

Report No.: SEWA2204000008RG02

Rev.: 01

Page: 1 of 35

Appendix B.32

NR Band n13



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

Report No.: SEWA2204000008RG02

Rev.: 01

Page: 2 of 35

Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	LIMIT (dBm)	Verdict
N13	15	5	DFT- PI2BPSK	L	Inner_1RB_Left	23.34	22.73	34.77	PASS
N13	15	5	DFT- PI2BPSK	L	Inner_1RB_Right	23.4	22.79	34.77	PASS
N13	15	5	DFT- PI2BPSK	L	Outer_Full	23.35	22.74	34.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Left	23.33	22.72	34.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Right	23.38	22.77	34.77	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	23.36	22.75	34.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Left	23.33	22.72	34.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Right	23.34	22.73	34.77	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	22.42	21.81	34.77	PASS
N13	15	5	DFT-64QAM	L	Inner_1RB_Left	21.85	21.24	34.77	PASS
N13	15	5	DFT-64QAM	L	Inner_1RB_Right	21.93	21.32	34.77	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	21.88	21.27	34.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Left	20	19.39	34.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Right	19.83	19.22	34.77	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	19.85	19.24	34.77	PASS
N13	15	5	DFT- PI2BPSK	M	Inner_1RB_Left	23.4	22.79	34.77	PASS
N13	15	5	DFT- PI2BPSK	M	Inner_1RB_Right	23.22	22.61	34.77	PASS
N13	15	5	DFT- PI2BPSK	M	Outer_Full	23.39	22.78	34.77	PASS
N13	15	5	DFT-QPSK	M	Inner_1RB_Left	23.35	22.74	34.77	PASS
N13	15	5	DFT-QPSK	M	Inner_1RB_Right	23.14	22.53	34.77	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	23.37	22.76	34.77	PASS
N13	15	5	DFT-16QAM	M	Inner_1RB_Left	23.47	22.86	34.77	PASS
N13	15	5	DFT-16QAM	M	Inner_1RB_Right	23.28	22.67	34.77	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	22.38	21.77	34.77	PASS
N13	15	5	DFT-64QAM	M	Inner_1RB_Left	22.02	21.41	34.77	PASS
N13	15	5	DFT-64QAM	M	Inner_1RB_Right	21.77	21.16	34.77	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

Report No.: SEWA2204000008RG02

Rev.: 01

Page: 3 of 35

N13	15	5	DFT-64QAM	M	Outer_Full	21.84	21.23	34.77	PASS
N13	15	5	DFT-256QAM	M	Inner_1RB_Left	19.82	19.21	34.77	PASS
N13	15	5	DFT-256QAM	M	Inner_1RB_Right	19.73	19.12	34.77	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	19.83	19.22	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.33	22.72	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.18	22.57	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Outer_Full	23.19	22.58	34.77	PASS
N13	15	5	DFT-QPSK	H	Inner_1RB_Left	23.26	22.65	34.77	PASS
N13	15	5	DFT-QPSK	H	Inner_1RB_Right	23.12	22.51	34.77	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	23.19	22.58	34.77	PASS
N13	15	5	DFT-16QAM	H	Inner_1RB_Left	23.68	23.07	34.77	PASS
N13	15	5	DFT-16QAM	H	Inner_1RB_Right	23.5	22.89	34.77	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	22.18	21.57	34.77	PASS
N13	15	5	DFT-64QAM	H	Inner_1RB_Left	21.62	21.01	34.77	PASS
N13	15	5	DFT-64QAM	H	Inner_1RB_Right	21.44	20.83	34.77	PASS
N13	15	5	DFT-64QAM	H	Outer_Full	21.79	21.18	34.77	PASS
N13	15	5	DFT-256QAM	H	Inner_1RB_Left	19.5	18.89	34.77	PASS
N13	15	5	DFT-256QAM	H	Inner_1RB_Right	19.33	18.72	34.77	PASS
N13	15	5	DFT-256QAM	H	Outer_Full	19.51	18.9	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.29	22.68	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.14	22.53	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	23.38	22.77	34.77	PASS
N13	15	10	DFT-QPSK	M	Inner_1RB_Left	23.27	22.66	34.77	PASS
N13	15	10	DFT-QPSK	M	Inner_1RB_Right	23.16	22.55	34.77	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	23.34	22.73	34.77	PASS
N13	15	10	DFT-16QAM	M	Inner_1RB_Left	23.67	23.06	34.77	PASS
N13	15	10	DFT-16QAM	M	Inner_1RB_Right	23.56	22.95	34.77	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	22.16	21.55	34.77	PASS
N13	15	10	DFT-64QAM	M	Inner_1RB_Left	21.63	21.02	34.77	PASS
N13	15	10	DFT-64QAM	M	Inner_1RB_Right	21.49	20.88	34.77	PASS
N13	15	10	DFT-64QAM	M	Outer_Full	21.9	21.29	34.77	PASS
N13	15	10	DFT-256QAM	M	Inner_1RB_Left	19.5	18.89	34.77	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



Report No.: SEWA2204000008RG02

Rev.: 01

Page: 4 of 35

N13	15	10	DFT-256QAM	M	Inner_1RB_Right	19.39	18.78	34.77	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	19.7	19.09	34.77	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

Report No.: SEWA2204000008RG02

Rev.: 01

Page: 5 of 35

Peak-to-Average Ratio for SA

Peak-to-Average Ratio(PAPR)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N13	15	10	DFT-256QAM	M	Outer_Full	100%	0.00	8.42	≤13	PASS
N13	15	10	CP-256QAM	M	Outer_Full	100%	0.00	9.35	≤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号厂房南楼 邮编: 215000

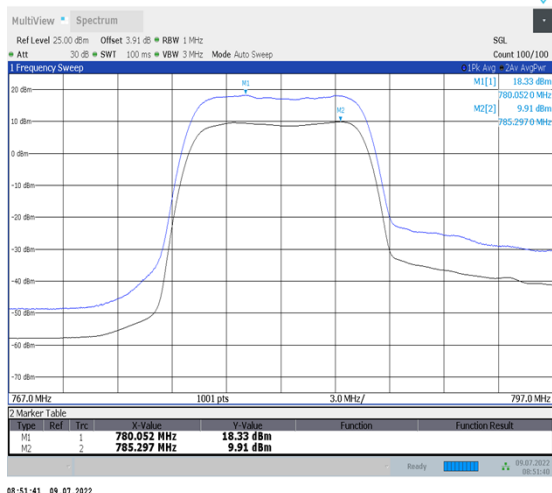
t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Report No.: SEWA2204000008RG02

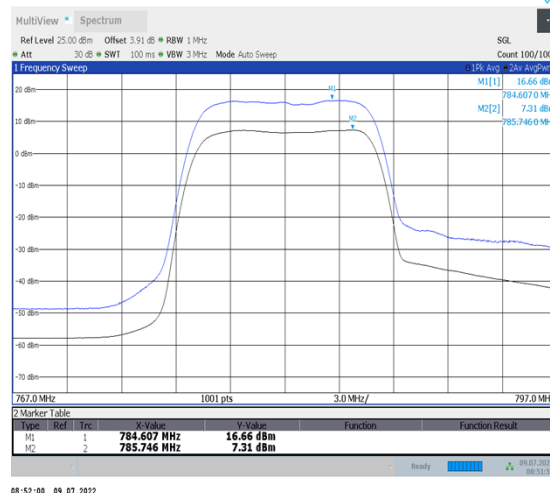
Rev.: 01

Page: 6 of 35

Test Graphs



1-N13--15-10-M-1-DFT-256QAM-Outer_Full-50@0-
Ant1-8.42-100%-0.00-8.42-PASS-≤13



1-N13--15-10-M-2-CP-256QAM-Outer_Full-52@0-
Ant1-9.35-100%-0.00-9.35-PASS-≤13



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

Member of the SGS Group (SGS SA)

Report No.: SEWA2204000008RG02

Rev.: 01

Page: 7 of 35

Modulation characteristics for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N13	15	10	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	see graph	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	see graph	PASS
N13	15	10	DFT-64QAM	M	Outer_Full	see graph	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	see graph	PASS
N13	15	10	CP-QPSK	M	Outer_Full	see graph	PASS
N13	15	10	CP-16QAM	M	Outer_Full	see graph	PASS
N13	15	10	CP-64QAM	M	Outer_Full	see graph	PASS
N13	15	10	CP-256QAM	M	Outer_Full	see graph	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.

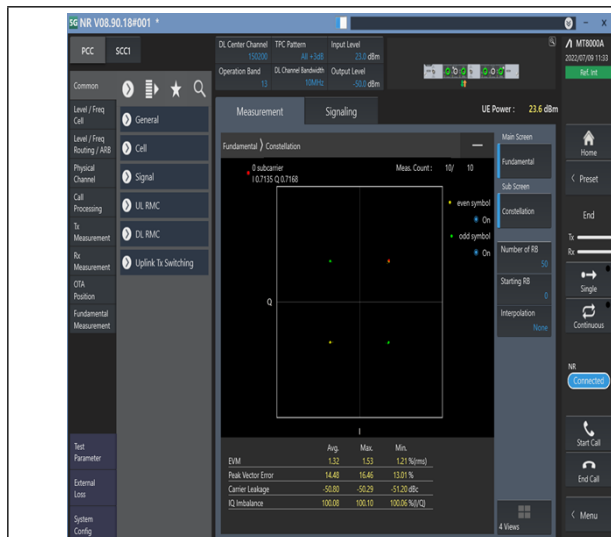
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

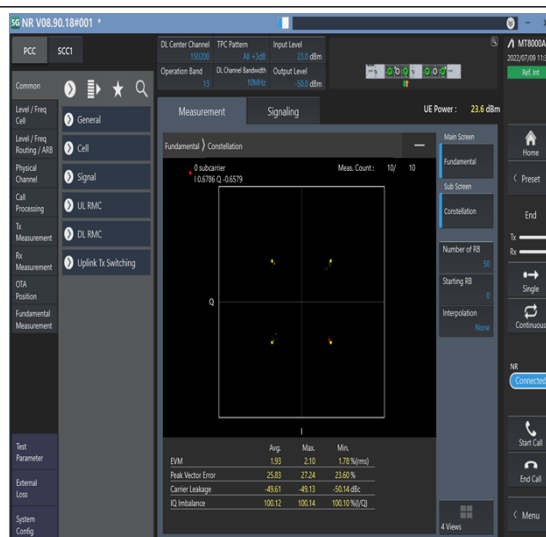
t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Report No.: SEWA2204000008RG02
 Rev.: 01
 Page: 8 of 35

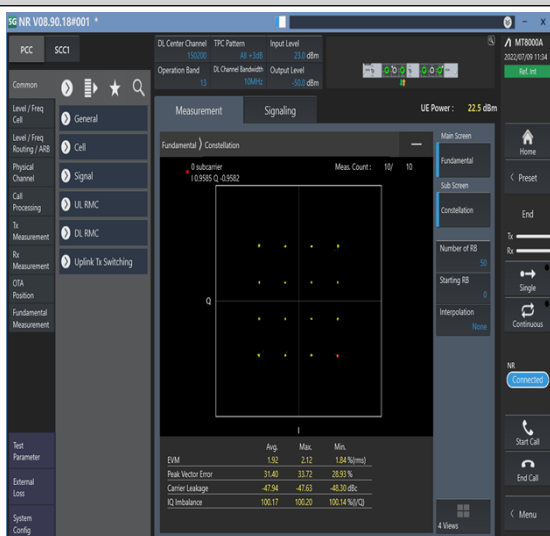
Test Graphs



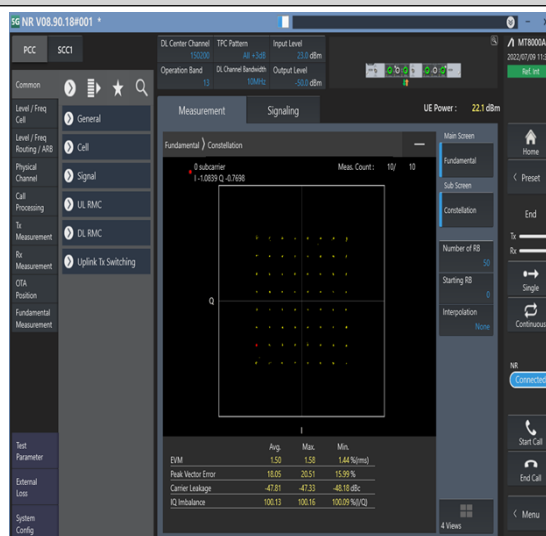
1-N13--15-10-M-1-DFT-PI2BPSK-Outter_Full-50@0-
 Ant1-see graph-PASS



1-N13--15-10-M-2-DFT-QPSK-Outter_Full-50@0-
 Ant1-see graph-PASS



1-N13--15-10-M-3-DFT-16QAM-Outter_Full-50@0-
 Ant1-see graph-PASS



1-N13--15-10-M-4-DFT-64QAM-Outter_Full-50@0-
 Ant1-see graph-PASS



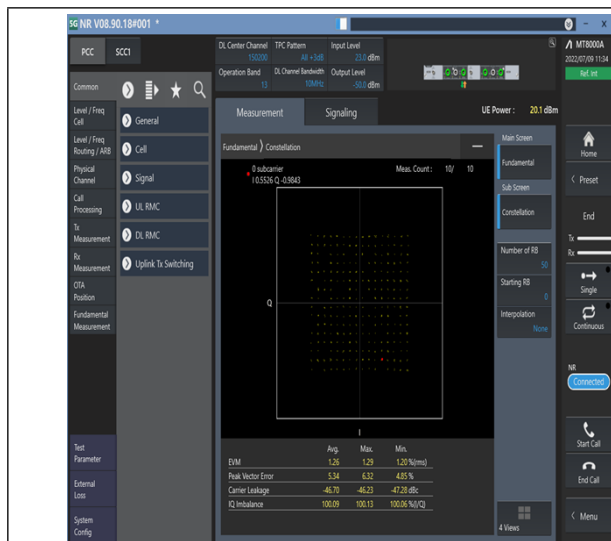
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

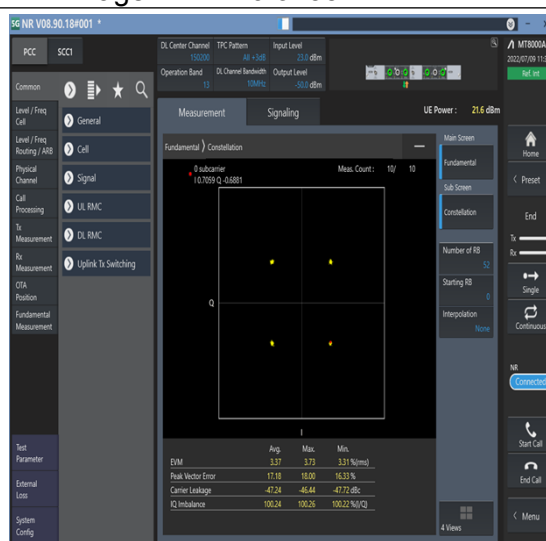
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南座 邮编: 215000

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

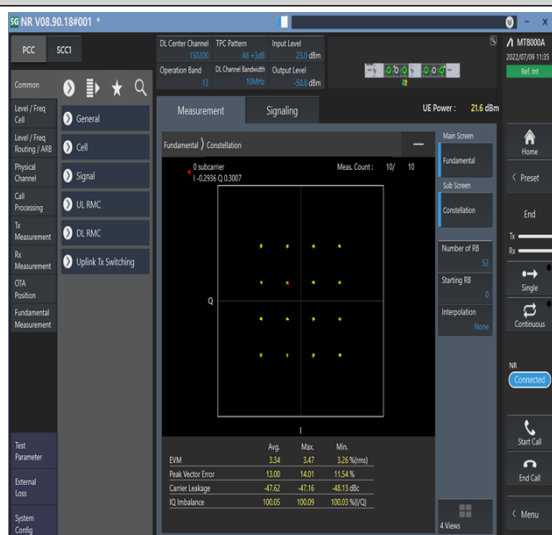
Member of the SGS Group (SGS SA)



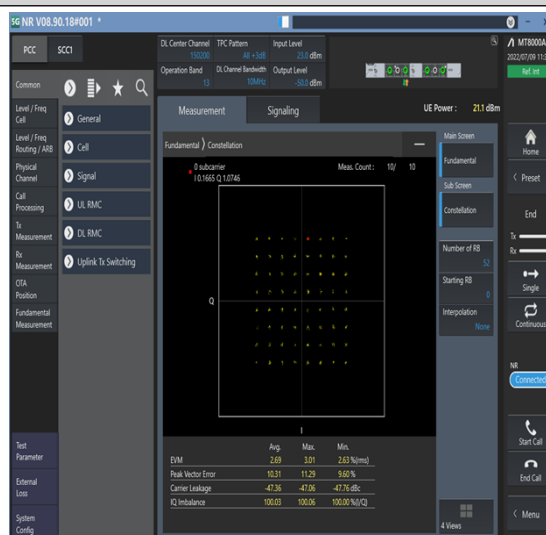
1-N13--15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant1-see graph-PASS



1-N13--15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-see graph-PASS



1-N13--15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-see graph-PASS

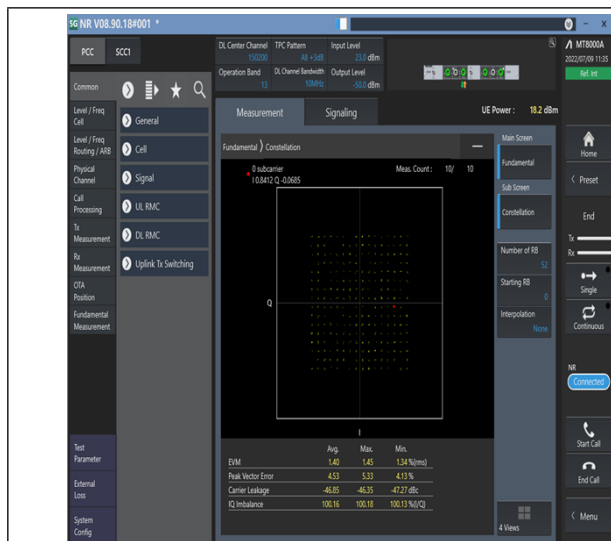


1-N13--15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-see graph-PASS

Report No.: SEWA2204000008RG02

Rev.: 01

Page: 10 of 35



1-N13--15-10-M-9-CP-256QAM-Outer_Full-52@0-
Ant1-see graph-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

Report No.: SEWA2204000008RG02

Rev.: 01

Page: 11 of 35

26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N13	15	5	DFT-QPSK	L	Outer_Full	4.467	5.020	PASS
N13	15	5	DFT-PI2BPSK	L	Outer_Full	4.453	4.980	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	4.459	4.960	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	4.458	5.010	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	4.464	4.890	PASS
N13	15	5	CP-QPSK	L	Outer_Full	4.452	4.880	PASS
N13	15	5	CP-16QAM	L	Outer_Full	4.473	5.080	PASS
N13	15	5	CP-64QAM	L	Outer_Full	4.468	4.990	PASS
N13	15	5	CP-256QAM	L	Outer_Full	4.450	4.960	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	4.490	5.070	PASS
N13	15	5	DFT-PI2BPSK	M	Outer_Full	4.481	4.990	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	4.475	4.960	PASS
N13	15	5	DFT-64QAM	M	Outer_Full	4.470	5.060	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	4.485	5.010	PASS
N13	15	5	CP-QPSK	M	Outer_Full	4.48	5.110	PASS
N13	15	5	CP-16QAM	M	Outer_Full	4.474	5.040	PASS
N13	15	5	CP-64QAM	M	Outer_Full	4.468	4.880	PASS
N13	15	5	CP-256QAM	M	Outer_Full	4.501	5.100	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	4.479	4.950	PASS
N13	15	5	DFT-PI2BPSK	H	Outer_Full	4.479	5.000	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	4.467	4.960	PASS
N13	15	5	DFT-64QAM	H	Outer_Full	4.471	5.040	PASS
N13	15	5	DFT-256QAM	H	Outer_Full	4.473	5.050	PASS
N13	15	5	CP-QPSK	H	Outer_Full	4.457	4.990	PASS
N13	15	5	CP-16QAM	H	Outer_Full	4.457	4.930	PASS
N13	15	5	CP-64QAM	H	Outer_Full	4.471	5.050	PASS
N13	15	5	CP-256QAM	H	Outer_Full	4.469	5.000	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	8.939	9.680	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	8.916	9.660	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	8.932	9.600	PASS
N13	15	10	DFT-64QAM	M	Outer_Full	8.932	9.540	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	8.916	9.460	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



Report No.: SEWA2204000008RG02

Rev.: 01

Page: 12 of 35

N13	15	10	CP-QPSK	M	Outer_Full	9.271	9.960	PASS
N13	15	10	CP-16QAM	M	Outer_Full	9.260	9.940	PASS
N13	15	10	CP-64QAM	M	Outer_Full	9.279	9.920	PASS
N13	15	10	CP-256QAM	M	Outer_Full	9.267	10.140	PASS



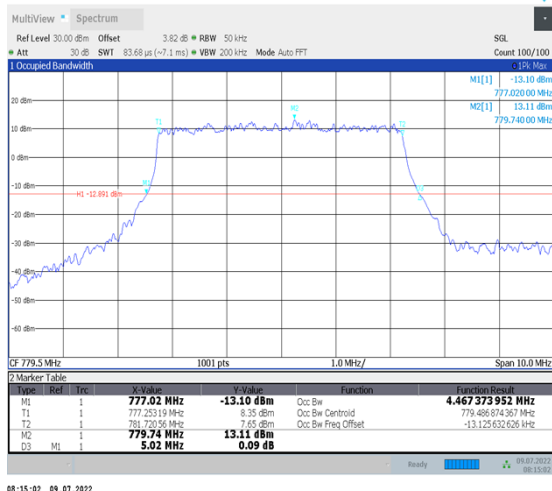
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

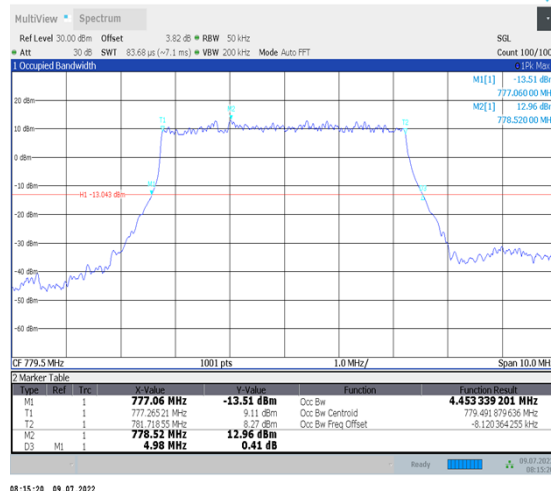
t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Report No.: SEWA2204000008RG02
 Rev.: 01
 Page: 13 of 35

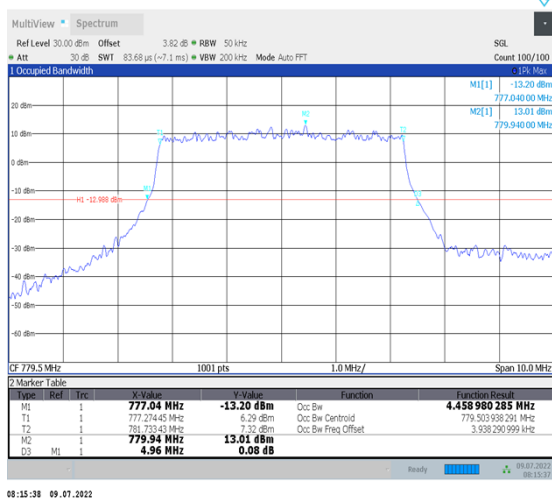
Test Graphs



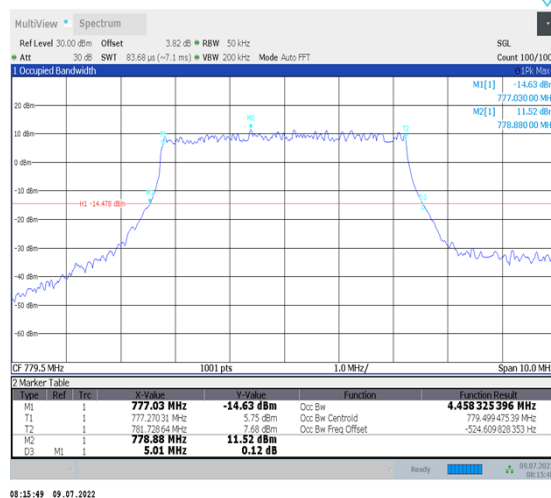
1-N13--15-5-L-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.467-5.020-≤5-PASS



1-N13--15-5-L-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.453-4.980-≤5-PASS



1-N13--15-5-L-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.459-4.960-≤5-PASS



1-N13--15-5-L-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.458-5.010-≤5-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

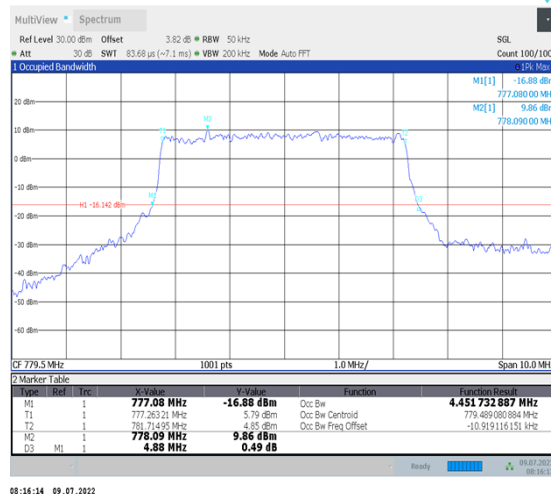
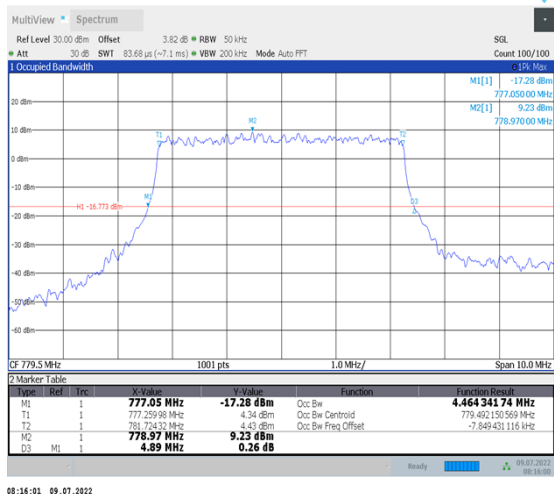
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

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

Report No.: SEWA2204000008RG02

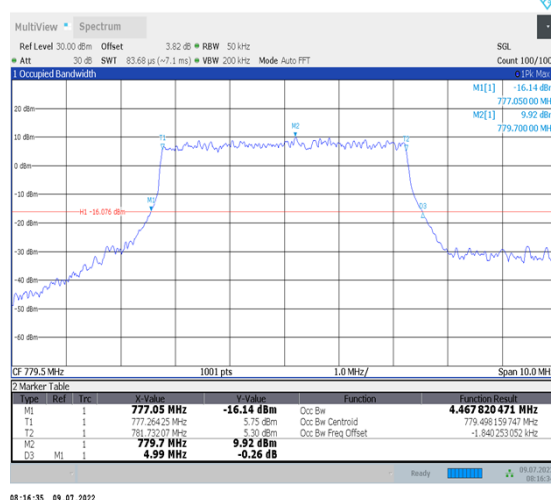
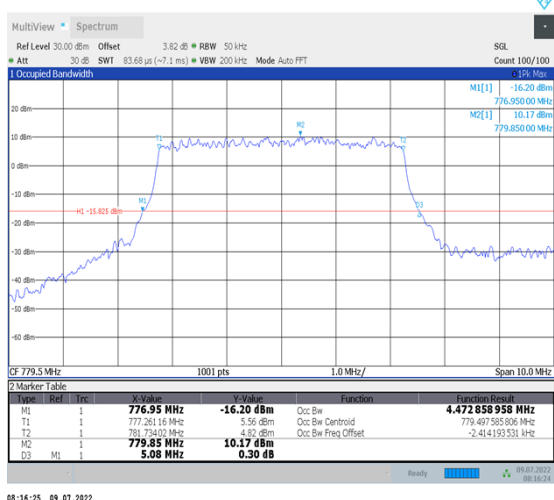
Rev.: 01

Page: 14 of 35



1-N13--15-5-L-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.464-4.890-≤5-PASS

1-N13--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-4.452-4.880-≤5-PASS



1-N13--15-5-L-7-CP-16QAM-Outer_Full-25@0-Ant1-4.473-5.080-≤5-PASS

1-N13--15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant1-4.468-4.990-≤5-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

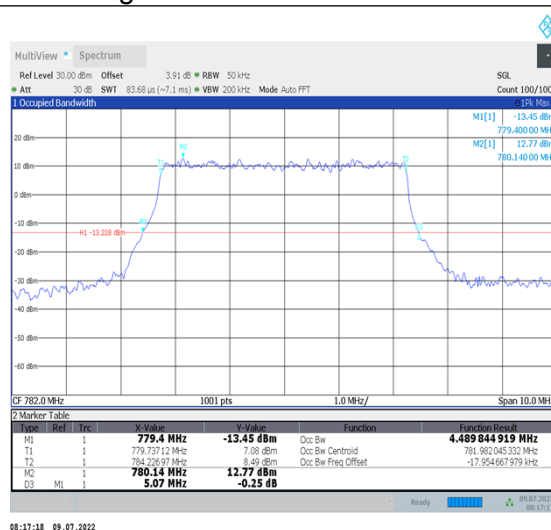
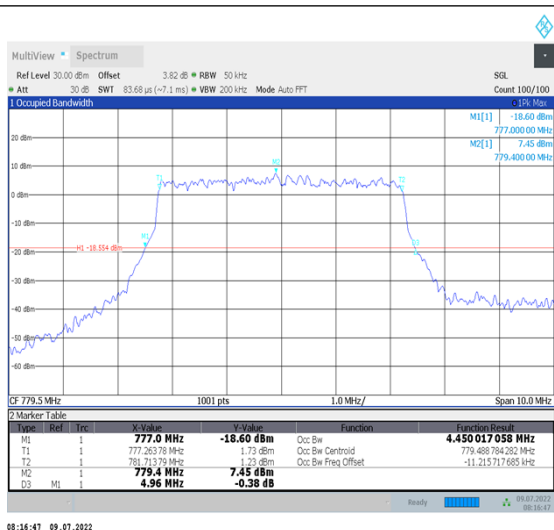
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Report No.: SEWA2204000008RG02

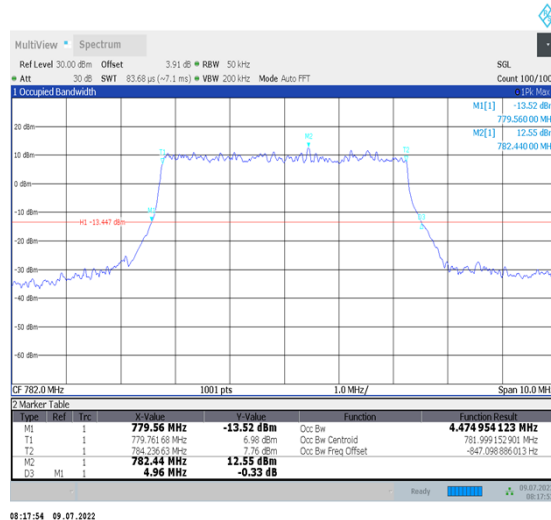
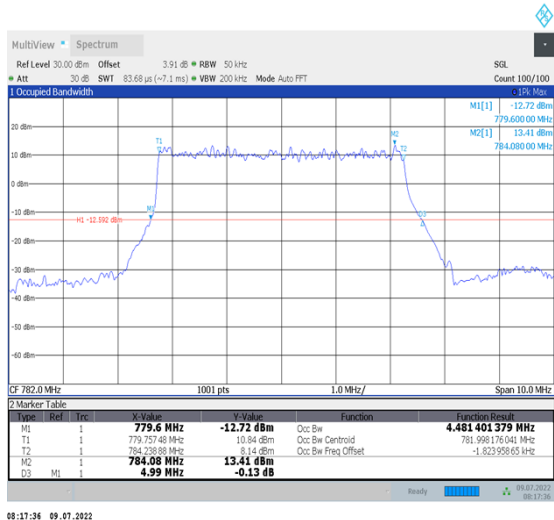
Rev.: 01

Page: 15 of 35



1-N13--15-5-L-9-CP-256QAM-Outer_Full-25@0-Ant1-4.45-4.960-≤5-PASS

1-N13--15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.49-5.070-≤5-PASS



1-N13--15-5-M-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.481-4.990-≤5-PASS

1-N13--15-5-M-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.475-4.960-≤5-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

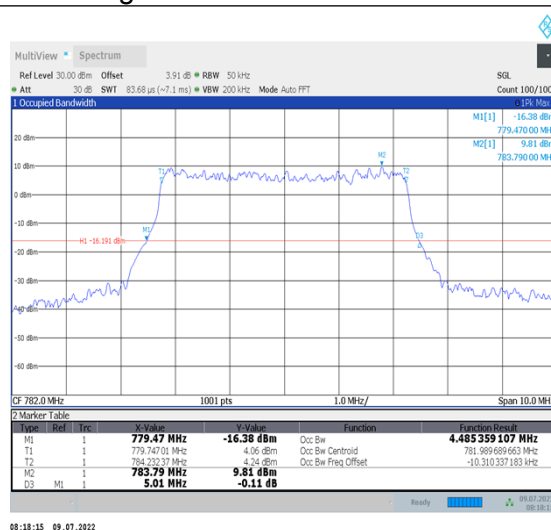
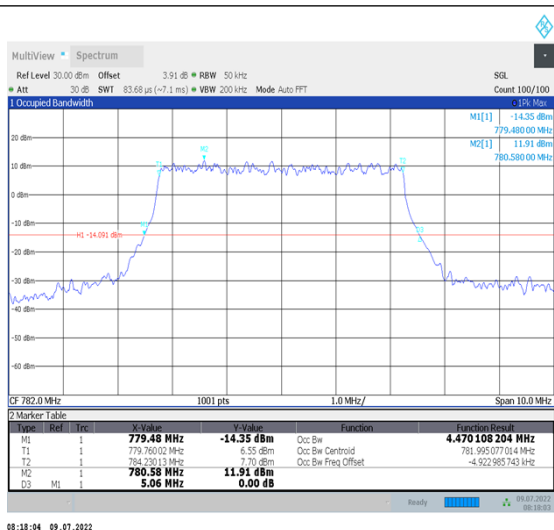
t (86-512) 62992980 www.sgs.com
t (86-512) 62992980 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Report No.: SEWA2204000008RG02

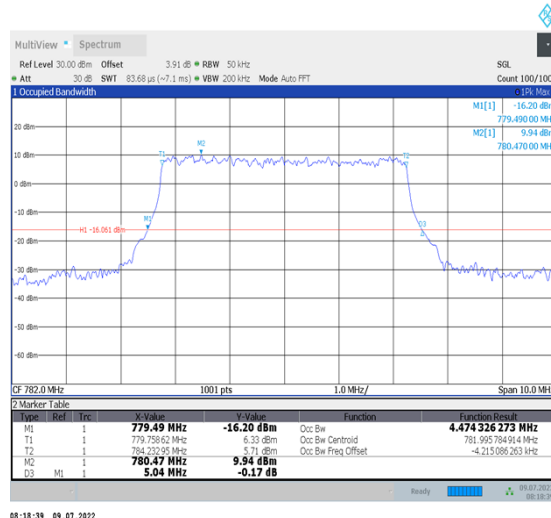
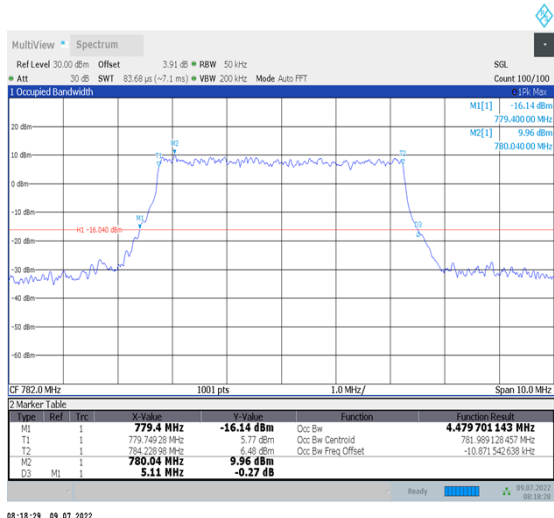
Rev.: 01

Page: 16 of 35



1-N13--15-5-M-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.47-5.060-≤5-PASS

1-N13--15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.485-5.010-≤5-PASS



1-N13--15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant1-4.48-5.110-≤5-PASS

1-N13--15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant1-4.474-5.040-≤5-PASS



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

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

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

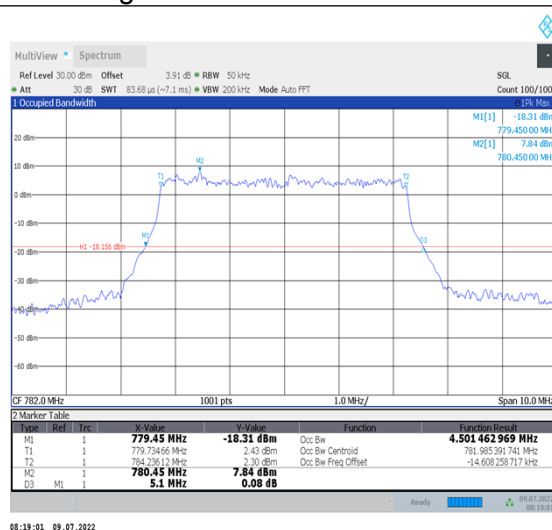
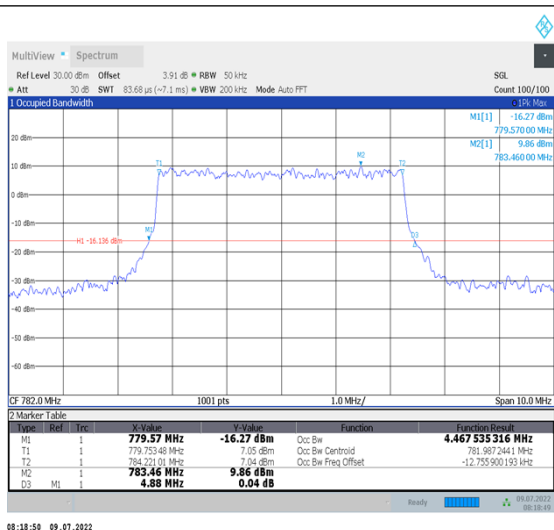
t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Report No.: SEWA2204000008RG02

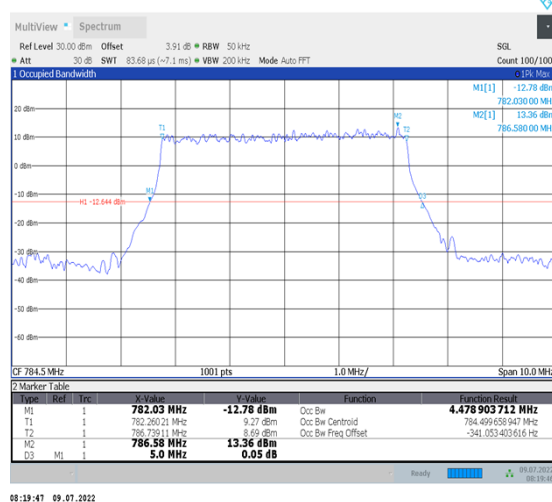
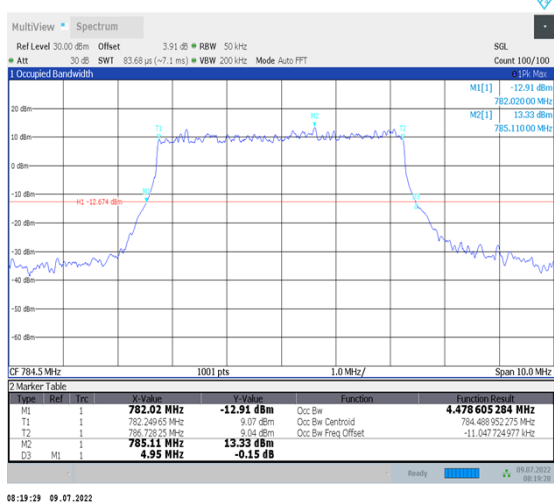
Rev.: 01

Page: 17 of 35



1-N13--15-5-M-8-CP-64QAM-Out Full-25@0-Ant1-4.468-4.880-≤5-PASS

1-N13--15-5-M-9-CP-256QAM-Out Full-25@0-Ant1-4.501-5.100-≤5-PASS



1-N13--15-5-H-1-DFT-QPSK-Out Full-25@0-Ant1-4.479-4.950-≤5-PASS

1-N13--15-5-H-2-DFT-PI2BPSK-Out Full-25@0-Ant1-4.479-5.000-≤5-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

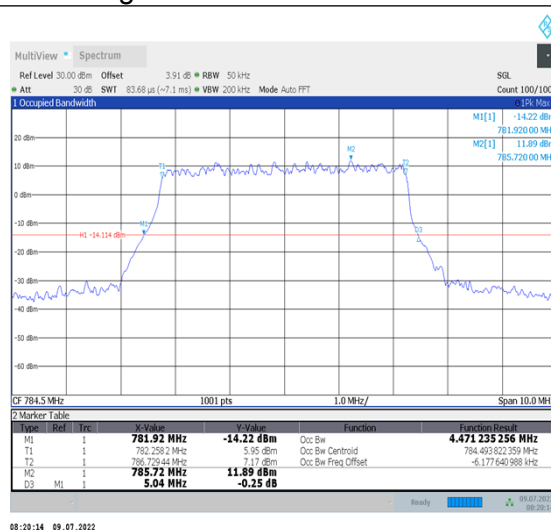
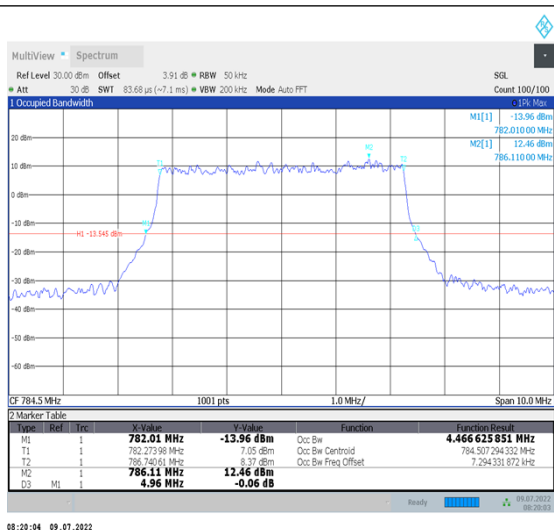
t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Report No.: SEWA2204000008RG02

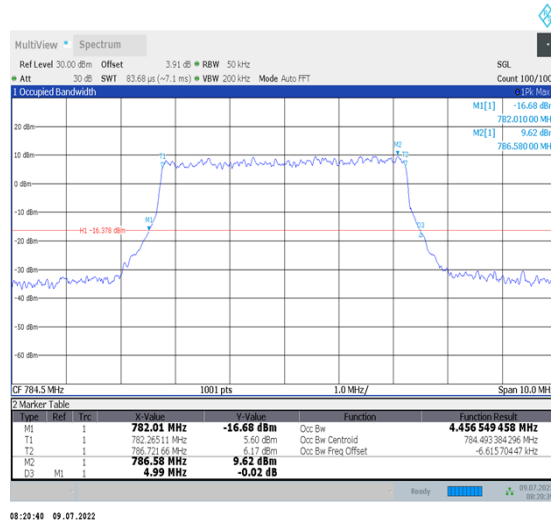
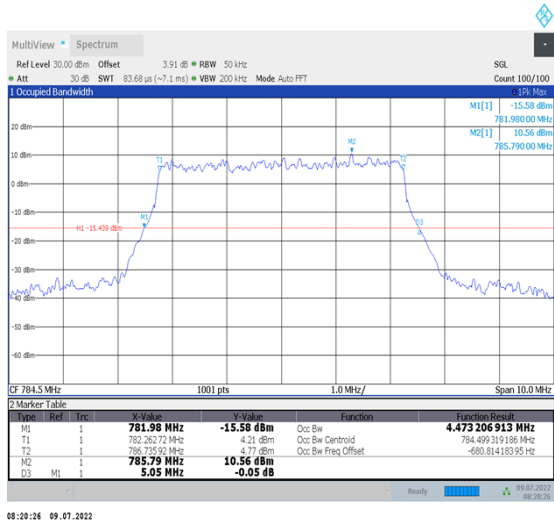
Rev.: 01

Page: 18 of 35



1-N13--15-5-H-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.467-4.960-≤5-PASS

1-N13--15-5-H-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.471-5.040-≤5-PASS



1-N13--15-5-H-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.473-5.050-≤5-PASS

1-N13--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-4.457-4.990-≤5-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

Member of the SGS Group (SGS SA)