



Appendix B

E-UTRA Band 2



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



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER.....	3
1.1.	TEST RESULT.....	3
2.	PEAK-TO-AVERAGE RATIO (CCDF).....	9
2.1.	TEST RESULT.....	9
2.2.	TEST PLOTS.....	9
3.	MODULATION CHARACTERISTICS.....	13
3.1.	TEST MODE = LTE /TM1 20MHZ.....	13
3.1.1.	TEST CHANNEL = MCH.....	13
3.2.	TEST MODE = LTE /TM2 20MHZ.....	14
3.2.1.	TEST CHANNEL = MCH.....	14
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	15
4.1.	TEST RESULT.....	15
4.2.	TEST PLOTS.....	16
5.	BAND EDGE COMPLIANCE.....	34
5.1.	TEST PLOTS.....	34
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	58
6.1.	TEST PLOTS.....	58
7.	FIELD STRENGTH OF SPURIOUS RADIATION.....	64
7.1.	TEST MODE =LTE/TM1.....	64
7.1.1.	TEST CHANNEL = LCH.....	64
7.1.2.	TEST CHANNEL = MCH.....	64
7.1.3.	TEST CHANNEL = HCH.....	65
8.	FREQUENCY STABILITY.....	66
8.1.	FREQUENCY VS VOLTAGE.....	66
8.2.	FREQUENCY VS TEMPERATURE.....	66



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	22.62	22.49	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.67	22.54	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.60	22.47	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	22.52	22.39	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	22.68	22.55	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	22.62	22.49	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.63	21.50	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.61	22.48	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.59	22.46	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.51	22.38	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	22.65	22.52	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	22.52	22.39	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	22.55	22.42	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.60	21.47	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.53	22.40	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.69	22.56	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.63	22.50	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	22.54	22.41	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	22.52	22.39	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	22.64	22.51	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.57	21.44	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.55	21.42	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.50	21.37	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.66	21.53	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	21.67	21.54	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	21.52	21.39	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	21.57	21.44	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.58	20.45	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.53	21.40	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.52	21.39	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.52	21.39	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	21.65	21.52	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	21.61	21.48	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	21.56	21.43	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.65	20.52	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.51	21.38	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.60	21.47	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.55	21.42	33.00	PASS





Band2	1.4MHz	16QAM	19193	3RB#3	21.65	21.52	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	21.50	21.37	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	21.68	21.55	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.53	20.40	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.67	22.54	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.55	22.42	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.57	22.44	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#7	21.53	21.40	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#4	21.64	21.51	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#0	21.52	21.39	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.68	21.55	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.54	22.41	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.63	22.50	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.56	22.43	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#7	21.70	21.57	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#0	21.60	21.47	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#4	21.58	21.45	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.51	21.38	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.50	22.37	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.56	22.43	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.63	22.50	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#4	21.68	21.55	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#0	21.58	21.45	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#7	21.53	21.40	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.59	21.46	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.65	21.52	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.53	21.40	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.64	21.51	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#0	20.63	20.50	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#7	20.52	20.39	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#4	20.64	20.51	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.53	20.40	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.50	21.37	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.66	21.53	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.70	21.57	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#4	20.57	20.44	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#0	20.63	20.50	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#7	20.63	20.50	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.51	20.38	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.69	21.56	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.60	21.47	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.56	21.43	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#0	20.66	20.53	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#7	20.53	20.40	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#4	20.70	20.57	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.53	20.40	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.67	22.54	33.00	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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2	5MHz	QPSK	18625	1RB#12	22.59	22.46	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.52	22.39	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#6	21.64	21.51	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#0	21.57	21.44	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#13	21.53	21.40	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.58	21.45	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.65	22.52	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.60	22.47	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.67	22.54	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#6	21.55	21.42	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.58	21.45	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.60	21.47	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.52	21.39	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.59	22.46	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.60	22.47	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.54	22.41	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#0	21.67	21.54	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.61	21.48	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.65	21.52	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.69	21.56	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.55	21.42	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.65	21.52	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.68	21.55	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#13	20.68	20.55	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#0	20.51	20.38	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#6	20.69	20.56	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.64	20.51	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.61	21.48	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.65	21.52	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.60	21.47	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#0	20.53	20.40	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#13	20.54	20.41	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#6	20.60	20.47	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.56	20.43	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.51	21.38	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.57	21.44	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.63	21.50	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.68	20.55	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#6	20.51	20.38	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#13	20.57	20.44	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.69	20.56	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.65	22.52	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.52	22.39	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.69	22.56	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#12	21.65	21.52	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#0	21.62	21.49	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#25	21.69	21.56	33.00	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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2	10MHz	QPSK	18650	50RB#0	21.52	21.39	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.69	22.56	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.66	22.53	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.69	22.56	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#0	21.58	21.45	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.54	21.41	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.61	21.48	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.67	21.54	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.51	22.38	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.57	22.44	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.66	22.53	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.60	21.47	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.55	21.42	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.57	21.44	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.54	21.41	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.69	21.56	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.70	21.57	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.67	21.54	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#0	20.51	20.38	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#12	20.51	20.38	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#25	20.65	20.52	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.68	20.55	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.51	21.38	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.67	21.54	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.62	21.49	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#25	20.68	20.55	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#12	20.68	20.55	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#0	20.53	20.40	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.55	20.42	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.59	21.46	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.60	21.47	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.52	21.39	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#25	20.58	20.45	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#12	20.58	20.45	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#0	20.69	20.56	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.62	20.49	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.62	22.49	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.52	22.39	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.68	22.55	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#39	21.64	21.51	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#18	21.63	21.50	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#0	21.56	21.43	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.58	21.45	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.51	22.38	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.63	22.50	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.65	22.52	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#0	21.62	21.49	33.00	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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2	15MHz	QPSK	18900	36RB#39	21.63	21.50	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#18	21.54	21.41	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.51	21.38	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.56	22.43	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.69	22.56	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.56	22.43	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#18	21.70	21.57	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#0	21.63	21.50	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#39	21.62	21.49	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.64	21.51	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.53	21.40	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.64	21.51	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.61	21.48	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#0	20.51	20.38	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#39	20.63	20.50	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#18	20.52	20.39	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.60	20.47	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.67	21.54	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.57	21.44	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.63	21.50	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#18	20.69	20.56	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#0	20.56	20.43	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#39	20.64	20.51	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.61	20.48	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.70	21.57	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.54	21.41	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.57	21.44	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#0	20.61	20.48	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#39	20.67	20.54	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#18	20.55	20.42	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.51	20.38	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.52	22.39	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	22.59	22.46	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.64	22.51	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.62	21.49	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#0	21.55	21.42	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#50	21.54	21.41	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.70	21.57	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.63	22.50	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.55	22.42	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.61	22.48	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#25	21.64	21.51	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#0	21.62	21.49	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#50	21.58	21.45	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.67	21.54	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.54	22.41	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.64	22.51	33.00	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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2	20MHz	QPSK	19100	1RB#99	22.62	22.49	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#0	21.64	21.51	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#25	21.66	21.53	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.53	21.40	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.61	21.48	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.54	21.41	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.57	21.44	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.59	21.46	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#50	20.53	20.40	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#0	20.62	20.49	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#25	20.60	20.47	33.00	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.54	20.41	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.56	21.43	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.50	21.37	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.55	21.42	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#0	20.58	20.45	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#50	20.56	20.43	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#25	20.59	20.46	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.58	20.45	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.60	21.47	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.62	21.49	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.54	21.41	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#0	20.52	20.39	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#25	20.65	20.52	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#50	20.62	20.49	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.52	20.39	33.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

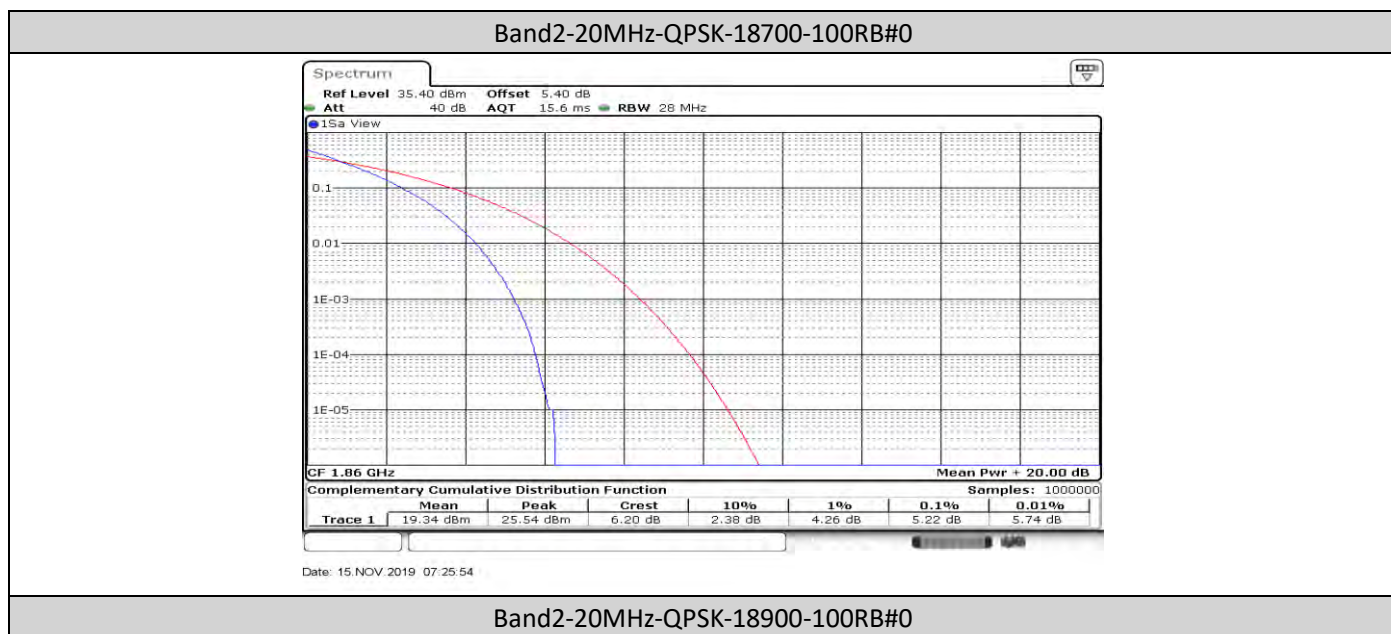


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	5.22	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.13	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.10	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.12	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.00	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	5.88	13	PASS

2.2. Test Plots



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
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-20MHz-QPSK-19100-100RB#0



Band2-20MHz-16QAM-18700-100RB#0





Band2-20MHz-16QAM-18900-100RB#0



Band2-20MHz-16QAM-19100-100RB#0



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) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

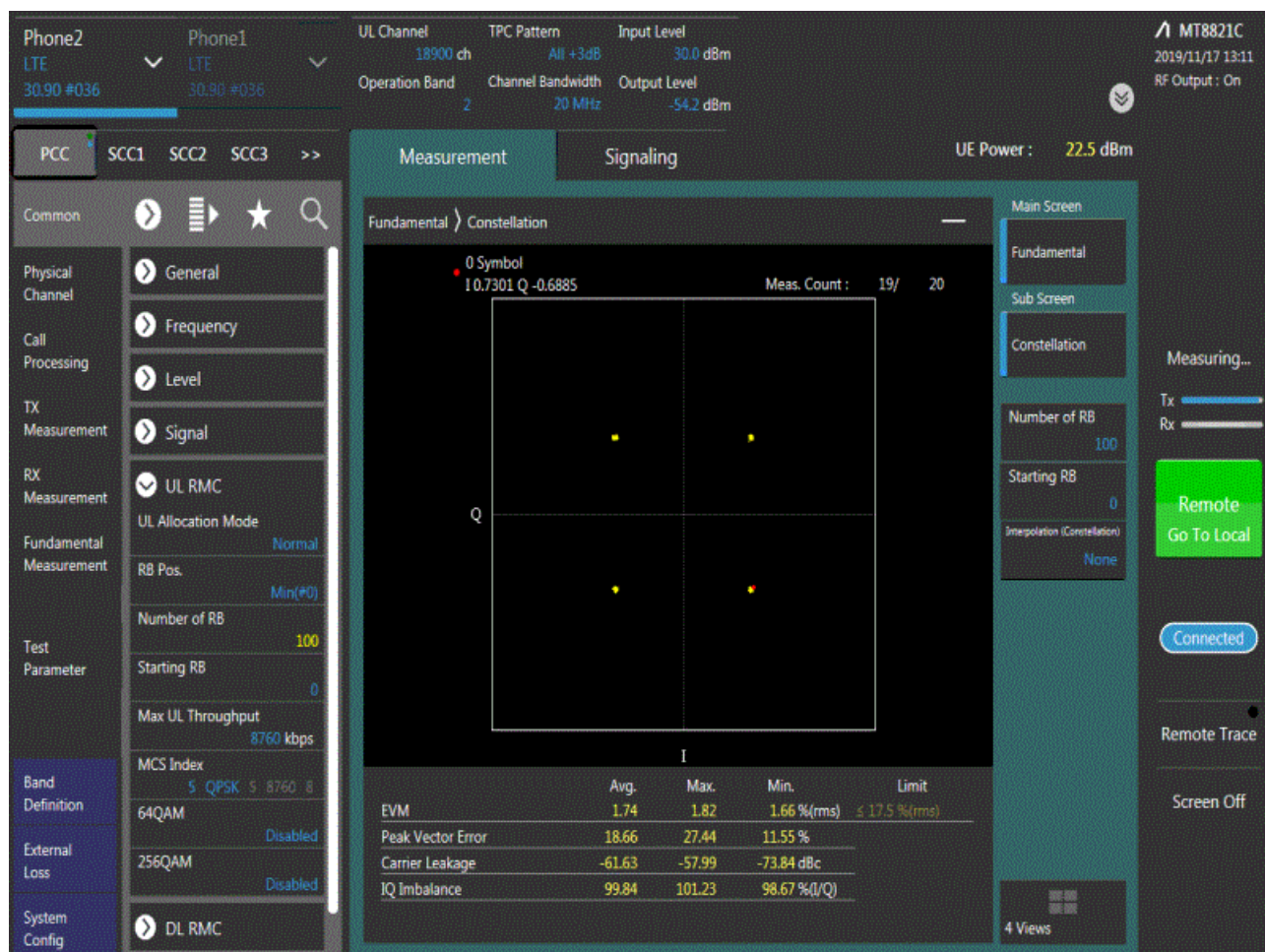




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

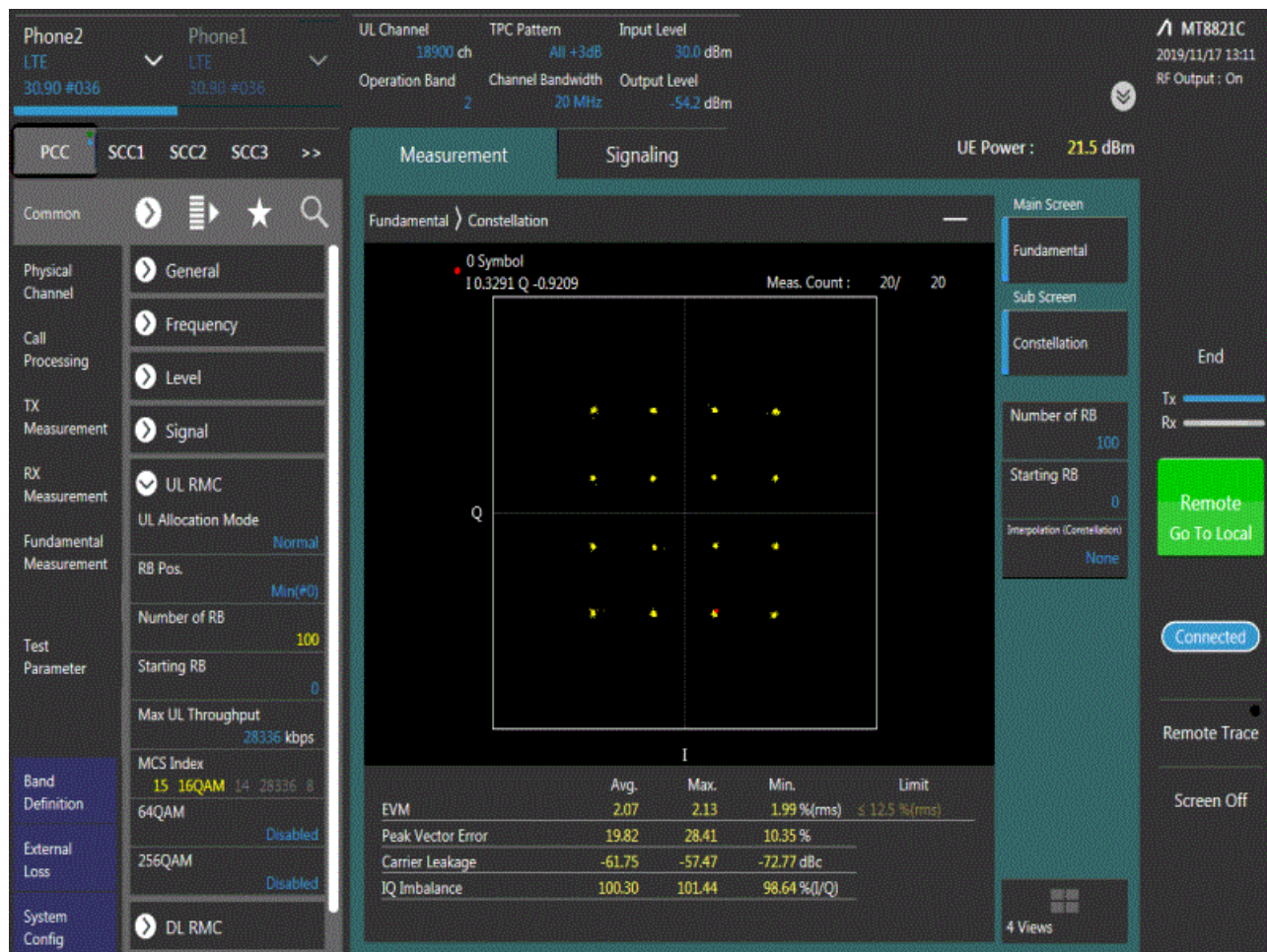
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.103	1.305	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.094	1.320	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.091	1.317	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.097	1.296	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.091	1.281	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.097	1.317	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.691	2.910	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.691	2.916	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.685	2.910	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.685	2.910	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.685	2.904	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.685	2.928	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.466	4.850	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.486	4.860	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.476	4.880	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.476	4.900	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.486	4.860	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.476	4.820	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.951	9.660	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.951	9.620	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.951	9.700	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.951	9.720	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.951	9.620	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.931	9.600	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.457	14.790	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.487	14.730	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.487	14.820	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.487	14.790	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.487	14.730	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.487	14.700	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.902	19.560	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.

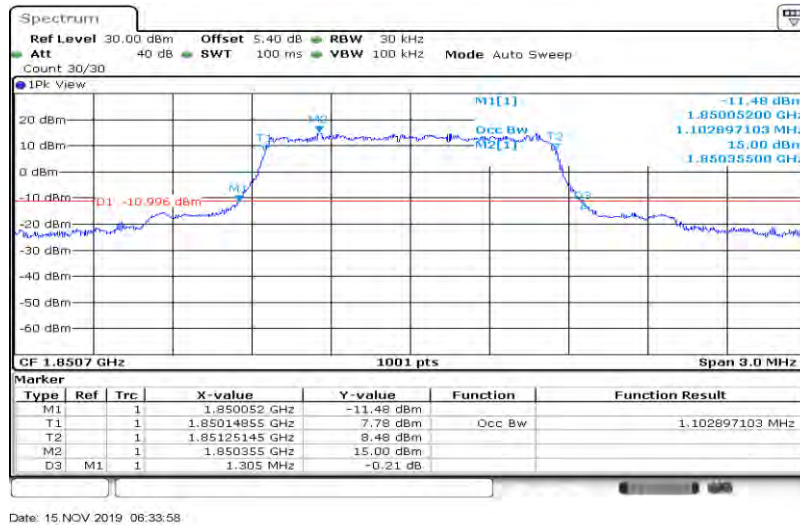
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



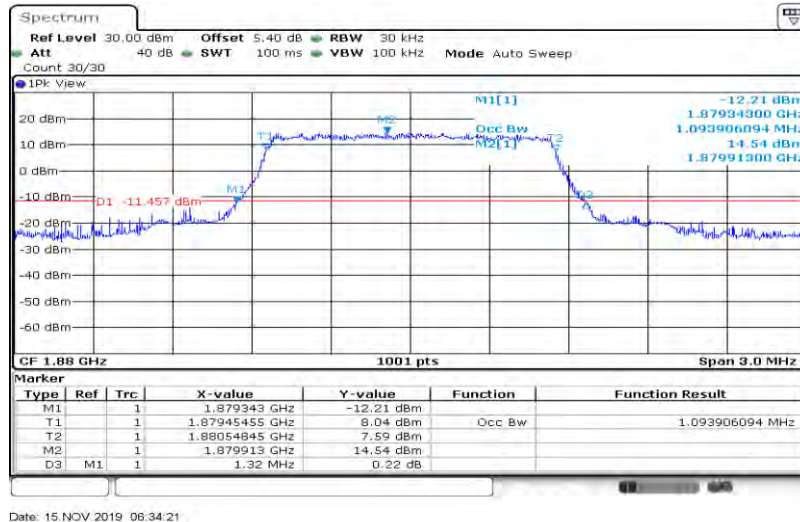
Band2	20MHz	QPSK	18900	100RB#0	17.942	19.360	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.862	19.240	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.902	19.240	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.942	19.360	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.942	19.280	PASS

4.2. Test Plots

Band2-1.4MHz-QPSK-18607-6RB#0-1.103



Band2-1.4MHz-QPSK-18900-6RB#0-1.094



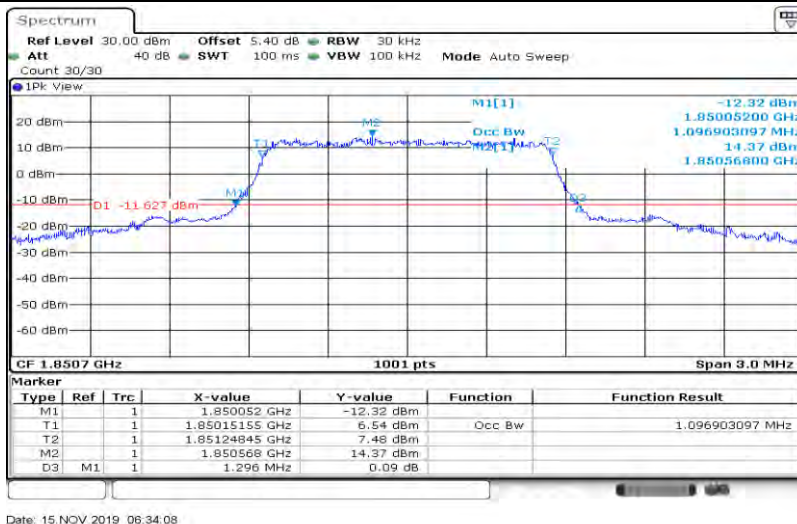
Band2-1.4MHz-QPSK-19193-6RB#0-1.091





Date: 15, NOV 2019 06:34:43

Band2-1.4MHz-16QAM-18607-6RB#0-1.097



Date: 15, NOV 2019 06:34:08

Band2-1.4MHz-16QAM-18900-6RB#0-1.091



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-1.4MHz-16QAM-19193-6RB#0-1.097



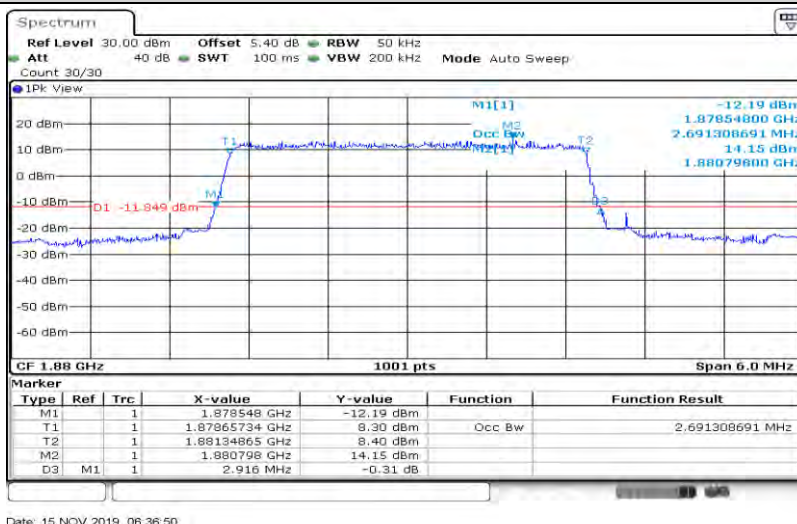
Band2-3MHz-QPSK-18615-15RB#0-2.691





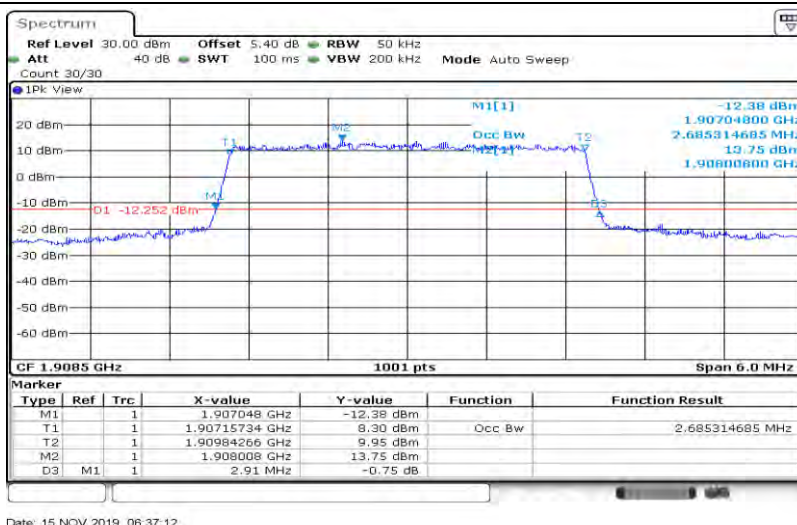
Date: 15, NOV 2019 06:36:28

Band2-3MHz-QPSK-18900-15RB#0-2.691

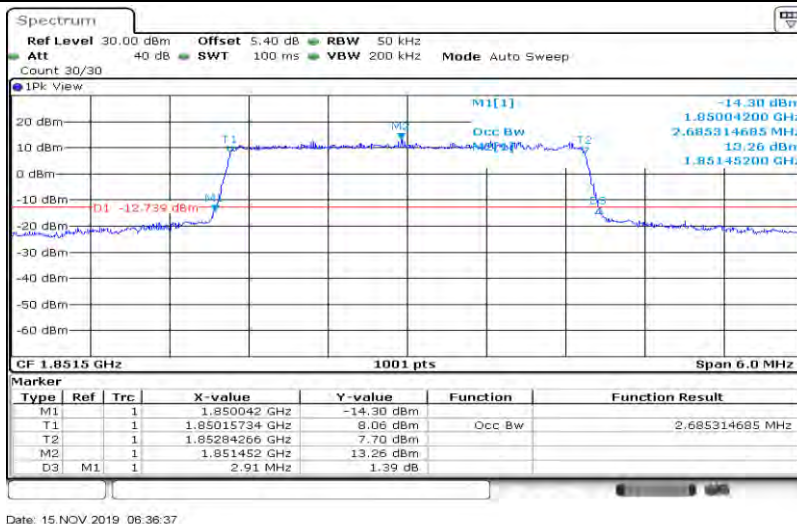


Date: 15, NOV 2019 06:36:50

Band2-3MHz-QPSK-19185-15RB#0-2.685



Band2-3MHz-16QAM-18615-15RB#0-2.685



Band2-3MHz-16QAM-18900-15RB#0-2.685



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

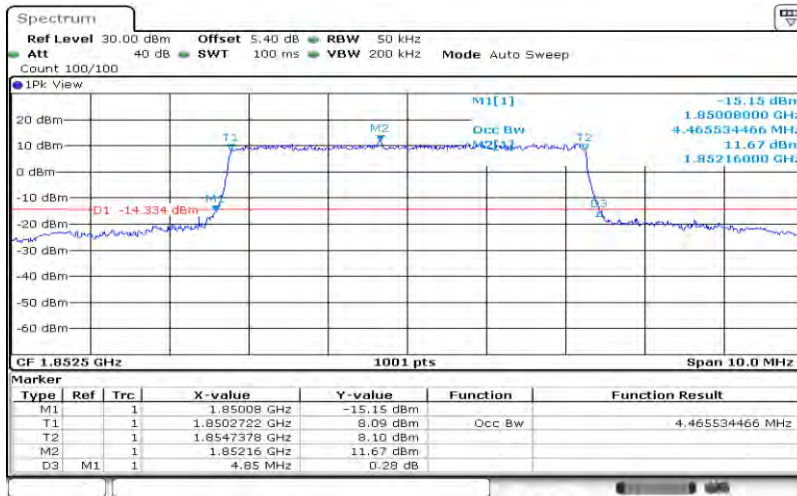


Band2-3MHz-16QAM-19185-15RB#0-2.685



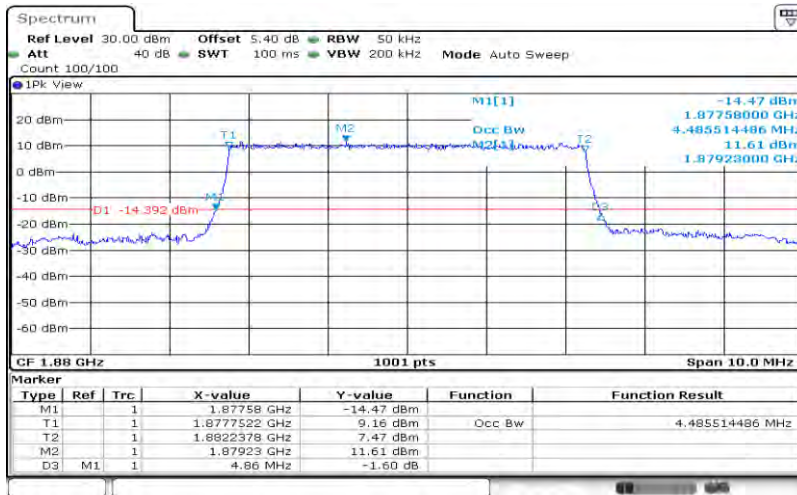
Band2-5MHz-QPSK-18625-25RB#0-4.466





Date: 15, NOV 2019 06:39:02

Band2-5MHz-QPSK-18900-25RB#0-4.486



Date: 15, NOV 2019 06:39:39

Band2-5MHz-QPSK-19175-25RB#0-4.476



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-5MHz-16QAM-18625-25RB#0-4.476



Band2-5MHz-16QAM-18900-25RB#0-4.486



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-5MHz-16QAM-19175-25RB#0-4.476



Band2-10MHz-QPSK-18650-50RB#0-8.951



Date: 15, NOV 2019 06:42:06

Band2-10MHz-QPSK-18900-50RB#0-8.951



Date: 15, NOV 2019 06:42:29

Band2-10MHz-QPSK-19150-50RB#0-8.951



Date: 15, NOV 2019 06:42:51

Band2-10MHz-16QAM-18650-50RB#0-8.951

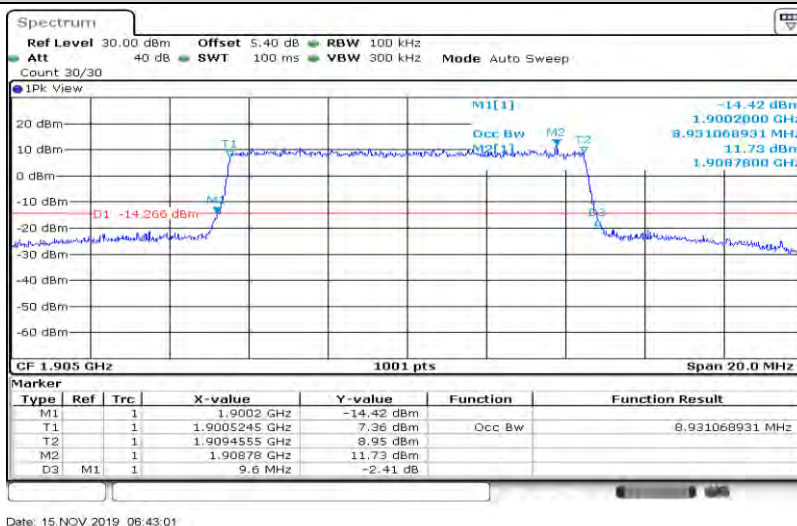


Date: 15, NOV 2019 06:42:16

Band2-10MHz-16QAM-18900-50RB#0-8.951



Band2-10MHz-16QAM-19150-50RB#0-8.931



Band2-15MHz-QPSK-18675-75RB#0-13.457



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 and certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 15, NOV 2019 06:44:36

Band2-15MHz-QPSK-18900-75RB#0-13.487



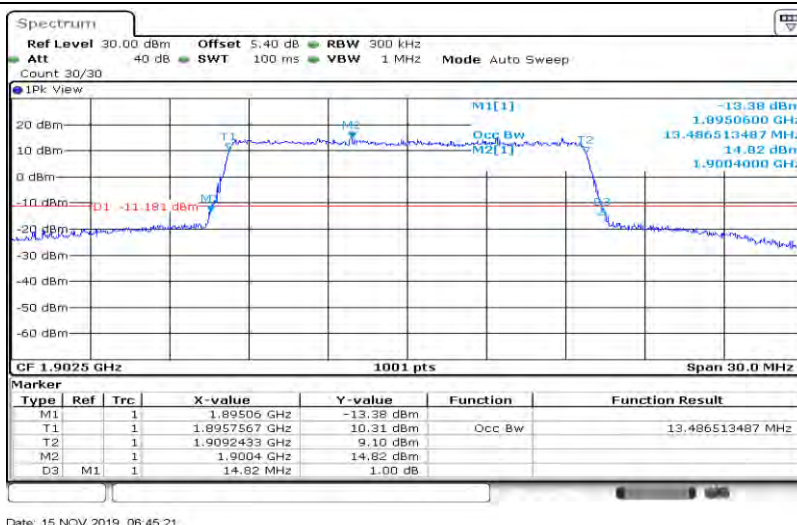
Date: 15, NOV 2019 06:44:58

Band2-15MHz-QPSK-19125-75RB#0-13.487

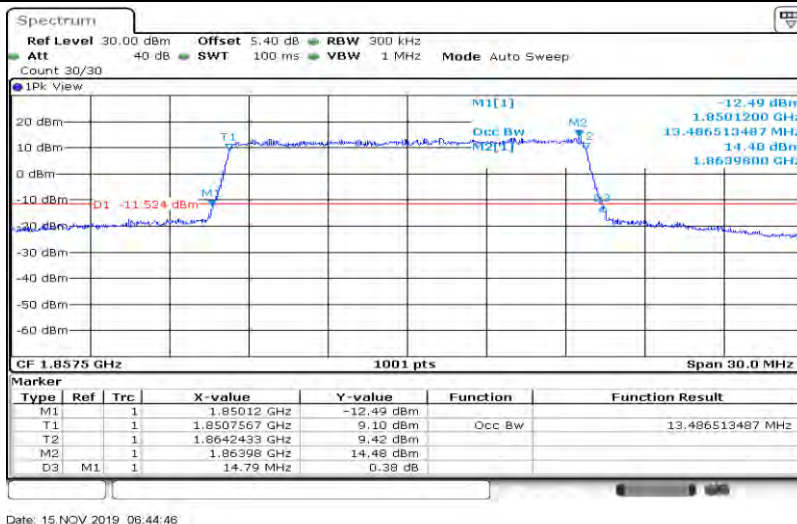


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

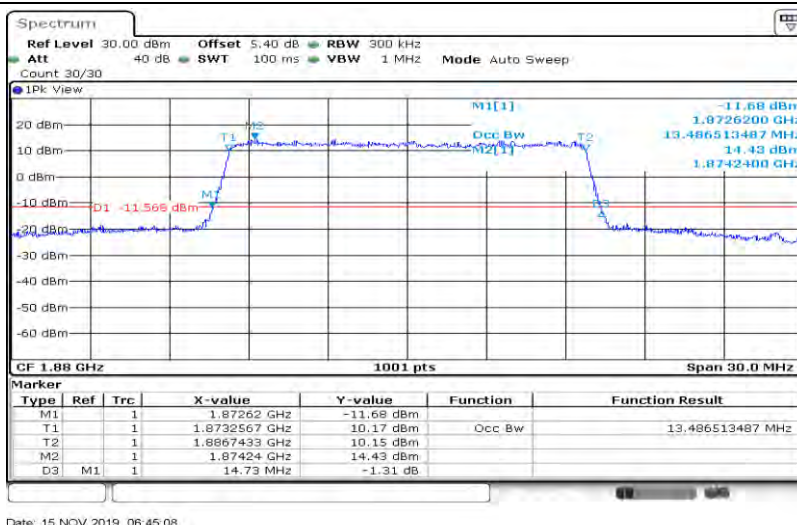


Band2-15MHz-16QAM-18675-75RB#0-13.487

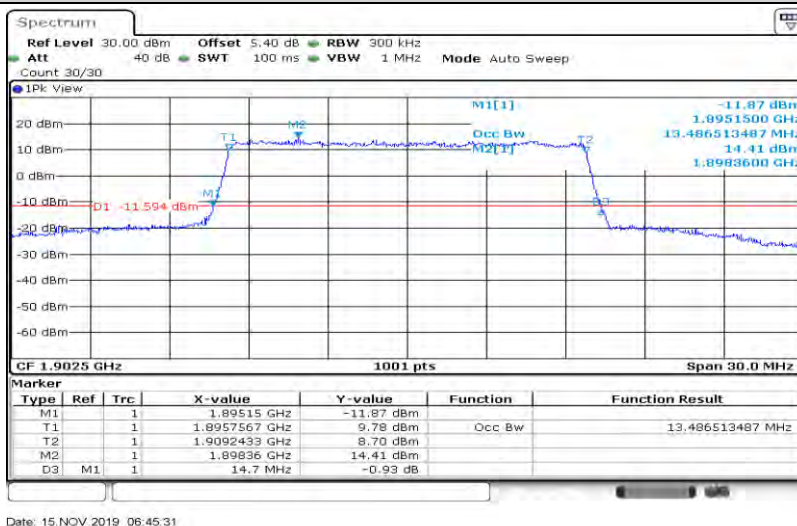


Band2-15MHz-16QAM-18900-75RB#0-13.487





Band2-15MHz-16QAM-19125-75RB#0-13.487



Band2-20MHz-QPSK-18700-100RB#0-17.902



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-20MHz-QPSK-18900-100RB#0-17.942

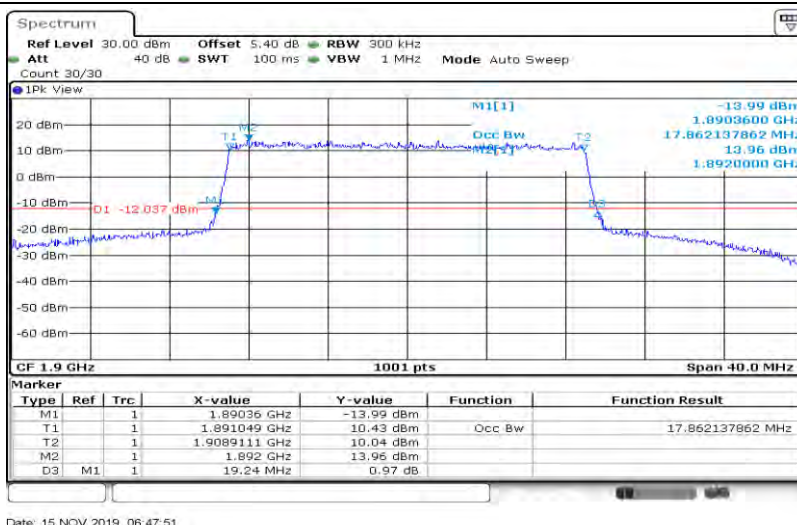


Band2-20MHz-QPSK-19100-100RB#0-17.862



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-20MHz-16QAM-18700-100RB#0-17.902



Band2-20MHz-16QAM-18900-100RB#0-17.942





Band2-20MHz-16QAM-19100-100RB#0-17.942





5. Band Edge Compliance

5.1. Test Plots

Band2-1.4MHz-QPSK-18607-1RB#0



Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-19193-1RB#5



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-1.4MHz-QPSK-19193-6RB#0



Band2-1.4MHz-16QAM-18607-1RB#0





Date: 15, NOV 2019 06:50:02

Band2-1.4MHz-16QAM-18607-6RB#0



Date: 15, NOV 2019 06:54:44

Band2-1.4MHz-16QAM-19193-1RB#5

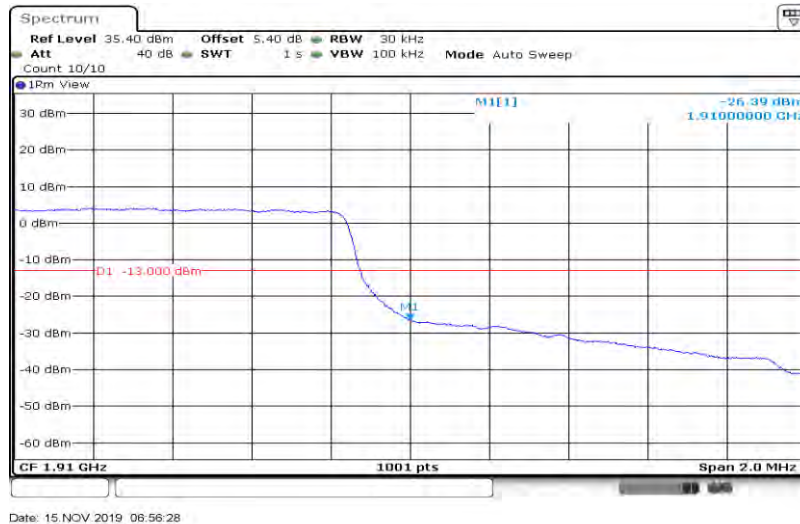


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-1.4MHz-16QAM-19193-6RB#0



Band2-3MHz-QPSK-18615-1RB#0





Date: 15, NOV 2019 06:58:12

Band2-3MHz-QPSK-18615-15RB#0



Date: 15, NOV 2019 07:00:39

Band2-3MHz-QPSK-19185-1RB#14





Band2-3MHz-QPSK-19185-15RB#0



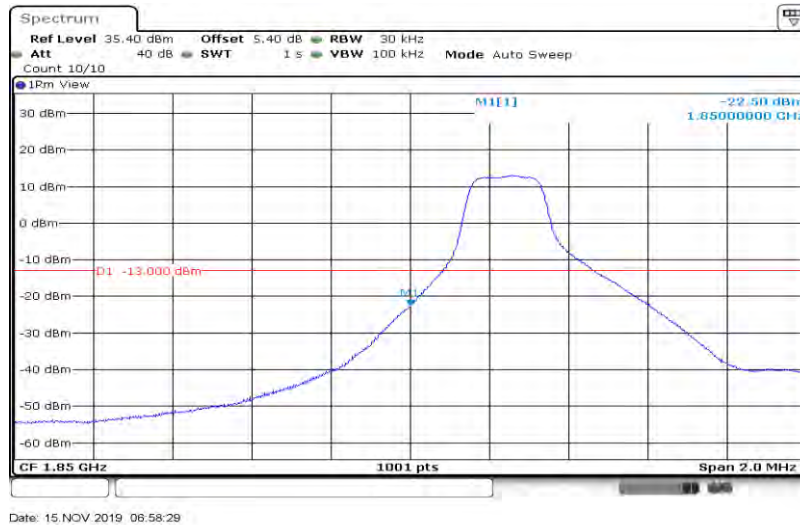
Band2-3MHz-16QAM-18615-1RB#0



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.

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-3MHz-16QAM-18615-15RB#0



Band2-3MHz-16QAM-19185-1RB#14



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-3MHz-16QAM-19185-15RB#0



Band2-5MHz-QPSK-18625-1RB#0

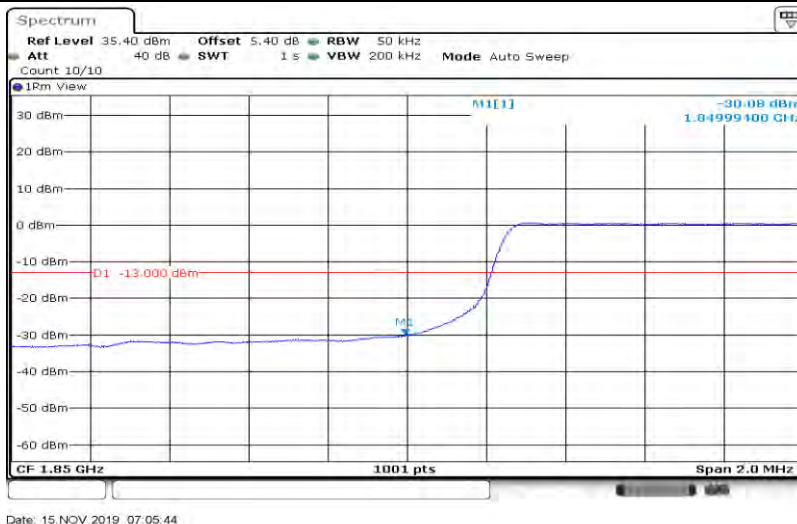


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-5MHz-QPSK-18625-25RB#0



Band2-5MHz-QPSK-19175-1RB#24





Date: 15, NOV 2019 07:04:30

Band2-5MHz-QPSK-19175-25RB#0



Date: 15, NOV 2019 07:06:20

Band2-5MHz-16QAM-18625-1RB#0



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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Testing Center, EEC Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 15, NOV 2019 07:03:32

Band2-5MHz-16QAM-18625-25RB#0



Date: 15, NOV 2019 07:06:01

Band2-5MHz-16QAM-19175-1RB#24



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com.
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 15, NOV 2019 07:04:47

Band2-5MHz-16QAM-19175-25RB#0



Date: 15, NOV 2019 07:06:37

Band2-10MHz-QPSK-18650-1RB#0





Date: 15, NOV 2019 07:08:21

Band2-10MHz-QPSK-18650-50RB#0



Date: 15, NOV 2019 07:10:51

Band2-10MHz-QPSK-19150-1RB#49

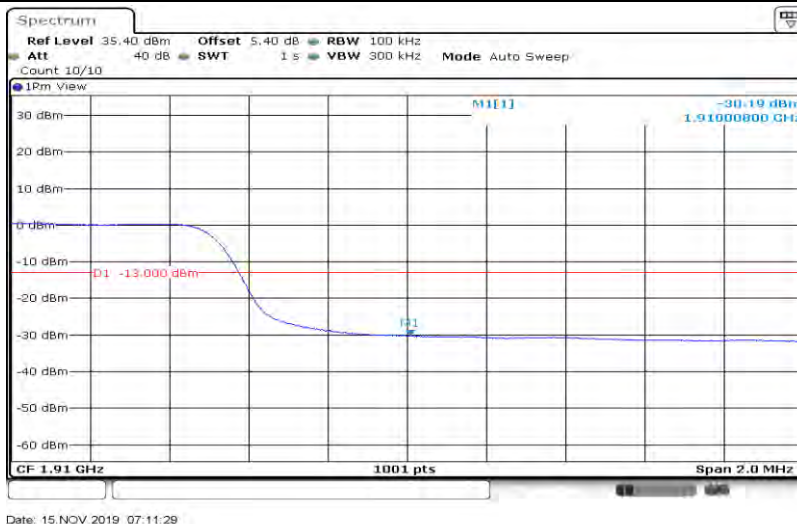


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-10MHz-QPSK-19150-50RB#0

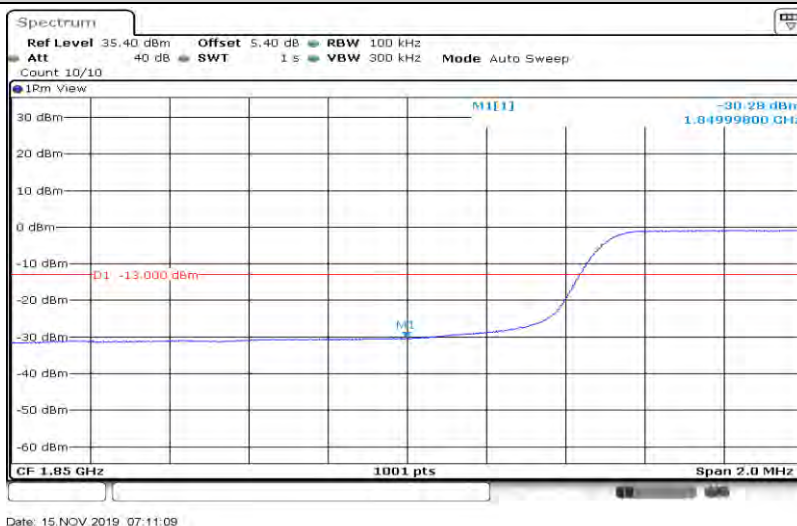


Band2-10MHz-16QAM-18650-1RB#0





Band2-10MHz-16QAM-18650-50RB#0



Band2-10MHz-16QAM-19150-1RB#49



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-10MHz-16QAM-19150-50RB#0



Band2-15MHz-QPSK-18675-1RB#0





Date: 15, NOV 2019 07:13:30

Band2-15MHz-QPSK-18675-75RB#0



Date: 15, NOV 2019 07:16:03

Band2-15MHz-QPSK-19125-1RB#74



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-15MHz-QPSK-19125-75RB#0



Band2-15MHz-16QAM-18675-1RB#0

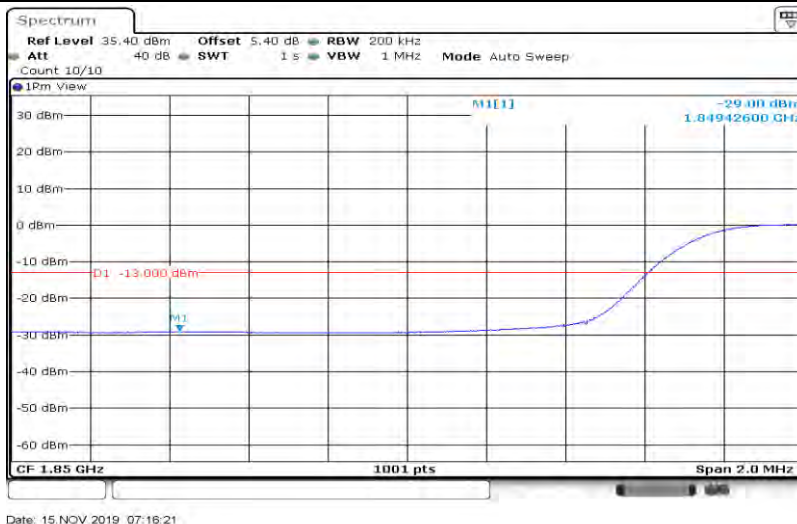


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-15MHz-16QAM-18675-75RB#0



Band2-15MHz-16QAM-19125-1RB#74





Band2-15MHz-16QAM-19125-75RB#0



Band2-20MHz-QPSK-18700-1RB#0





Band2-20MHz-QPSK-18700-100RB#0



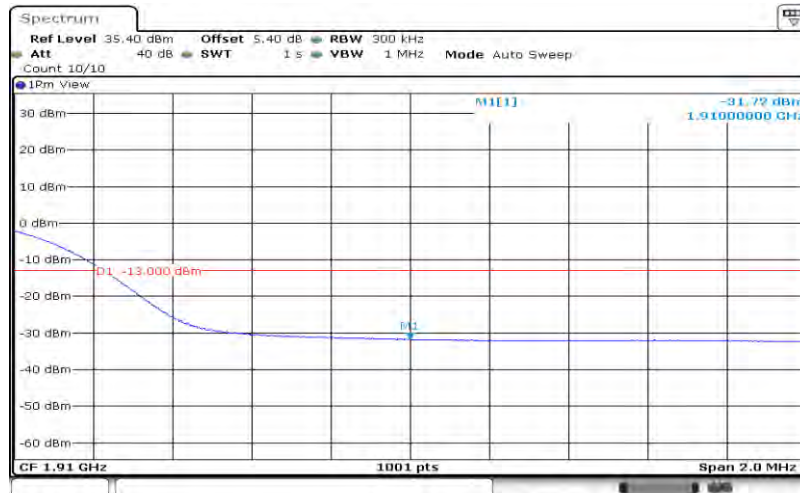
Band2-20MHz-QPSK-19100-1RB#99





Date: 15 NOV 2019 07:20:03

Band2-20MHz-QPSK-19100-100RB#0



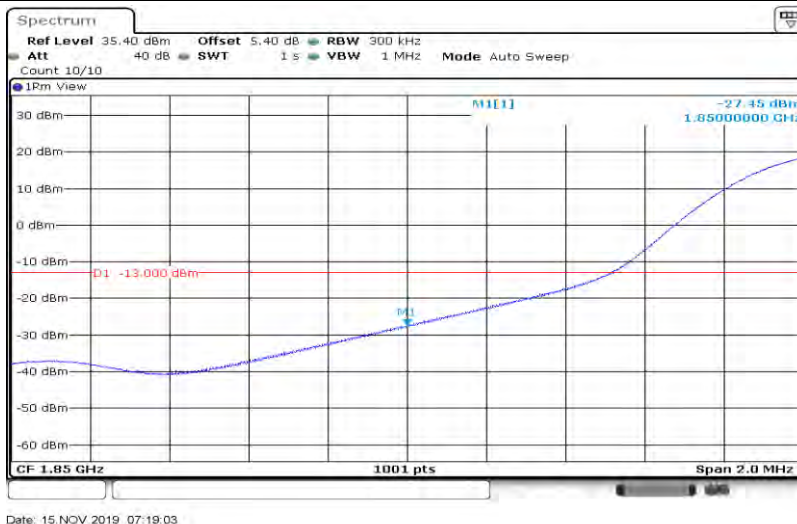
Date: 15 NOV 2019 07:22:01

Band2-20MHz-16QAM-18700-1RB#0

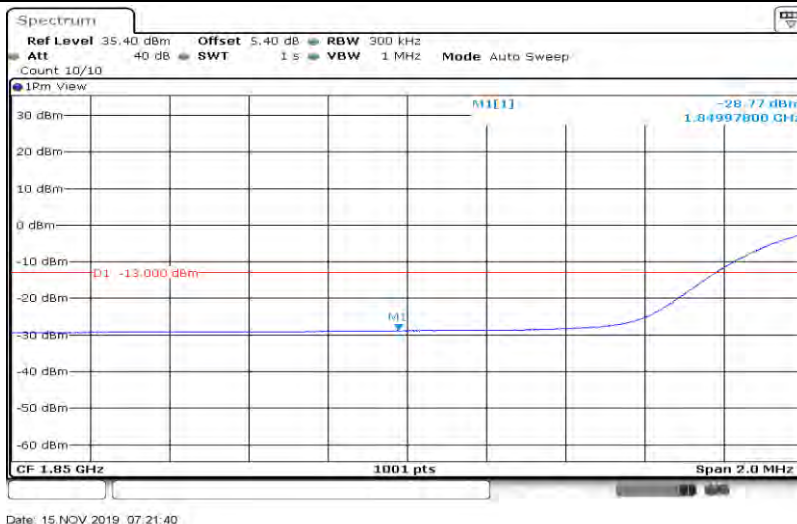


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-20MHz-16QAM-18700-100RB#0



Band2-20MHz-16QAM-19100-1RB#99



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 15, NOV 2019 07:20:22

Band2-20MHz-16QAM-19100-100RB#0



Date: 15, NOV 2019 07:22:19



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

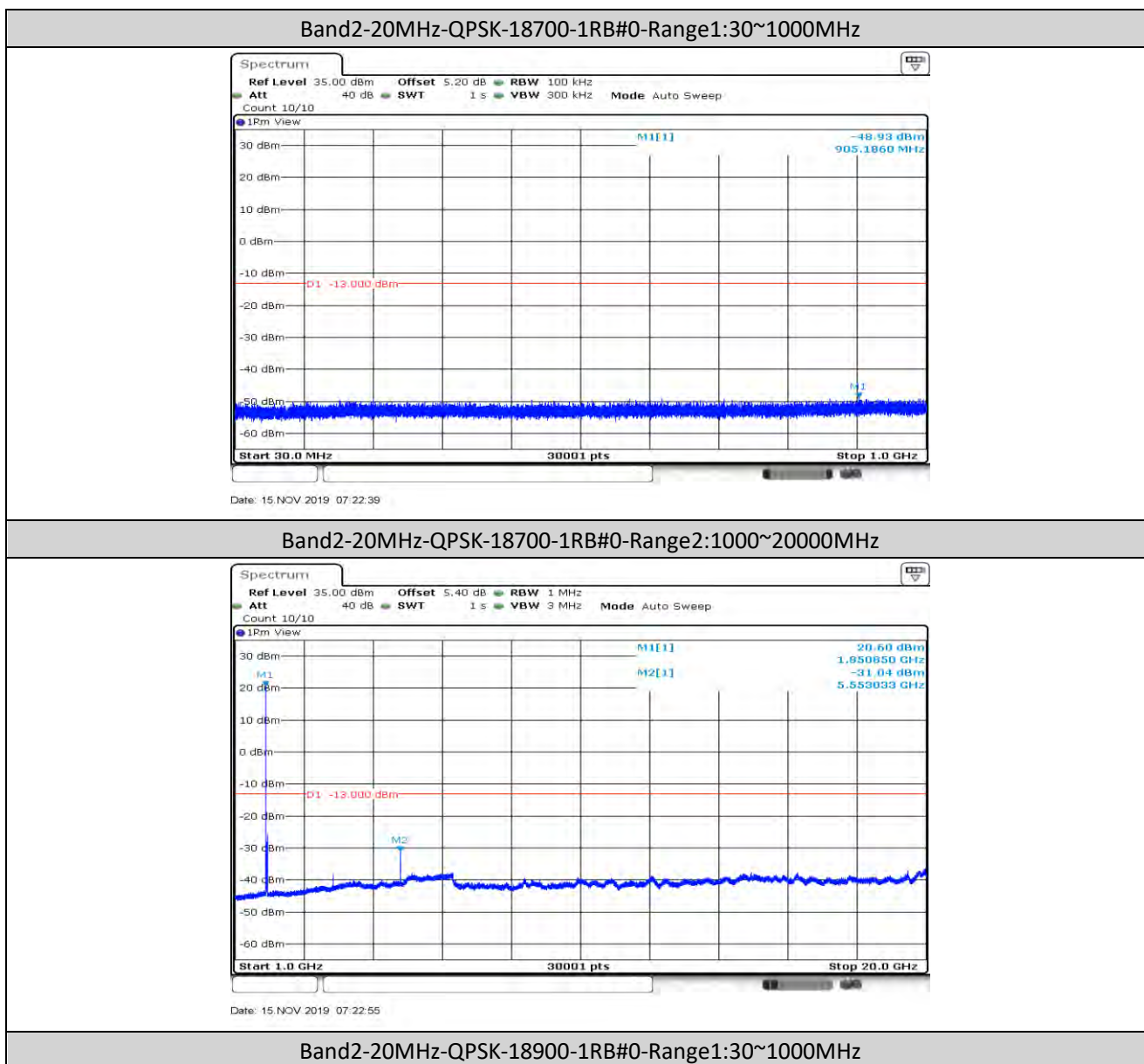


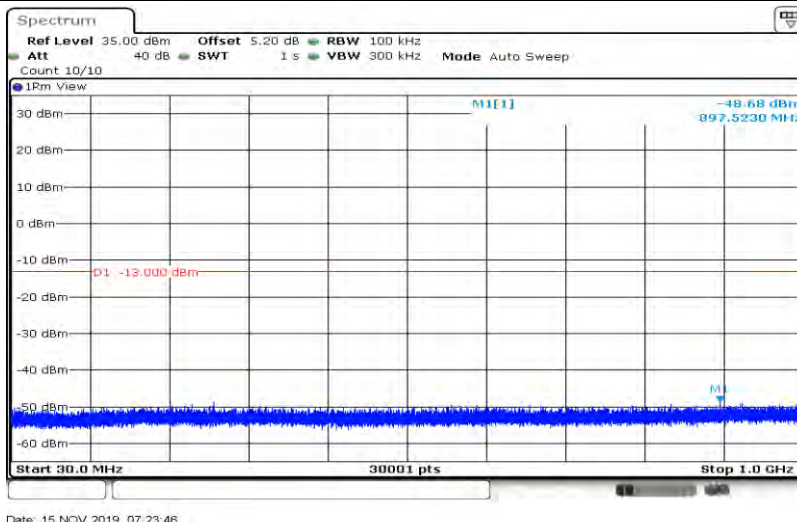
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

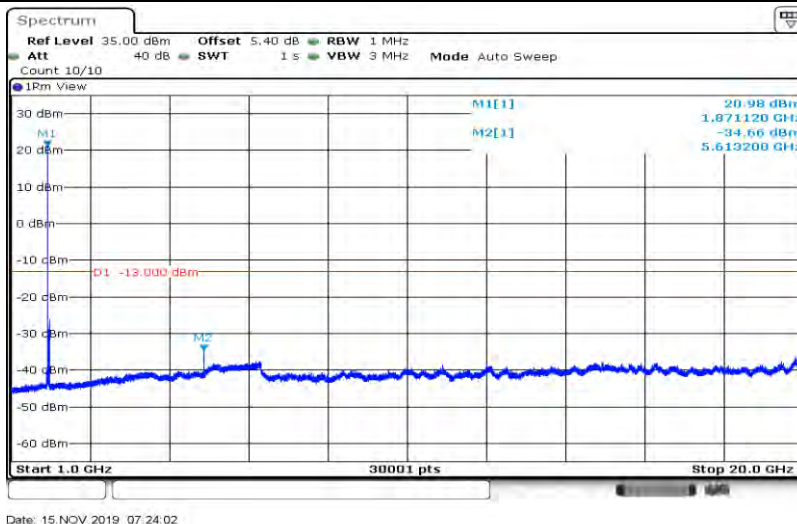
Remark2: only the worst case data displayed in this report.

6.1. Test Plots





Band2-20MHz-QPSK-18900-1RB#0-Range2:1000~20000MHz



Band2-20MHz-QPSK-19100-1RB#0-Range1:30~1000MHz

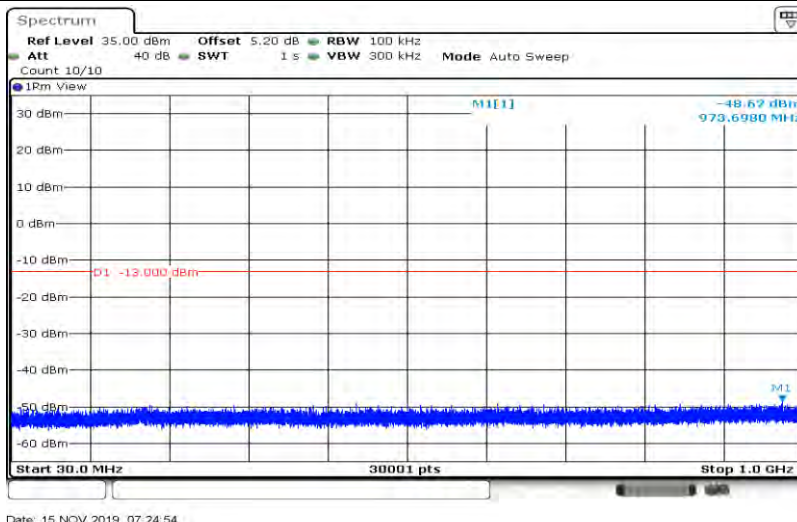


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

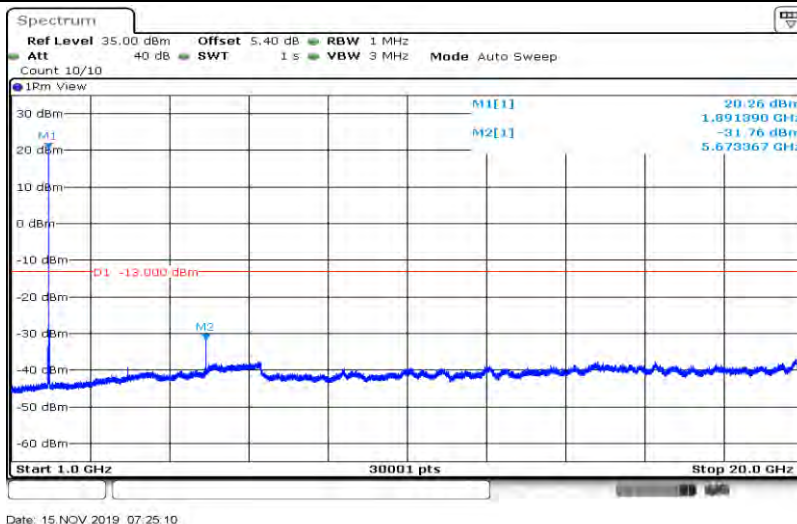
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



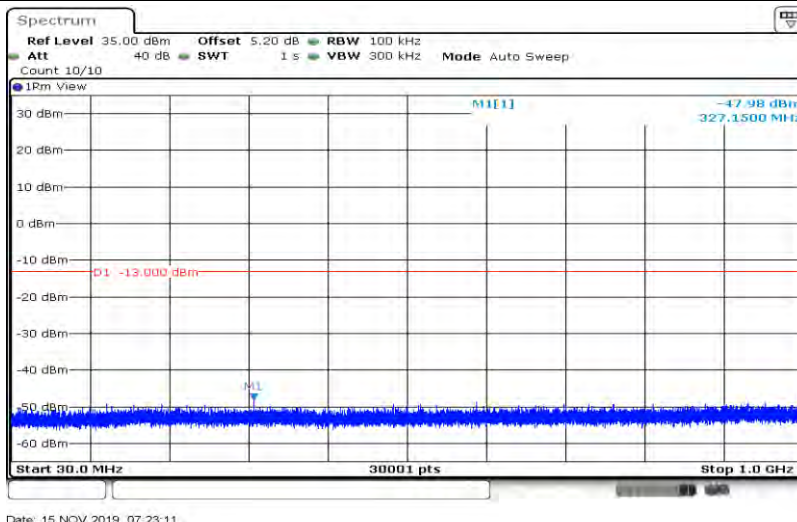
Band2-20MHz-QPSK-19100-1RB#0-Range2:1000~20000MHz



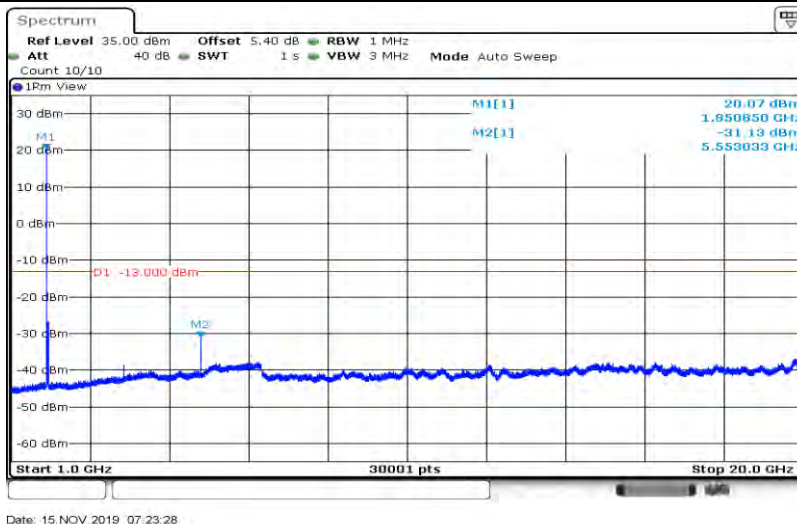
Band2-20MHz-16QAM-18700-1RB#0-Range1:30~1000MHz



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



Band2-20MHz-16QAM-18700-1RB#0-Range2:1000~20000MHz

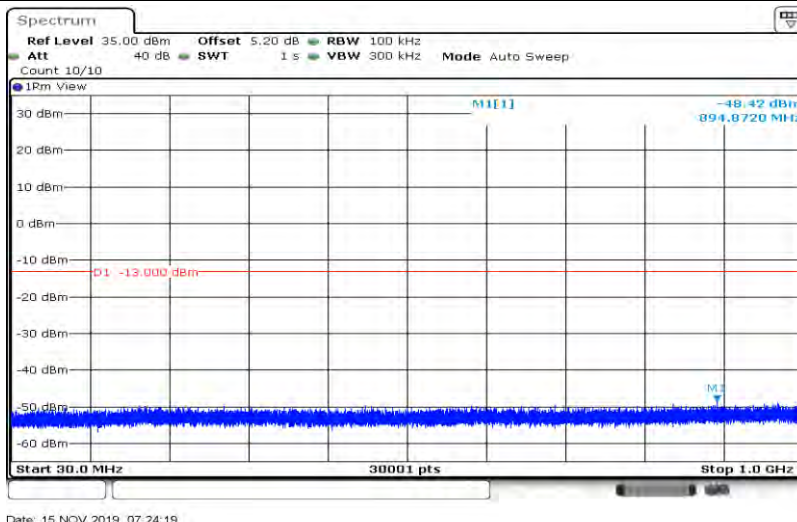


Band2-20MHz-16QAM-18900-1RB#0-Range1:30~1000MHz

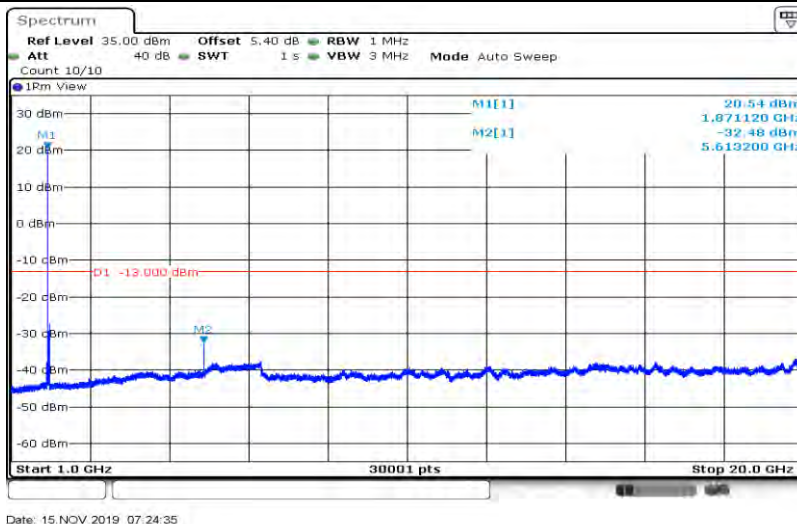


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-20MHz-16QAM-18900-1RB#0-Range2:1000~20000MHz

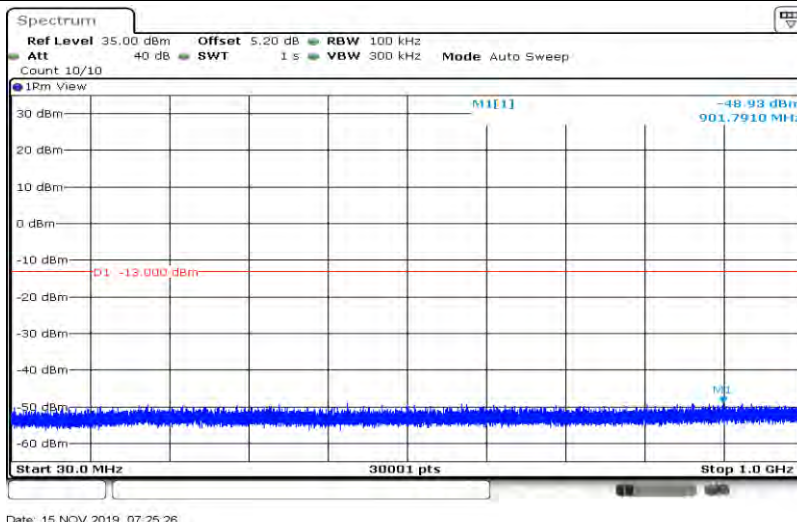


Band2-20MHz-16QAM-19100-1RB#0-Range1:30~1000MHz

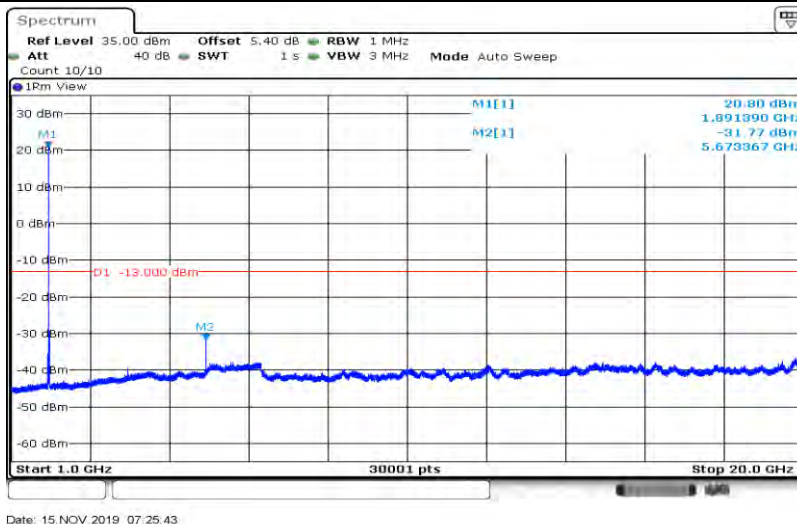


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2-20MHz-16QAM-19100-1RB#0-Range2:1000~20000MHz



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.



7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.0661	-65.15	-13.00	52.15	Vertical
3702.0234	-41.94	-13.00	28.94	Vertical
5553.0851	-49.12	-13.00	36.12	Vertical
7404.1468	-34.43	-13.00	21.43	Vertical
9255.2085	-42.50	-13.00	29.50	Vertical
17996.4999	-34.22	-13.00	21.22	Vertical
42.9501	-64.30	-13.00	51.30	Horizontal
243.7017	-68.22	-13.00	55.22	Horizontal
3702.0234	-42.43	-13.00	29.43	Horizontal
5553.0851	-44.37	-13.00	31.37	Horizontal
7404.1468	-39.34	-13.00	26.34	Horizontal
16398.4466	-38.25	-13.00	25.25	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.7751	-64.29	-13.00	51.29	Vertical
454.2992	-67.20	-13.00	54.20	Vertical
3742.0247	-46.72	-13.00	33.72	Vertical
5613.0871	-50.45	-13.00	37.45	Vertical
7484.6495	-40.86	-13.00	27.86	Vertical
17998.5000	-34.19	-13.00	21.19	Vertical
42.9987	-63.66	-13.00	50.66	Horizontal
232.5461	-68.15	-13.00	55.15	Horizontal
3742.5248	-46.42	-13.00	33.42	Horizontal
5613.0871	-50.96	-13.00	37.96	Horizontal
7484.6495	-43.98	-13.00	30.98	Horizontal
16402.9468	-38.48	-13.00	25.48	Horizontal



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.5465	-71.31	-13.00	58.31	Vertical
110.0775	-65.12	-13.00	52.12	Vertical
3782.0261	-46.96	-13.00	33.96	Vertical
5673.5891	-48.70	-13.00	35.70	Vertical
7564.1521	-41.50	-13.00	28.50	Vertical
17995.4999	-34.19	-13.00	21.19	Vertical
45.1328	-64.93	-13.00	51.93	Horizontal
246.4178	-68.04	-13.00	55.04	Horizontal
3782.0261	-46.57	-13.00	33.57	Horizontal
5673.5891	-47.00	-13.00	34.00	Horizontal
7564.6522	-47.70	-13.00	34.70	Horizontal
16386.9462	-38.57	-13.00	25.57	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	11.74	0.006312	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	-12.22	-0.006570	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	-9.20	-0.004946	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-18.24	-0.009702	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-20.91	-0.011122	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-17.48	-0.009298	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	-14.93	-0.007858	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	-16.09	-0.008468	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	-18.25	-0.009605	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VL	NT	-15.32	-0.008237	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VN	NT	-17.15	-0.009220	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VH	NT	-10.80	-0.005806	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VL	NT	-14.56	-0.007745	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VN	NT	-18.25	-0.009707	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VH	NT	-19.47	-0.010356	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VL	NT	-15.26	-0.008032	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VN	NT	-17.71	-0.009321	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VH	NT	-17.19	-0.009047	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	-12.45	-0.006694	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	-12.75	-0.006855	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	-13.56	-0.007290	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	-13.70	-0.007366	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	-16.25	-0.008737	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	-13.06	-0.007022	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	-13.05	-0.007016	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	-14.22	-0.007645	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-15.11	-0.008037	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-23.65	-0.012580	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-23.27	-0.012378	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-19.96	-0.010617	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-18.22	-0.009691	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-19.04	-0.010128	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-19.93	-0.010601	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-19.96	-0.010617	±2.5	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
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-17.61	-0.009268	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	-16.04	-0.008442	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-19.78	-0.010411	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-18.57	-0.009774	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-18.41	-0.009689	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-20.31	-0.010689	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-37.19	-0.019574	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-18.87	-0.009932	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-30	-13.06	-0.007022	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-20	-17.01	-0.009145	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	0	13.76	0.007398	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	10	-15.23	-0.008188	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	20	-13.73	-0.007382	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	30	-12.23	-0.006575	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	40	-14.89	-0.008005	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	50	-20.69	-0.011124	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-30	-20.37	-0.010835	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-20	-17.15	-0.009122	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	0	-21.99	-0.011697	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	10	-19.61	-0.010431	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	20	-19.77	-0.010516	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	30	-17.21	-0.009154	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	40	-21.90	-0.011649	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	50	-31.47	-0.016739	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-30	-16.98	-0.008937	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-20	-18.05	-0.009500	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	0	-24.39	-0.012837	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	10	-20.56	-0.010821	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	20	-18.90	-0.009947	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	30	-19.94	-0.010495	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	40	-15.41	-0.008111	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	50	-21.74	-0.011442	±2.5	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) 83071443, or email: CN.Doccheck@sgs.com

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com