



Appendix B

E-UTRA Band 4



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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	3
1.1.	TEST RESULT	3
2.	PEAK-TO-AVERAGE RATIO (CCDF)	11
2.1.	TEST RESULT	11
2.2.	TEST PLOTS.....	11
3.	MODULATION CHARACTERISTICS	15
3.1.	TEST MODE = LTE /TM1 20MHZ.....	15
3.1.1.	TEST CHANNEL = MCH.....	15
3.2.	TEST MODE = LTE /TM2 20MHZ.....	16
3.2.1.	TEST CHANNEL = MCH.....	16
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	17
4.1.	TEST RESULT	17
4.2.	TEST PLOTS.....	18
5.	BAND EDGE COMPLIANCE	36
5.1.	TEST PLOTS.....	36
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	60
6.1.	TEST RESULT	60
6.2.	TEST PLOTS.....	60
7.	FIELD STRENGTH OF SPURIOUS RADIATION	67
7.1.	TEST MODE =LTE/TM1	67
7.1.1.	TEST CHANNEL = LCH	67
7.1.2.	TEST CHANNEL = MCH.....	67
7.1.3.	TEST CHANNEL = HCH.....	68
8.	FREQUENCY STABILITY.....	69
8.1.	FREQUENCY VS VOLTAGE	69
8.2.	FREQUENCY VS TEMPERATURE	69



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

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



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.12	24.52	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.27	24.67	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.92	24.32	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.26	24.66	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.12	24.52	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.31	24.71	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.28	23.68	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.01	24.41	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.33	24.73	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.38	24.78	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.24	24.64	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.37	24.77	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.23	24.63	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.35	23.75	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.23	24.63	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.18	24.58	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.23	24.63	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.19	24.59	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.39	24.79	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.32	24.72	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.30	23.70	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.06	23.46	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.80	23.20	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.78	23.18	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.35	23.75	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.33	23.73	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.50	23.90	30.00	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Shenzhen Branch: 科技园中区M-10栋一号楼
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
中国·深圳·科技园中区M-10栋一号楼

t (86-755) 26012053 f (86-755) 26710594
t (86-755) 26012053 f (86-755) 26710594

www.sgsgroup.com.cn
sgs.china@sgs.com



Band4	1.4MHz	16QAM	19957	6RB#0	21.29	22.69	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.86	23.26	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.01	23.41	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.90	23.30	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.51	23.91	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.48	23.88	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.46	23.86	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.49	22.89	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.14	23.54	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.06	23.46	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.78	23.18	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.56	23.96	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.49	23.89	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.55	23.95	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.39	22.79	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.12	24.52	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.25	24.65	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.95	24.35	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.26	23.66	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.23	23.63	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.15	23.55	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.37	23.77	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.38	24.78	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.09	24.49	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.45	24.85	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.43	23.83	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.27	23.67	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.46	23.86	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.42	23.82	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.12	24.52	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.01	24.41	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.27	24.67	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.34	23.74	30.00	PASS



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



Band4	3MHz	QPSK	20385	8RB#0	22.38	23.78	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.32	23.72	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.31	23.71	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.02	23.42	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.92	23.32	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.92	23.32	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.11	22.51	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.17	22.57	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.10	22.50	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.35	22.75	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.93	23.33	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.96	23.36	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.98	23.38	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.62	23.02	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.27	22.67	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.33	22.73	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.45	22.85	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.13	23.53	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.90	23.30	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.99	23.39	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.24	22.64	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.22	22.62	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.13	22.53	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.38	22.78	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.40	24.80	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.15	24.55	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.33	24.73	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.09	23.49	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.35	23.75	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.30	23.70	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.26	23.66	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.48	24.88	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.25	24.65	30.00	PASS



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

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

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, CSTC 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



Band4	5MHz	QPSK	20175	1RB#12	23.19	24.59	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.55	23.95	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.27	23.67	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.33	23.73	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.43	23.83	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.38	24.78	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.24	24.64	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.36	24.76	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.29	23.69	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.24	23.64	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.38	23.78	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.41	23.81	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.00	23.40	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.28	23.68	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.88	23.28	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.31	22.71	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.35	22.75	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.41	22.81	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.24	22.64	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.95	23.35	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.42	23.82	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.07	23.47	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.26	22.66	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.42	22.82	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.44	22.84	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.36	22.76	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.91	23.31	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.01	23.41	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.46	23.86	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.22	22.62	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.35	22.75	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.50	22.90	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.41	22.81	30.00	PASS



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

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

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



Band4	10MHz	QPSK	20000	1RB#0	23.35	24.75	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.32	24.72	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.51	24.91	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.29	23.69	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.15	23.55	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.49	23.89	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.20	23.60	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.12	24.52	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.21	24.61	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.60	25.00	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.36	23.76	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.58	23.98	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.32	23.72	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.34	23.74	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.64	25.04	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.14	24.54	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.51	24.91	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.60	24.00	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.20	23.60	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.35	23.75	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.42	23.82	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.11	23.51	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.82	23.22	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.12	23.52	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.36	22.76	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.47	22.87	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.34	22.74	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.29	22.69	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.12	23.52	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.02	23.42	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.20	23.60	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.39	22.79	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.44	22.84	30.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
Shenzhen Branch, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	10MHz	16QAM	20175	25RB#0	21.41	22.81	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.39	22.79	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.02	23.42	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.04	23.44	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.19	23.59	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.45	22.85	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.51	22.91	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.52	22.92	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.38	22.78	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.23	24.63	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.39	24.79	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.38	24.78	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.39	23.79	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.49	23.89	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.24	23.64	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.25	23.65	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.22	24.62	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.54	24.94	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.32	24.72	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.36	23.76	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.40	23.80	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.65	24.05	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.41	23.81	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.87	24.27	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.41	24.81	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.49	24.89	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.35	23.75	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.47	23.87	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.22	23.62	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.47	23.87	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.99	23.39	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.07	23.47	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.05	23.45	30.00	PASS



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



Band4	15MHz	16QAM	20025	36RB#0	21.31	22.71	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.26	22.66	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.51	22.91	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.31	22.71	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.86	23.26	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.75	23.15	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.02	23.42	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.43	22.83	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.42	22.82	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.36	22.76	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.35	22.75	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.07	23.47	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.12	23.52	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.00	23.40	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.51	22.91	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.50	22.90	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.31	22.71	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.43	22.83	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.19	24.59	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.52	24.92	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.21	24.61	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.55	23.95	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.15	23.55	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.38	23.78	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.27	23.67	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.07	24.47	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.20	24.60	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.63	25.03	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.56	23.96	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.22	23.62	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.26	23.66	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.20	23.60	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.40	24.80	30.00	PASS



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

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

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.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



Band4	20MHz	QPSK	20300	1RB#49	23.61	25.01	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.98	24.38	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.54	23.94	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.48	23.88	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.18	23.58	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.49	23.89	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.00	23.40	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.94	23.34	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.90	23.30	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.46	22.86	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.27	22.67	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.36	22.76	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.44	22.84	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.06	23.46	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.93	23.33	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.59	22.99	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.42	22.82	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.21	22.61	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.37	22.77	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.36	22.76	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.11	23.51	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.91	23.31	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.25	23.65	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.43	22.83	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.46	22.86	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.47	22.87	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.46	22.86	30.00	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
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

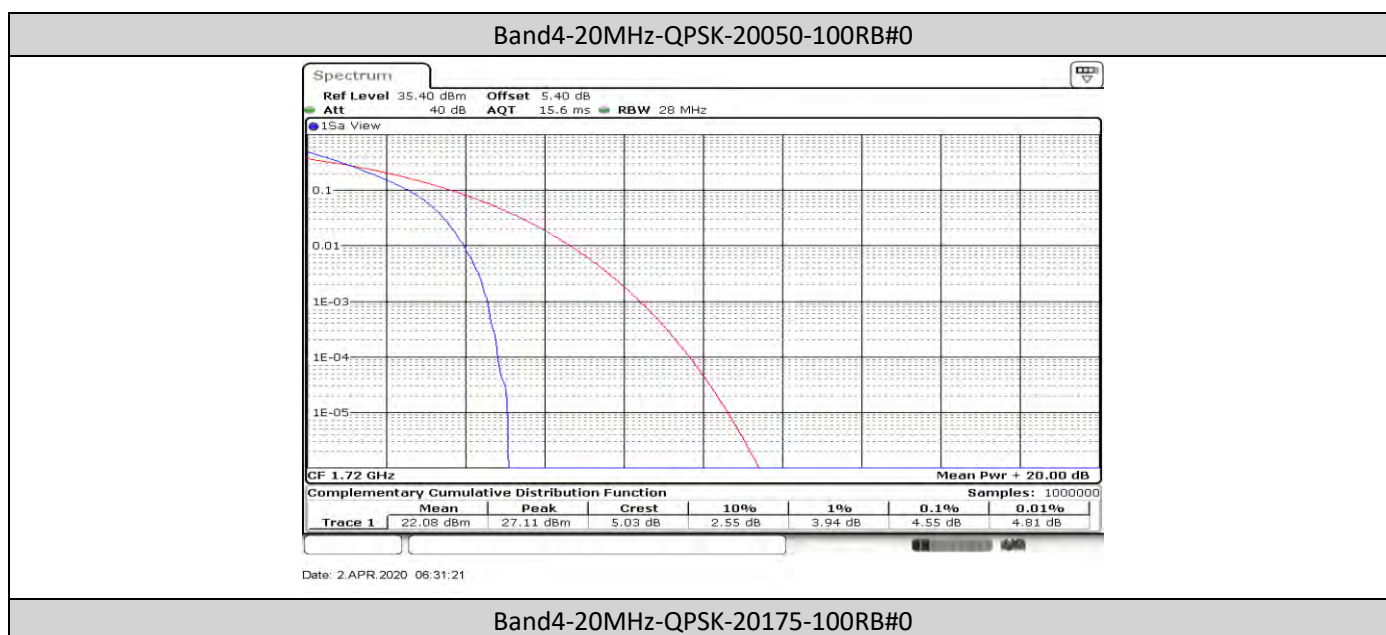


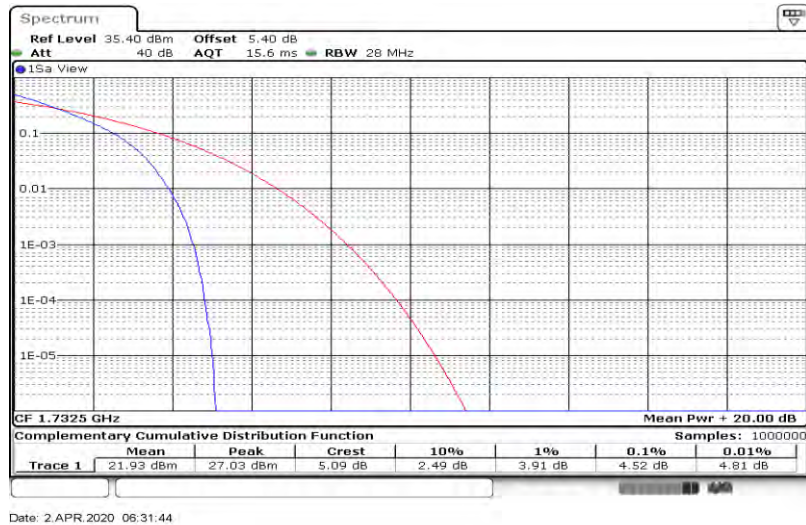
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.55	13.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.52	13.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.46	13.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.33	13.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.36	13.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.30	13.00	PASS

2.2. Test Plots





Band4-20MHz-QPSK-20300-100RB#0



Band4-20MHz-16QAM-20050-100RB#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



Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-100RB#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.

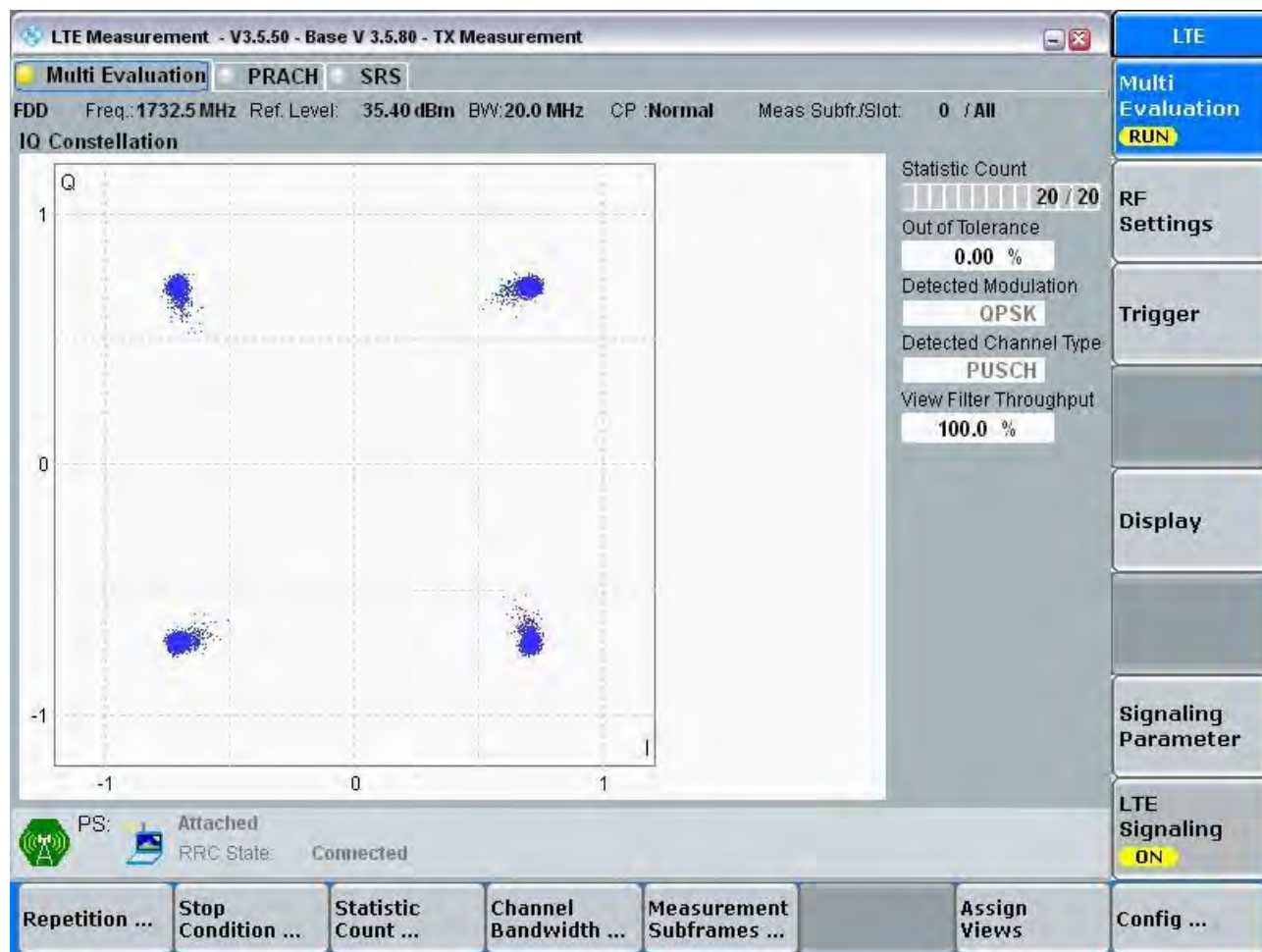
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

3.1. Test Mode = LTE /TM1 20MHz

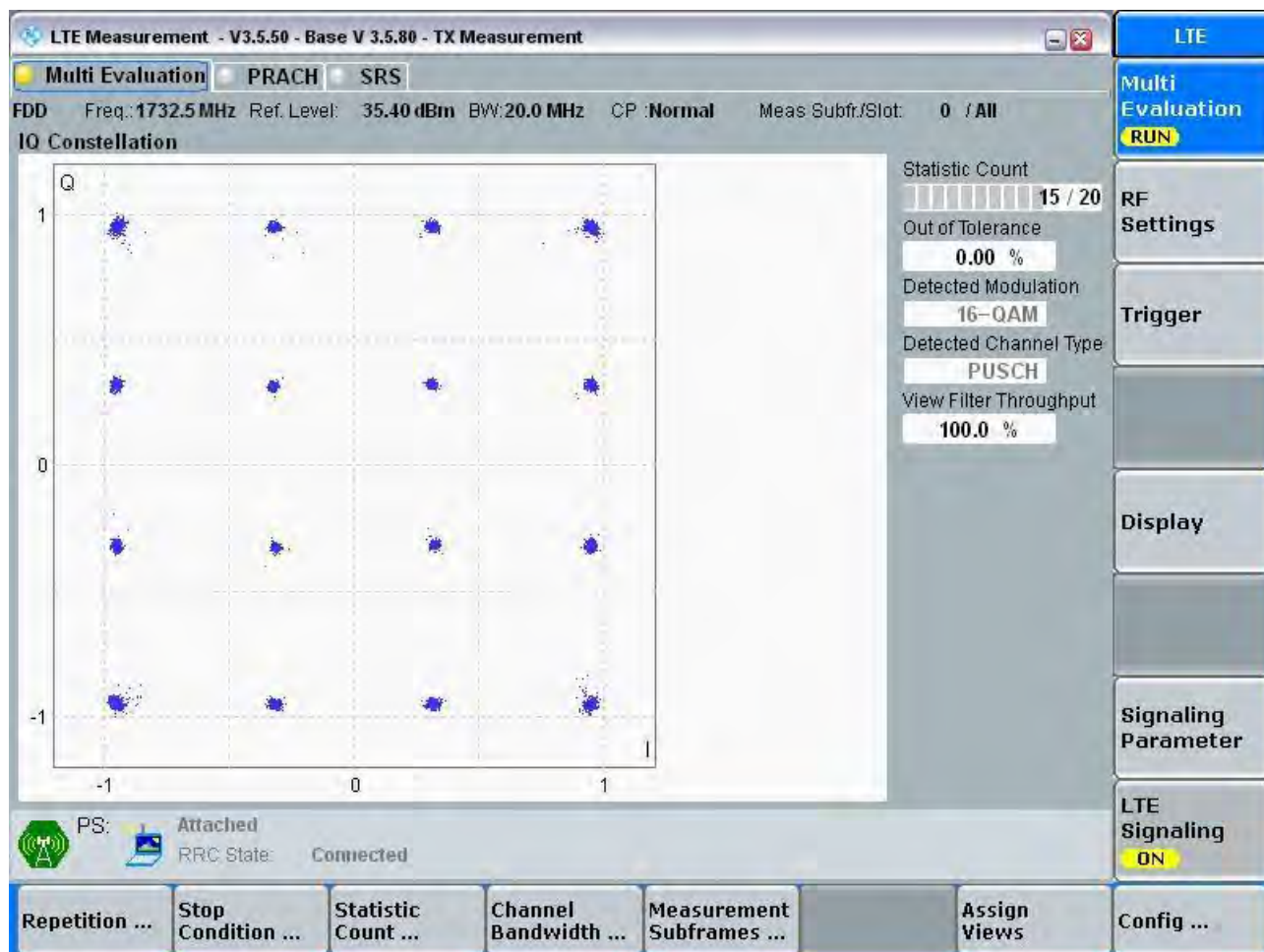
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.094	1.305	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.100	1.302	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.094	1.305	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.308	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.094	1.308	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.299	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.697	3.018	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.697	3.012	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.697	3.000	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	2.976	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.685	2.982	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	2.988	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	4.900	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.930	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.466	4.910	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.970	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	4.970	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.486	4.970	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.760	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.911	9.740	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.740	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.911	9.800	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.911	9.740	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.931	9.780	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.397	14.610	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.457	14.670	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.427	14.730	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.457	14.760	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.427	14.700	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.427	14.730	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.862	19.400	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.

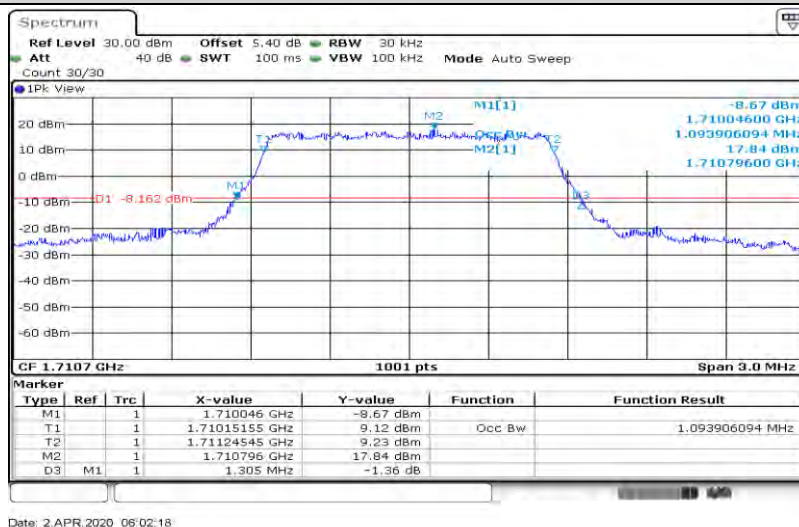
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



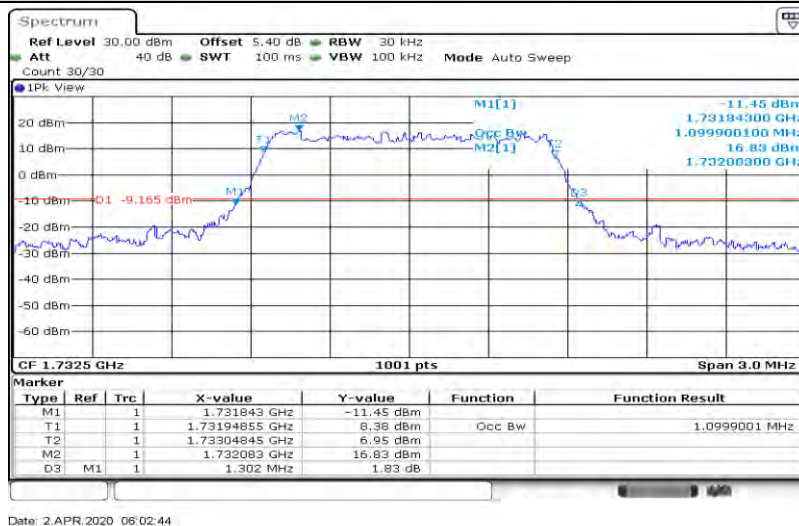
Band4	20MHz	QPSK	20175	100RB#0	17.862	19.400	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.822	19.360	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.862	19.440	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.822	19.480	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.862	19.400	PASS

4.2. Test Plots

Band4-1.4MHz-QPSK-19957-6RB#0-1.094

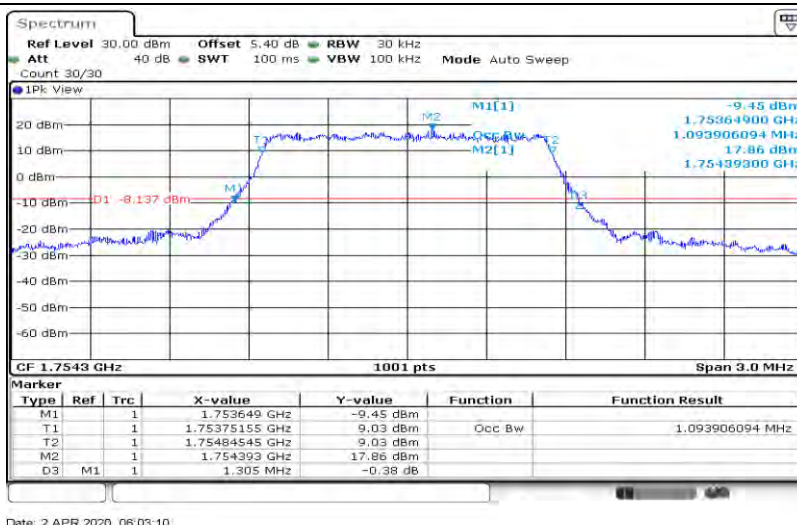


Band4-1.4MHz-QPSK-20175-6RB#0-1.1

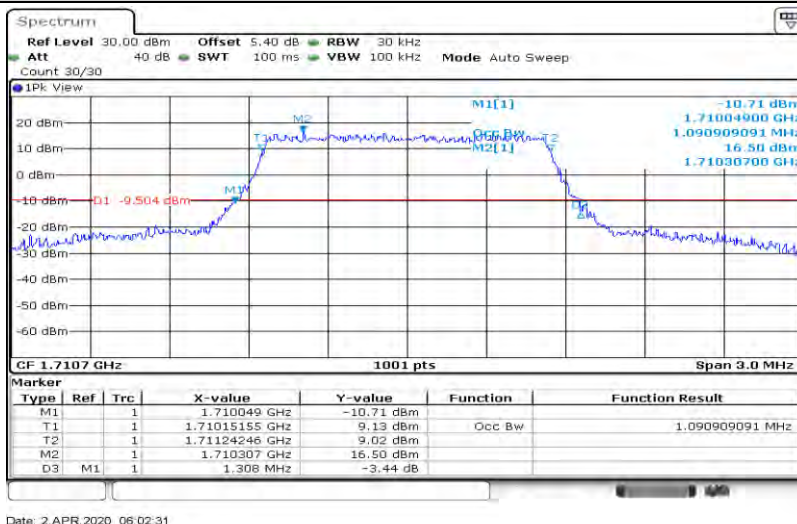


Band4-1.4MHz-QPSK-20393-6RB#0-1.094

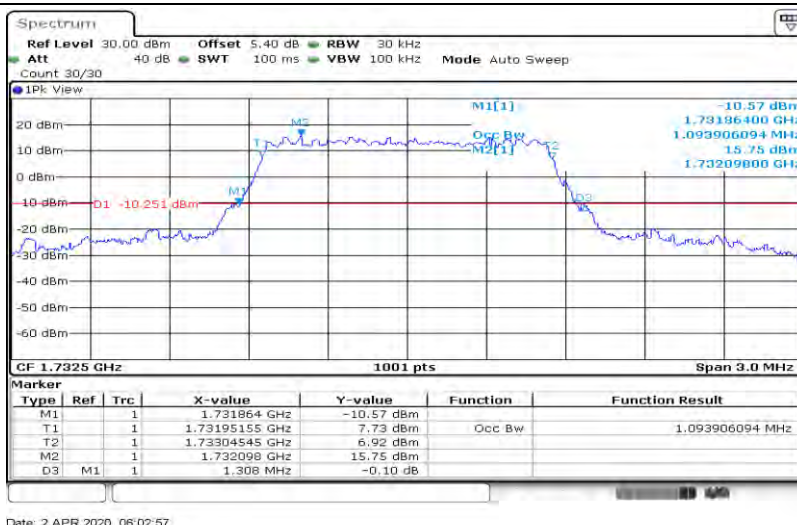




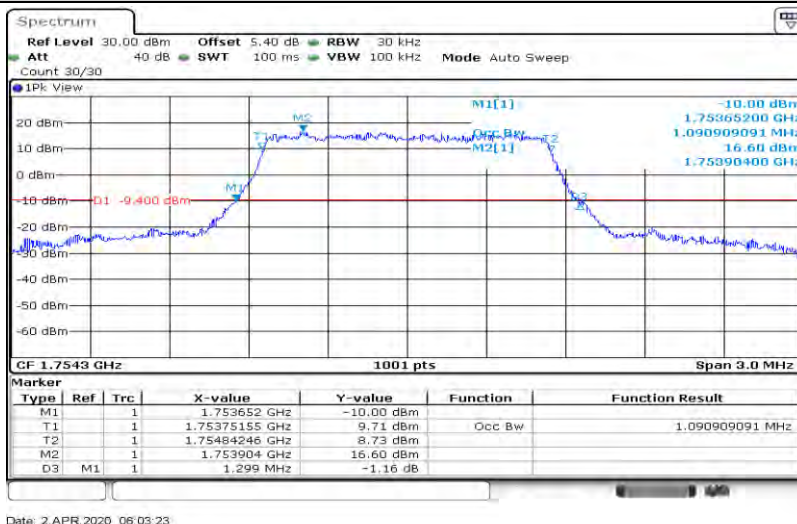
Band4-1.4MHz-16QAM-19957-6RB#0-1.091



Band4-1.4MHz-16QAM-20175-6RB#0-1.094

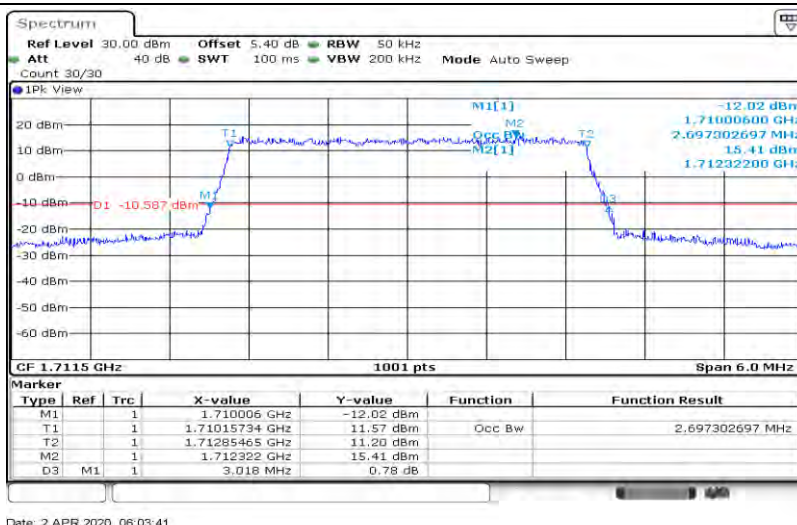


Band4-1.4MHz-16QAM-20393-6RB#0-1.091



Band4-3MHz-QPSK-19965-15RB#0-2.697





Band4-3MHz-QPSK-20175-15RB#0-2.697



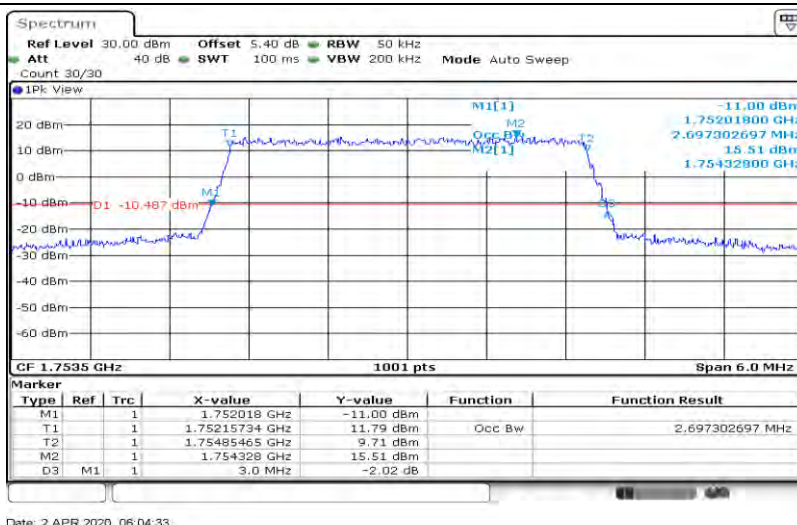
Band4-3MHz-QPSK-20385-15RB#0-2.697



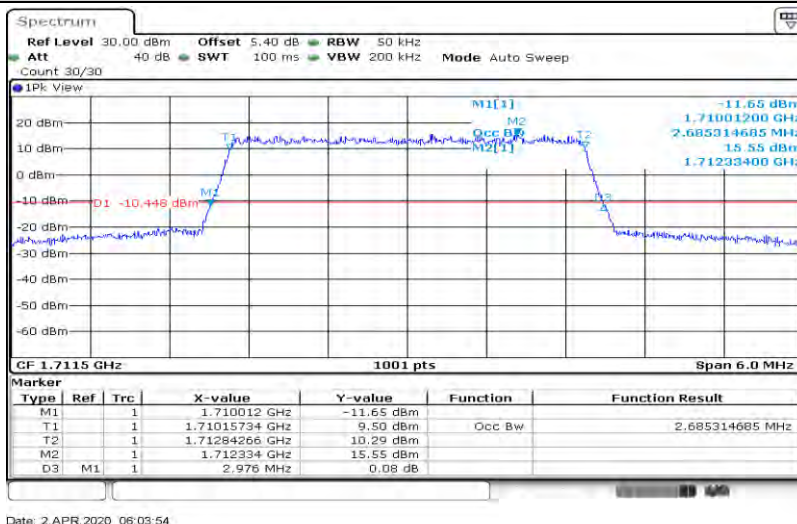
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 contractual conditions and the limitation of liability, indemnification and jurisdiction issues defined therein. 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 is strictly prohibited. If the results of the analysis are not satisfactory, the Company will re-analyse the sample, 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 (South China) CEC 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 sgsc.china@sgs.com

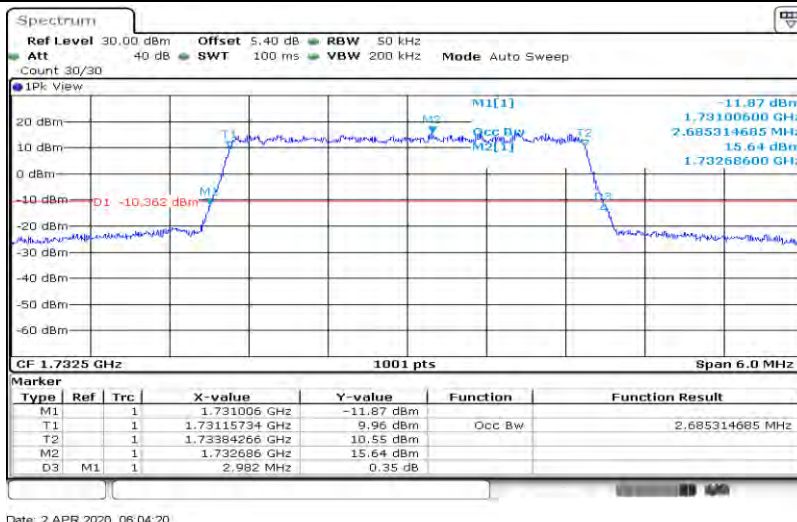


Band4-3MHz-16QAM-19965-15RB#0-2.685

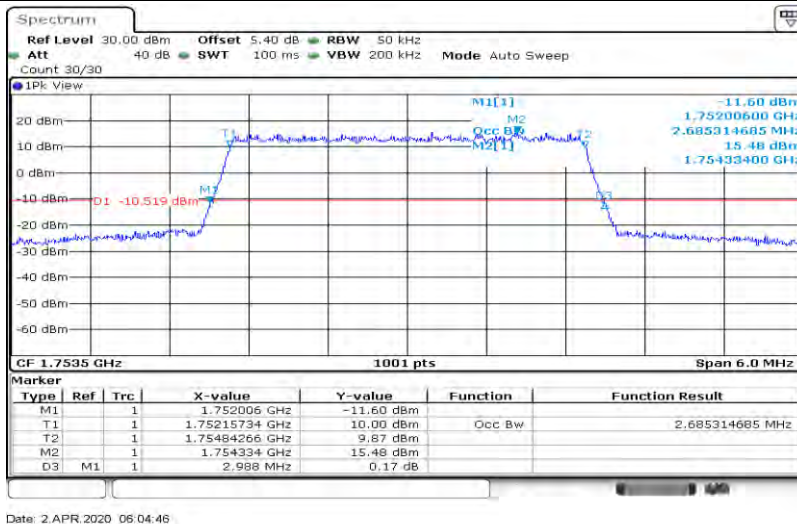


Band4-3MHz-16QAM-20175-15RB#0-2.685



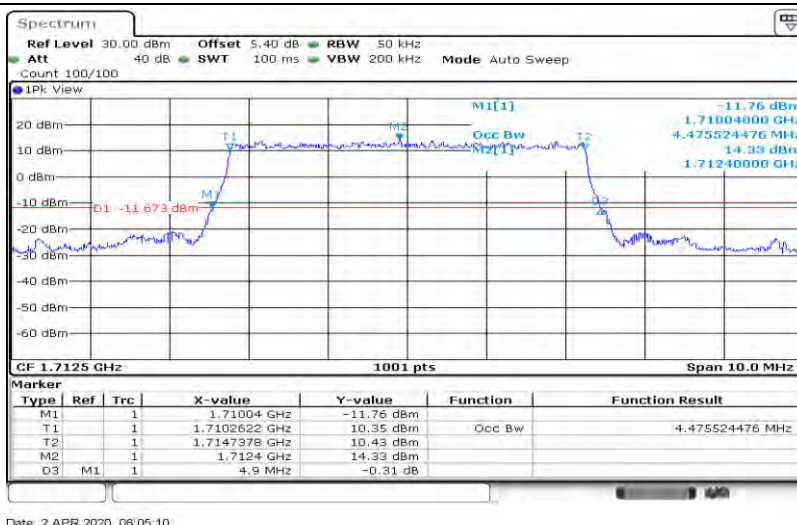


Band4-3MHz-16QAM-20385-15RB#0-2.685

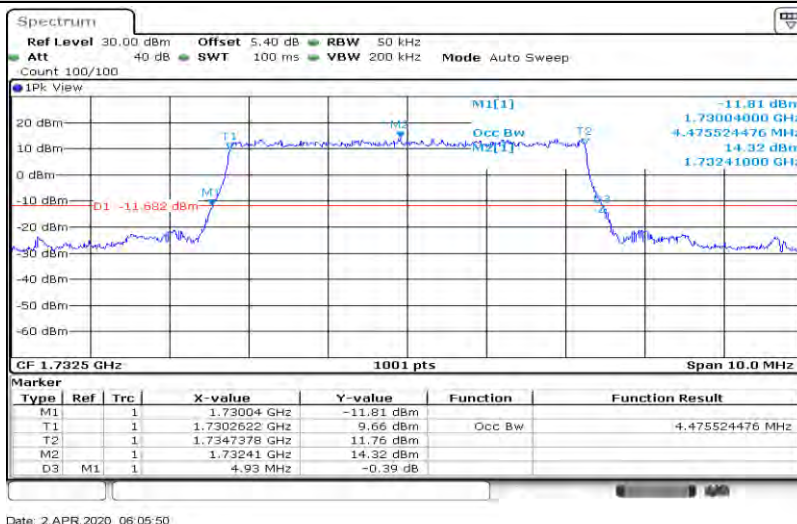


Band4-5MHz-QPSK-19975-25RB#0-4.476





Band4-5MHz-QPSK-20175-25RB#0-4.476

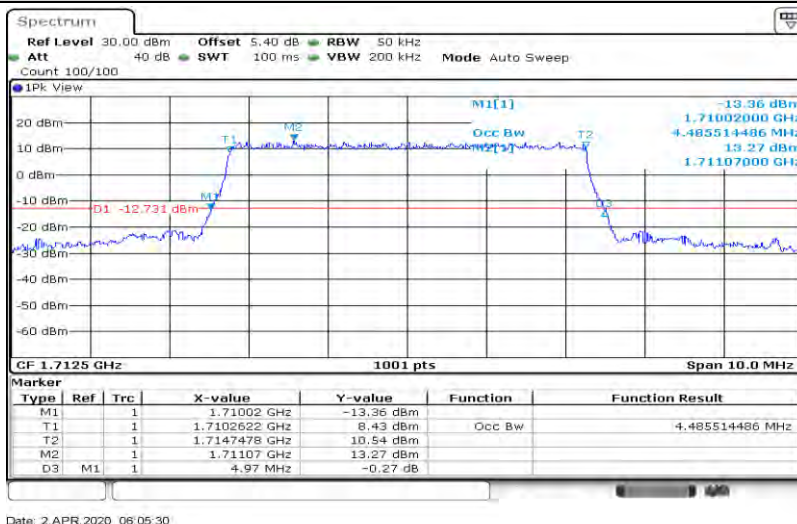


Band4-5MHz-QPSK-20375-25RB#0-4.466



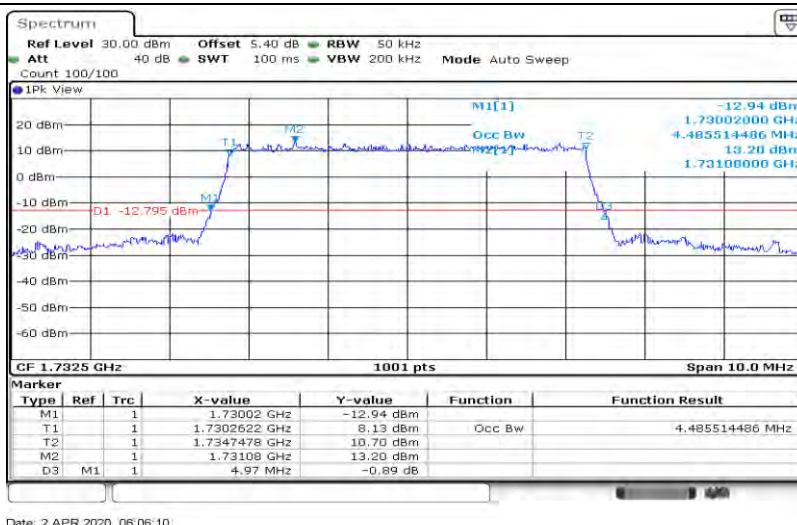


Band4-5MHz-16QAM-19975-25RB#0-4.486

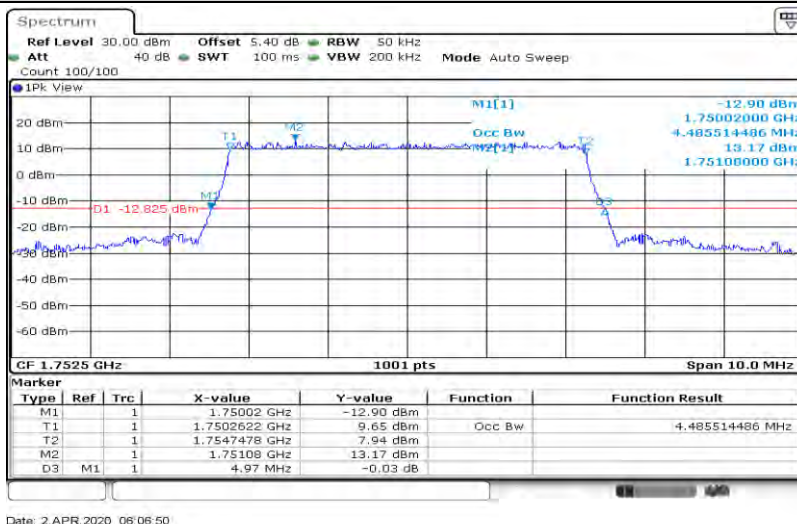


Band4-5MHz-16QAM-20175-25RB#0-4.486



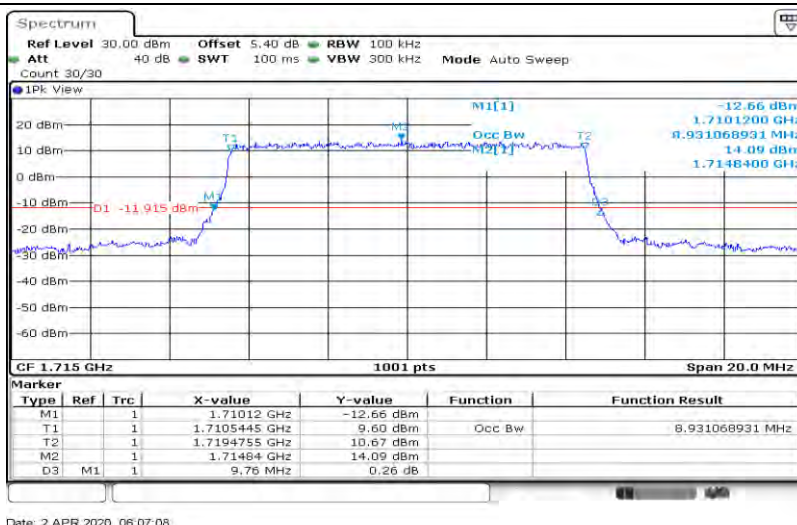


Band4-5MHz-16QAM-20375-25RB#0-4.486

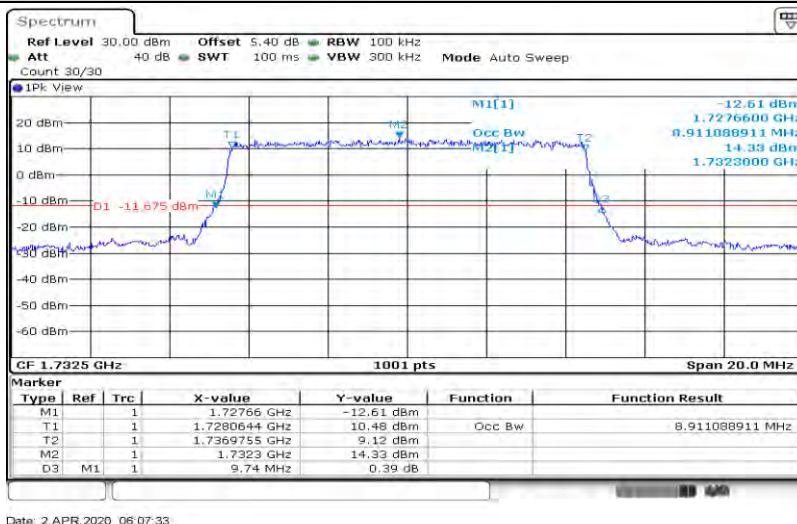


Band4-10MHz-QPSK-20000-50RB#0-8.931



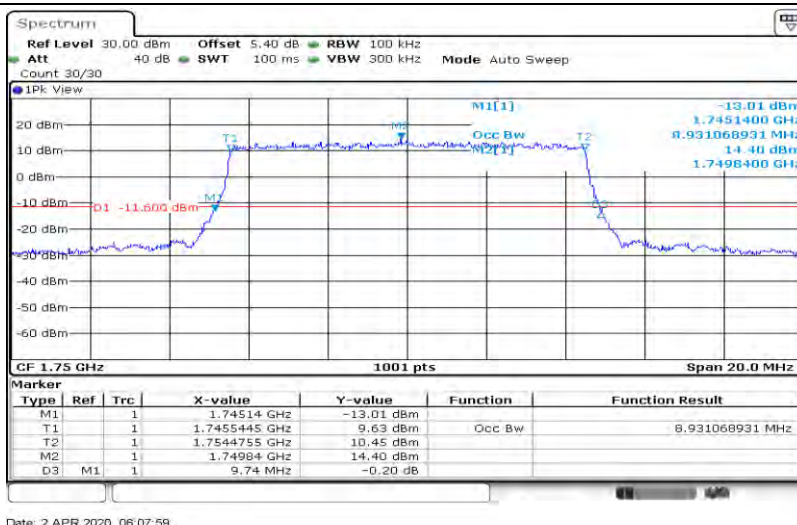


Band4-10MHz-QPSK-20175-50RB#0-8.911

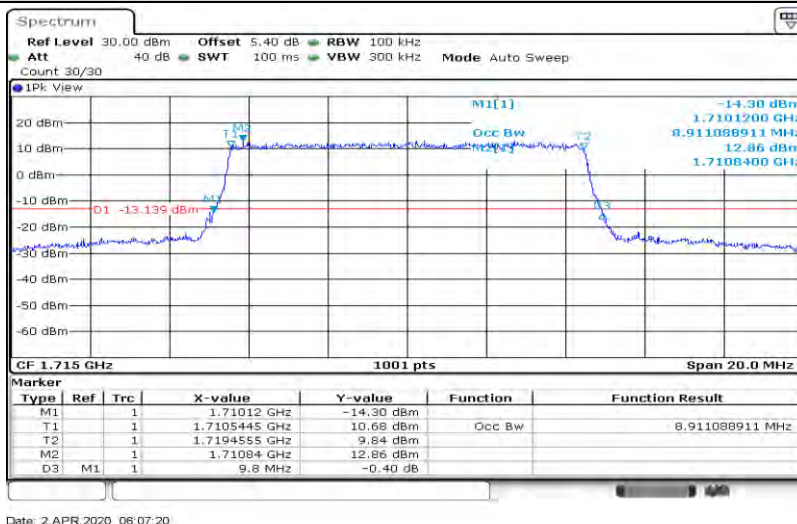


Band4-10MHz-QPSK-20350-50RB#0-8.931



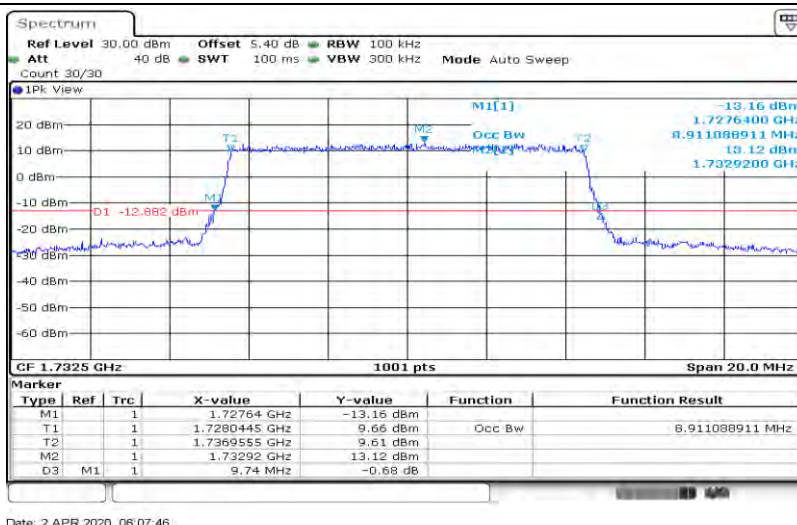


Band4-10MHz-16QAM-20000-50RB#0-8.911

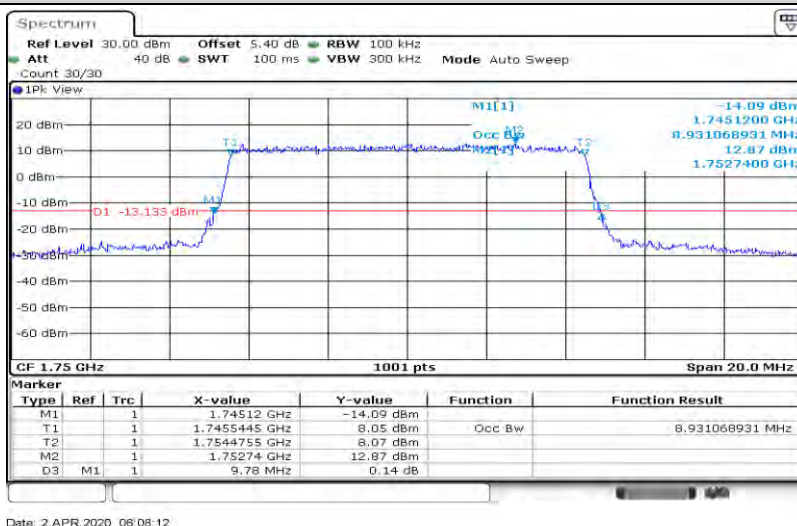


Band4-10MHz-16QAM-20175-50RB#0-8.911



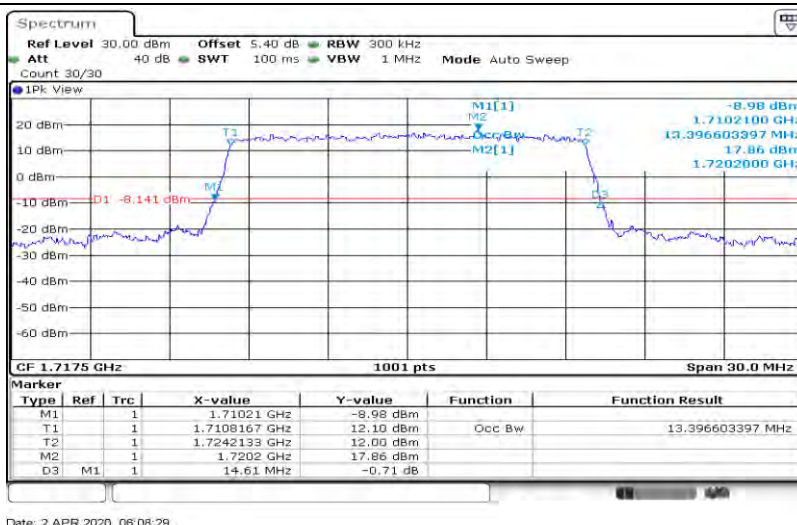


Band4-10MHz-16QAM-20350-50RB#0-8.931

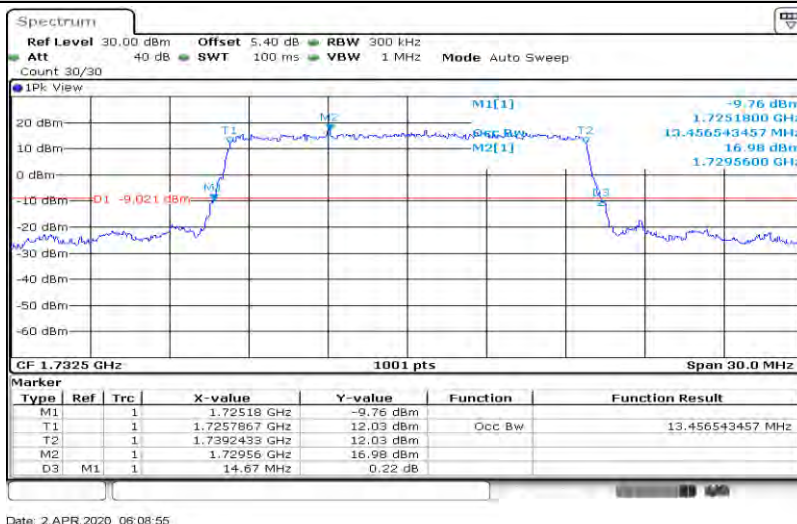


Band4-15MHz-QPSK-20025-75RB#0-13.397



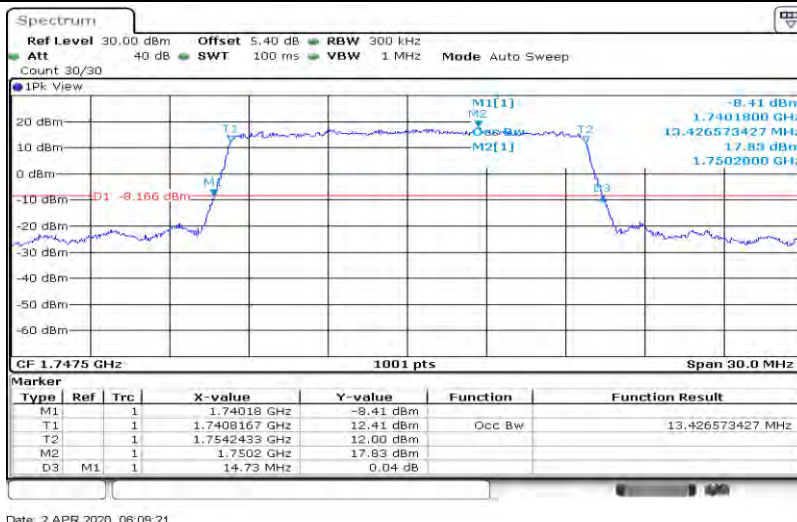


Band4-15MHz-QPSK-20175-75RB#0-13.457

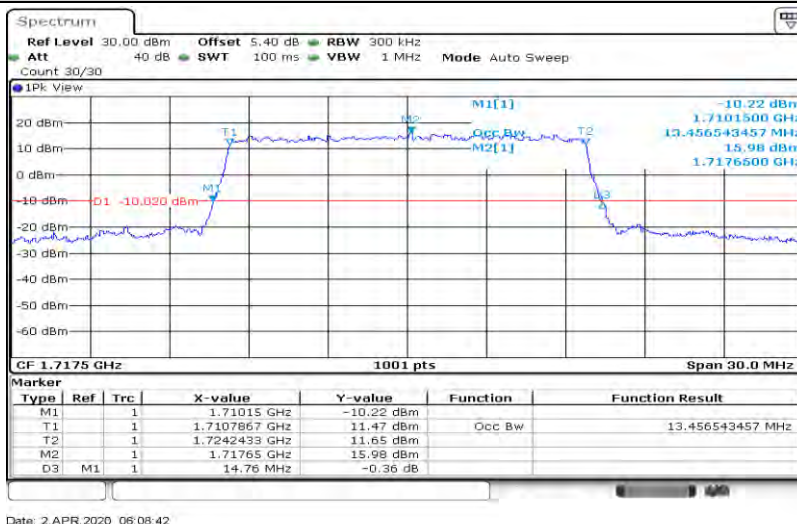


Band4-15MHz-QPSK-20325-75RB#0-13.427



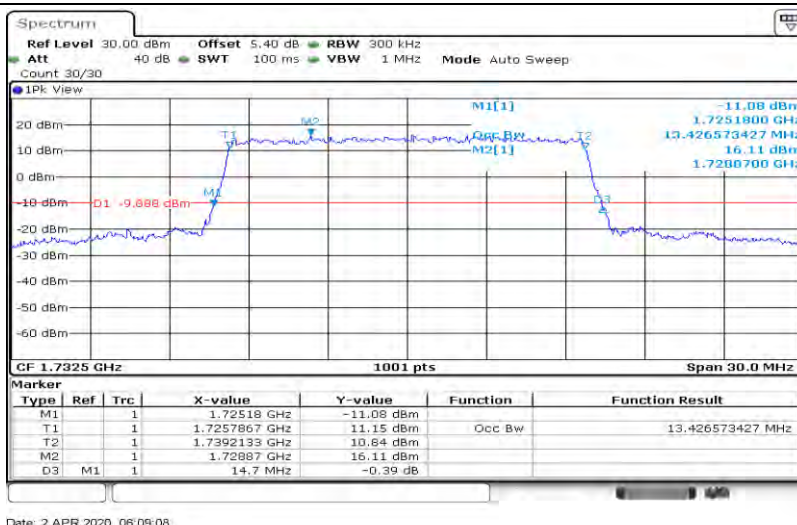


Band4-15MHz-16QAM-20025-75RB#0-13.457

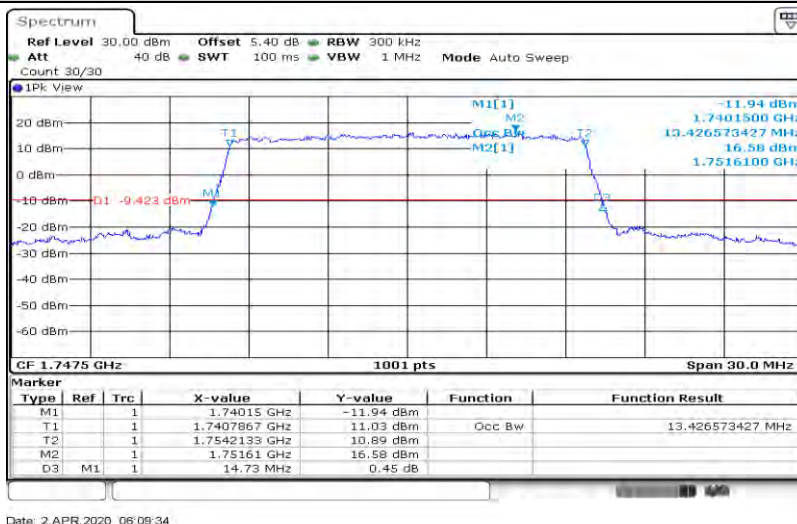


Band4-15MHz-16QAM-20175-75RB#0-13.427



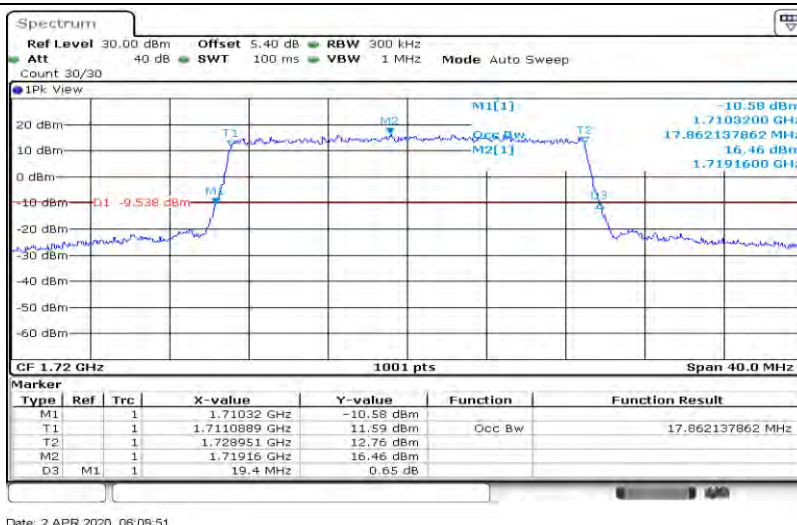


Band4-15MHz-16QAM-20325-75RB#0-13.427

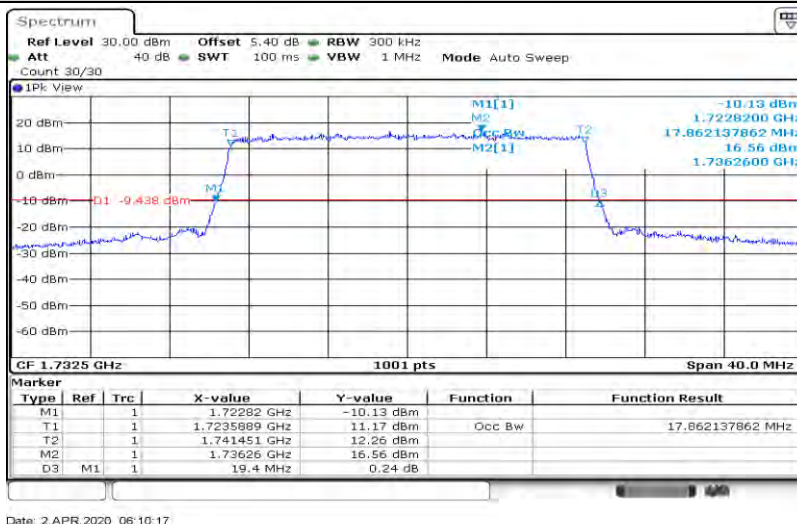


Band4-20MHz-QPSK-20050-100RB#0-17.862



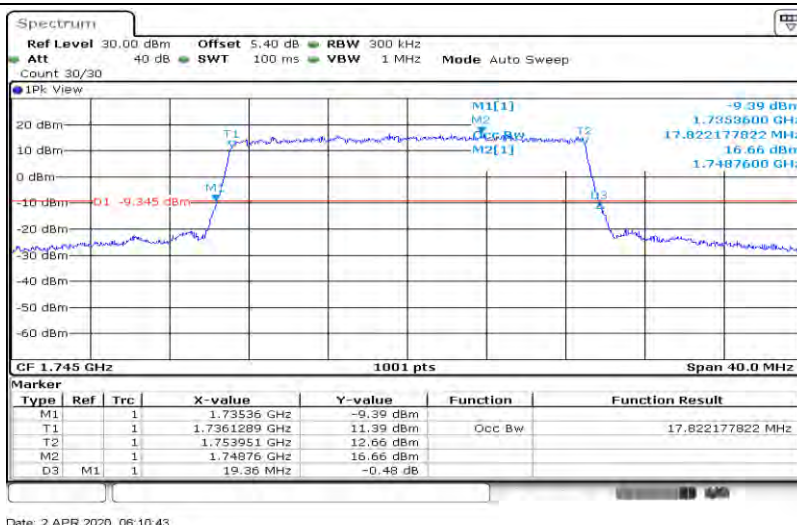


Band4-20MHz-QPSK-20175-100RB#0-17.862

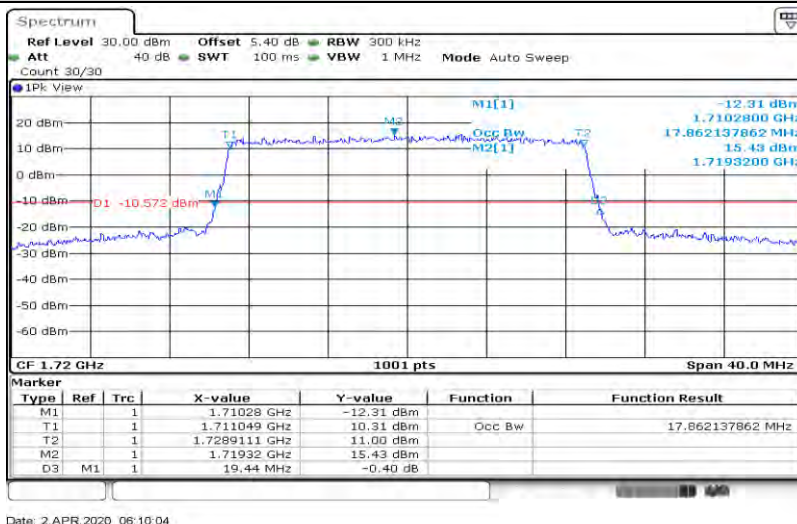


Band4-20MHz-QPSK-20300-100RB#0-17.822



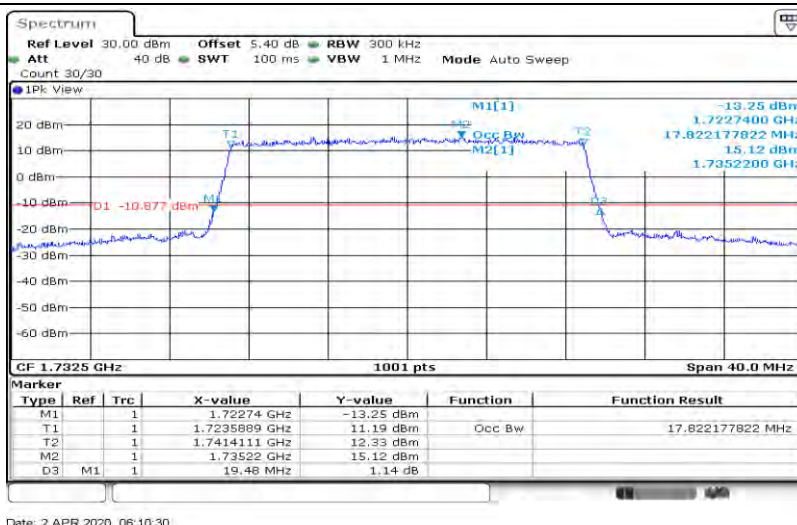


Band4-20MHz-16QAM-20050-100RB#0-17.862

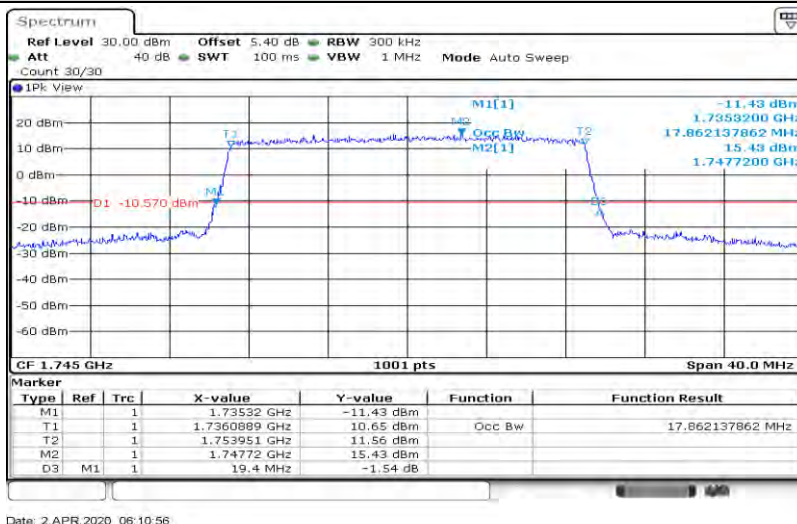


Band4-20MHz-16QAM-20175-100RB#0-17.822





Band4-20MHz-16QAM-20300-100RB#0-17.862



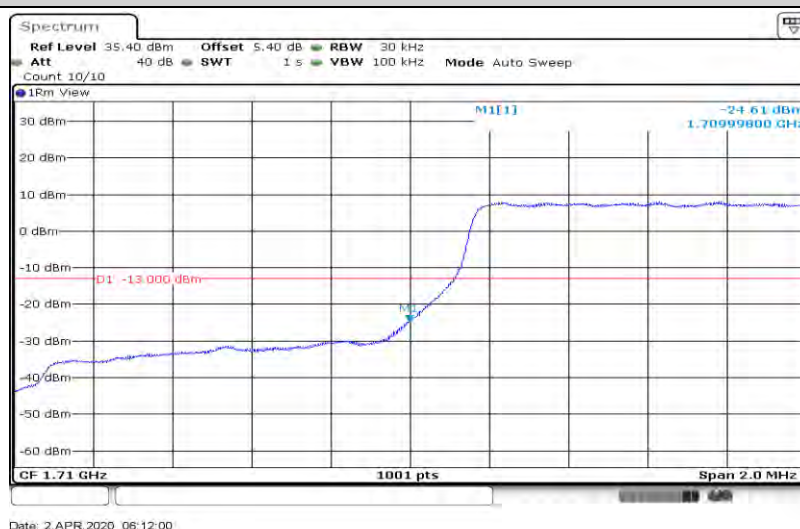
5. Band Edge Compliance

5.1. Test Plots

Band4-1.4MHz-QPSK-19957-1RB#0



Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20393-1RB#5





Band4-1.4MHz-QPSK-20393-6RB#0



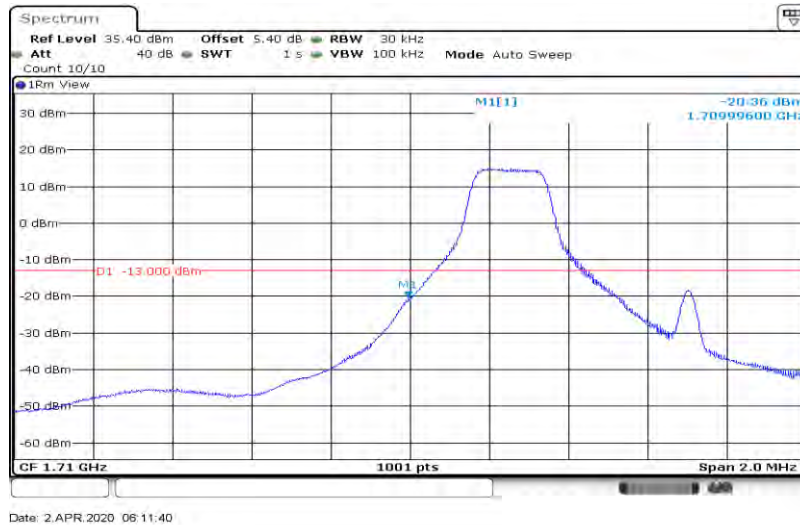
Band4-1.4MHz-16QAM-19957-1RB#0



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

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 contractual conditions and the limitation of liability and jurisdiction issues defined therein. 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 omission of any part of this document, whether intentional or not, shall be deemed to be a breach of contract. If 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.

Results shown in this test report are only for 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



Band4-1.4MHz-16QAM-19957-6RB#0



Band4-1.4MHz-16QAM-20393-1RB#5



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

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



Band4-1.4MHz-16QAM-20393-6RB#0



Band4-3MHz-QPSK-19965-1RB#0





Band4-3MHz-QPSK-19965-15RB#0

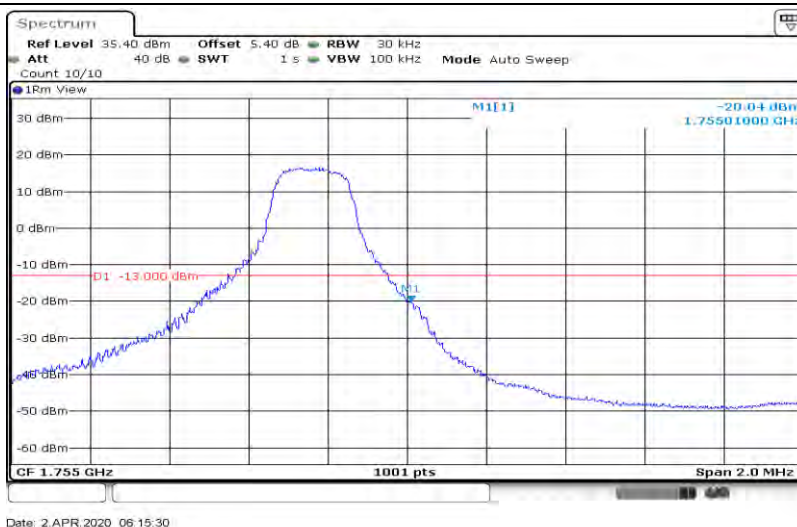


Band4-3MHz-QPSK-20385-1RB#14



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

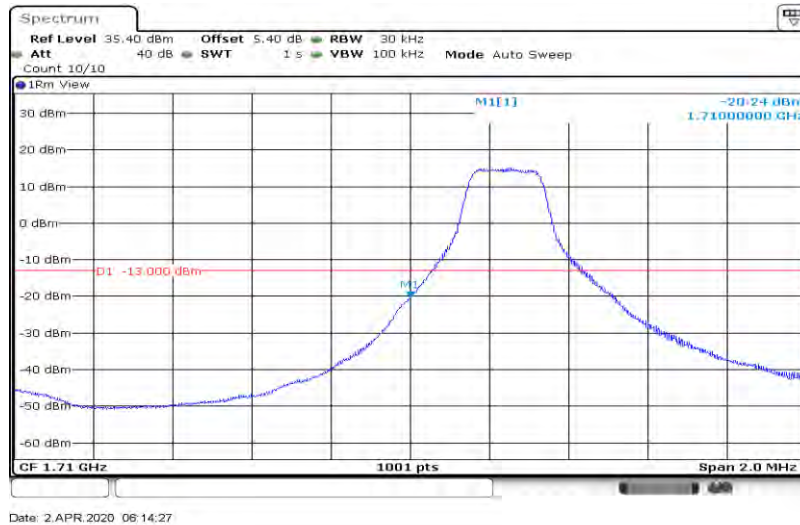


Band4-3MHz-QPSK-20385-15RB#0



Band4-3MHz-16QAM-19965-1RB#0





Band4-3MHz-16QAM-19965-15RB#0



Band4-3MHz-16QAM-20385-1RB#14





Band4-3MHz-16QAM-20385-15RB#0



Band4-5MHz-QPSK-19975-1RB#0





Band4-5MHz-QPSK-19975-25RB#0



Band4-5MHz-QPSK-20375-1RB#24





Band4-5MHz-QPSK-20375-25RB#0



Band4-5MHz-16QAM-19975-1RB#0





Band4-5MHz-16QAM-19975-25RB#0



Band4-5MHz-16QAM-20375-1RB#24



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (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



Band4-5MHz-16QAM-20375-25RB#0



Band4-10MHz-QPSK-20000-1RB#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 telephones: (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



Band4-10MHz-QPSK-20000-50RB#0

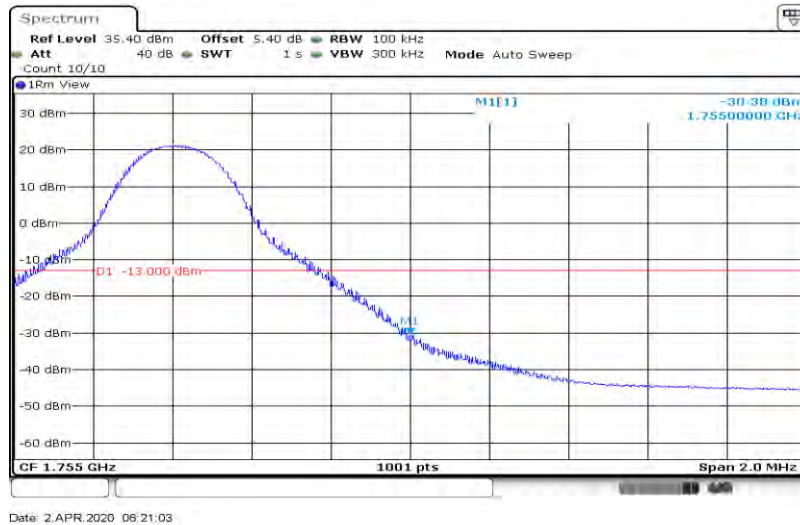


Band4-10MHz-QPSK-20350-1RB#49



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



Band4-10MHz-QPSK-20350-50RB#0



Band4-10MHz-16QAM-20000-1RB#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 telephones: (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



Band4-10MHz-16QAM-20000-50RB#0



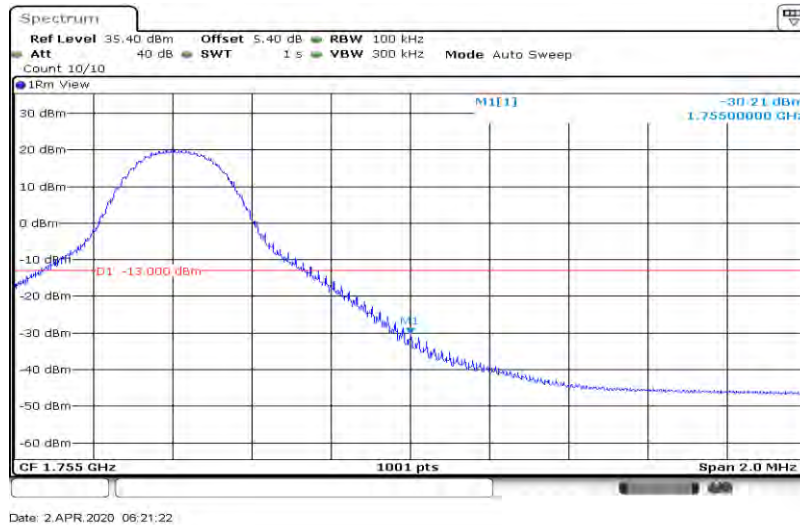
Band4-10MHz-16QAM-20350-1RB#49



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 telephones: (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



Band4-10MHz-16QAM-20350-50RB#0



Band4-15MHz-QPSK-20025-1RB#0





Band4-15MHz-QPSK-20025-75RB#0



Band4-15MHz-QPSK-20325-1RB#74



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

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

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



Date: 2 APR 2020 06:23:48

Band4-15MHz-QPSK-20325-75RB#0



Date: 2 APR 2020 06:24:27

Band4-15MHz-16QAM-20025-1RB#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



Band4-15MHz-16QAM-20025-75RB#0

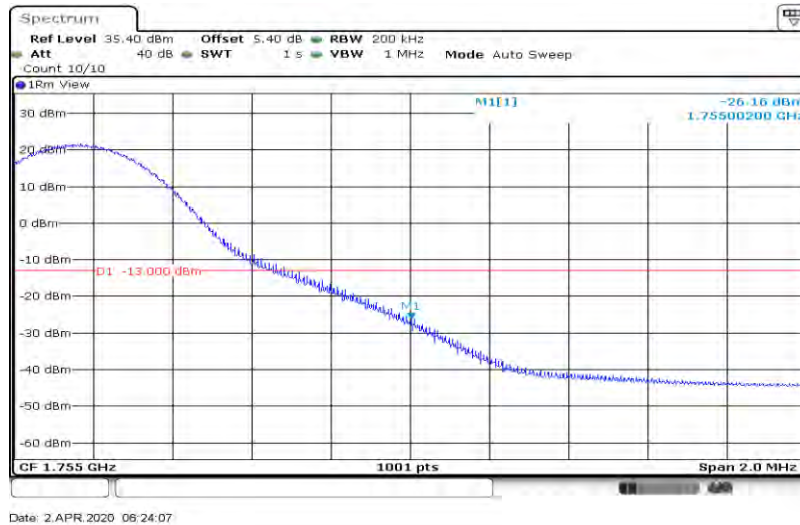


Band4-15MHz-16QAM-20325-1RB#74



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (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



Band4-15MHz-16QAM-20325-75RB#0



Band4-20MHz-QPSK-20050-1RB#0





Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20300-1RB#99



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (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



Band4-20MHz-QPSK-20300-100RB#0



Band4-20MHz-16QAM-20050-1RB#0





Band4-20MHz-16QAM-20050-100RB#0

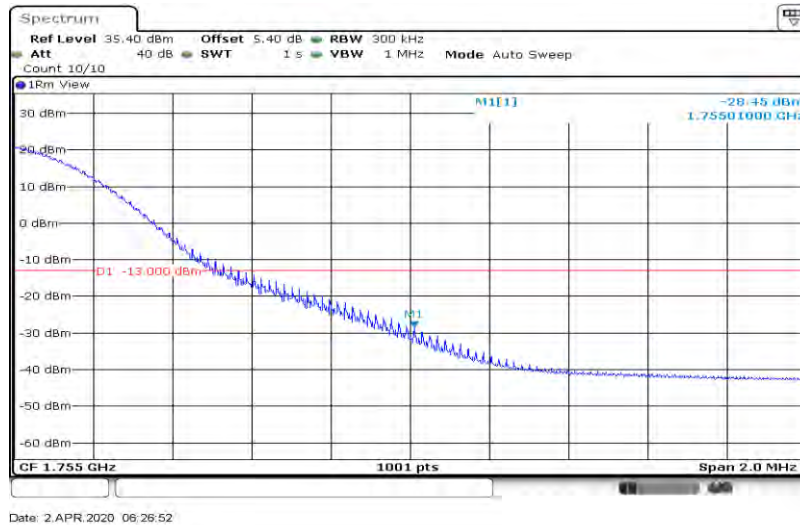


Band4-20MHz-16QAM-20300-1RB#99



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 telephones: (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



Band4-20MHz-16QAM-20300-100RB#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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



6. Spurious Emission at Antenna Terminal

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

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

6.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4	20MHz	QPSK	20050	1RB#0	Range1:30~1000MHz	-49.03	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range2:1000~20000MHz	-37.07	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-49.25	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-36.49	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range1:30~1000MHz	-48.97	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range2:1000~20000MHz	-36.91	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range1:30~1000MHz	-48.75	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range2:1000~20000MHz	-37.03	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-48.74	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-37.17	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range1:30~1000MHz	-49.16	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range2:1000~20000MHz	-36.44	PASS

6.2. Test Plots

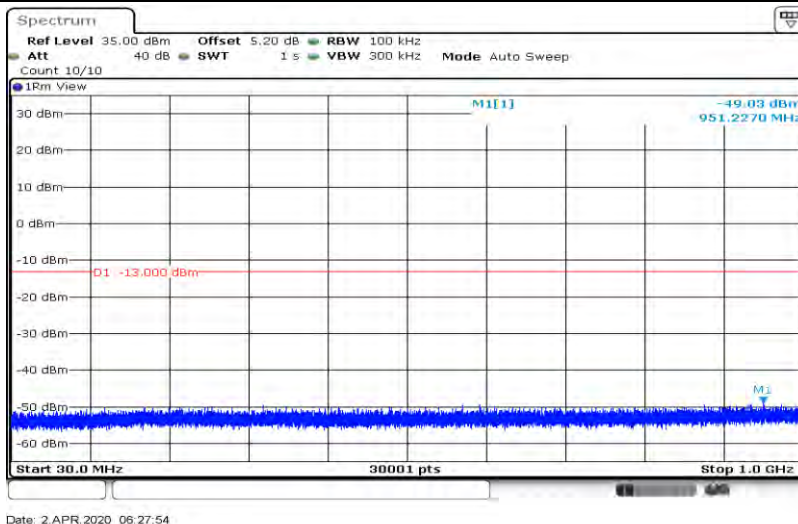
Band4-20MHz-QPSK-20050-1RB#0-Range1:30~1000MHz



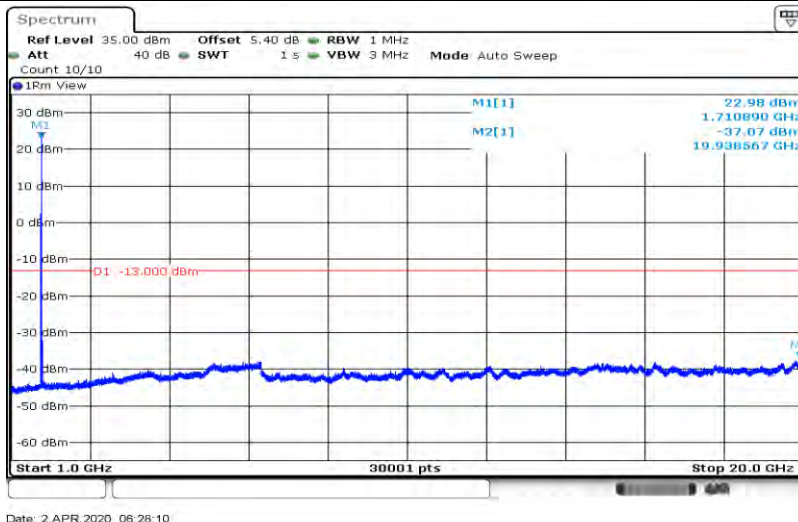
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



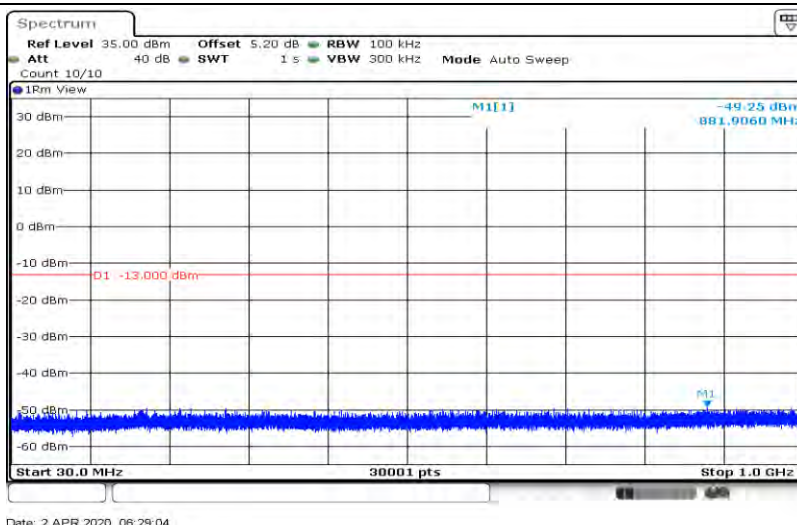
Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



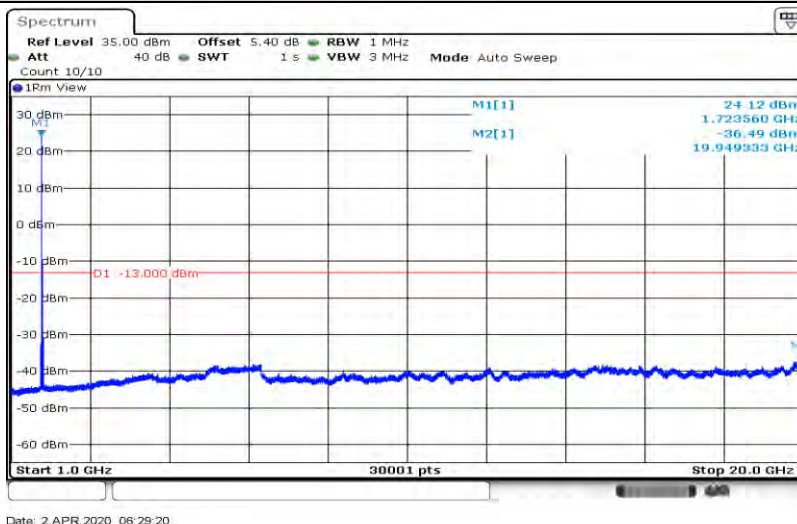
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

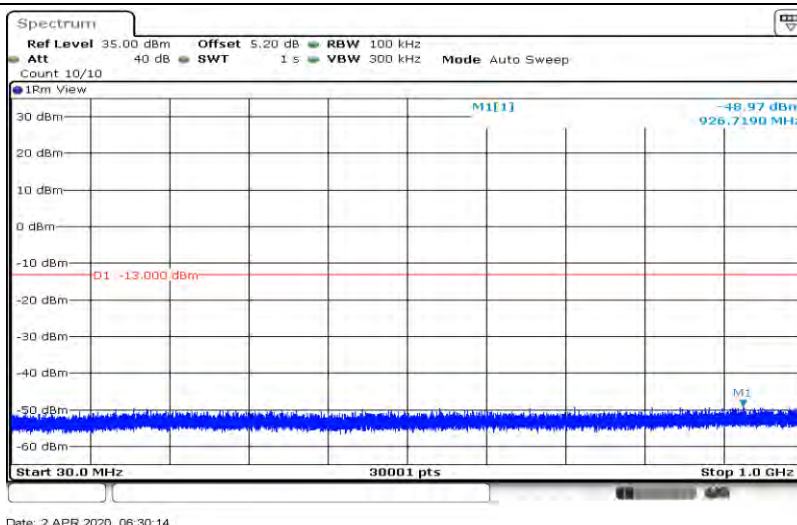


Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz

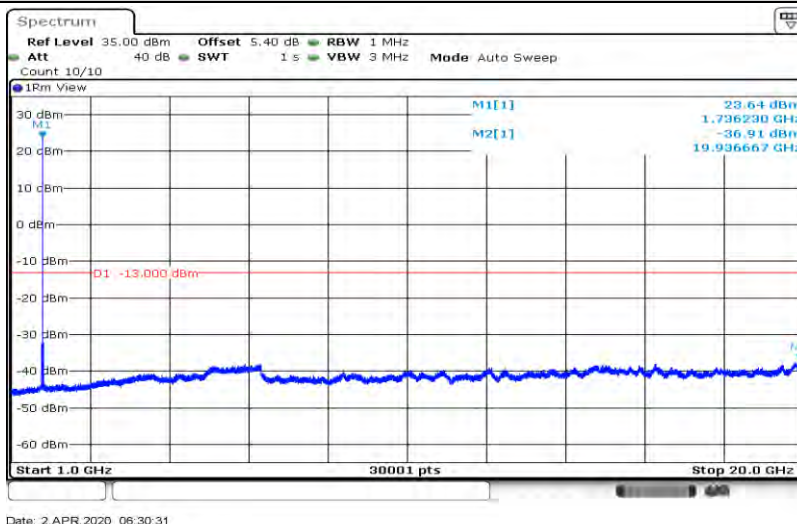


Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



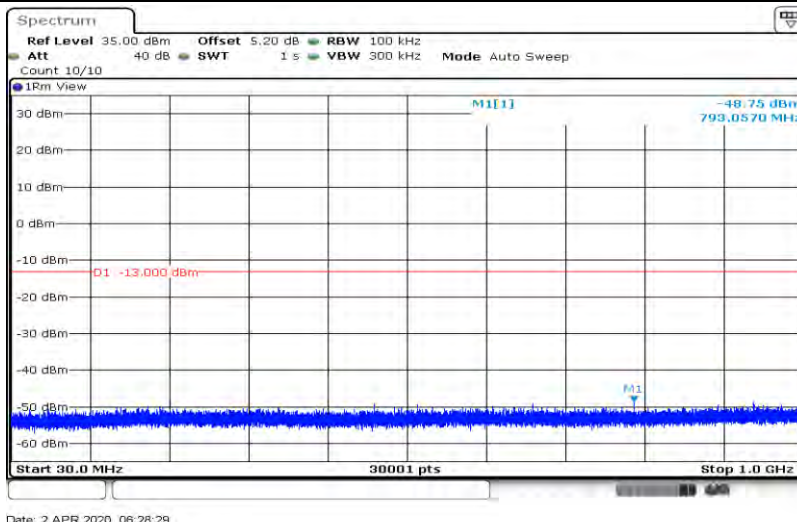


Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz

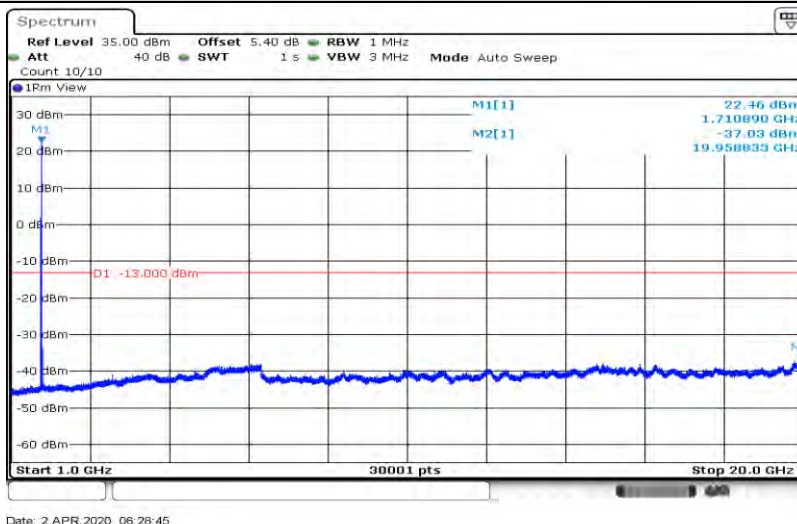


Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz



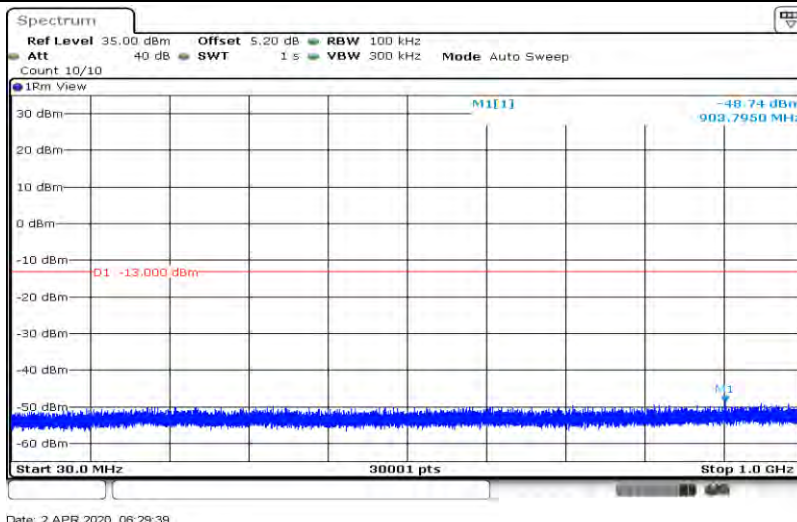


Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz

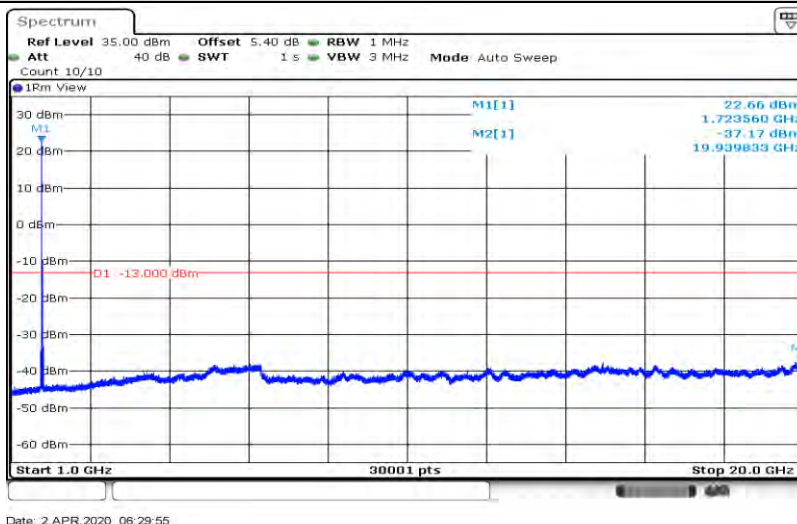


Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



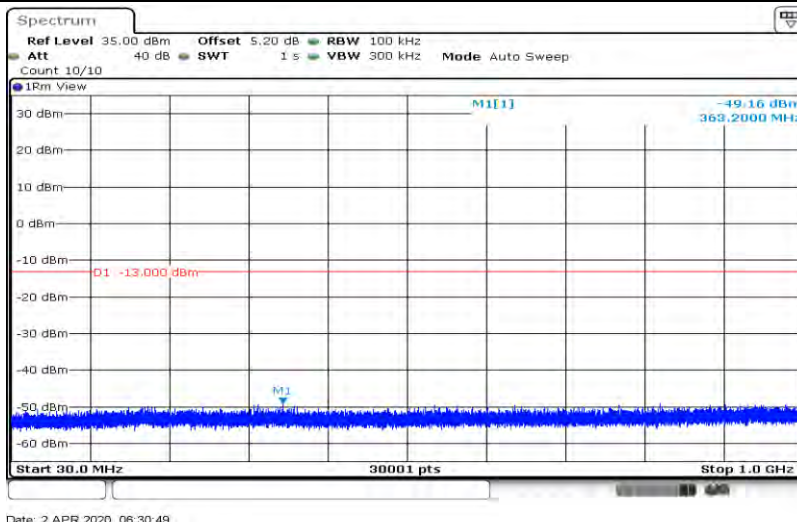


Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz

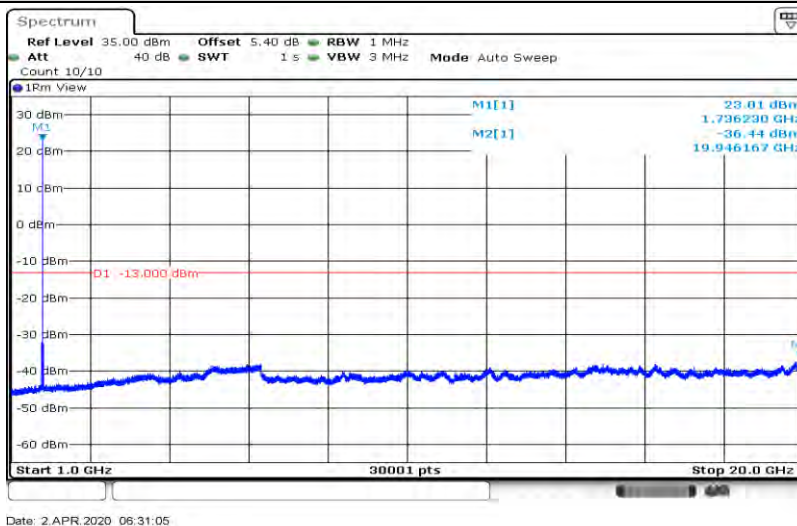


Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz





Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



Unless otherwise agreed in writing this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is deemed to have accepted the Terms and Conditions of the Company 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 appearance of this document is strictly prohibited and may result in severe civil and criminal penalties. 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 (South China) CEC 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 sgsg.china@sgsg.com



7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
56.2883	-65.59	-13.00	52.59	Vertical
3422.0141	-47.17	-13.00	34.17	Vertical
5133.0711	-51.70	-13.00	38.70	Vertical
6844.1281	-47.75	-13.00	34.75	Vertical
14469.8823	-46.24	-13.00	33.24	Vertical
17997.9999	-38.04	-13.00	25.04	Vertical
44.7932	-64.59	-13.00	51.59	Horizontal
2701.5403	-35.29	-13.00	22.29	Horizontal
3422.0141	-41.83	-13.00	28.83	Horizontal
5133.5711	-56.16	-13.00	43.16	Horizontal
6844.1281	-52.94	-13.00	39.94	Horizontal
16399.9467	-42.36	-13.00	29.36	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
57.3554	-64.79	-13.00	51.79	Vertical
2706.7413	-36.31	-13.00	23.31	Vertical
3447.0149	-46.80	-13.00	33.80	Vertical
5170.5724	-55.03	-13.00	42.03	Vertical
6894.1298	-54.91	-13.00	41.91	Vertical
17997.9999	-38.47	-13.00	25.47	Vertical
42.5136	-64.24	-13.00	51.24	Horizontal
674.5002	-64.12	-13.00	51.12	Horizontal
2703.9408	-35.23	-13.00	22.23	Horizontal
3447.0149	-41.76	-13.00	28.76	Horizontal
5170.5724	-56.33	-13.00	43.33	Horizontal
16385.9462	-42.67	-13.00	29.67	Horizontal



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

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



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
57.5979	-65.10	-13.00	52.10	Vertical
506.1968	-67.04	-13.00	54.04	Vertical
2705.1410	-36.49	-13.00	23.49	Vertical
3472.0157	-48.76	-13.00	35.76	Vertical
5208.0736	-58.17	-13.00	45.17	Vertical
17998.5000	-38.11	-13.00	25.11	Vertical
44.5992	-64.38	-13.00	51.38	Horizontal
236.8628	-68.29	-13.00	55.29	Horizontal
2700.3401	-35.18	-13.00	22.18	Horizontal
3472.0157	-46.49	-13.00	33.49	Horizontal
7911.1637	-55.11	-13.00	42.11	Horizontal
16385.9462	-42.73	-13.00	29.73	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
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	1.20	0.000698	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	2.10	0.001221	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	0.90	0.000523	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	2.40	0.001385	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	1.40	0.000808	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	1.70	0.000981	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-3.70	-0.002120	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-1.40	-0.000802	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-1.00	-0.000573	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	0.70	0.000407	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	0.70	0.000407	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	2.20	0.001279	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	0.80	0.000462	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	3.00	0.001732	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	1.20	0.000693	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-2.40	-0.001375	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-4.40	-0.002521	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-1.80	-0.001032	±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
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	0.40	0.000233	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	0.30	0.000174	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	2.40	0.001395	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	0.90	0.000523	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	1.10	0.000640	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	0.80	0.000465	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	0.20	0.000116	±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. 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



Band4	20MHz	QPSK	20050	100RB#0	NV	50	0.60	0.000349	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	1.60	0.000924	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	2.00	0.001154	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	0.10	0.000058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	1.70	0.000981	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	0.10	0.000058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	0.30	0.000173	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-1.80	-0.001032	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-3.40	-0.001948	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-3.80	-0.002178	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-2.70	-0.001547	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-1.90	-0.001089	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-1.50	-0.000860	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-0.30	-0.000174	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	3.10	0.001802	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-0.50	-0.000291	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	2.10	0.001221	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	2.40	0.001395	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	1.90	0.001105	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	3.40	0.001977	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	2.10	0.001221	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-0.10	-0.000058	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	0.50	0.000289	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	0.80	0.000462	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	0.30	0.000173	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	0.10	0.000058	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	0.40	0.000231	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-2.90	-0.001662	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-3.50	-0.002006	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-3.40	-0.001948	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-1.60	-0.000917	±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. Shenzhen Branch
Shenzhen Branch: 中国·深圳·科技园中区M-10栋一号厂房

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
中国·深圳·科技园中区M-10栋一号厂房

t (86-755) 26012053 f (86-755) 26710594
t (86-755) 26012053 f (86-755) 26710594

www.sgsgroup.com.cn
sgs.china@sgs.com



Band4	20MHz	16QAM	20300	100RB#0	NV	30	4.20	0.002407	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-3.40	-0.001948	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-3.30	-0.001891	±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