



Appendix B

E-UTRA Band 7



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	4
1.1.	TEST RESULT	4
2.	PEAK-TO-AVERAGE RATIO (CCDF)	20
2.1.	TEST RESULT	20
2.2.	TEST PLOTS.....	20
3.	MODULATION CHARACTERISTICS	25
3.1.	TEST BAND = LTE BAND 7	25
3.1.1.	TEST MODE = LTE /TM1 20MHZ	25
3.1.1.1.	TEST CHANNEL = MCH.....	25
3.1.2.	TEST MODE = LTE /TM2 20MHZ	26
3.1.2.1.	TEST CHANNEL = MCH.....	26
3.1.3.	TEST MODE = LTE /TM3 20MHZ	27
3.1.3.1.	TEST CHANNEL = MCH.....	27
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	28
4.1.	TEST RESULT	28
4.2.	TEST PLOTS.....	29
5.	BAND EDGE COMPLIANCE	47
5.1.	TEST RESULT	ERROR! BOOKMARK NOT DEFINED.
5.2.	TEST PLOTS.....	47
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	71
6.1.	TEST RESULT	ERROR! BOOKMARK NOT DEFINED.
6.2.	TEST PLOTS.....	71
7.	FIELD STRENGTH OF SPURIOUS RADIATION.....	80
7.1.	TEST BAND = LTE BAND 7	80
7.1.1.	TEST MODE =LTE/TM1 20MHZ.....	80
7.1.1.1.	TEST CHANNEL = LCH	80
7.1.1.2.	TEST CHANNEL = MCH.....	80
7.1.1.3.	TEST CHANNEL = HCH	81





8.	FREQUENCY STABILITY	83
8.1.	FREQUENCY VS VOLTAGE	83
8.2.	FREQUENCY VS TEMPERATURE	83



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



1 Effective (Isotropic) Radiated Power

1.1. Test Result for Down Ant

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.97	25.17	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.97	25.17	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.96	25.16	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.19	24.39	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.15	24.35	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.12	24.32	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.08	24.28	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.95	25.15	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.98	25.18	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.87	25.07	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.06	24.26	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.03	24.23	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.11	24.31	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.96	24.16	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.17	25.37	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.62	24.82	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.30	24.50	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.73	23.93	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.71	23.91	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.60	23.80	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.65	23.85	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.49	23.69	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.44	23.64	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.16	23.36	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#0	20.34	22.54	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#6	20.31	22.51	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#13	20.31	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
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



Band7	5MHz	64QAM	20775	25RB#0	20.30	22.50	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.03	23.23	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.38	23.58	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.03	23.23	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#13	21.01	23.21	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#6	20.30	22.50	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#0	20.23	22.43	33.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.26	22.46	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#0	20.67	22.87	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.44	23.64	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.36	23.56	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#0	21.10	23.30	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#6	20.33	22.53	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#13	20.28	22.48	33.00	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.18	22.38	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.14	24.34	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.14	24.34	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.32	24.52	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.14	23.34	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.07	23.27	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.12	23.32	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.25	23.45	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.31	24.51	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.19	24.39	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.24	24.44	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.02	23.22	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.14	23.34	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.08	23.28	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.03	23.23	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.19	24.39	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.02	24.22	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.65	23.85	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.68	22.88	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 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



Band7	5MHz	16QAM	21425	12RB#6	20.61	22.81	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.44	22.64	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.67	22.87	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.93	25.13	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.94	25.14	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.80	25.00	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.02	24.22	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.15	24.35	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.03	24.23	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.07	24.27	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.04	25.24	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.85	25.05	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.90	25.10	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.98	24.18	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.00	24.20	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.12	24.32	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.07	24.27	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.94	25.14	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.19	25.39	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.53	24.73	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.17	24.37	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.95	24.15	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.70	23.90	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.82	24.02	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.38	23.58	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.28	23.48	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.69	23.89	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#0	20.21	22.41	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#12	20.26	22.46	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#25	20.31	22.51	33.00	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.24	22.44	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.01	23.21	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.15	23.35	33.00	PASS





Band7	10MHz	64QAM	21100	1RB#24	21.05	23.25	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#0	20.82	23.02	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#12	20.29	22.49	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#25	20.34	22.54	33.00	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.29	22.49	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#0	20.88	23.08	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.70	23.90	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.65	23.85	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#25	20.88	23.08	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#0	20.32	22.52	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#12	20.36	22.56	33.00	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.36	22.56	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.24	24.44	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.46	24.66	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.00	24.20	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.00	23.20	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.02	23.22	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.14	23.34	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.14	23.34	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.14	24.34	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.53	24.73	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.02	24.22	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.00	23.20	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.02	23.22	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.93	23.13	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.01	23.21	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.37	24.57	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.40	24.60	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.70	23.90	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.20	23.40	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.02	23.22	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.76	22.96	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.88	23.08	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-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
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



Band7	15MHz	QPSK	20825	1RB#74	23.11	25.31	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.12	25.32	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.15	25.35	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.21	24.41	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.27	24.47	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.17	24.37	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.20	24.40	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.11	25.31	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.22	25.42	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.22	25.42	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	22.21	24.41	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.24	24.44	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.23	24.43	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.10	24.30	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.24	25.44	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.20	25.40	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.76	24.96	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.34	24.54	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.37	24.57	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	22.08	24.28	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.37	24.57	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#74	20.64	22.84	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#38	20.55	22.75	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#0	20.30	22.50	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#0	19.49	21.69	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#18	19.46	21.66	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#39	19.41	21.61	33.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	19.44	21.64	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.14	23.34	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.50	23.70	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.16	23.36	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#39	21.12	23.32	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#0	20.41	22.61	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, Inspection & Testing Services 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



Band7	15MHz	64QAM	21100	36RB#18	20.37	22.57	33.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.37	22.57	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.34	23.54	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#38	20.55	22.75	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#74	20.50	22.70	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#18	20.24	22.44	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#0	19.47	21.67	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#39	19.42	21.62	33.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	19.31	21.51	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.28	24.48	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.58	24.78	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.40	24.60	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	21.17	23.37	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.36	23.56	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.26	23.46	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.28	23.48	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.49	24.69	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.36	24.56	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.39	24.59	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.21	23.41	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	21.24	23.44	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	21.29	23.49	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.14	23.34	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.61	24.81	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.09	24.29	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.17	24.37	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	21.20	23.40	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	21.39	23.59	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	21.07	23.27	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.34	23.54	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.19	25.39	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.99	25.19	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.96	25.16	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, Inspection & Testing Services 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



Band7	20MHz	QPSK	20850	50RB#25	22.36	24.56	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.32	24.52	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.26	24.46	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.24	24.44	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.17	25.37	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.04	25.24	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.03	25.23	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.27	24.47	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.26	24.46	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.25	24.45	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.22	24.42	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.25	25.45	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.97	25.17	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.90	25.10	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.38	24.58	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.39	24.59	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.31	24.51	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.38	24.58	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.50	23.70	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.71	23.91	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.27	23.47	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#50	20.21	22.41	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#0	20.41	22.61	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#25	20.37	22.57	33.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.28	22.48	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.29	23.49	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.05	23.25	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#99	20.89	23.09	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#0	20.98	23.18	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#25	20.20	22.40	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#50	20.23	22.43	33.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.31	22.51	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.33	23.53	33.00	PASS





Band7	20MHz	64QAM	21350	1RB#0	21.58	23.78	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.33	23.53	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#0	21.50	23.70	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#50	20.21	22.41	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#25	20.11	22.31	33.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.27	22.47	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.40	24.60	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.52	24.72	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.37	24.57	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.20	23.40	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.19	23.39	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.26	23.46	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.24	23.44	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.90	25.10	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.32	24.52	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.37	24.57	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.32	23.52	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.34	23.54	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.26	23.46	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.29	23.49	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.60	24.80	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.52	24.72	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.96	24.16	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.28	23.48	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.49	23.69	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.38	23.58	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.33	23.53	33.00	PASS

1.2. Test Result for Up Ant

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	19.51	21.71	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	19.60	21.80	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	19.50	21.70	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 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



Band7	5MHz	QPSK	20775	12RB#6	18.60	20.80	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	18.65	20.85	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	18.61	20.81	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	18.60	20.80	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	19.30	21.50	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	19.44	21.64	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	19.40	21.60	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	18.57	20.77	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	18.55	20.75	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	18.55	20.75	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	18.48	20.68	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	19.48	21.68	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	19.54	21.74	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	19.29	21.49	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	18.62	20.82	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	18.50	20.70	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	18.60	20.80	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	18.55	20.75	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#0	18.07	20.27	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#24	18.04	20.24	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#12	18.08	20.28	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#0	16.76	18.96	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#6	16.87	19.07	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#13	16.81	19.01	33.00	PASS
Band7	5MHz	64QAM	20775	25RB#0	16.79	18.99	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#0	17.61	19.81	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#12	18.05	20.25	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#24	18.29	20.49	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#13	17.90	20.10	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#6	16.73	18.93	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#0	16.70	18.90	33.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	16.70	18.90	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#0	17.44	19.64	33.00	PASS





Band7	5MHz	64QAM	21425	1RB#12	18.15	20.35	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#24	18.03	20.23	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#0	18.10	20.30	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#6	16.75	18.95	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#13	16.88	19.08	33.00	PASS
Band7	5MHz	64QAM	21425	25RB#0	16.78	18.98	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	19.14	21.34	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	18.93	21.13	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	18.78	20.98	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	17.63	19.83	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	17.57	19.77	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	17.61	19.81	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	17.61	19.81	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	18.76	20.96	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	18.73	20.93	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	18.66	20.86	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	17.54	19.74	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	17.49	19.69	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	17.64	19.84	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	17.61	19.81	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	18.34	20.54	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	19.03	21.23	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	18.60	20.80	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	17.59	19.79	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	17.57	19.77	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	17.54	19.74	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	17.44	19.64	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	19.40	21.60	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	19.54	21.74	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	19.37	21.57	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	18.55	20.75	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	18.64	20.84	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	18.64	20.84	33.00	PASS





Band7	10MHz	QPSK	20800	50RB#0	18.67	20.87	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	19.51	21.71	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	19.54	21.74	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	19.47	21.67	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	18.56	20.76	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	18.53	20.73	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	18.62	20.82	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	18.54	20.74	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	19.31	21.51	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	19.39	21.59	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	19.27	21.47	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	18.42	20.62	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	18.45	20.65	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	18.56	20.76	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	18.57	20.77	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#24	18.40	20.60	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#49	18.18	20.38	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#0	17.88	20.08	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#0	16.95	19.15	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#12	16.92	19.12	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#25	16.74	18.94	33.00	PASS
Band7	10MHz	64QAM	20800	50RB#0	16.80	19.00	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#49	17.49	19.69	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#0	18.14	20.34	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#24	18.34	20.54	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#0	18.12	20.32	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#12	16.79	18.99	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#25	16.80	19.00	33.00	PASS
Band7	10MHz	64QAM	21100	50RB#0	16.75	18.95	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#0	17.47	19.67	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#49	18.51	20.71	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#24	18.21	20.41	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#25	18.30	20.50	33.00	PASS





Band7	10MHz	64QAM	21400	25RB#0	16.86	19.06	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#12	16.81	19.01	33.00	PASS
Band7	10MHz	64QAM	21400	50RB#0	16.73	18.93	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	18.63	20.83	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	18.77	20.97	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	19.10	21.30	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	17.54	19.74	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	17.77	19.97	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	17.67	19.87	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	17.67	19.87	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	19.21	21.41	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	18.81	21.01	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	18.53	20.73	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	17.69	19.89	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	17.67	19.87	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	17.55	19.75	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	17.49	19.69	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	18.72	20.92	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	18.63	20.83	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	19.36	21.56	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	17.67	19.87	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	17.63	19.83	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	17.57	19.77	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	17.47	19.67	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	19.81	22.01	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	19.68	21.88	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	19.72	21.92	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	18.77	20.97	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	18.85	21.05	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	18.80	21.00	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	18.83	21.03	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	19.73	21.93	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	19.59	21.79	33.00	PASS





Band7	15MHz	QPSK	21100	1RB#74	19.63	21.83	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	18.77	20.97	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	18.75	20.95	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	18.74	20.94	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	18.64	20.84	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	19.77	21.97	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	19.69	21.89	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	19.42	21.62	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	18.70	20.90	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	18.79	20.99	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	18.76	20.96	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	18.75	20.95	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#74	17.93	20.13	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#38	17.92	20.12	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#0	18.20	20.40	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#0	16.85	19.05	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#18	16.93	19.13	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#39	16.89	19.09	33.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	16.77	18.97	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#38	17.74	19.94	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#74	18.27	20.47	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#0	18.40	20.60	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#39	18.17	20.37	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#0	16.91	19.11	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#18	16.68	18.88	33.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	16.84	19.04	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#0	17.84	20.04	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#38	18.62	20.82	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#74	17.77	19.97	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#18	18.35	20.55	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#0	16.72	18.92	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#39	16.84	19.04	33.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	16.70	18.90	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.

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, Inspection & Testing Services 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



Band7	15MHz	16QAM	20825	1RB#38	18.95	21.15	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	19.22	21.42	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	19.09	21.29	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	17.82	20.02	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	17.86	20.06	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	17.89	20.09	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	17.89	20.09	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	18.85	21.05	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	18.90	21.10	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	19.26	21.46	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	17.81	20.01	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	17.81	20.01	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	17.79	19.99	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	17.74	19.94	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	19.16	21.36	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	19.24	21.44	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	18.90	21.10	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	17.76	19.96	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	17.82	20.02	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	17.82	20.02	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	17.84	20.04	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	19.73	21.93	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	19.48	21.68	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	19.41	21.61	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	18.89	21.09	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	18.88	21.08	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	18.76	20.96	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.87	21.07	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	19.83	22.03	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	19.63	21.83	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	19.74	21.94	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	18.76	20.96	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	18.74	20.94	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-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, Inspection & Testing Services 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



Band7	20MHz	QPSK	21100	50RB#50	18.74	20.94	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.72	20.92	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	19.84	22.04	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	19.58	21.78	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	19.73	21.93	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	18.75	20.95	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	18.78	20.98	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	18.76	20.96	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.78	20.98	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#0	18.11	20.31	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#49	18.11	20.31	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#99	17.66	19.86	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#50	16.89	19.09	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#0	16.74	18.94	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#25	16.93	19.13	33.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	16.89	19.09	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#0	17.80	20.00	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#49	18.02	20.22	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#99	17.98	20.18	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#0	17.71	19.91	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#25	16.88	19.08	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#50	16.82	19.02	33.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	16.74	18.94	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#99	17.82	20.02	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#0	18.50	20.70	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#49	18.06	20.26	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#0	17.69	19.89	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#50	16.85	19.05	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#25	16.80	19.00	33.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	16.79	18.99	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	19.02	21.22	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	19.06	21.26	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	19.03	21.23	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



Band7	20MHz	16QAM	20850	50RB#0	17.95	20.15	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	17.88	20.08	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	17.91	20.11	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.82	20.02	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	18.98	21.18	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	18.79	20.99	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	19.10	21.30	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	17.85	20.05	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	17.69	19.89	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	17.81	20.01	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.80	20.00	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	19.35	21.55	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	18.78	20.98	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	18.64	20.84	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	17.80	20.00	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	17.83	20.03	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	17.86	20.06	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.82	20.02	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

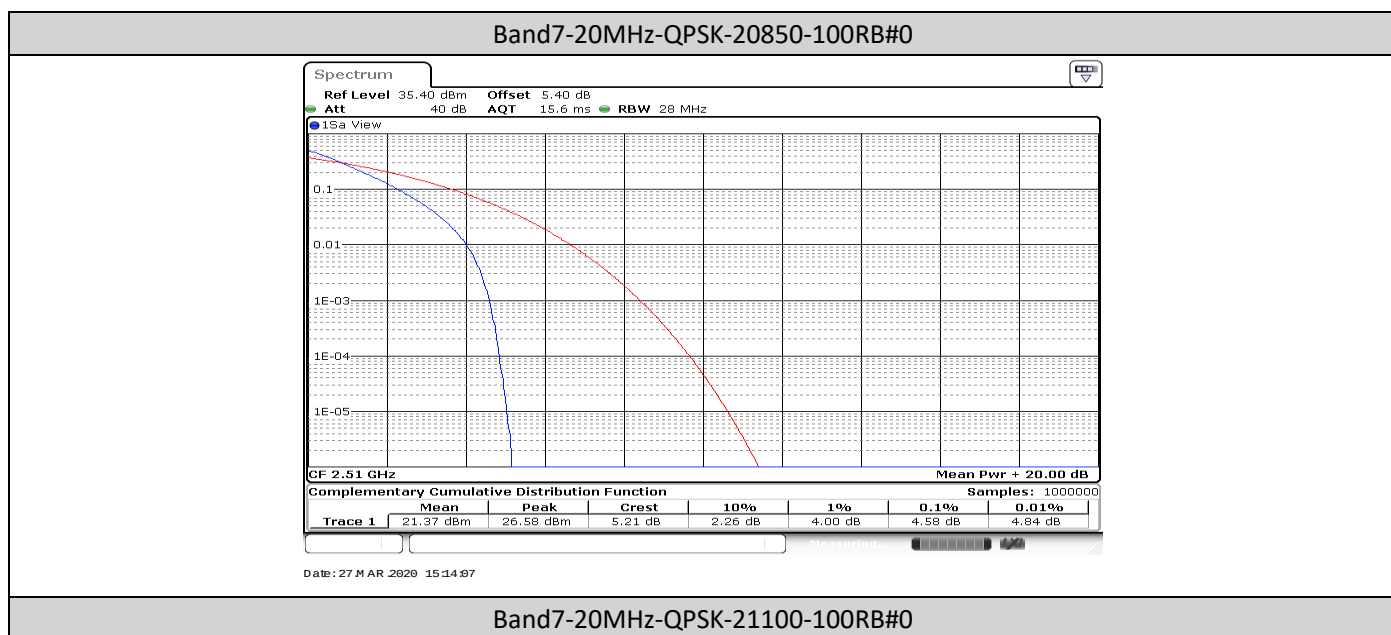


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	4.58	13.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.87	13.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.70	13.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.14	13.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.43	13.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.64	13.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.45	13.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.77	13.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.59	13.00	PASS

2.2. Test Plots





Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-64QAM-20850-100RB#0





Band7-20MHz-64QAM-21100-100RB#0



Band7-20MHz-64QAM-21350-100RB#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-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



Band7-20MHz-16QAM-20850-100RB#0



Band7-20MHz-16QAM-21100-100RB#0





Band7-20MHz-16QAM-21350-100RB#0



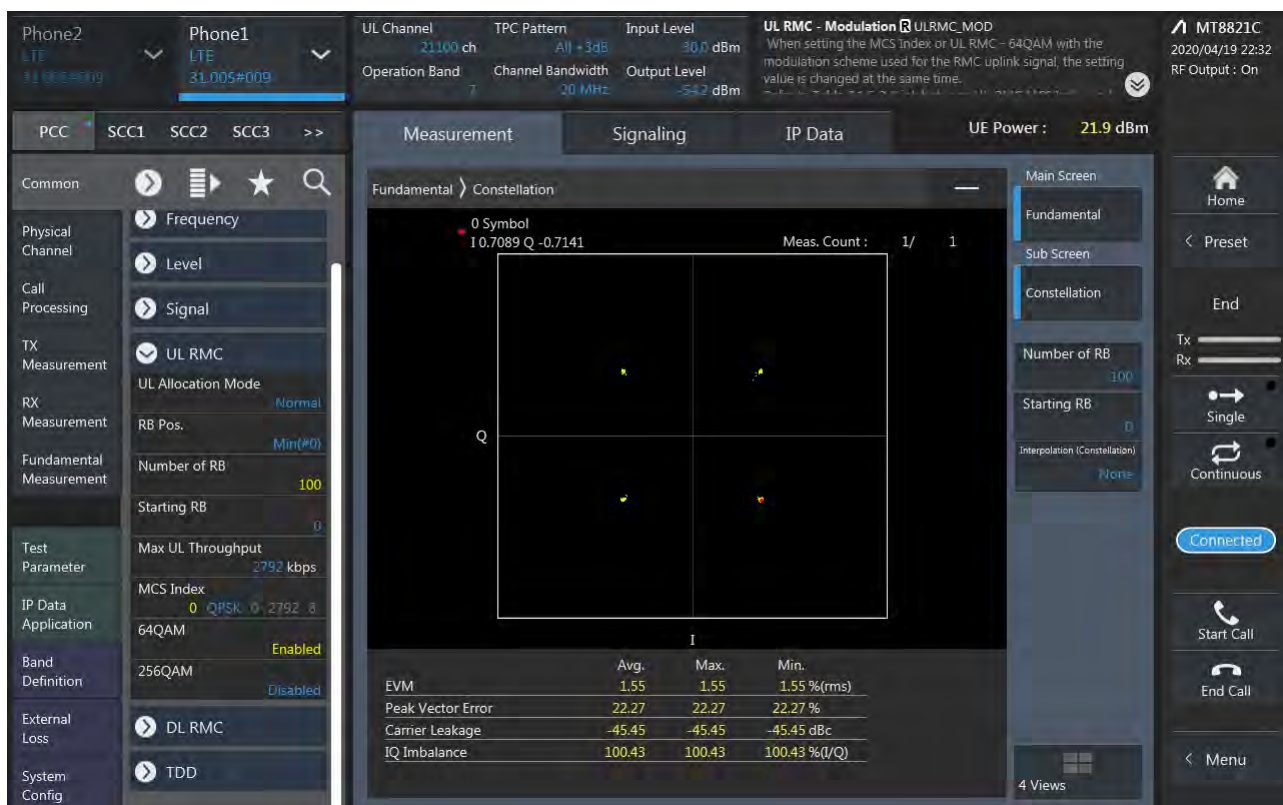


3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



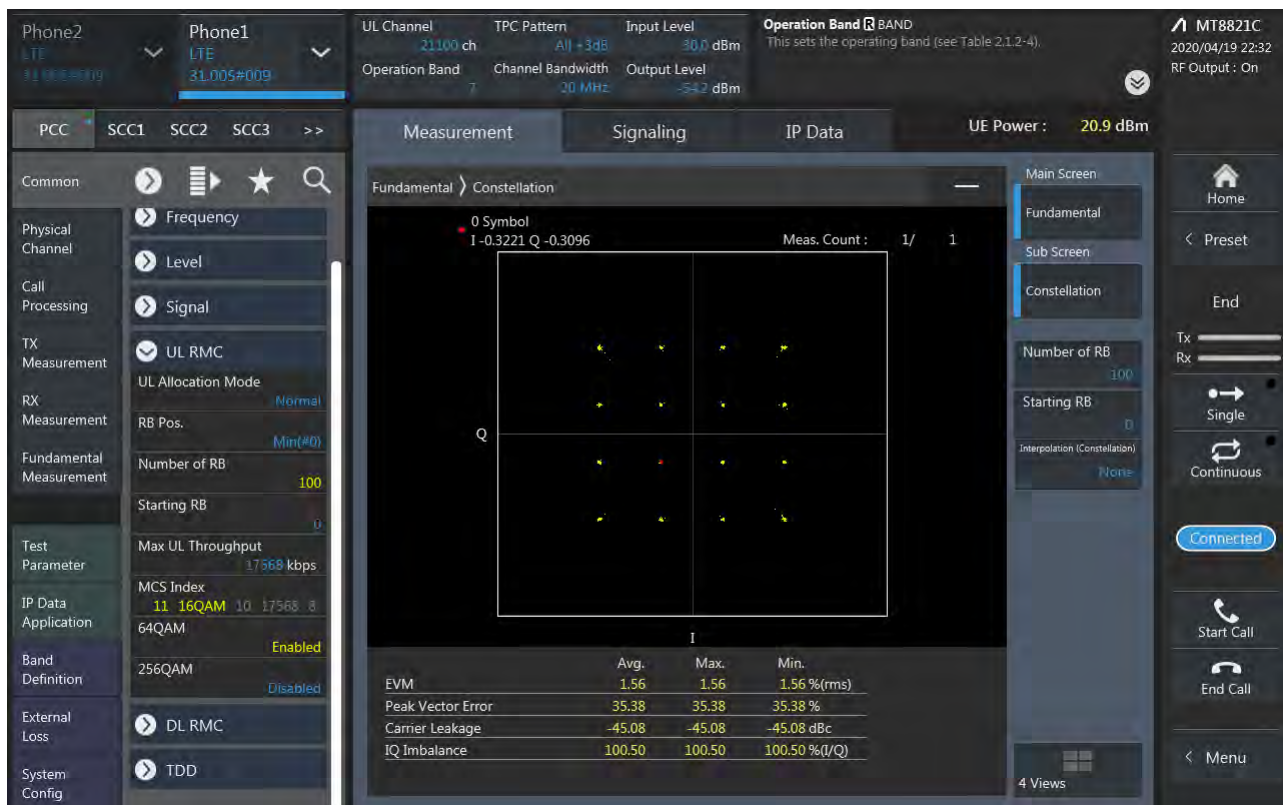
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



3.1.2. Test Mode = LTE /TM2 20MHz

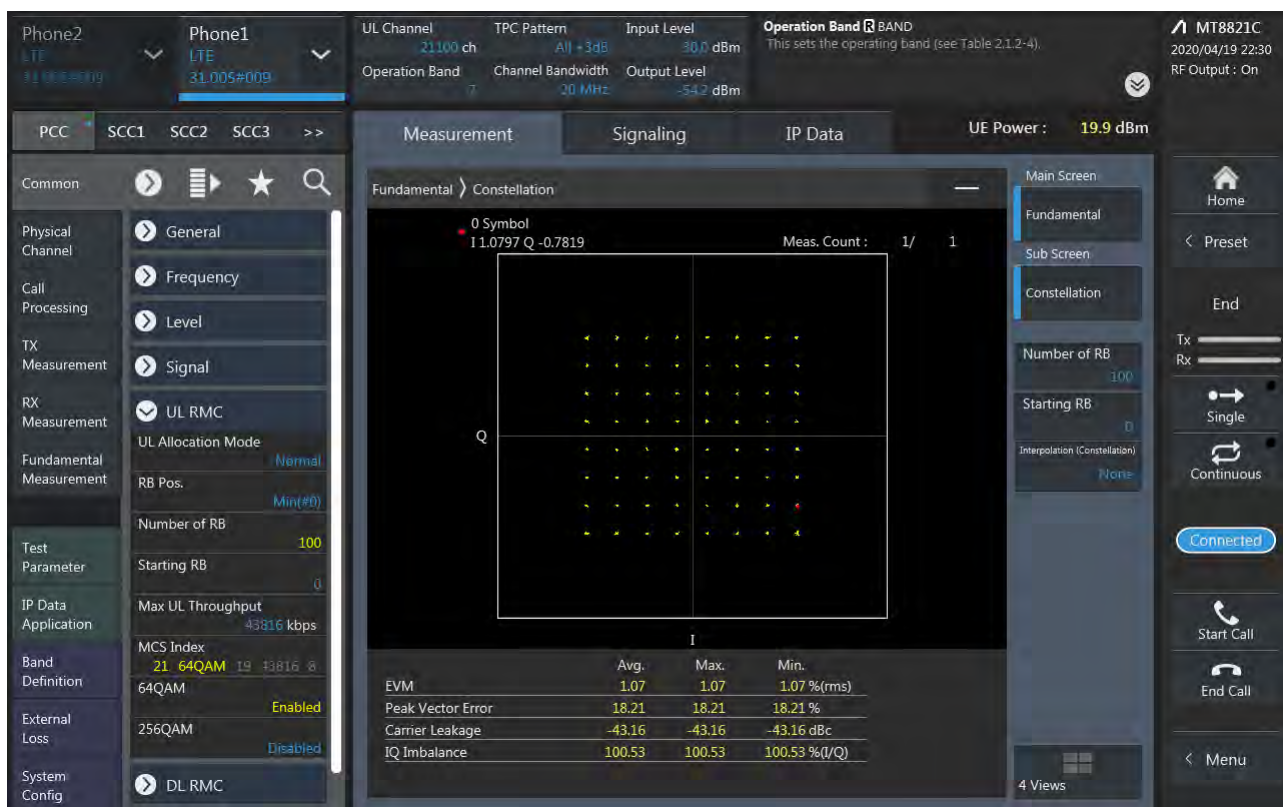
3.1.2.1. Test Channel = MCH





3.1.3. Test Mode = LTE /TM3 20MHz

3.1.3.1. 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
Band7	5MHz	QPSK	20775	25RB#0	4.466	4.900	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.870	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.910	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.466	4.870	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.466	4.870	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.476	4.880	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.476	4.910	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.920	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.496	4.910	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.911	9.700	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.660	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.660	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.911	9.640	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.911	9.620	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.931	9.620	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.931	9.720	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.911	9.720	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.931	9.700	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.427	14.790	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.457	14.790	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.457	14.670	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.427	14.850	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.427	14.880	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.427	14.700	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.427	14.760	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.457	14.790	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.427	14.730	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.902	19.400	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.862	19.480	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.862	19.400	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.862	19.480	PASS



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

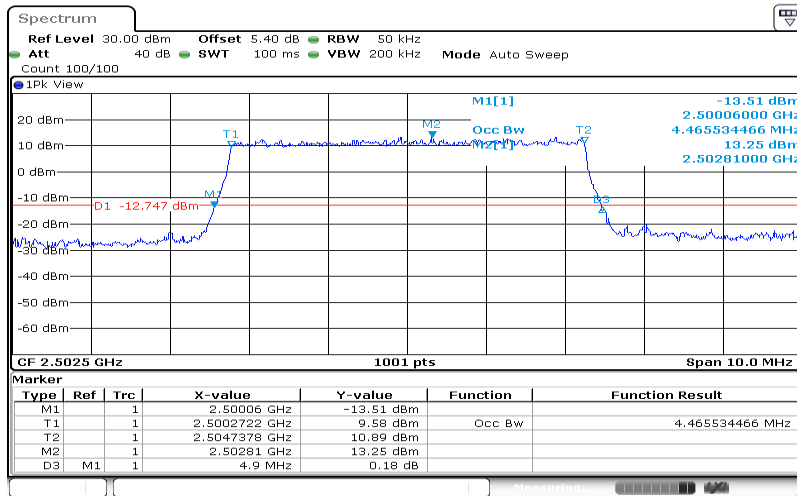
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



Band7	20MHz	64QAM	21100	100RB#0	17.862	19.440	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.822	19.320	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.862	19.200	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.862	19.440	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.862	19.360	PASS

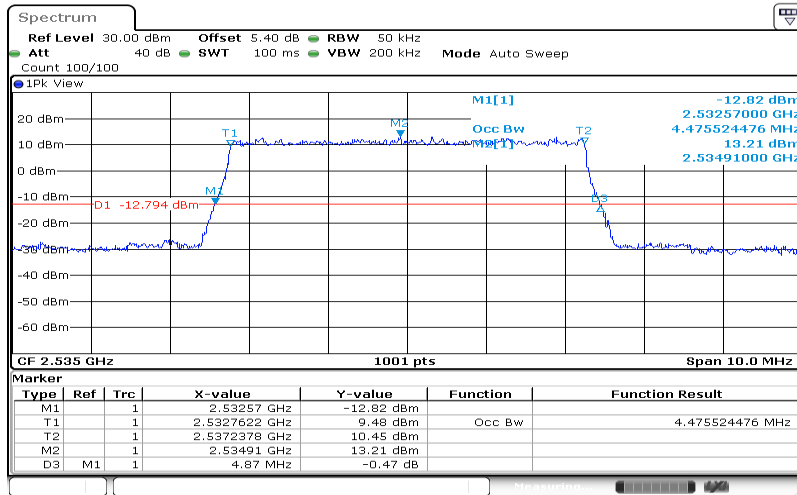
4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.466



Date: 27 MAR 2020 15:02:42

Band7-5MHz-QPSK-21100-25RB#0-4.476



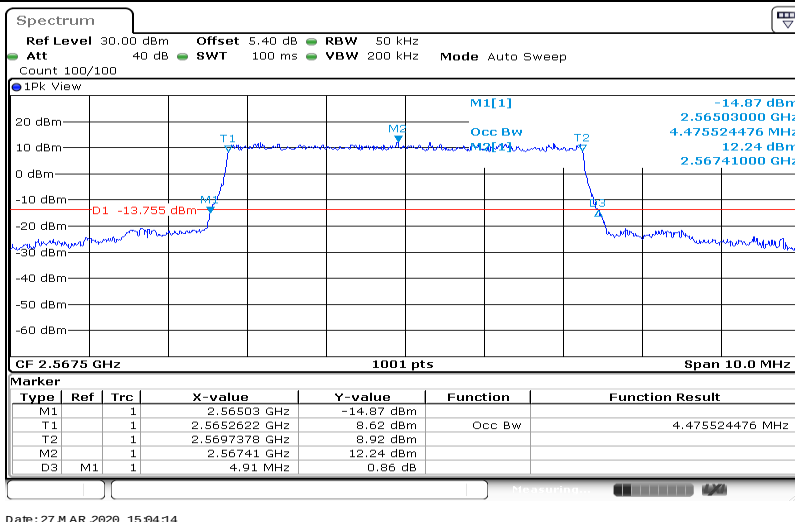
Date: 27 MAR 2020 15:03:28

Band7-5MHz-QPSK-21425-25RB#0-4.476

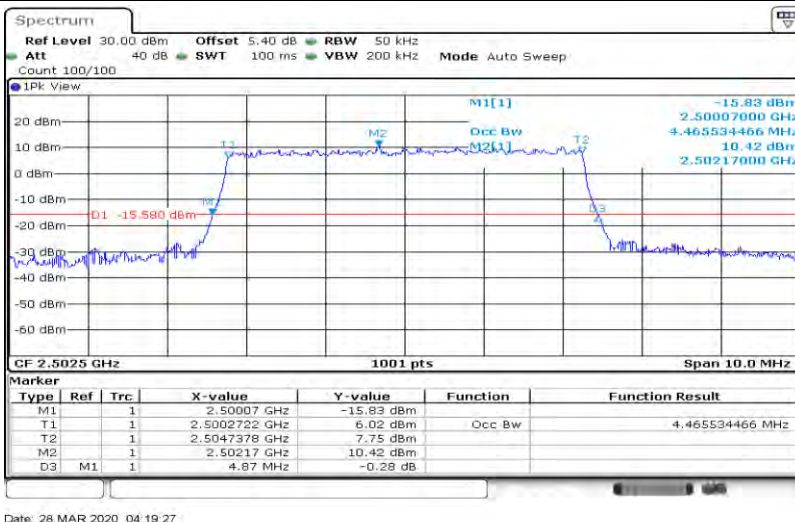


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

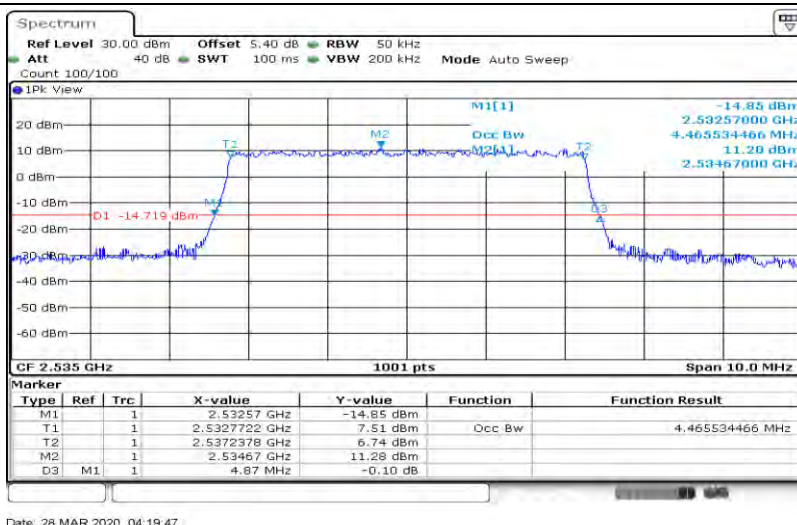


Band7-5MHz-64QAM-20775-25RB#0-4.466

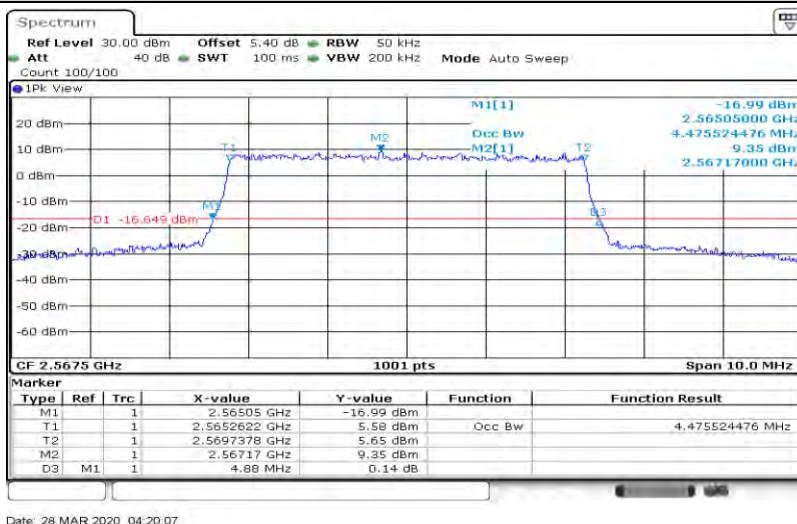


Band7-5MHz-64QAM-21100-25RB#0-4.466



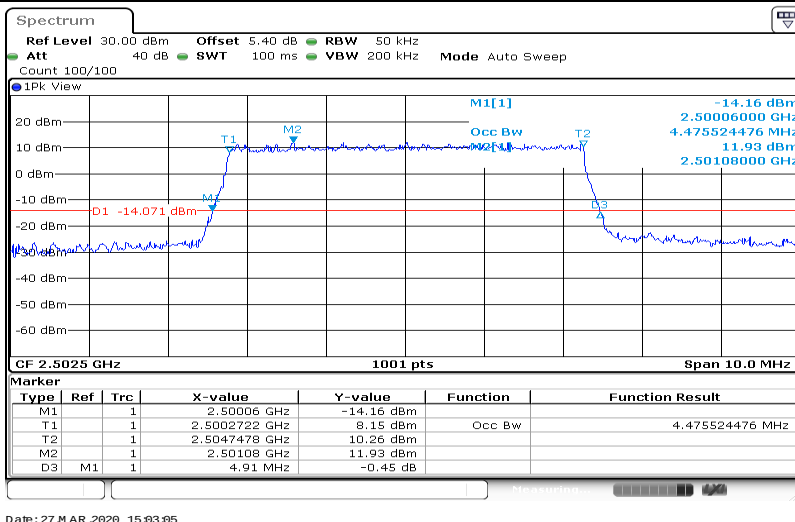


Band7-5MHz-64QAM-21425-25RB#0-4.476

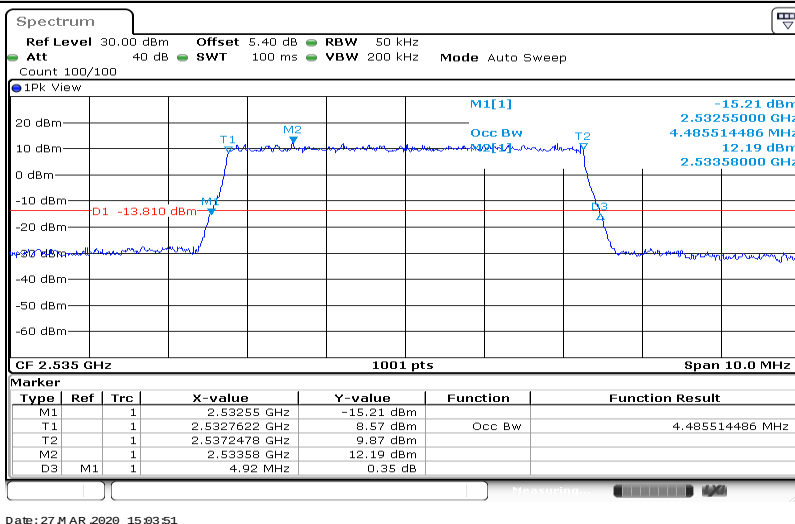


Band7-5MHz-16QAM-20775-25RB#0-4.476



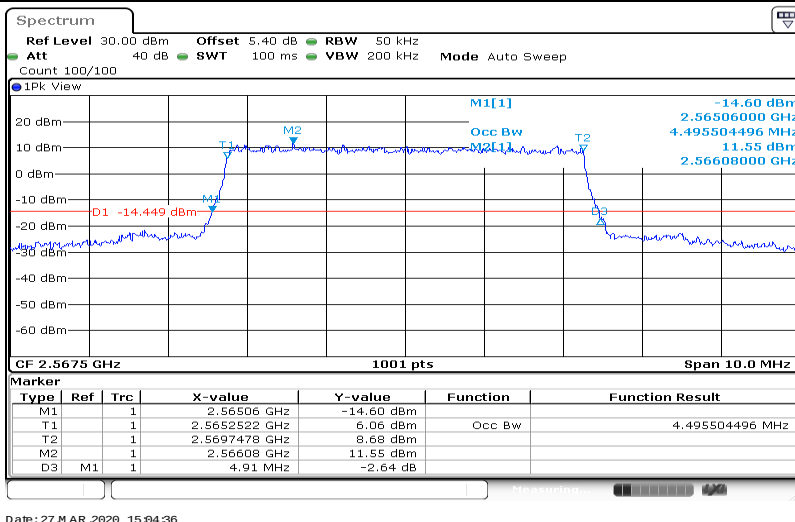


Band7-5MHz-16QAM-21100-25RB#0-4.486

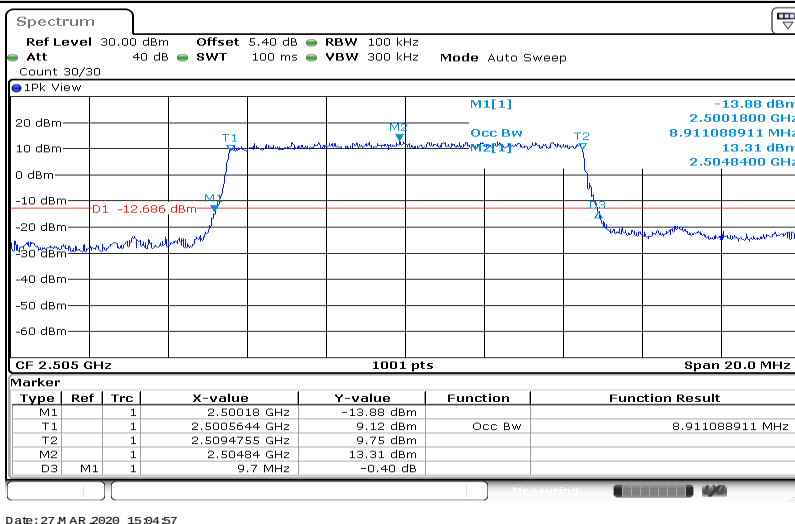


Band7-5MHz-16QAM-21425-25RB#0-4.496



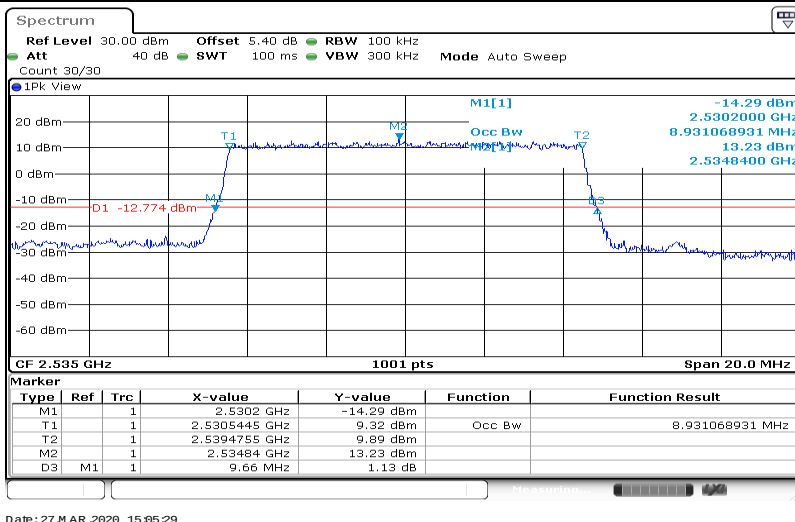


Band7-10MHz-QPSK-20800-50RB#0-8.911

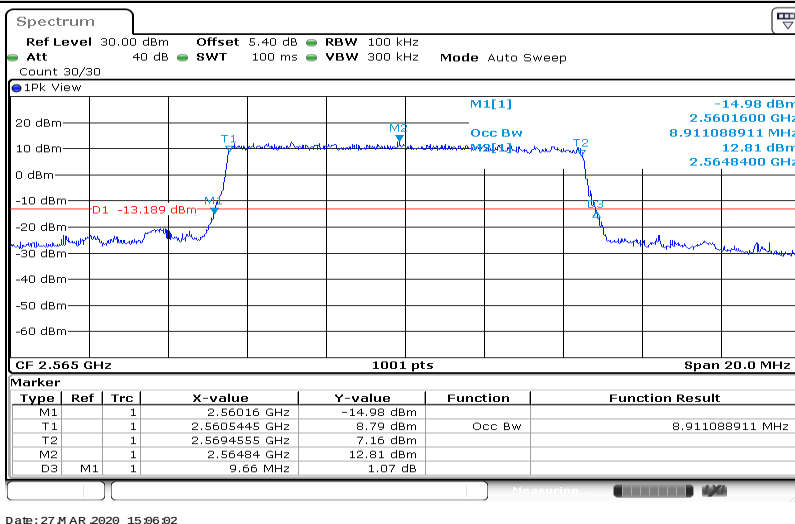


Band7-10MHz-QPSK-21100-50RB#0-8.931



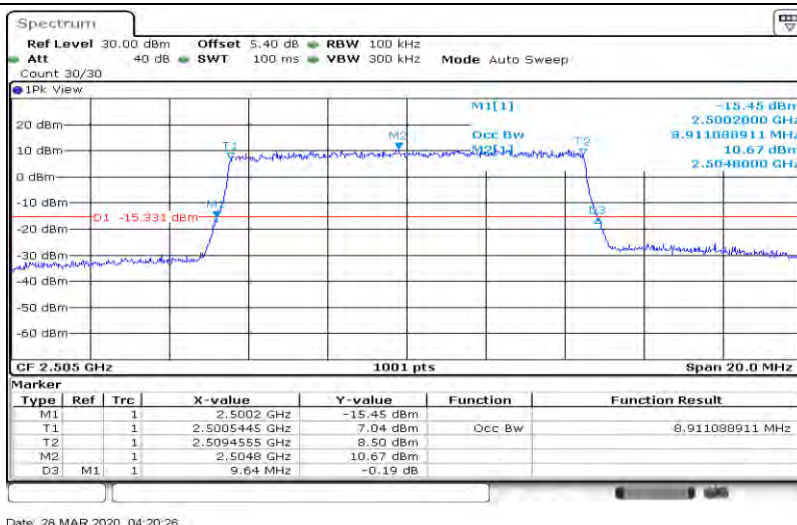


Band7-10MHz-QPSK-21400-50RB#0-8.911

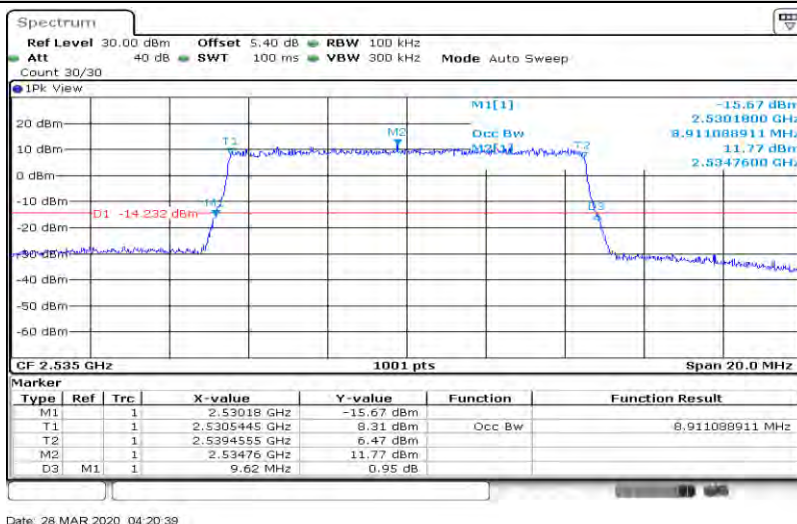


Band7-10MHz-64QAM-20800-50RB#0-8.911





Band7-10MHz-64QAM-21100-50RB#0-8.911

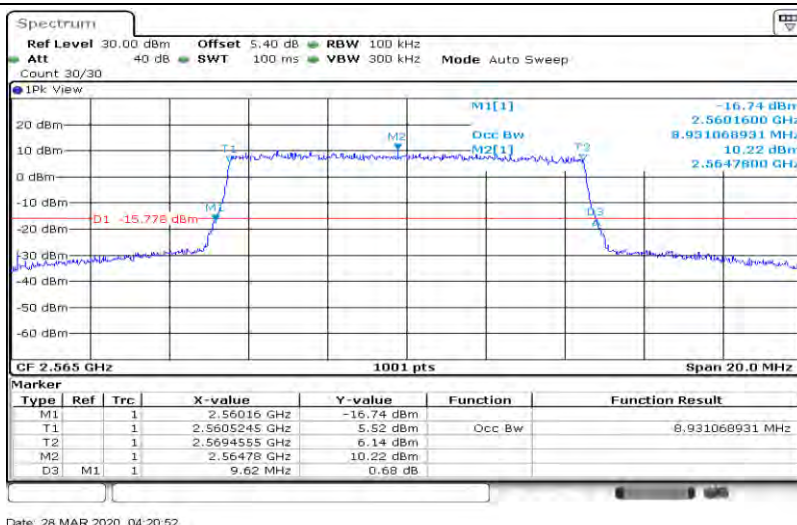


Band7-10MHz-64QAM-21400-50RB#0-8.931

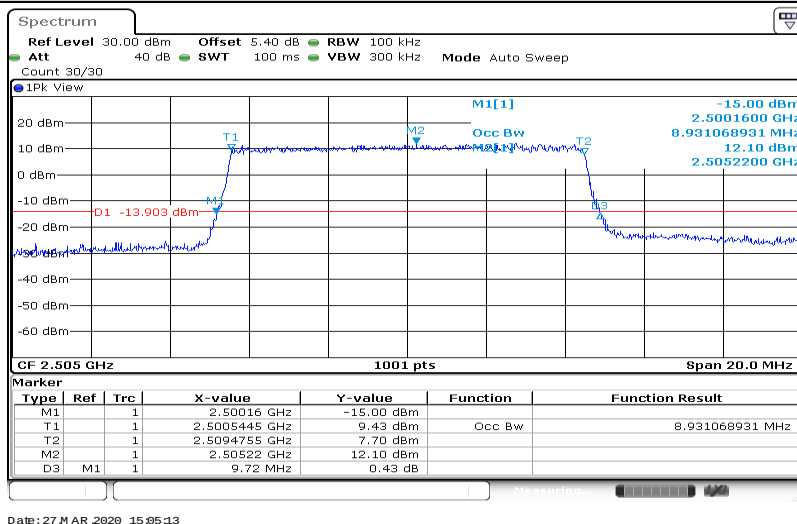


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

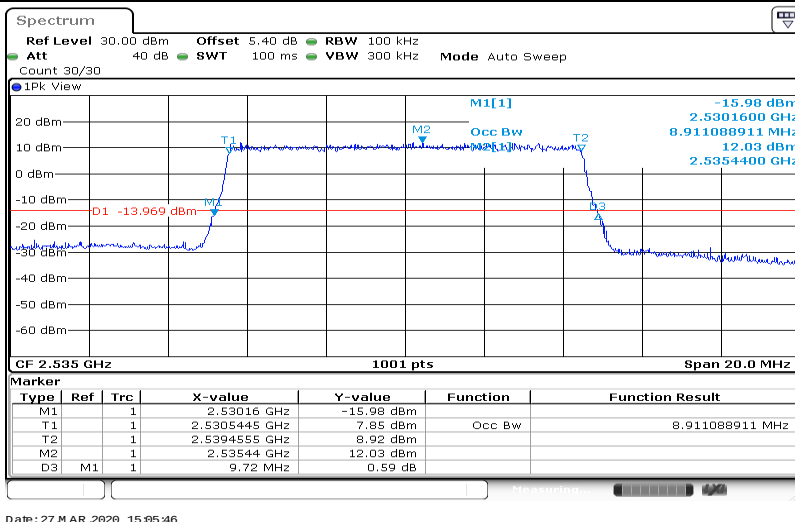


Band7-10MHz-16QAM-20800-50RB#0-8.931

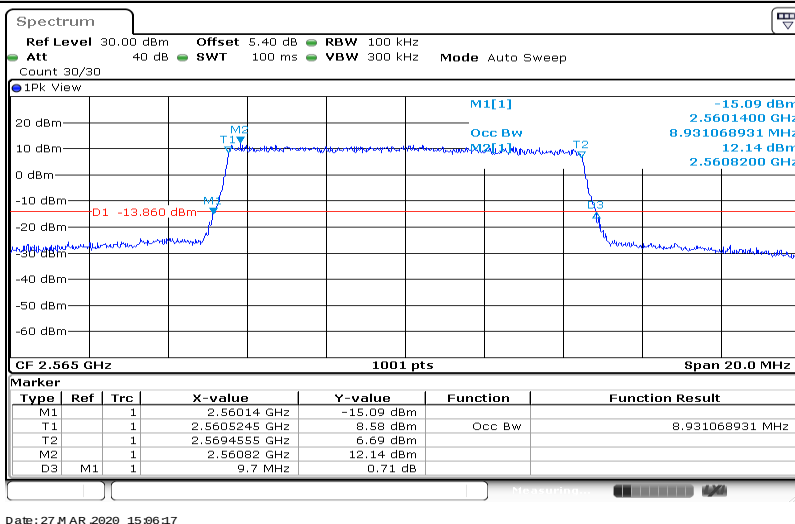


Band7-10MHz-16QAM-21100-50RB#0-8.911





Band7-10MHz-16QAM-21400-50RB#0-8.931

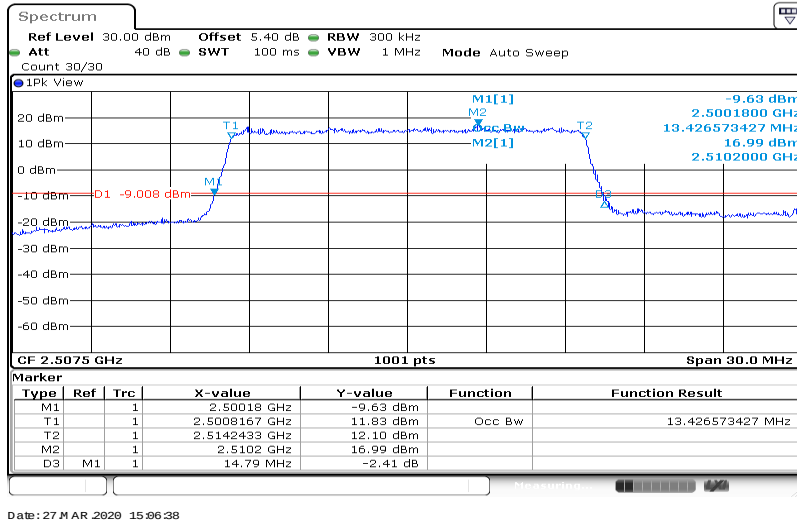


Band7-15MHz-QPSK-20825-75RB#0-13.427

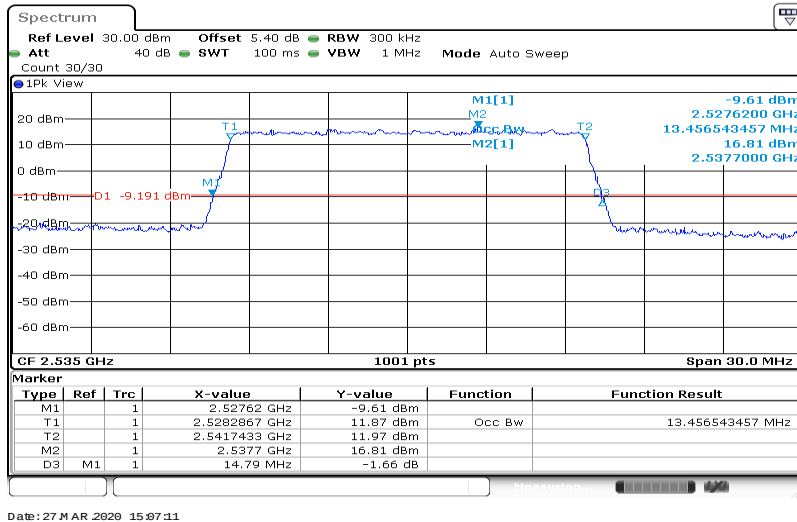


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band7-15MHz-QPSK-21100-75RB#0-13.457

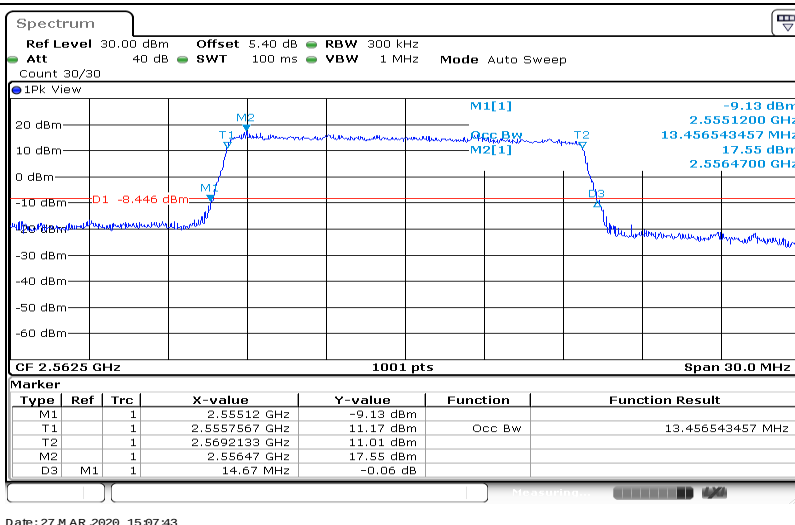


Band7-15MHz-QPSK-21375-75RB#0-13.457



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 & 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



Band7-15MHz-64OAM-20825-75RB#0-13.427



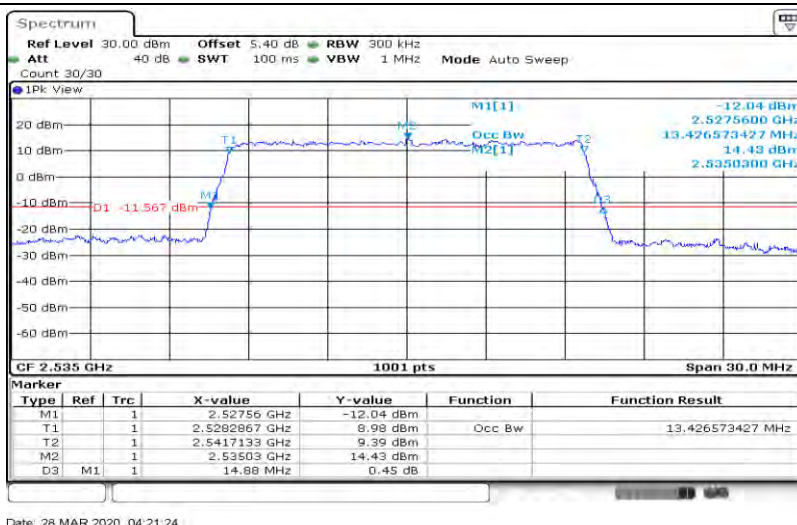
Band7-15MHz-64QAM-21100-75RB#0-13.427



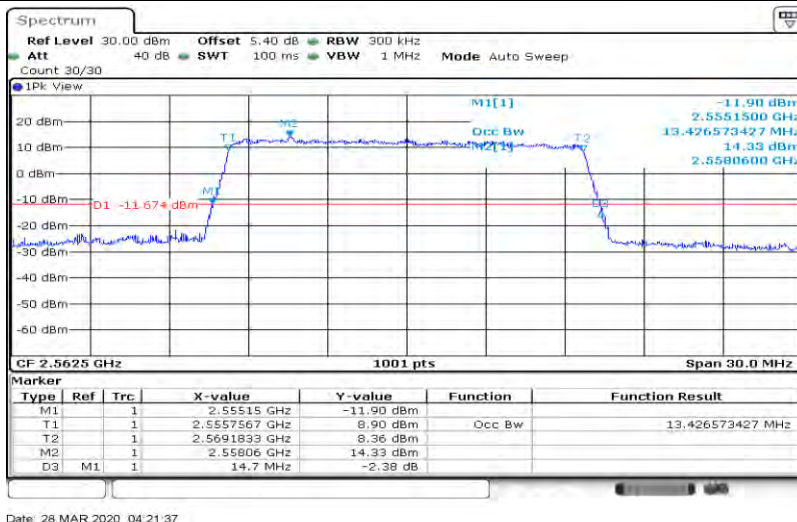
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed in full, available request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and for electronic format documents, subject to Terms and Conditions for Electronic 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 its client's instructions. The Company does not accept any liability for the consequences of the use of the information contained in this 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 strictly prohibited and may result in severe civil and criminal penalties. 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 (Shenzhen) Testing Laboratory

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



Band7-15MHz-64QAM-21375-75RB#0-13.427

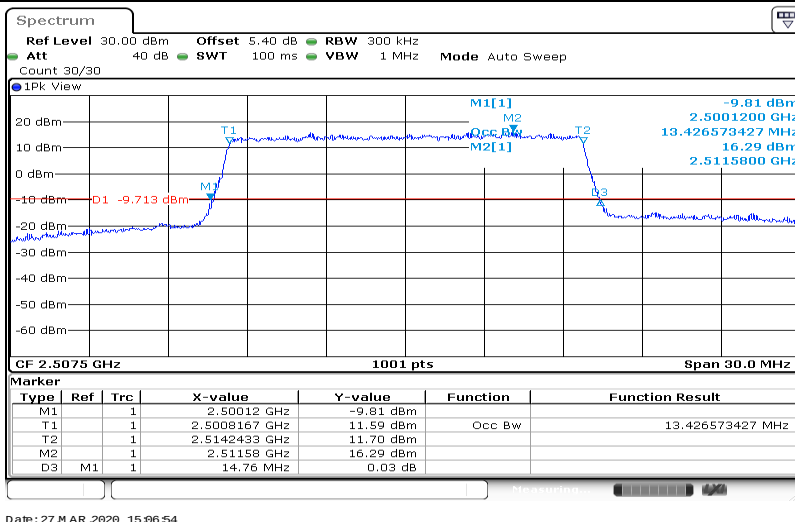


Band7-15MHz-16QAM-20825-75RB#0-13.427

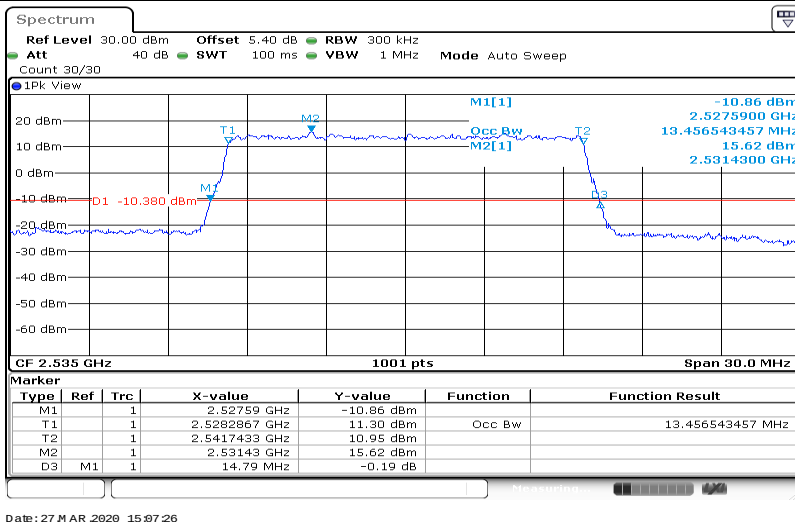


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

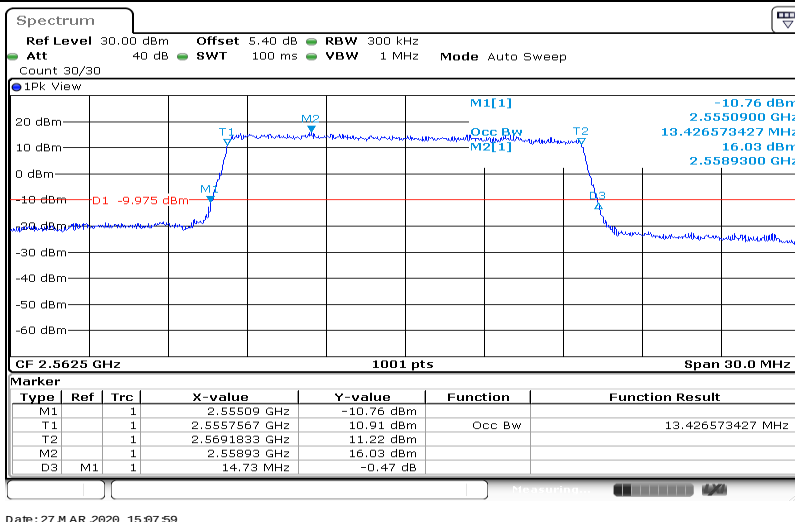


Band7-15MHz-16QAM-21100-75RB#0-13.457

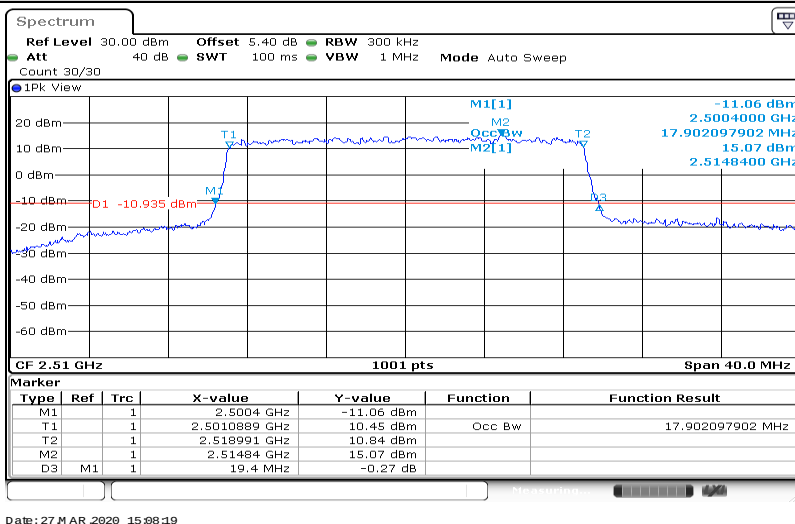


Band7-15MHz-16QAM-21375-75RB#0-13.427



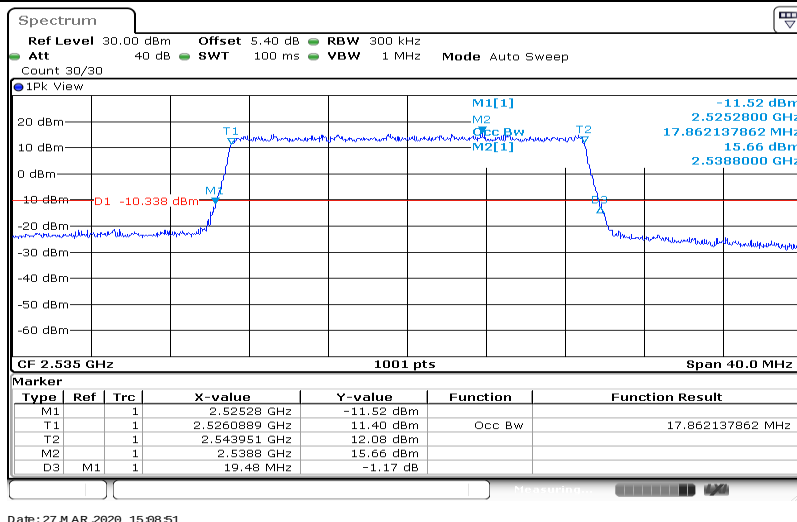


Band7-20MHz-QPSK-20850-100RB#0-17.902

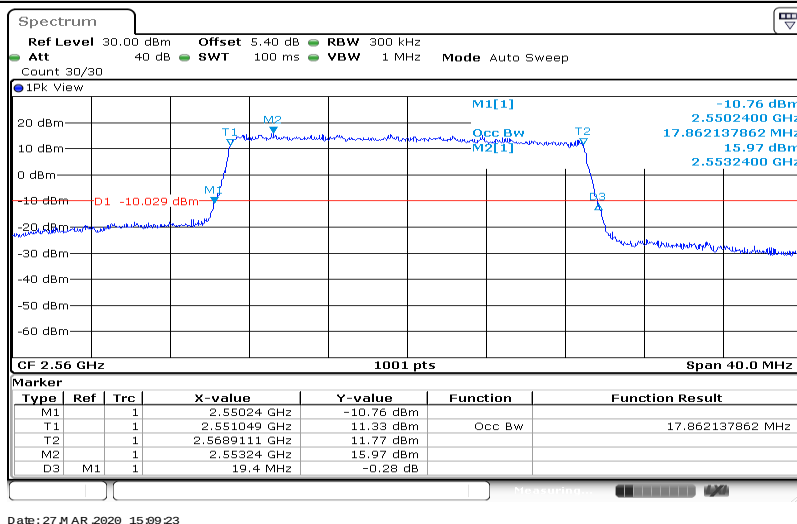


Band7-20MHz-QPSK-21100-100RB#0-17.862





Band7-20MHz-QPSK-21350-100RB#0-17.862



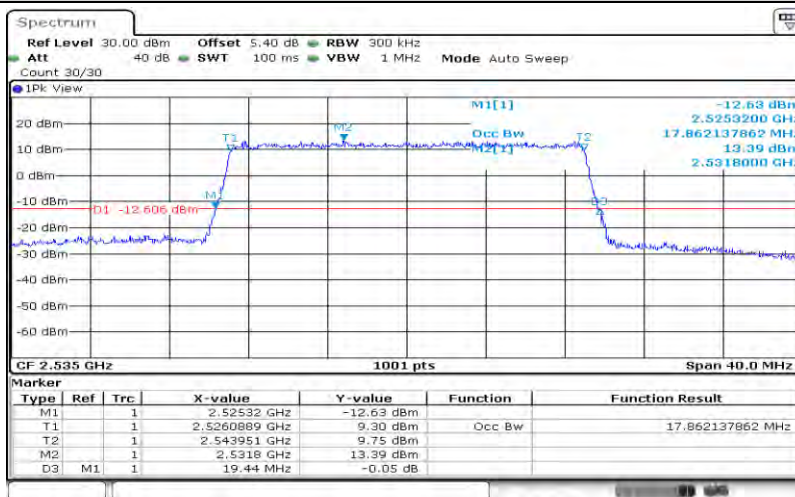
Band7-20MHz-64QAM-20850-100RB#0-17.862





Date: 28.MAR.2020 04:21:56

Band7-20MHz-64QAM-21100-100RB#0-17.862



Date: 28.MAR.2020 04:22:09

Band7-20MHz-64QAM-21350-100RB#0-17.822

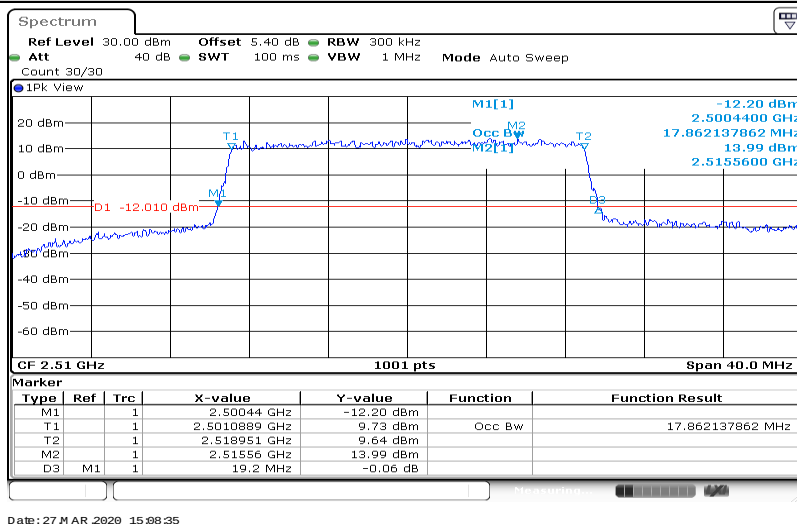


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

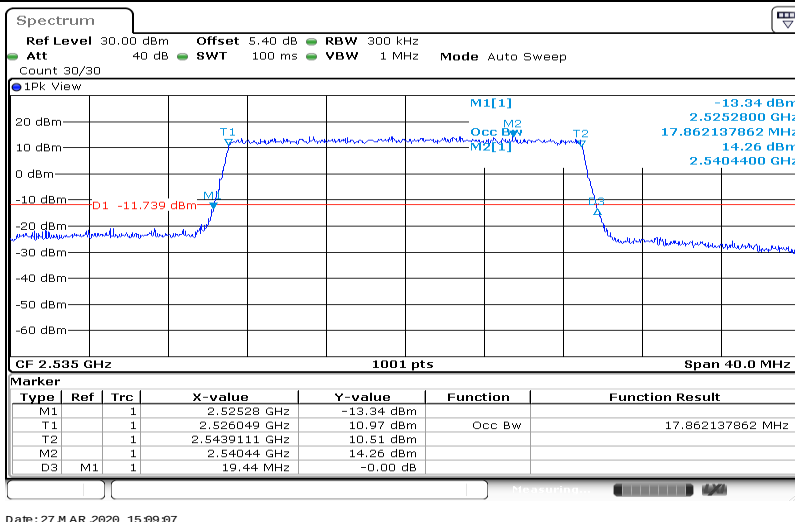


Band7-20MHz-16QAM-20850-100RB#0-17.862

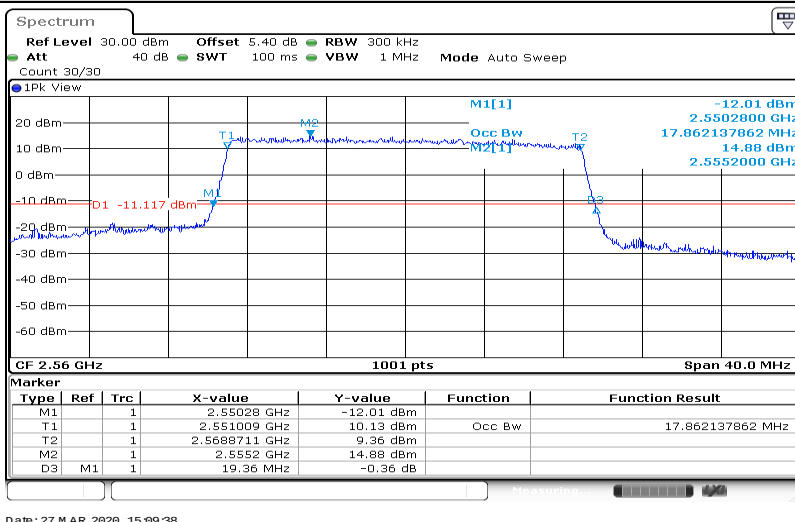


Band7-20MHz-16QAM-21100-100RB#0-17.862





Band7-20MHz-16QAM-21350-100RB#0-17.862

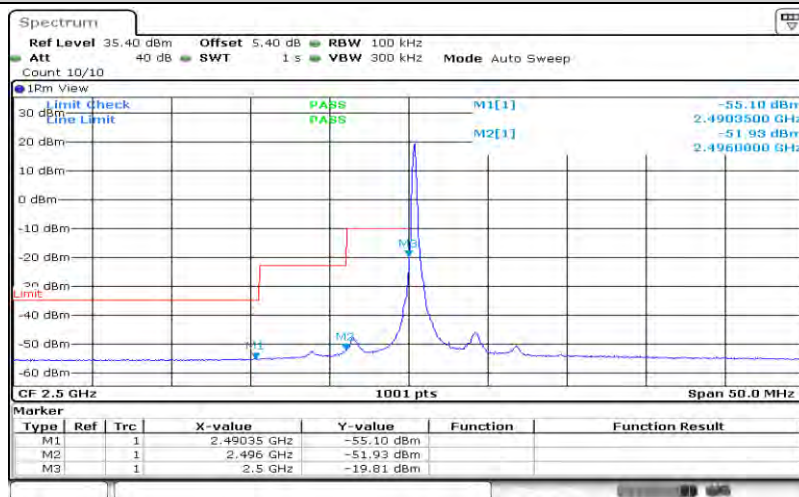




5. Band Edge Compliance

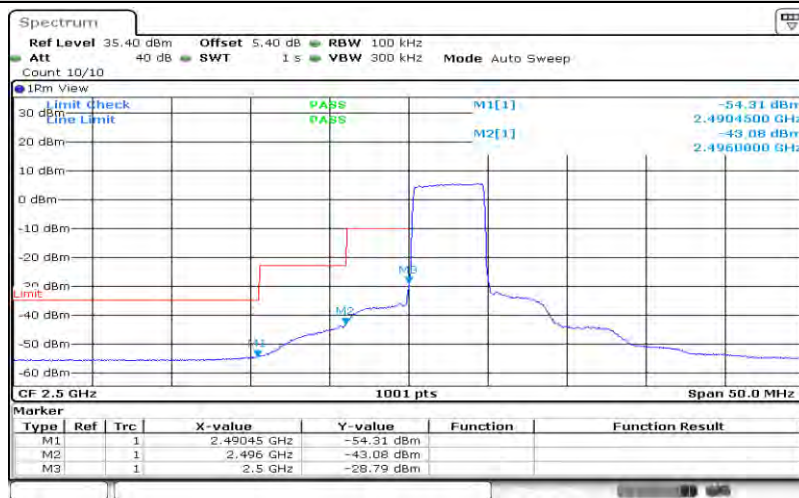
5.1. Test Plots

Band7-5MHz-QPSK-20775-1RB#0



Date: 28.MAR.2020 04:22:49

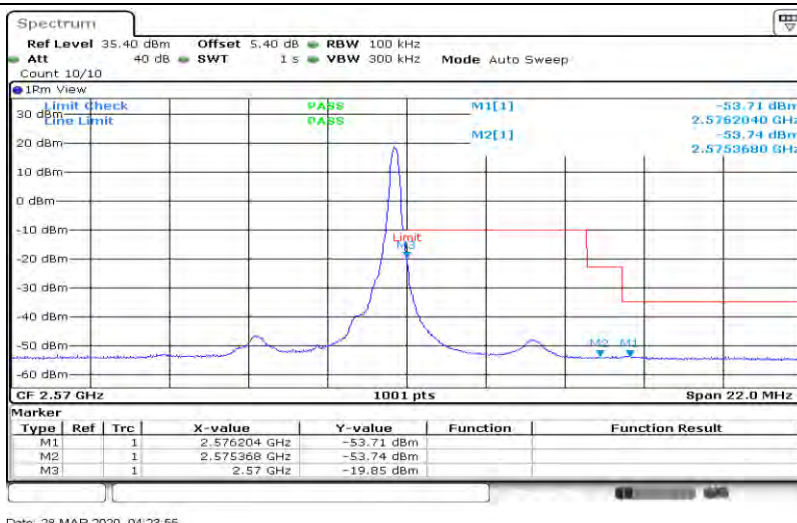
Band7-5MHz-QPSK-20775-25RB#0



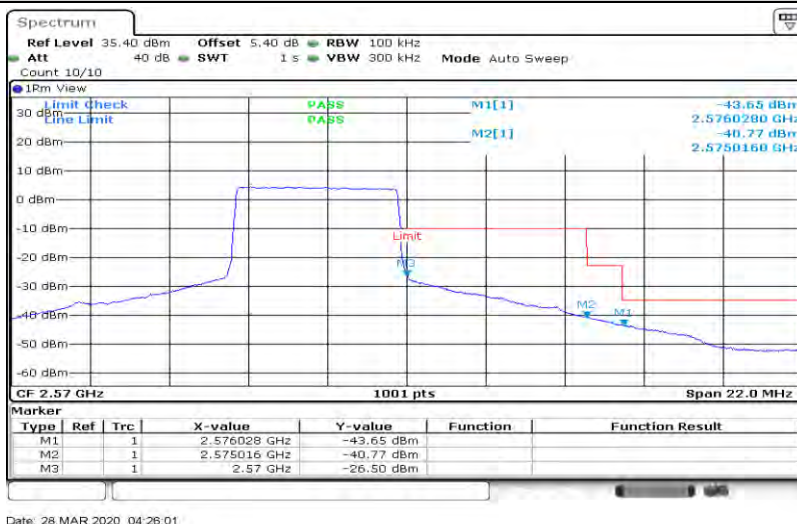
Date: 28.MAR.2020 04:25:01

Band7-5MHz-QPSK-21425-1RB#24

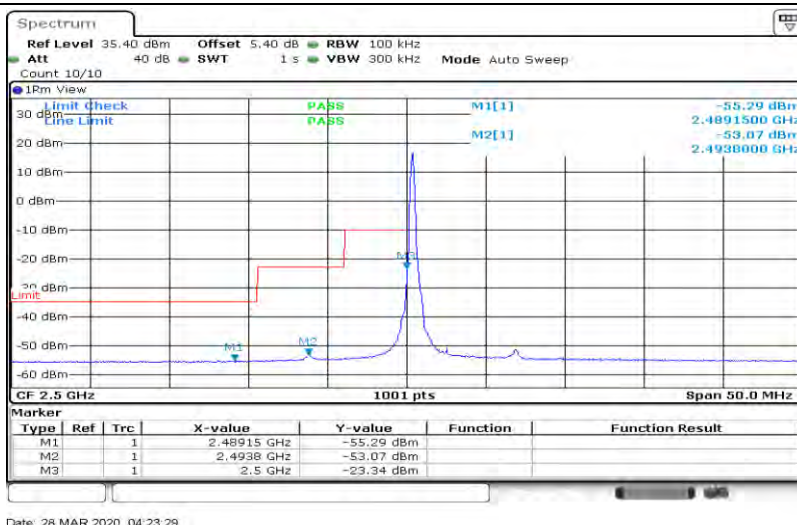




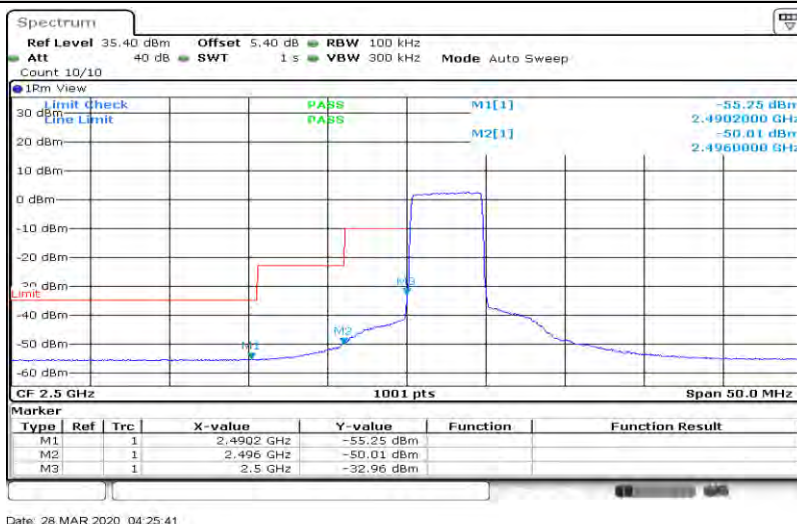
Band7-5MHz-QPSK-21425-25RB#0



Band7-5MHz-64QAM-20775-1RB#0

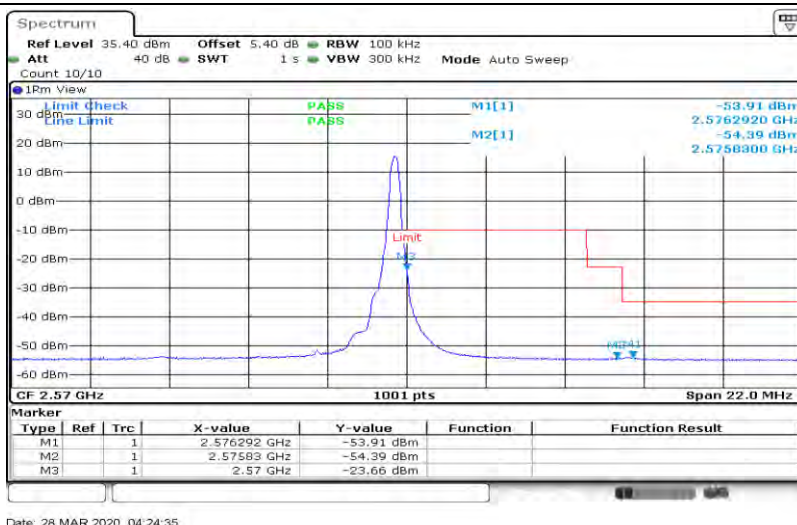


Band7-5MHz-64QAM-20775-25RB#0

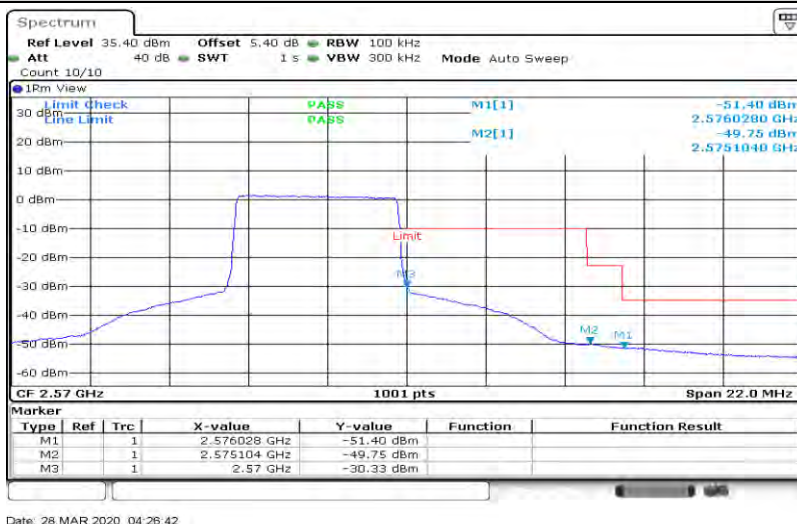


Band7-5MHz-64QAM-21425-1RB#24





Band7-5MHz-64QAM-21425-25RB#0



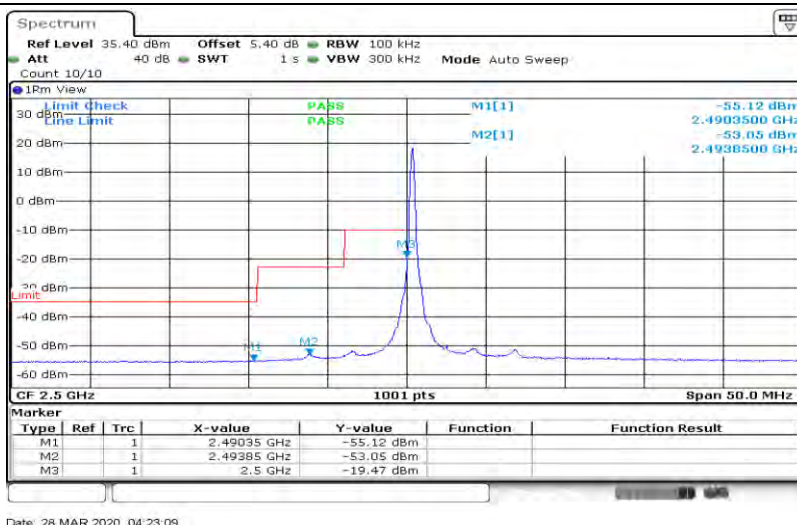
Band7-5MHz-16QAM-20775-1RB#0



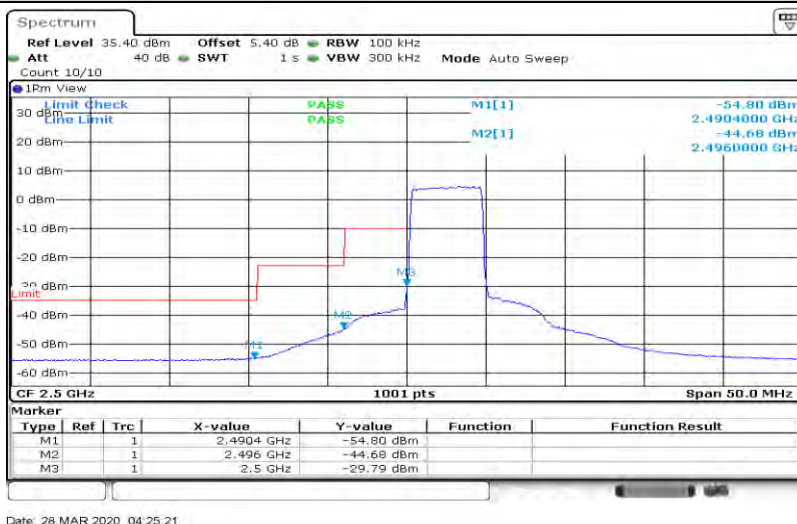
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band7-5MHz-16QAM-20775-25RB#0

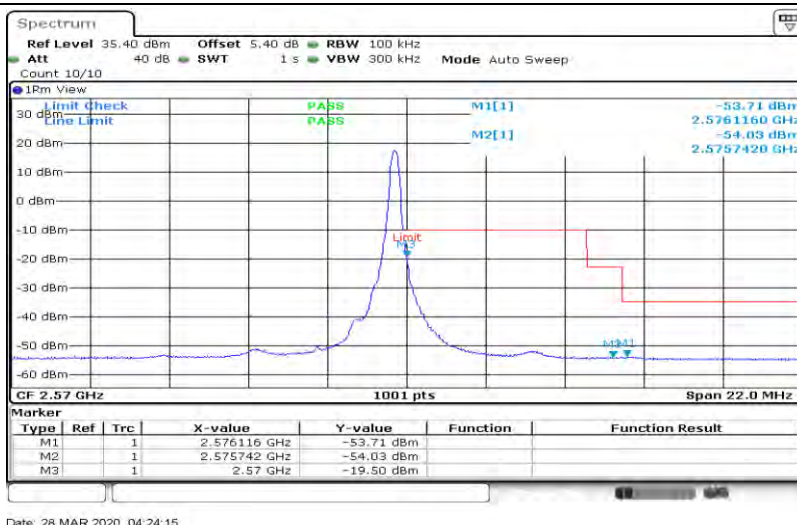


Band7-5MHz-16QAM-21425-1RB#24

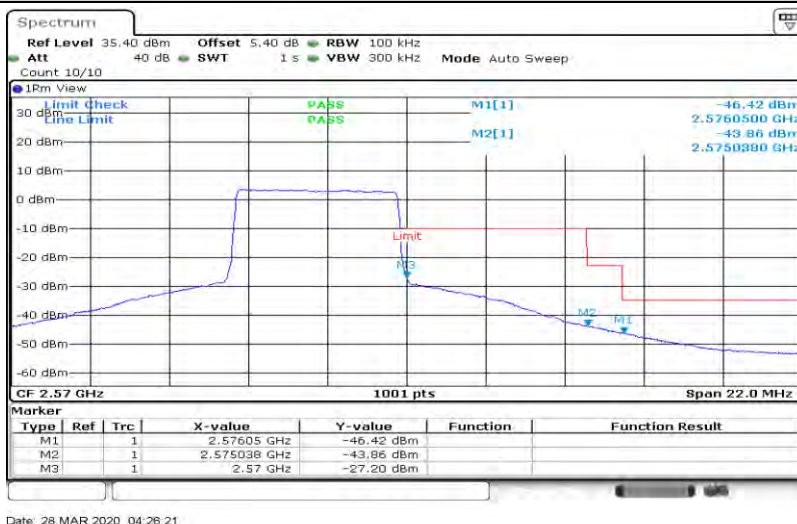


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band7-5MHz-16QAM-21425-25RB#0

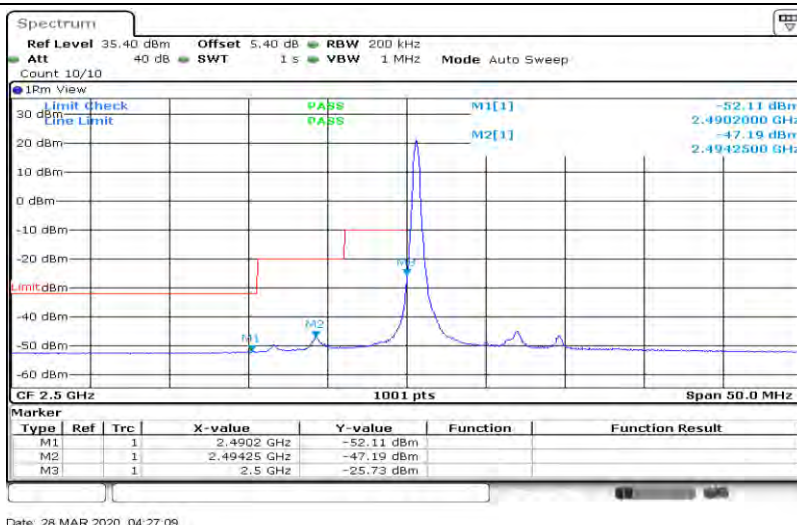


Band7-10MHz-QPSK-20800-1RB#0

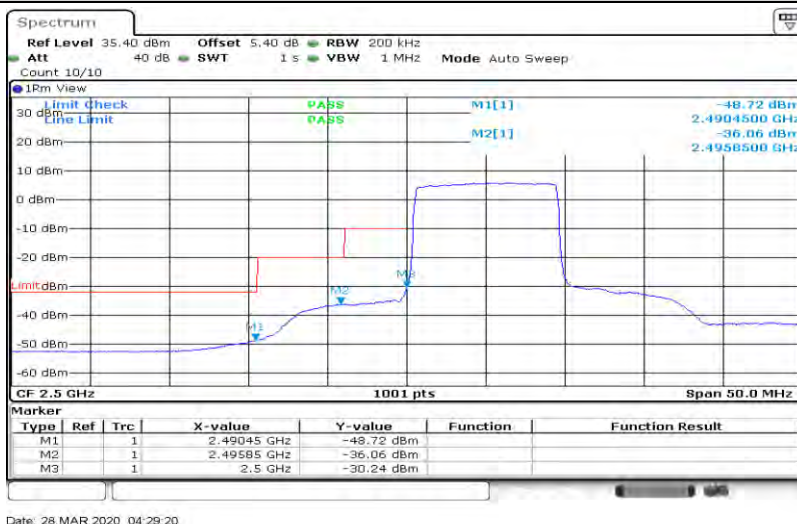


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band7-10MHz-QPSK-20800-50RB#0

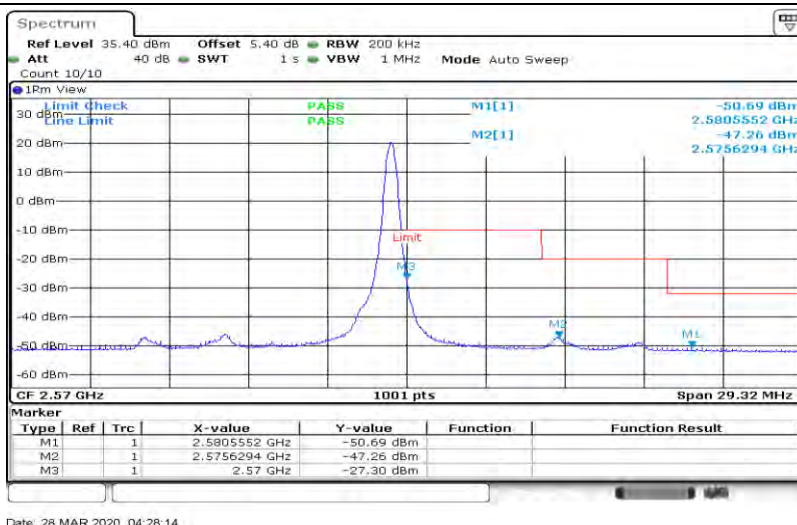


Band7-10MHz-QPSK-21400-1RB#49

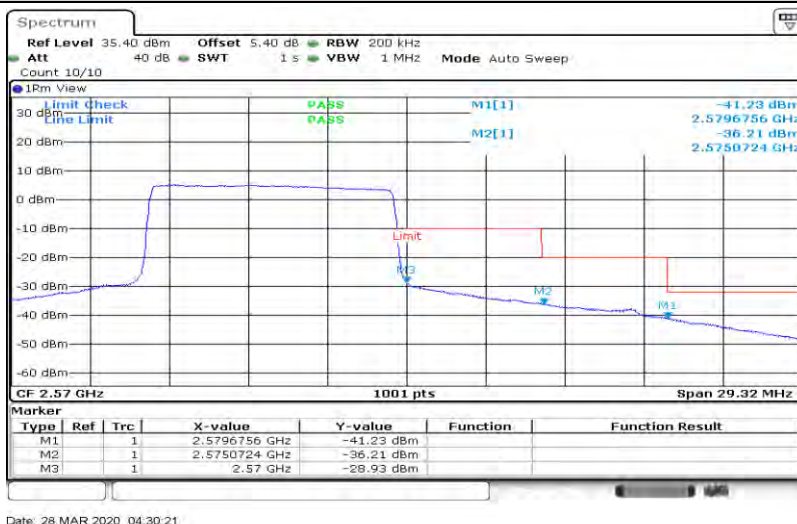


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band7-10MHz-QPSK-21400-50RB#0

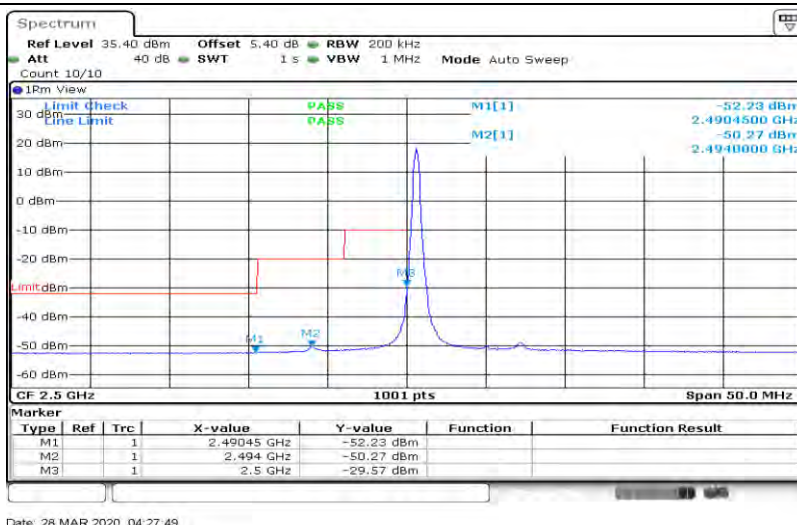


Band7-10MHz-64QAM-20800-1RB#0

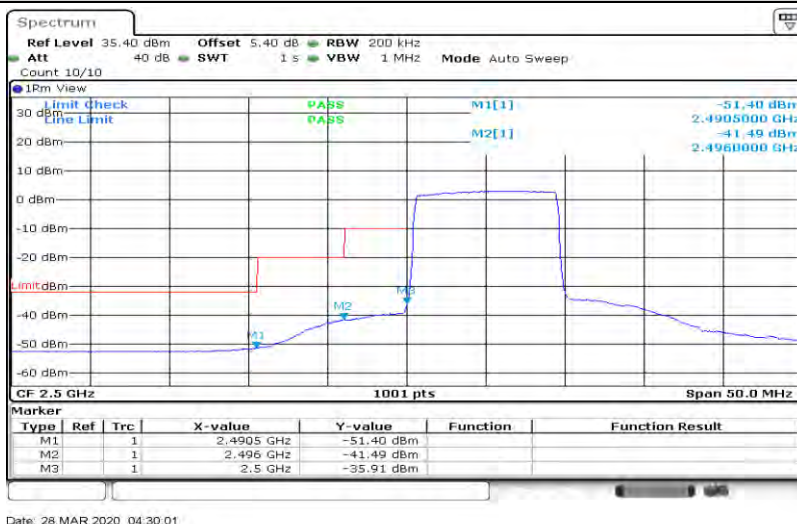


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

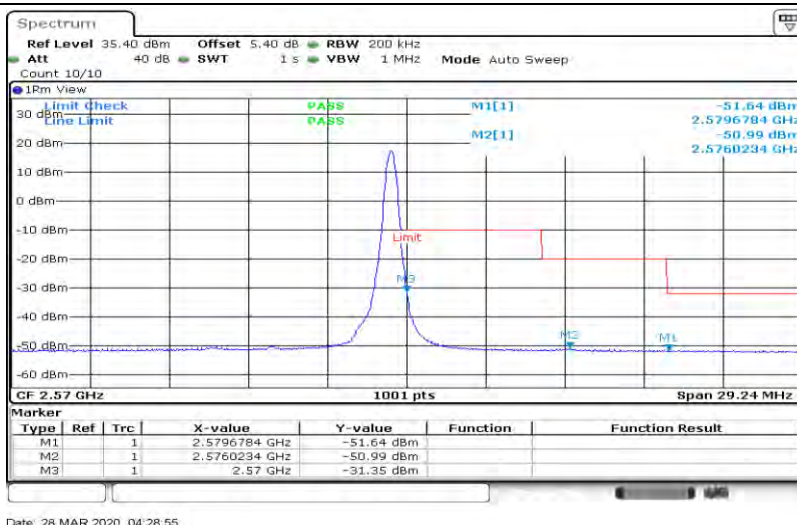


Band7-10MHz-64QAM-20800-50RB#0

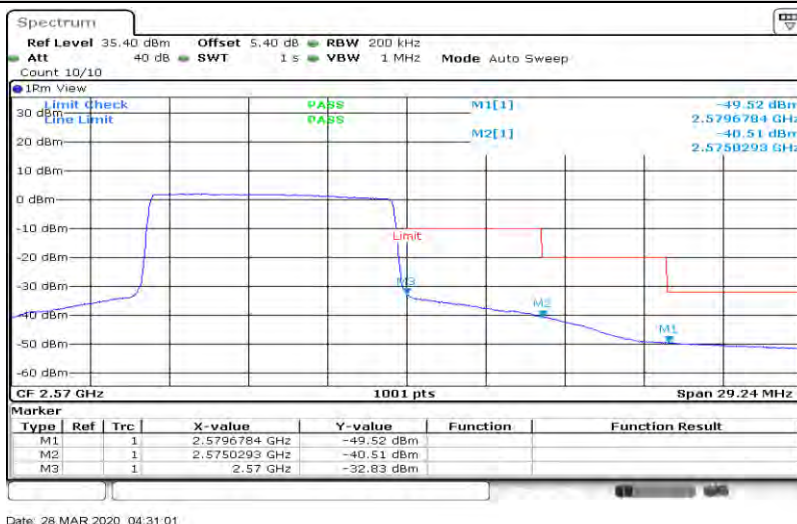


Band7-10MHz-64QAM-21400-1RB#49



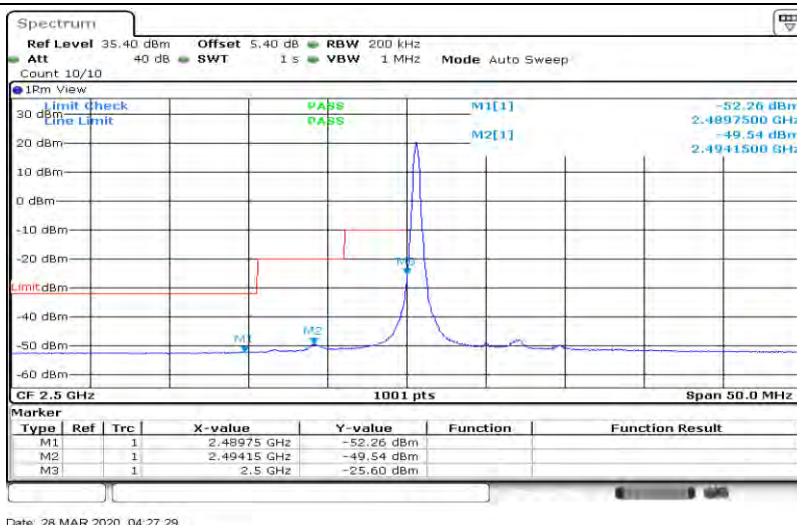


Band7-10MHz-64QAM-21400-50RB#0

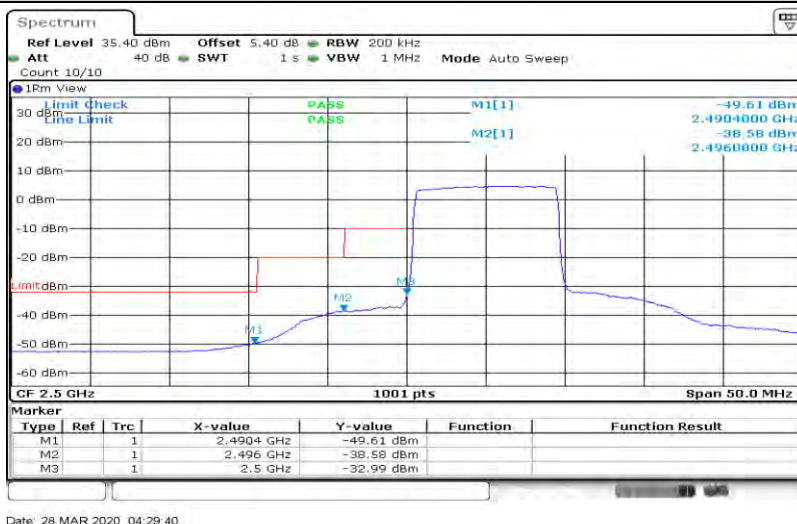


Band7-10MHz-16QAM-20800-1RB#0





Band7-10MHz-16QAM-20800-50RB#0

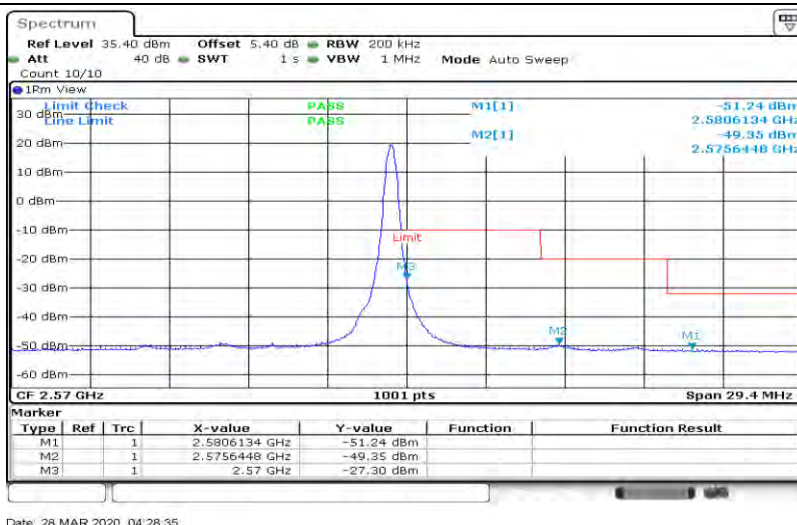


Band7-10MHz-16QAM-21400-1RB#49

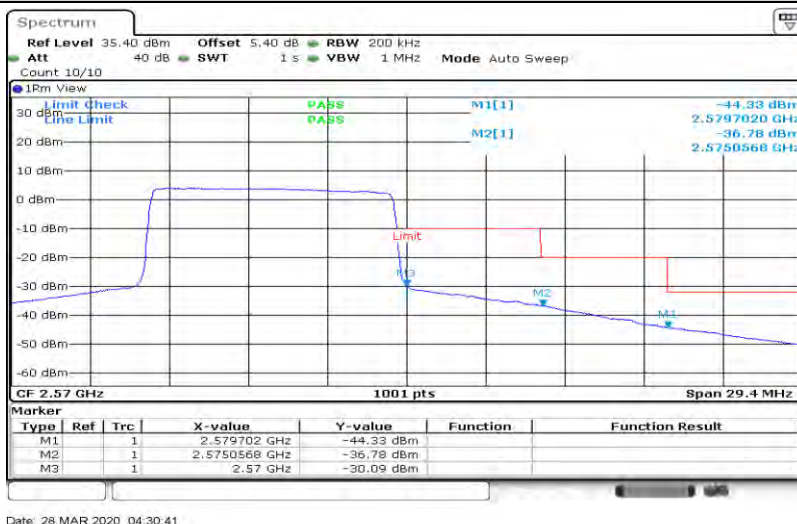


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

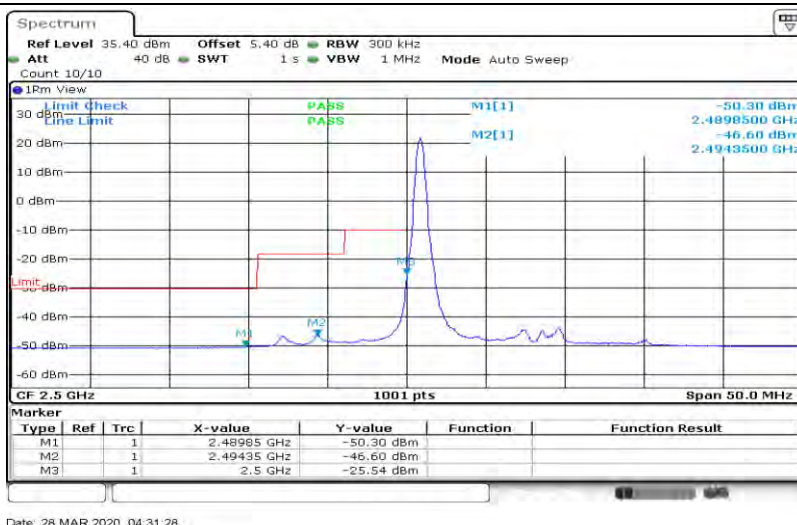


Band7-10MHz-16QAM-21400-50RB#0

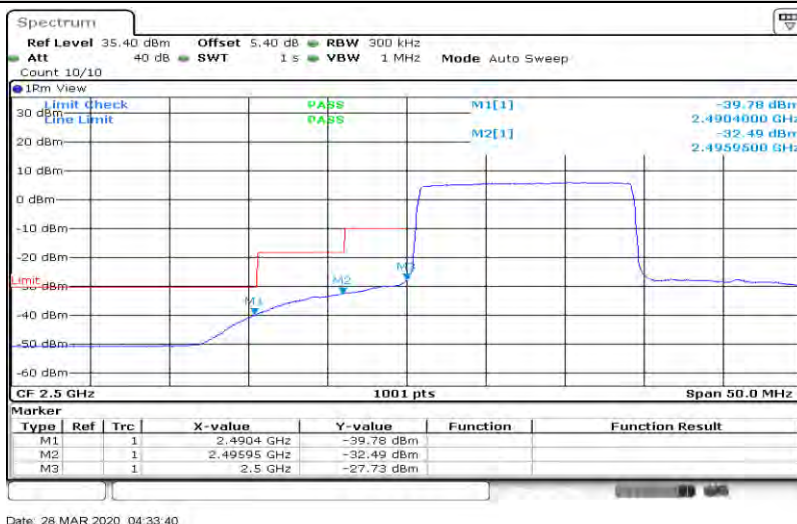


Band7-15MHz-QPSK-20825-1RB#0

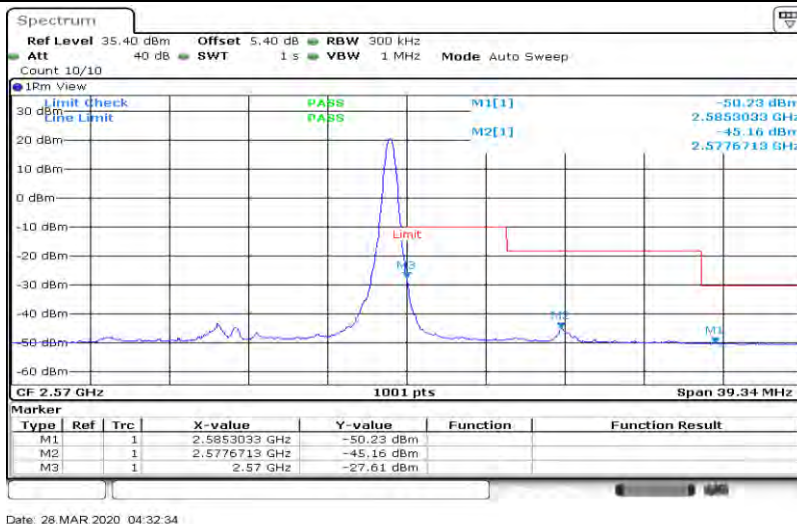




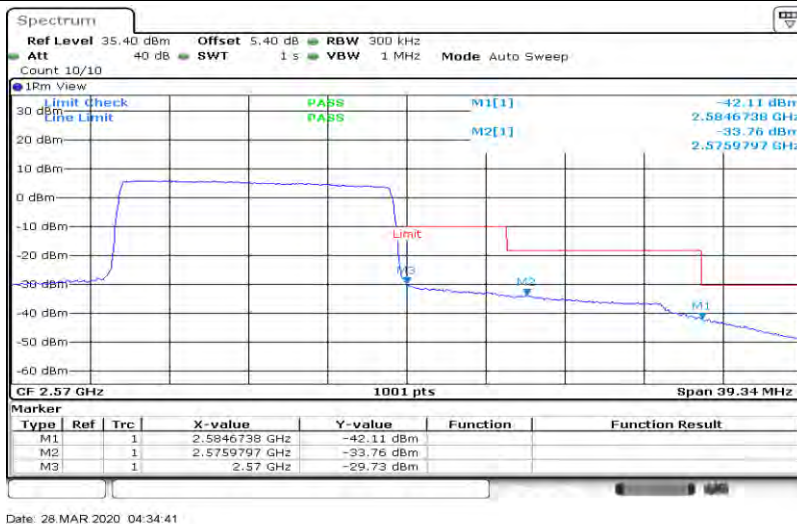
Band7-15MHz-QPSK-20825-75RB#0



Band7-15MHz-QPSK-21375-1RB#74



Band7-15MHz-QPSK-21375-75RB#0

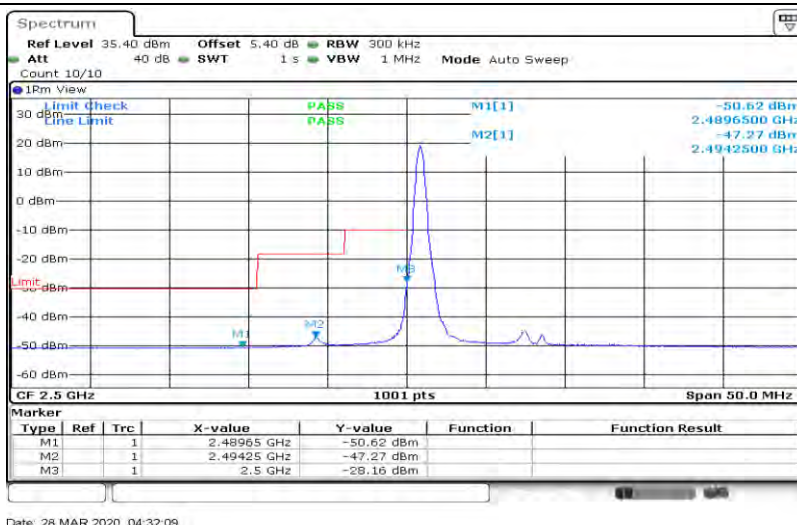


Band7-15MHz-64QAM-20825-1RB#0

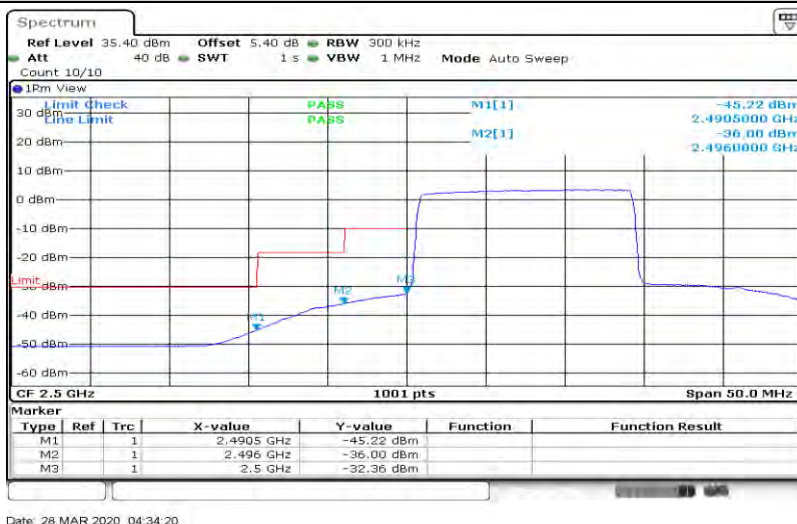


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

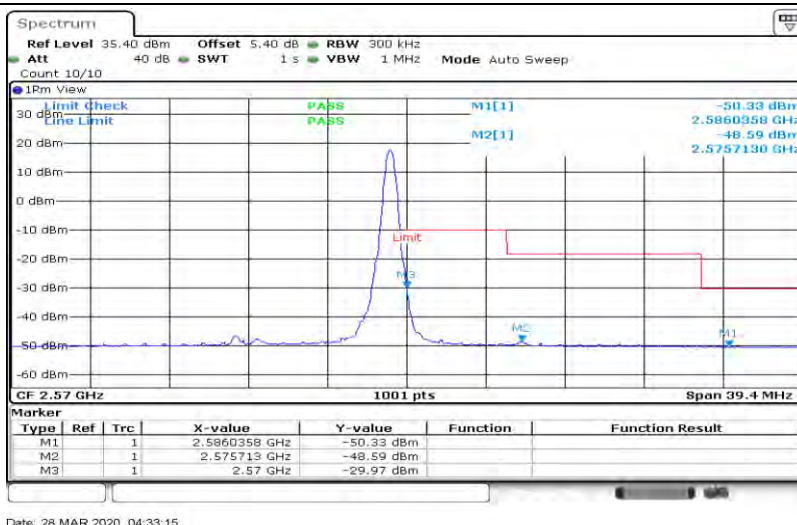


Band7-15MHz-64QAM-20825-75RB#0

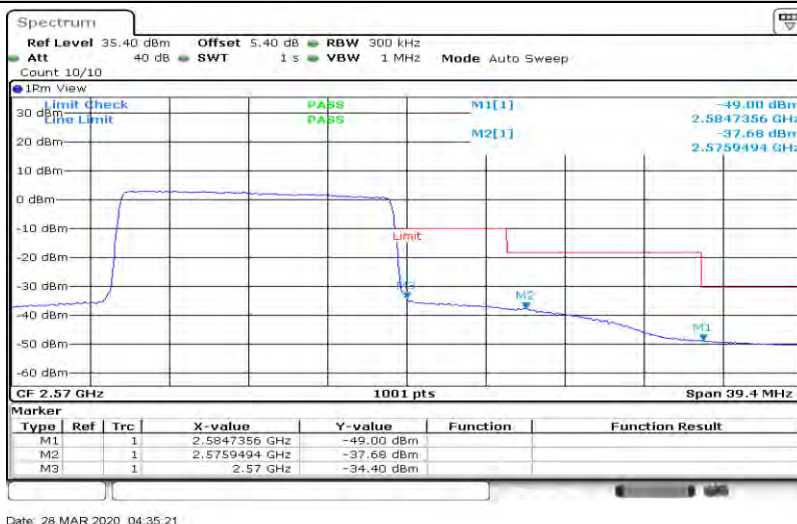


Band7-15MHz-64QAM-21375-1RB#74



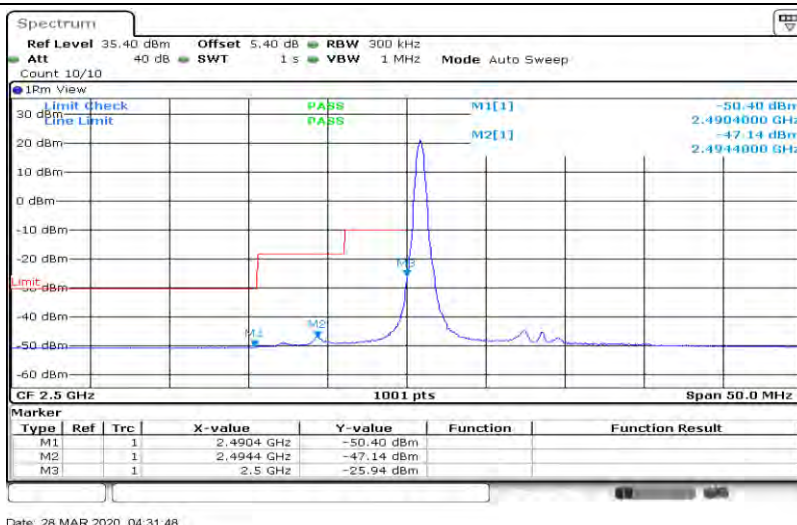


Band7-15MHz-64QAM-21375-75RB#0

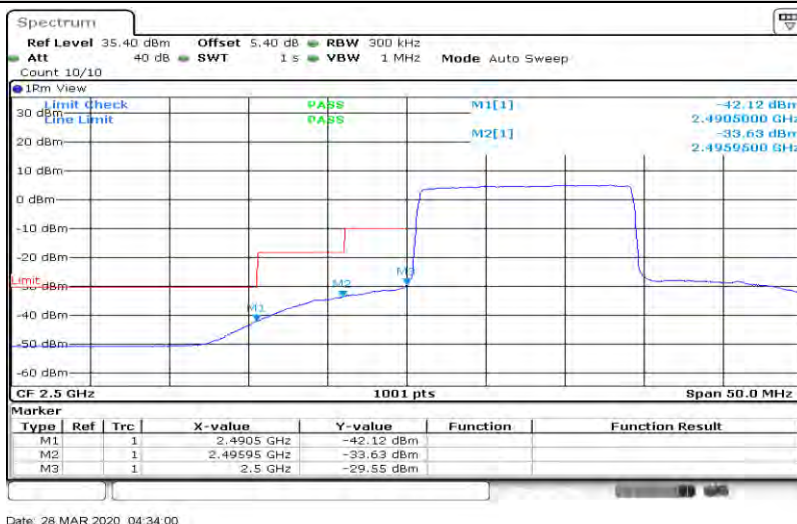


Band7-15MHz-16QAM-20825-1RB#0



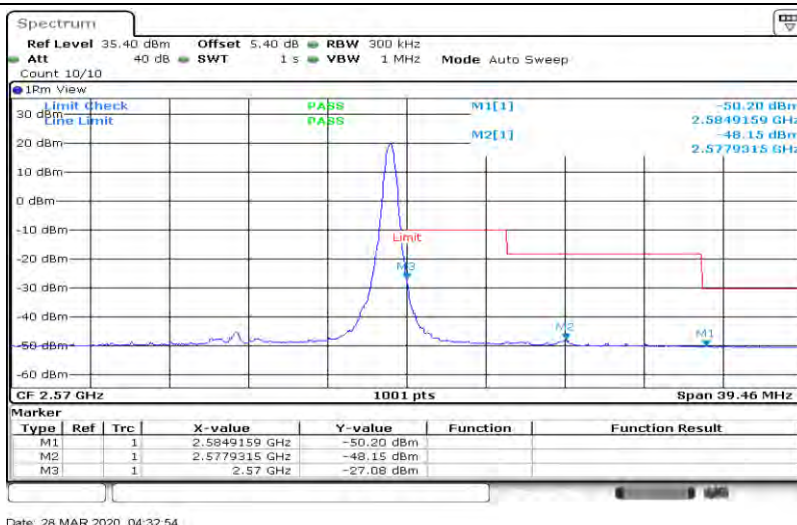


Band7-15MHz-16QAM-20825-75RB#0

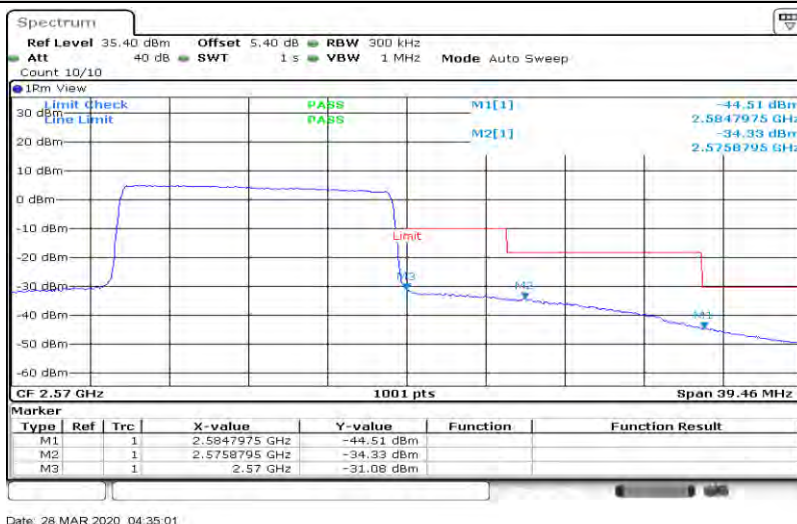


Band7-15MHz-16QAM-21375-1RB#74





Band7-15MHz-16QAM-21375-75RB#0

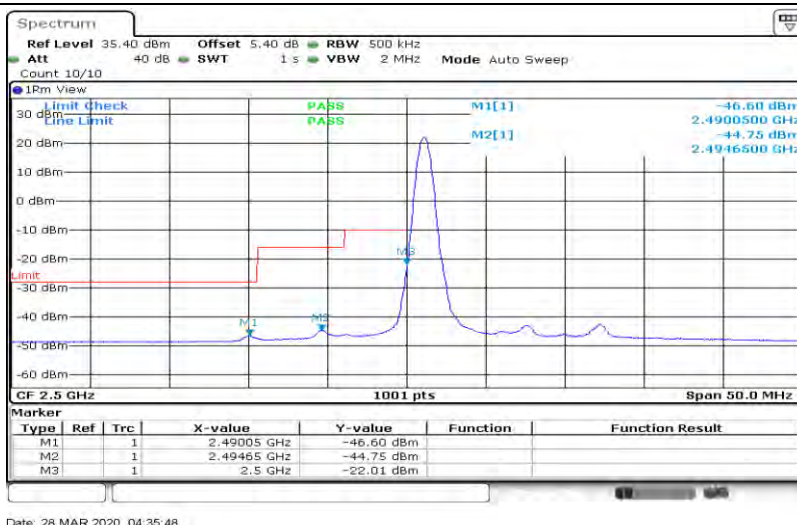


Band7-20MHz-QPSK-20850-1RB#0



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
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



Band7-20MHz-QPSK-20850-100RB#0

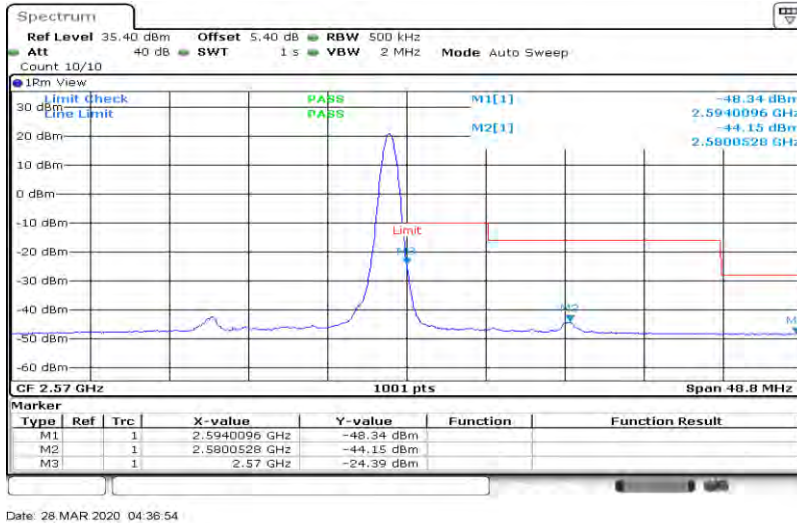


Band7-20MHz-QPSK-21350-1RB#99

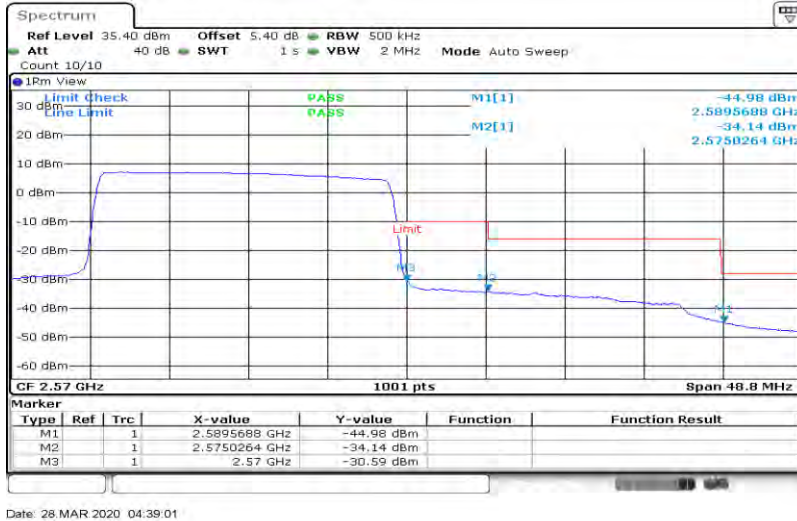


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band7-20MHz-QPSK-21350-100RB#0

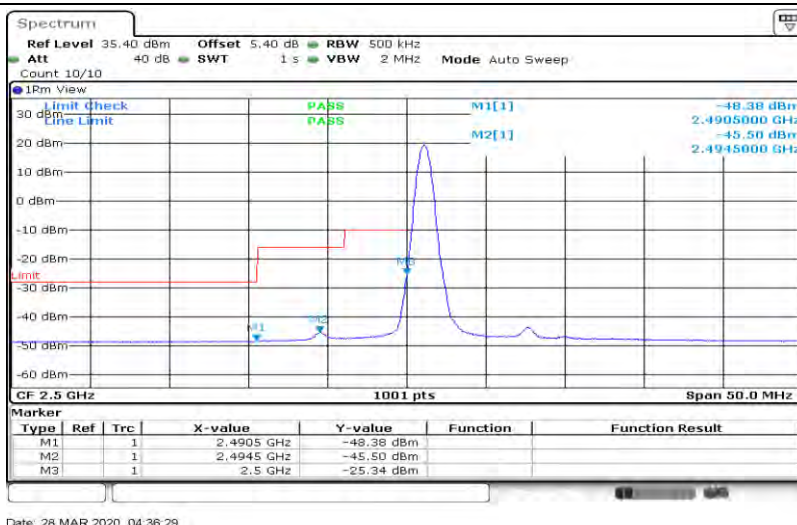


Band7-20MHz-64QAM-20850-1RB#0

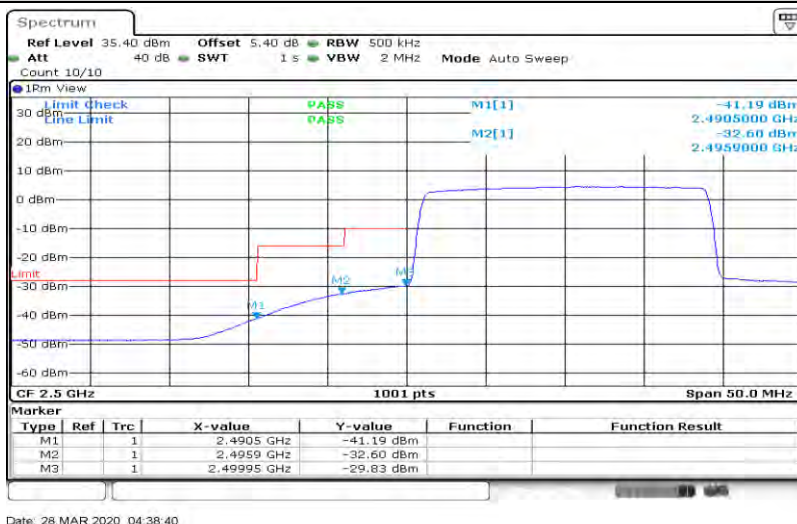


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band7-20MHz-64QAM-20850-100RB#0

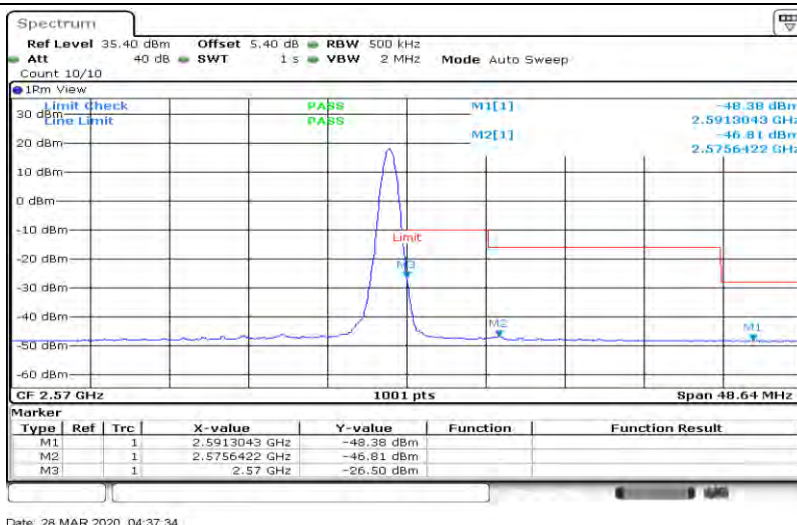


Band7-20MHz-64QAM-21350-1RB#99

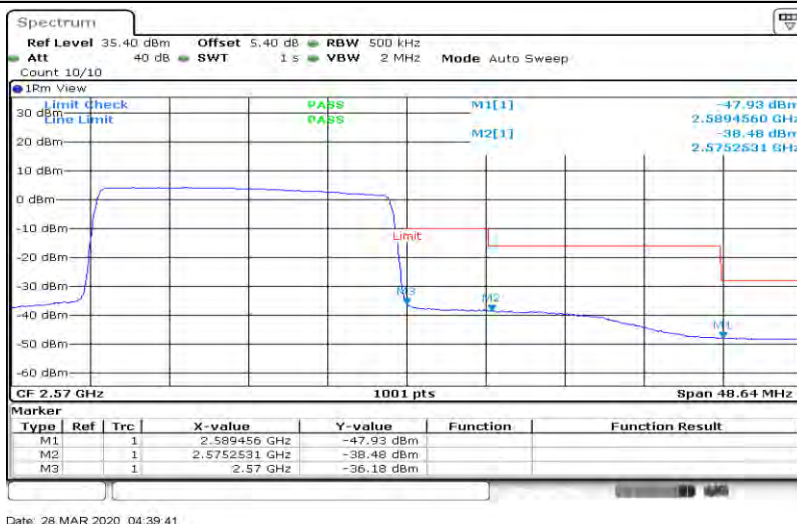


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

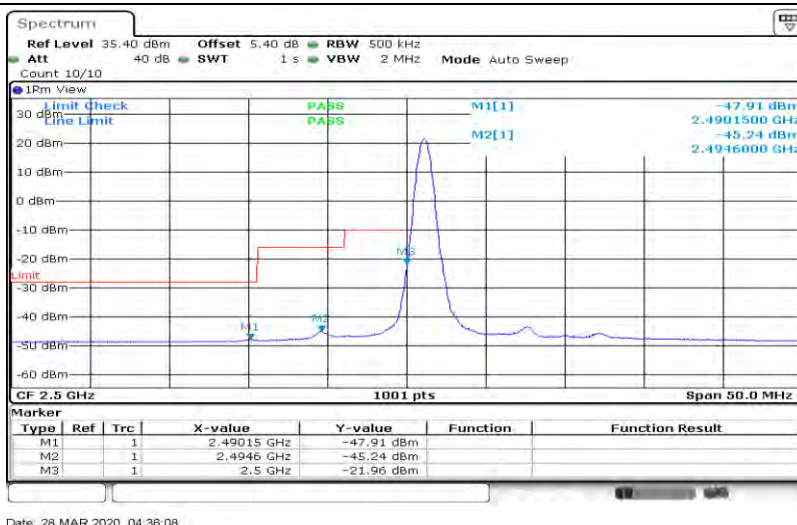
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



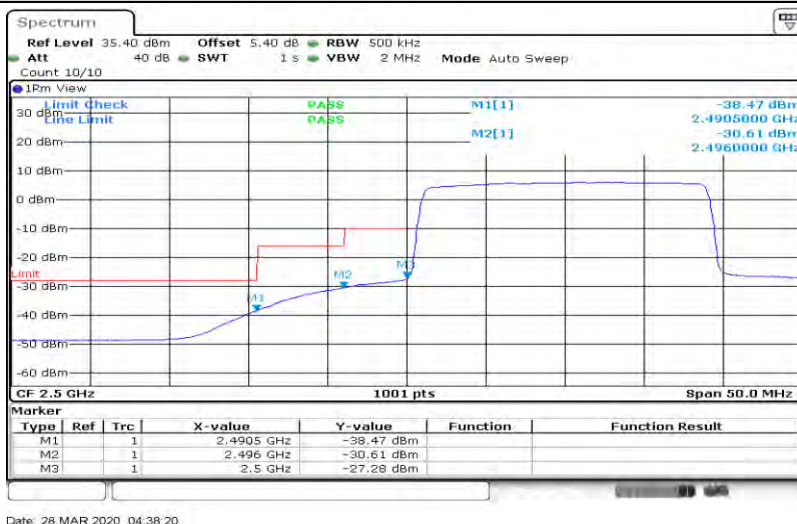
Band7-20MHz-64QAM-21350-100RB#0



Band7-20MHz-16QAM-20850-1RB#0



Band7-20MHz-16QAM-20850-100RB#0

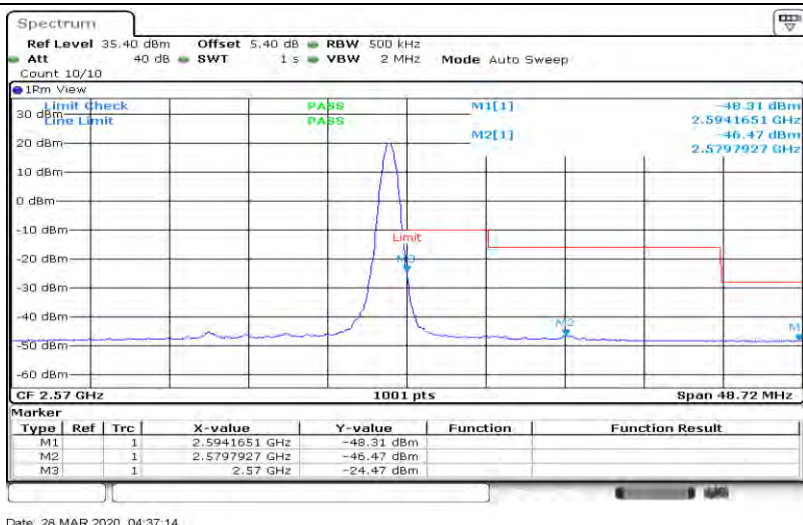


Band7-20MHz-16QAM-21350-1RB#99

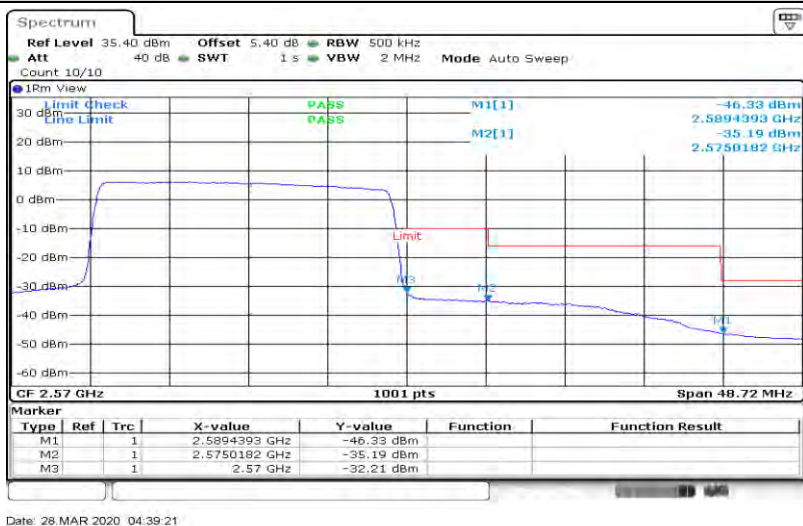


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band7-20MHz-16QAM-21350-100RB#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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is deemed to have accepted the Terms and Conditions of the document and the 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 expiration date of this document is illegal and may be subject to criminal sanctions. If the Client has not 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 (Shenzhen CEMC Laboratory)

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

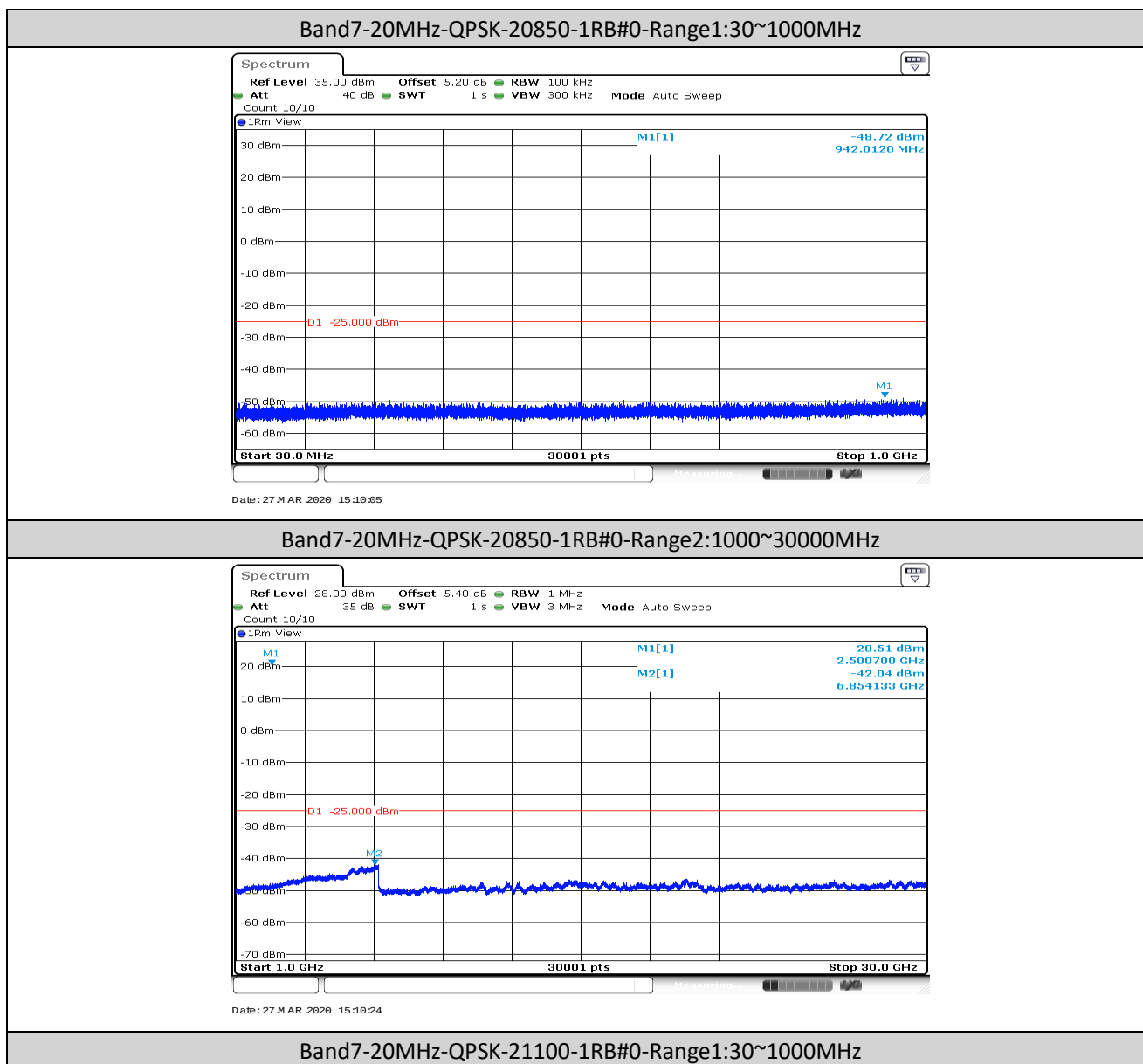


6. Spurious Emission at Antenna Terminal

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.

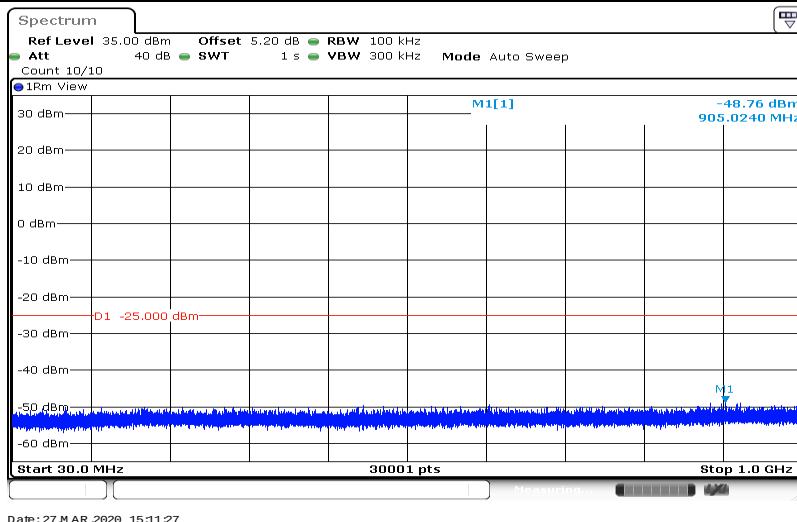
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

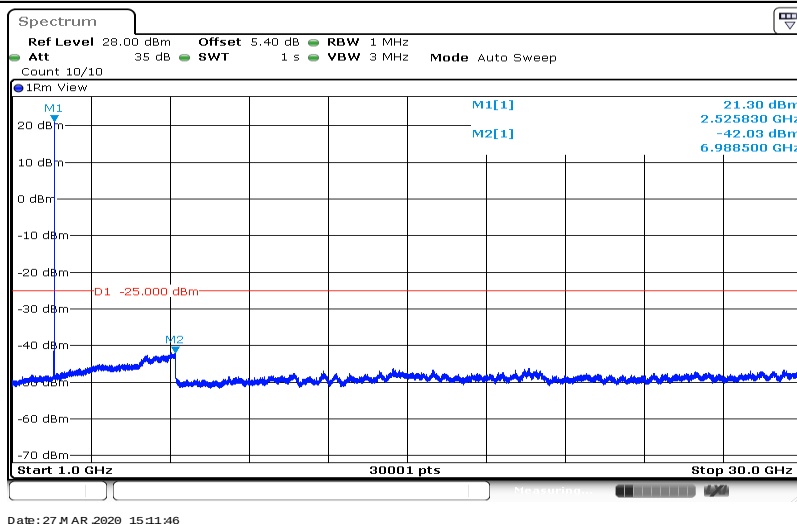


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz

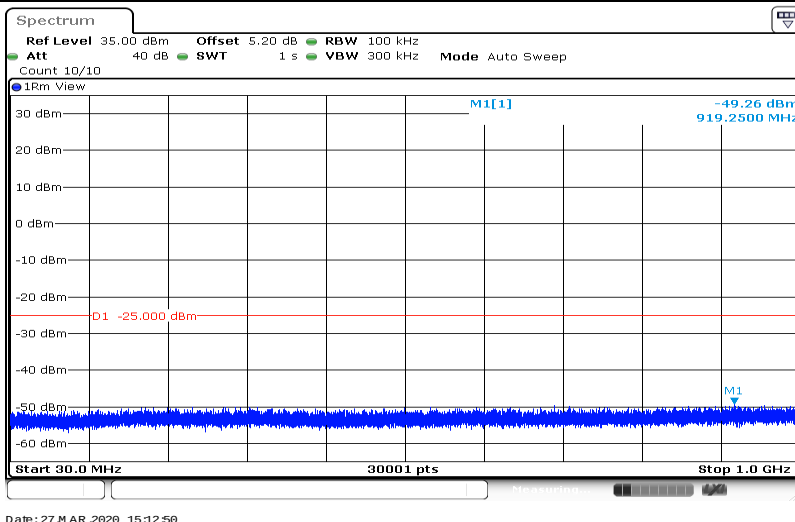


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

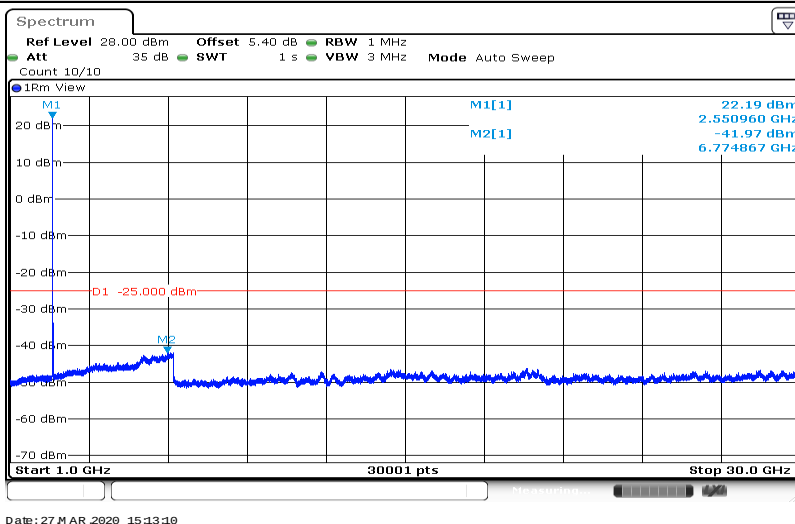
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

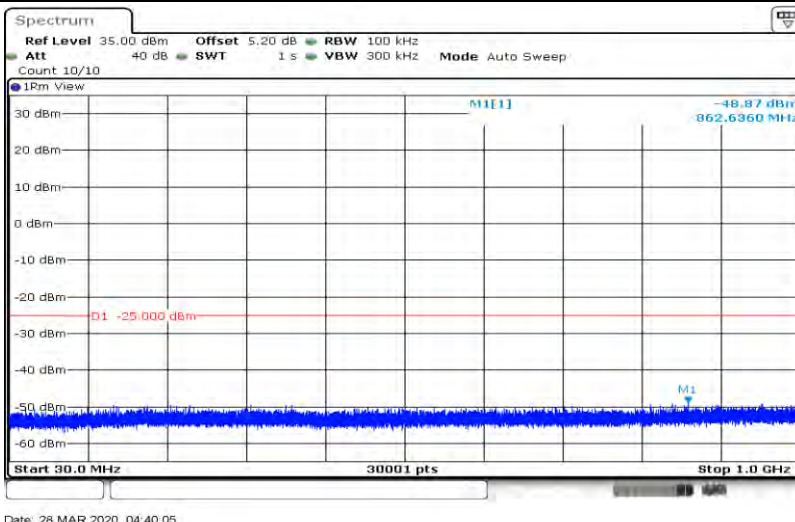


Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz

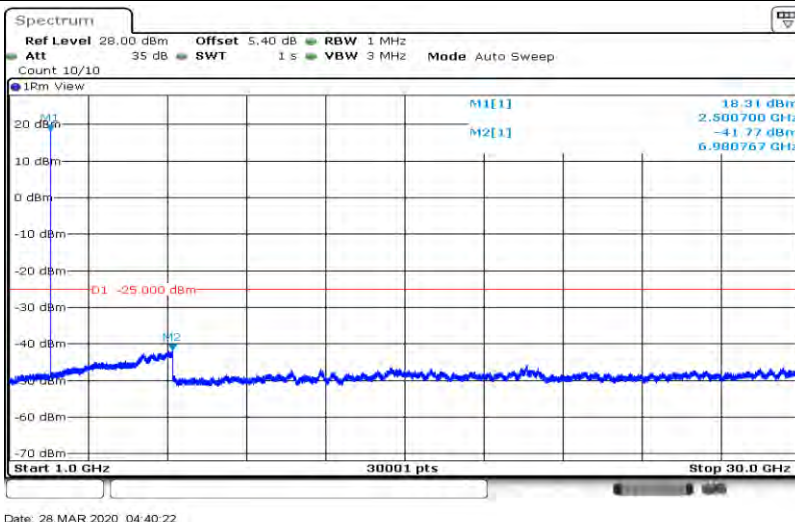


Band7-20MHz-64QAM-20850-1RB#0-Range1:30~1000MHz



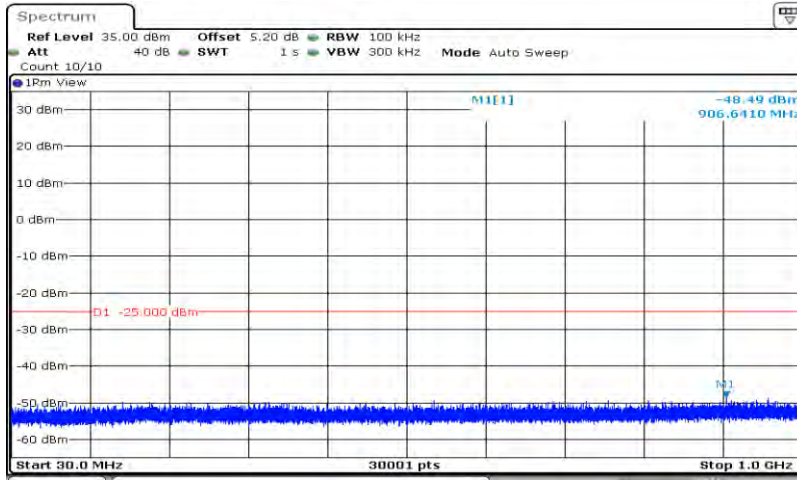


Band7-20MHz-64QAM-20850-1RB#0-Range2:1000~30000MHz



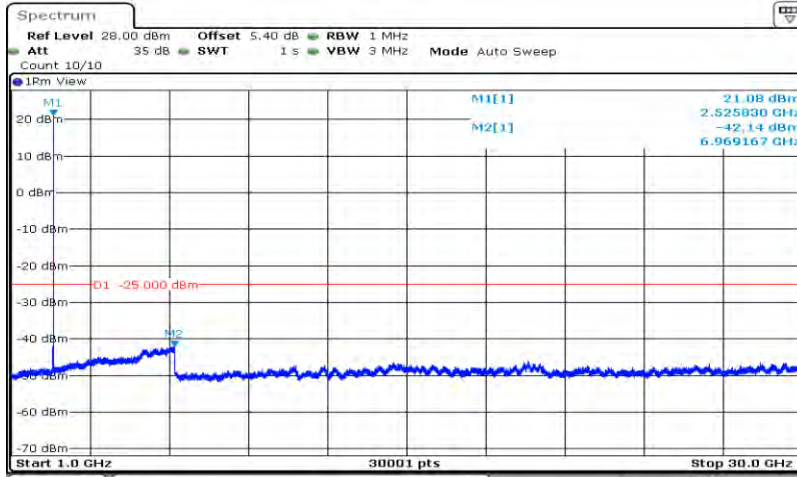
Band7-20MHz-64QAM-21100-1RB#0-Range1:30~1000MHz





Date: 28.MAR.2020 04:40:40

Band7-20MHz-64QAM-21100-1RB#0-Range2:1000~30000MHz



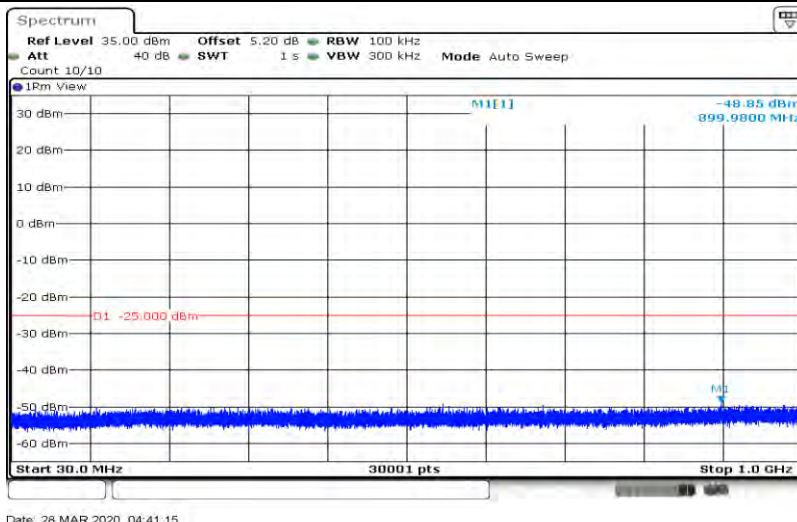
Date: 28.MAR.2020 04:40:57

Band7-20MHz-64QAM-21350-1RB#0-Range1:30~1000MHz

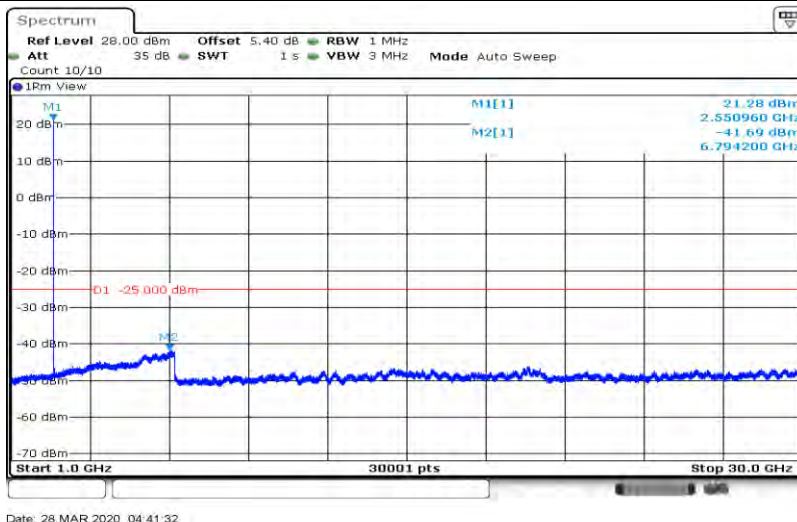


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

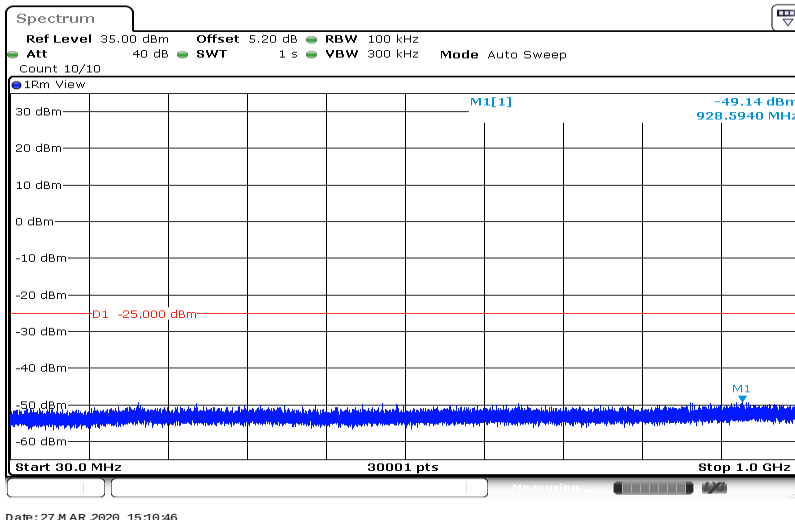


Band7-20MHz-64QAM-21350-1RB#0-Range2:1000~30000MHz

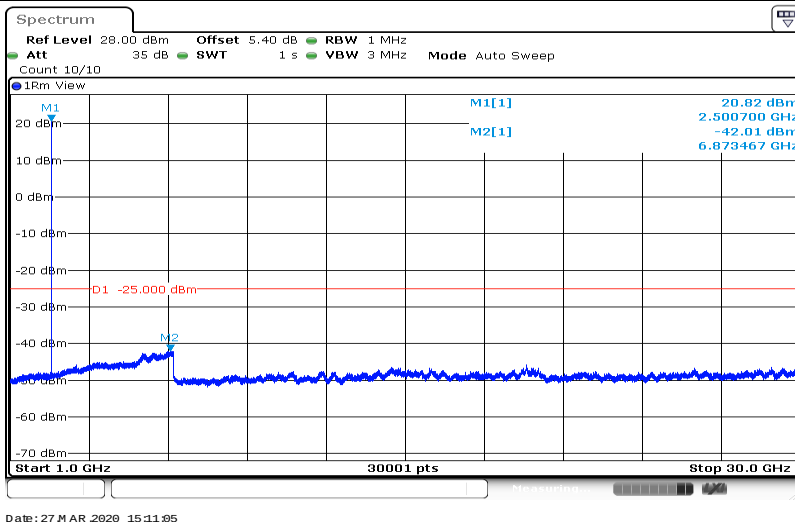


Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz



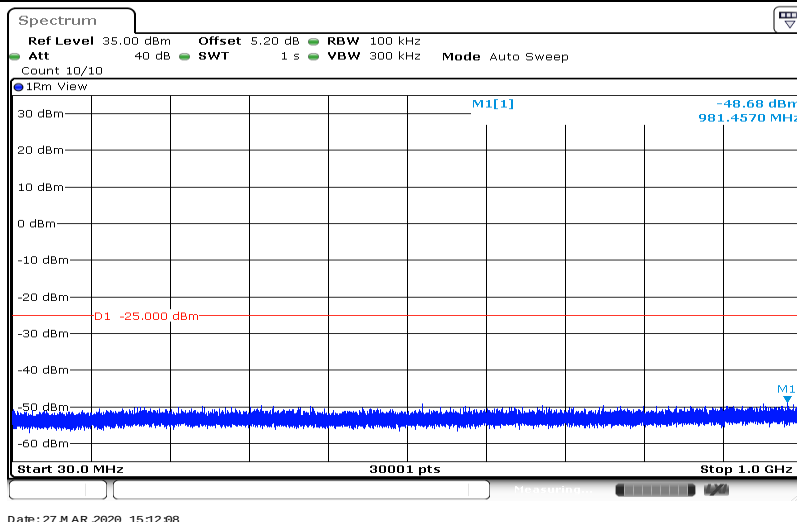


Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz

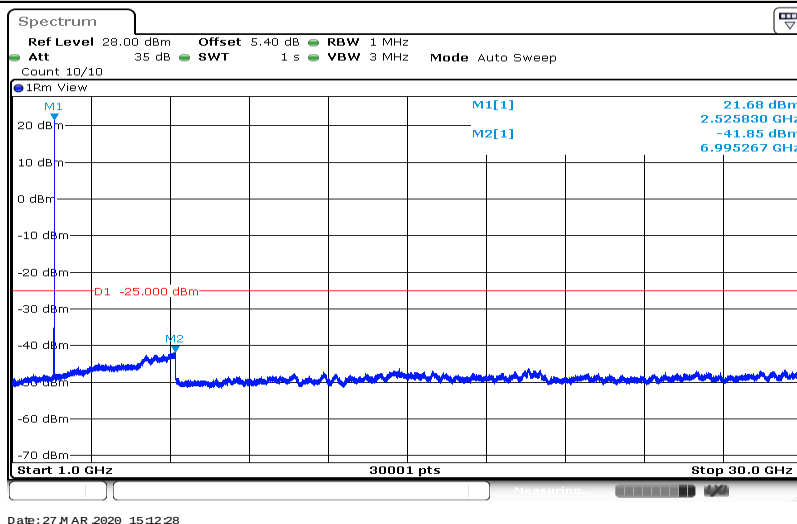


Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



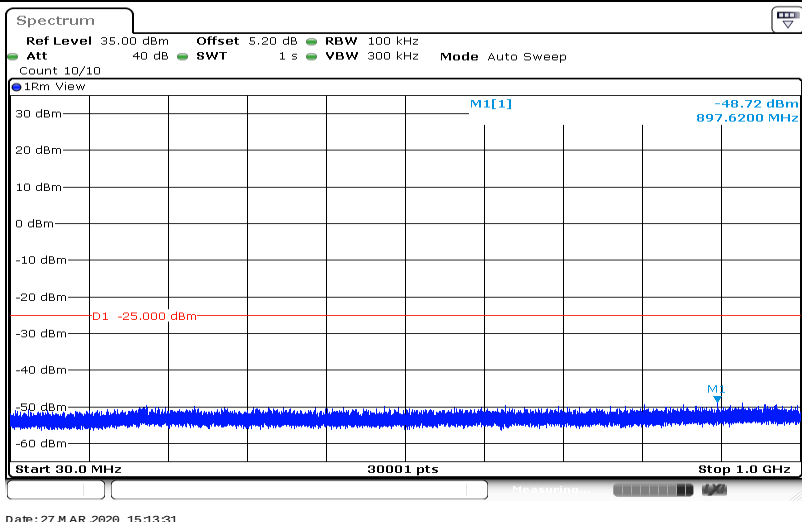


Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz

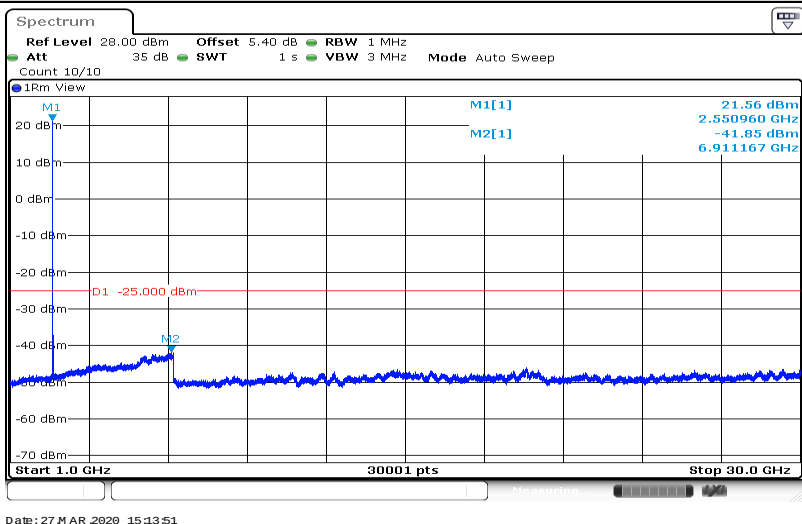


Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz





Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz





7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 7

7.1.1. Test Mode = LTE/TM1 (Down Ant)

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.3386	-65.33	-25.00	40.33	Vertical
667.2249	-64.74	-25.00	39.74	Vertical
1676.9354	-45.46	-25.00	20.46	Vertical
7444.3778	-57.32	-25.00	32.32	Vertical
14580.4632	-49.11	-25.00	24.11	Vertical
17996.9999	-41.43	-25.00	16.43	Vertical
44.0172	-65.19	-25.00	40.19	Horizontal
243.0227	-67.48	-25.00	42.48	Horizontal
1642.1284	-45.75	-25.00	20.75	Horizontal
7462.9785	-57.25	-25.00	32.25	Horizontal
16398.5359	-44.75	-25.00	19.75	Horizontal
17999.4000	-45.91	-25.00	20.91	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
107.4584	-66.83	-25.00	41.83	Vertical
716.4548	-63.38	-25.00	38.38	Vertical
1683.7367	-45.41	-25.00	20.41	Vertical
7449.1780	-57.12	-25.00	32.12	Vertical
14482.0593	-48.98	-25.00	23.98	Vertical
17998.8000	-40.69	-25.00	15.69	Vertical
43.9687	-64.96	-25.00	39.96	Horizontal
595.4898	-64.84	-25.00	39.84	Horizontal
1599.7199	-45.83	-25.00	20.83	Horizontal
7355.5742	-57.43	-25.00	32.43	Horizontal
16397.9359	-44.81	-25.00	19.81	Horizontal
17999.4000	-46.09	-25.00	21.09	Horizontal





7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
106.1488	-66.12	-25.00	41.12	Vertical
670.5715	-64.45	-25.00	39.45	Vertical
1704.1408	-44.96	-25.00	19.96	Vertical
7360.9744	-56.80	-25.00	31.80	Vertical
14566.6627	-48.65	-25.00	23.65	Vertical
17998.8000	-40.93	-25.00	15.93	Vertical
43.0957	-64.96	-25.00	39.96	Horizontal
558.4824	-65.22	-25.00	40.22	Horizontal
1591.7183	-45.67	-25.00	20.67	Horizontal
7451.5781	-57.09	-25.00	32.09	Horizontal
16382.3353	-45.08	-25.00	20.08	Horizontal
17998.1999	-46.04	-25.00	21.04	Horizontal

7.1.2. Test Mode = LTE/TM1 (Up Ant)

7.1.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
74.3312	-69.08	-25.00	44.08	Vertical
113.3272	-65.14	-25.00	40.14	Vertical
467.5889	-67.00	-25.00	42.00	Vertical
2627.9256	-37.47	-25.00	12.47	Vertical
7338.7736	-57.31	-25.00	32.31	Vertical
17997.5999	-40.94	-25.00	15.94	Vertical
41.2041	-63.83	-25.00	38.83	Horizontal
251.2681	-68.66	-25.00	43.66	Horizontal
768.0614	-62.26	-25.00	37.26	Horizontal
2700.3401	-37.23	-25.00	12.23	Horizontal
7500.1800	-57.25	-25.00	32.25	Horizontal
16396.1358	-44.99	-25.00	19.99	Horizontal

7.1.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
78.5994	-68.76	-25.00	43.76	Vertical
117.8864	-65.16	-25.00	40.16	Vertical
602.3286	-64.13	-25.00	39.13	Vertical
2998.7998	-39.36	-25.00	14.36	Vertical



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. 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
Shenzhen Branch Laboratory 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



7359.1744	-57.42	-25.00	32.42	Vertical
17994.5998	-41.34	-25.00	16.34	Vertical
43.3382	-64.32	-25.00	39.32	Horizontal
234.7772	-68.44	-25.00	43.44	Horizontal
618.1404	-64.77	-25.00	39.77	Horizontal
2991.9984	-39.29	-25.00	14.29	Horizontal
7459.3784	-57.35	-25.00	32.35	Horizontal
16400.3360	-45.31	-25.00	20.31	Horizontal

7.1.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
80.1030	-67.99	-25.00	42.99	Vertical
112.3086	-66.01	-25.00	41.01	Vertical
829.9020	-59.00	-25.00	34.00	Vertical
2685.9372	-36.31	-25.00	11.31	Vertical
8013.2005	-56.86	-25.00	31.86	Vertical
17984.3994	-40.95	-25.00	15.95	Vertical
45.2783	-64.73	-25.00	39.73	Horizontal
241.8101	-67.25	-25.00	42.25	Horizontal
733.1397	-63.20	-25.00	38.20	Horizontal
2704.7409	-37.29	-25.00	12.29	Horizontal
9323.0529	-54.05	-25.00	29.05	Horizontal
16398.5359	-45.11	-25.00	20.11	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..





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
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-18.30	-0.007291	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-6.90	-0.002749	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-6.50	-0.002590	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	3.10	0.001223	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-9.40	-0.003708	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-2.80	-0.001094	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	2.60	0.001016	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-1.20	-0.000469	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VL	NT	-7.10	-0.002829	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VN	NT	-12.70	-0.005060	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VH	NT	-12.80	-0.005100	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VL	NT	3.00	0.001183	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VN	NT	0.70	0.000276	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VH	NT	6.40	0.002525	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VL	NT	3.40	0.001328	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VN	NT	0.70	0.000273	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VH	NT	-2.00	-0.000781	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-14.20	-0.005657	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-16.60	-0.006614	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-6.20	-0.002470	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-5.80	-0.002288	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-5.90	-0.002327	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	1.30	0.000513	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-7.30	-0.002852	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	5.20	0.002031	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	4.60	0.001797	±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
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-5.20	-0.002072	±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



Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-9.50	-0.003785	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-18.50	-0.007371	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-6.80	-0.002709	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-1.70	-0.000677	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-11.00	-0.004382	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-20.50	-0.008167	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-8.40	-0.003347	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	6.30	0.002485	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-11.60	-0.004576	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	7.20	0.002840	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-10.60	-0.004181	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	2.60	0.001026	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	1.30	0.000513	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	1.00	0.000394	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-3.40	-0.001341	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-1.30	-0.000508	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	0.70	0.000273	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-4.30	-0.001680	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-5.50	-0.002148	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-2.20	-0.000859	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-7.60	-0.002969	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-2.30	-0.000898	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	4.90	0.001914	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-30	-5.60	-0.002231	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-20	-15.50	-0.006175	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	0	-8.20	-0.003267	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	10	-7.00	-0.002789	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	20	-7.70	-0.003068	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	30	-12.20	-0.004861	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	40	-13.60	-0.005418	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	50	-10.90	-0.004343	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-30	3.30	0.001302	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-20	-7.70	-0.003037	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	0	-7.30	-0.002880	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	10	-1.70	-0.000671	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	20	-2.10	-0.000828	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	30	1.40	0.000552	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	40	7.10	0.002801	±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

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



Band7	20MHz	64QAM	21100	100RB#0	NV	50	-2.60	-0.001026	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-30	-5.90	-0.002305	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-20	-9.30	-0.003633	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	0	5.70	0.002227	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	10	-7.20	-0.002813	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	20	-9.50	-0.003711	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	30	3.30	0.001289	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	40	-2.00	-0.000781	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	50	-10.80	-0.004219	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-5.10	-0.002032	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	-20.30	-0.008088	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-11.00	-0.004382	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-14.30	-0.005697	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-14.00	-0.005578	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	-14.50	-0.005777	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	-11.60	-0.004622	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-15.80	-0.006295	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	2.30	0.000907	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-11.60	-0.004576	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-2.50	-0.000986	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	7.00	0.002761	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-10.00	-0.003945	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	3.10	0.001223	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	5.80	0.002288	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	6.60	0.002604	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-4.00	-0.001563	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-8.80	-0.003438	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-7.90	-0.003086	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	1.90	0.000742	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-0.80	-0.000313	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-4.80	-0.001875	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	6.00	0.002344	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	4.40	0.001719	±2.5	PASS

