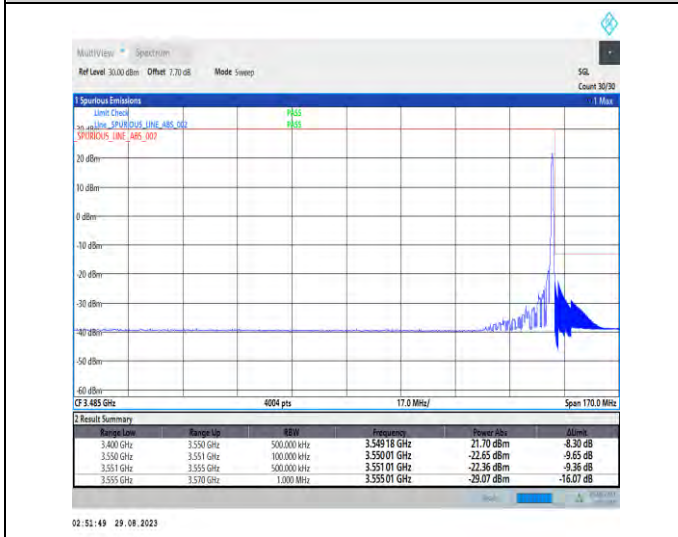
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



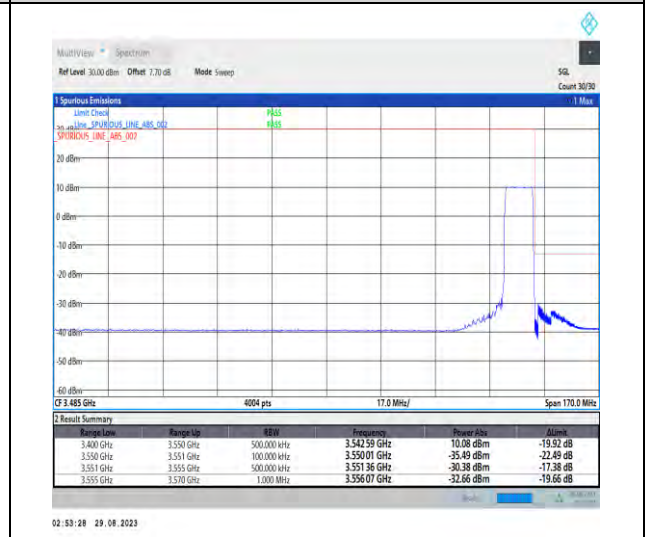
1-N77-3450-3550-PC2-30-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@23-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-10-H-3-DFT-PI2BPSK-Outer_Full-24@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-10-H-5-CP-QPSK-Edge_1RB_Right-1@23-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-10-H-6-CP-QPSK-Outer_Full-24@0-Ant5-1--PASS-see graph

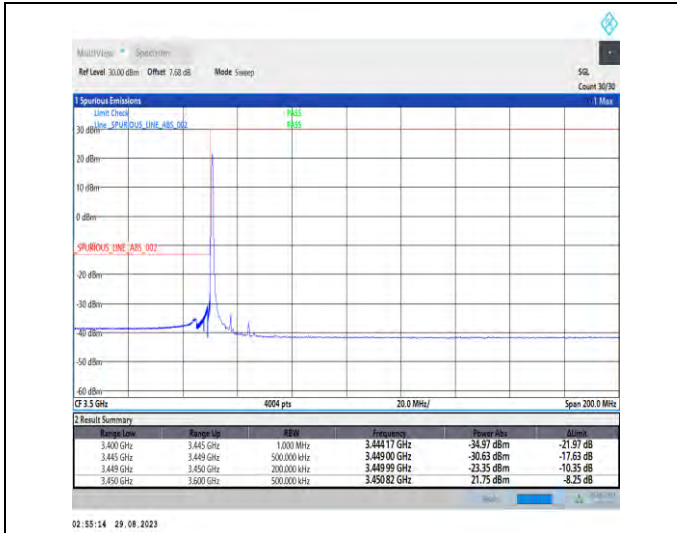


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

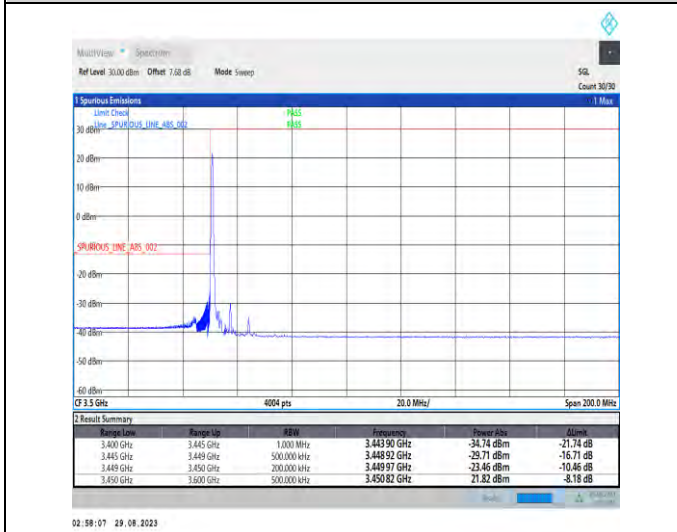
t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com



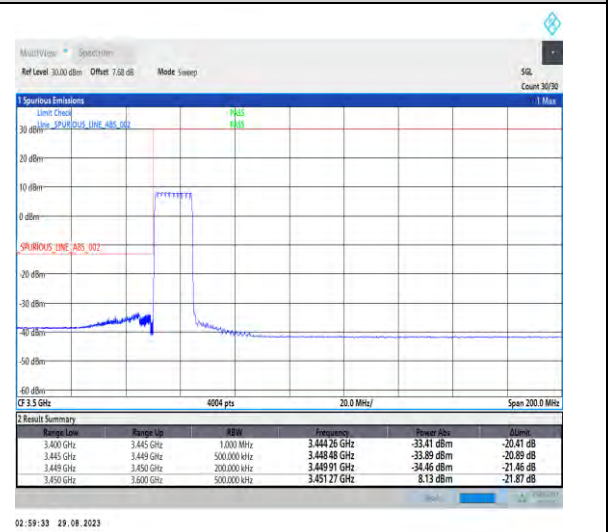
1-N77-3450-3550-PC2-30-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-15-L-3-DFT-PI2BPSK-Outer_Full-36@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant5-1--PASS-see graph



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

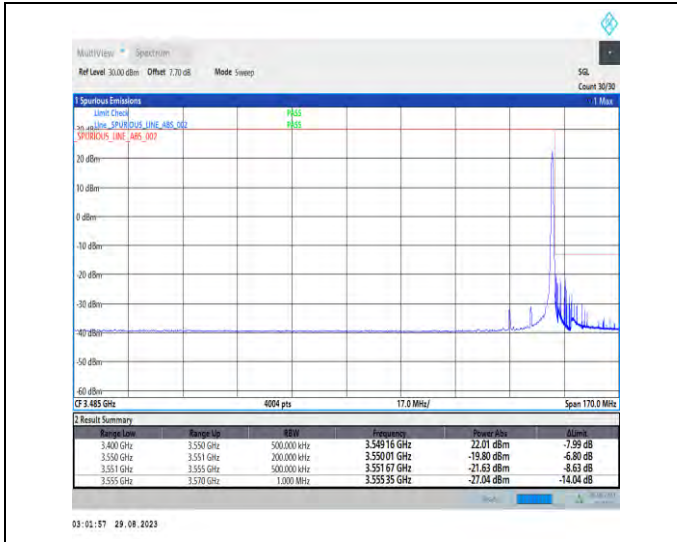
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

t (86-512) 62992980 www.sgs.com www.sgs.com.cn

中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

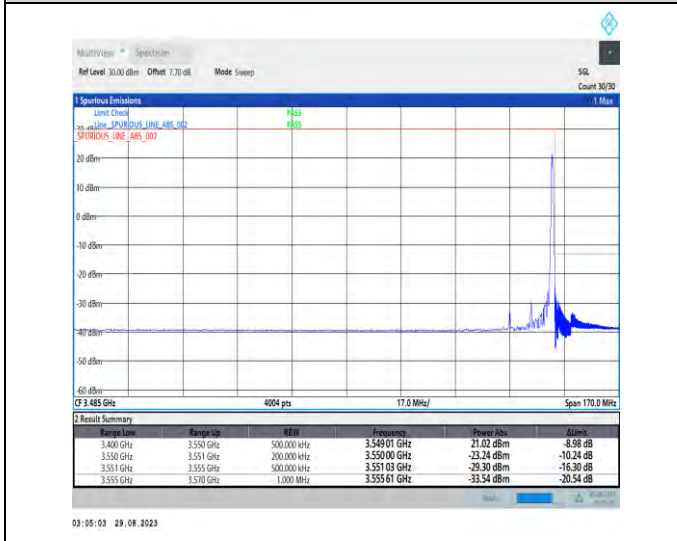
t (86-512) 62992980 sgs.china@sgs.com



1-N77-3450-3550-PC2-30-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@37-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-15-H-3-DFT-PI2BPSK-Outer_Full-36@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-15-H-5-CP-QPSK-Edge_1RB_Right-1@37-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-15-H-6-CP-QPSK-Outer_Full-38@0-Ant5-1--PASS-see graph

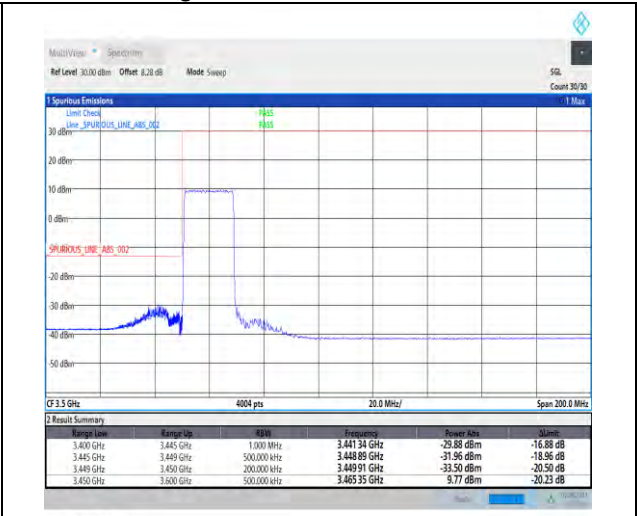
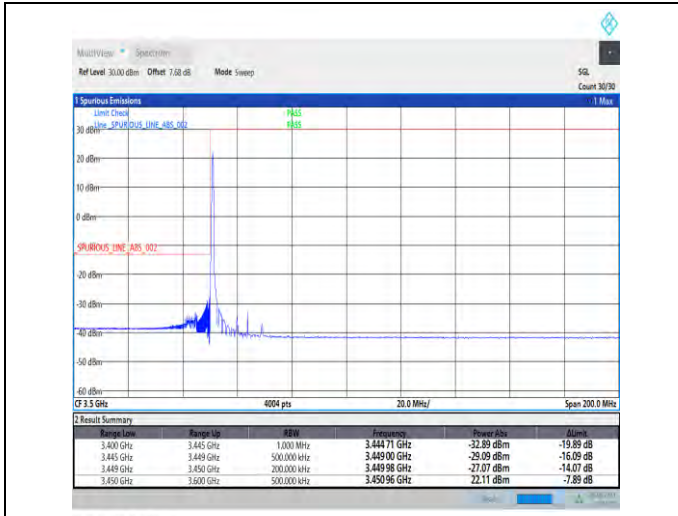


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

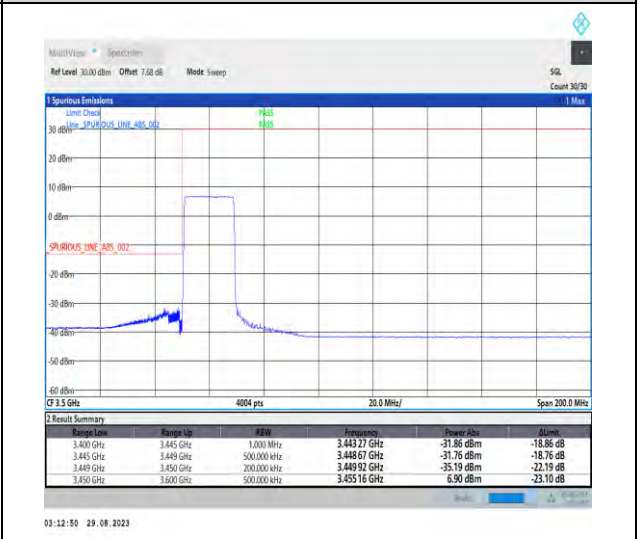
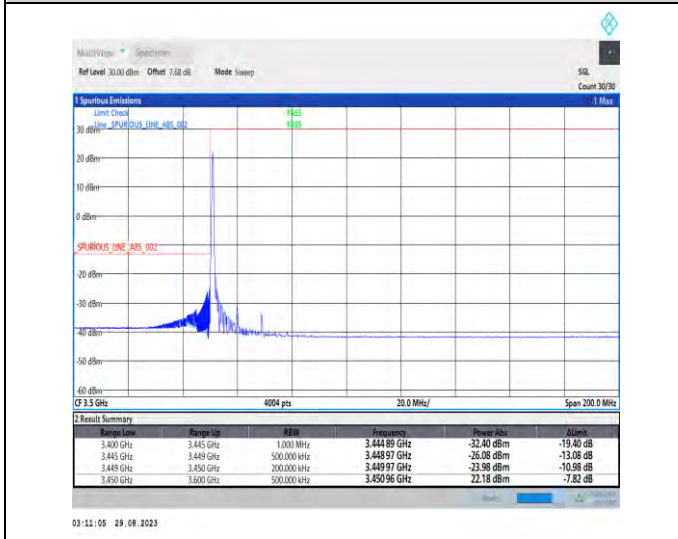
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

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



1-N77-3450-3550-PC2-30-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-20-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant5-1--PASS-see graph



1-N77-3450-3550-PC2-30-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-1--PASS-see graph

1-N77-3450-3550-PC2-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant5-1--PASS-see graph



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

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