



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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER.....	4
1.1.	TEST RESULT.....	4
2.	PEAK-TO-AVERAGE RATIO (CCDF).....	20
2.1.	TEST RESULT.....	20
2.2.	TEST PLOTS.....	21
3.	MODULATION CHARACTERISTICS.....	27
3.1.	TEST MODE = LTE /TM1 20MHZ.....	27
3.1.1.	TEST CHANNEL = MCH.....	27
3.2.	TEST MODE = LTE /TM2 20MHZ.....	28
3.2.1.	TEST CHANNEL = MCH.....	28
3.3.	TEST MODE = LTE /TM3 20MHZ.....	29
3.3.1.	TEST CHANNEL = MCH.....	29
3.4.	TEST MODE = LTE /TM4 20MHZ.....	30
3.4.1.	TEST CHANNEL = MCH.....	30
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	31
4.1.	TEST RESULT.....	31
4.2.	TEST PLOTS.....	34
5.	BAND EDGE COMPLIANCE.....	70
5.1.	TEST PLOTS.....	70
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	83
6.1.	TEST PLOTS.....	83
7.	FIELD STRENGTH OF SPURIOUS RADIATION.....	87
7.1.	TEST BAND = BAND 4.....	87
7.1.1.	Test Channel = Low Channel.....	87
7.2.	TEST BAND = BAND 4.....	88
7.2.1.	Test Channel = Low Channel.....	88
7.3.	TEST BAND = BAND 4.....	89
7.3.1.	Test Channel = Mid Channel.....	89
7.4.	TEST BAND = BAND 4.....	90



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

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

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

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



7.4.1.	Test Channel = Mid Channel.....	90
7.5.	TEST BAND = BAND 4.....	91
7.5.1.	Test Channel = High Channel.....	91
7.6.	TEST BAND = BAND 4.....	92
7.6.1.	Test Channel = High Channel.....	92
8.	FREQUENCY STABILITY.....	93
8.1.	FREQUENCY VS VOLTAGE.....	93
8.2.	FREQUENCY VS TEMPERATURE.....	94



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#2	23.33	26.19	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.31	26.17	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	23.32	26.18	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.34	26.2	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.34	26.2	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.33	26.19	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.36	25.22	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.32	26.18	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.34	26.2	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.32	26.18	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.34	26.2	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.36	26.22	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.33	26.19	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.31	25.17	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.31	26.17	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.27	26.13	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.27	26.13	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.32	26.18	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.31	26.17	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.32	26.18	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.29	25.15	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.68	24.54	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.66	24.52	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.67	24.53	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	21.58	24.44	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	21.56	24.42	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	21.59	24.45	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	1.4MHz	64QAM	19957	6RB#0	20.47	23.33	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.60	24.46	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.65	24.51	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.60	24.46	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	21.53	24.39	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	21.52	24.38	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	21.54	24.4	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.43	23.29	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.56	24.42	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.60	24.46	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.49	24.35	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	21.48	24.34	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	21.48	24.34	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	21.50	24.36	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.42	23.28	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#0	18.89	21.75	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#2	18.86	21.72	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#5	18.85	21.71	30.00	PASS
Band4	1.4MHz	256QAM	19957	3RB#3	18.76	21.62	30.00	PASS
Band4	1.4MHz	256QAM	19957	3RB#0	18.74	21.6	30.00	PASS
Band4	1.4MHz	256QAM	19957	3RB#1	18.75	21.61	30.00	PASS
Band4	1.4MHz	256QAM	19957	6RB#0	18.71	21.57	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#5	18.77	21.63	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#2	18.84	21.7	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#0	18.82	21.68	30.00	PASS
Band4	1.4MHz	256QAM	20175	3RB#3	18.71	21.57	30.00	PASS
Band4	1.4MHz	256QAM	20175	3RB#0	18.72	21.58	30.00	PASS
Band4	1.4MHz	256QAM	20175	3RB#1	18.74	21.6	30.00	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	18.65	21.51	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#0	18.78	21.64	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#5	18.79	21.65	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#2	18.76	21.62	30.00	PASS
Band4	1.4MHz	256QAM	20393	3RB#0	18.59	21.45	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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

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

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



Band4	1.4MHz	256QAM	20393	3RB#3	18.61	21.47	30.00	PASS
Band4	1.4MHz	256QAM	20393	3RB#1	18.60	21.46	30.00	PASS
Band4	1.4MHz	256QAM	20393	6RB#0	18.50	21.36	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.56	25.42	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.63	25.49	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.57	25.43	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.42	25.28	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.41	25.27	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.49	25.35	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.55	24.41	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.49	25.35	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.53	25.39	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.62	25.48	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.40	25.26	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.36	25.22	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.40	25.26	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.52	24.38	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.46	25.32	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.42	25.28	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.47	25.33	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.38	25.24	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.33	25.19	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.40	25.26	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.46	24.32	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.40	26.26	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.34	26.2	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.40	26.26	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.35	25.21	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.35	25.21	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.36	25.22	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.36	25.22	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.32	26.18	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.34	26.2	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
 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	20175	1RB#14	23.32	26.18	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.31	25.17	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.33	25.19	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.32	25.18	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.34	25.2	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.29	26.15	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.27	26.13	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.29	26.15	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.31	25.17	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.28	25.14	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.28	25.14	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.27	25.13	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.71	24.57	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.55	24.41	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.71	24.57	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#7	20.48	23.34	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#0	20.47	23.33	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#4	20.43	23.29	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.48	23.34	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.59	24.45	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.57	24.43	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.58	24.44	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#4	20.44	23.3	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#7	20.40	23.26	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#0	20.45	23.31	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.45	23.31	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.51	24.37	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.56	24.42	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.50	24.36	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#4	20.42	23.28	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#7	20.38	23.24	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#0	20.40	23.26	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.41	23.27	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
 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	3MHz	256QAM	19965	1RB#14	18.89	21.75	30.00	PASS
Band4	3MHz	256QAM	19965	1RB#8	18.92	21.78	30.00	PASS
Band4	3MHz	256QAM	19965	1RB#0	18.87	21.73	30.00	PASS
Band4	3MHz	256QAM	19965	8RB#0	18.74	21.6	30.00	PASS
Band4	3MHz	256QAM	19965	8RB#4	18.74	21.6	30.00	PASS
Band4	3MHz	256QAM	19965	8RB#7	18.78	21.64	30.00	PASS
Band4	3MHz	256QAM	19965	15RB#0	18.70	21.56	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#8	18.83	21.69	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#0	18.85	21.71	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#14	18.75	21.61	30.00	PASS
Band4	3MHz	256QAM	20175	8RB#0	18.64	21.5	30.00	PASS
Band4	3MHz	256QAM	20175	8RB#7	18.63	21.49	30.00	PASS
Band4	3MHz	256QAM	20175	8RB#4	18.64	21.5	30.00	PASS
Band4	3MHz	256QAM	20175	15RB#0	18.67	21.53	30.00	PASS
Band4	3MHz	256QAM	20385	1RB#14	18.66	21.52	30.00	PASS
Band4	3MHz	256QAM	20385	1RB#8	18.75	21.61	30.00	PASS
Band4	3MHz	256QAM	20385	1RB#0	18.60	21.46	30.00	PASS
Band4	3MHz	256QAM	20385	8RB#4	18.51	21.37	30.00	PASS
Band4	3MHz	256QAM	20385	8RB#7	18.51	21.37	30.00	PASS
Band4	3MHz	256QAM	20385	8RB#0	18.52	21.38	30.00	PASS
Band4	3MHz	256QAM	20385	15RB#0	18.52	21.38	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.51	25.37	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.73	25.59	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.66	25.52	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.57	24.43	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.54	24.4	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.54	24.4	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.48	24.34	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.65	25.51	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.63	25.49	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.50	25.36	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.54	24.4	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.51	24.37	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) 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	3MHz	16QAM	20175	8RB#0	21.54	24.4	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.49	24.35	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.39	25.25	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.45	25.31	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.48	25.34	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.48	24.34	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.45	24.31	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.47	24.33	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.46	24.32	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.50	26.36	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.41	26.27	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.37	26.23	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.33	25.19	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.38	25.24	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.40	25.26	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.39	25.25	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.36	26.22	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.44	26.3	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.30	26.16	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.36	25.22	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.33	25.19	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.37	25.23	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.38	25.24	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.31	26.17	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.35	26.21	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.36	26.22	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.28	25.14	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.33	25.19	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.29	25.15	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.35	25.21	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.61	24.47	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.73	24.59	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.56	24.42	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
 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	64QAM	19975	12RB#6	20.41	23.27	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#0	20.43	23.29	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#13	20.47	23.33	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.52	23.38	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.50	24.36	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.55	24.41	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.57	24.43	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#13	20.49	23.35	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#6	20.43	23.29	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#0	20.46	23.32	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.47	23.33	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.50	24.36	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.53	24.39	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.53	24.39	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#13	20.35	23.21	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#0	20.42	23.28	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#6	20.36	23.22	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.43	23.29	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#24	18.88	21.74	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#12	18.95	21.81	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#0	18.91	21.77	30.00	PASS
Band4	5MHz	256QAM	19975	12RB#13	18.75	21.61	30.00	PASS
Band4	5MHz	256QAM	19975	12RB#6	18.72	21.58	30.00	PASS
Band4	5MHz	256QAM	19975	12RB#0	18.74	21.6	30.00	PASS
Band4	5MHz	256QAM	19975	25RB#0	18.74	21.6	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#24	18.81	21.67	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#12	18.85	21.71	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#0	18.88	21.74	30.00	PASS
Band4	5MHz	256QAM	20175	12RB#0	18.74	21.6	30.00	PASS
Band4	5MHz	256QAM	20175	12RB#6	18.67	21.53	30.00	PASS
Band4	5MHz	256QAM	20175	12RB#13	18.67	21.53	30.00	PASS
Band4	5MHz	256QAM	20175	25RB#0	18.70	21.56	30.00	PASS
Band4	5MHz	256QAM	20375	1RB#12	18.72	21.58	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
 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	5MHz	256QAM	20375	1RB#24	18.78	21.64	30.00	PASS
Band4	5MHz	256QAM	20375	1RB#0	18.81	21.67	30.00	PASS
Band4	5MHz	256QAM	20375	12RB#6	18.55	21.41	30.00	PASS
Band4	5MHz	256QAM	20375	12RB#13	18.52	21.38	30.00	PASS
Band4	5MHz	256QAM	20375	12RB#0	18.57	21.43	30.00	PASS
Band4	5MHz	256QAM	20375	25RB#0	18.55	21.41	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.70	25.56	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.47	25.33	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.61	25.47	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.52	24.38	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.51	24.37	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.53	24.39	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.54	24.4	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.54	25.4	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.77	25.63	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.66	25.52	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.52	24.38	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.51	24.37	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.49	24.35	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.50	24.36	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.56	25.42	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.54	25.4	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.59	25.45	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.44	24.3	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.40	24.26	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.44	24.3	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.43	24.29	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.39	26.25	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.36	26.22	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.46	26.32	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.39	25.25	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.31	25.17	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.32	25.18	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	10MHz	QPSK	20000	50RB#0	22.36	25.22	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.31	26.17	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.40	26.26	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.35	26.21	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.38	25.24	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.38	25.24	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.35	25.21	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.36	25.22	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.31	26.17	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.37	26.23	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.30	26.16	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.27	25.13	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.25	25.11	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.38	25.24	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.29	25.15	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.62	24.48	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.63	24.49	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.59	24.45	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#12	20.43	23.29	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#0	20.40	23.26	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#25	20.44	23.3	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.48	23.34	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.55	24.41	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.55	24.41	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.59	24.45	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#12	20.45	23.31	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#25	20.49	23.35	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#0	20.44	23.3	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.49	23.35	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.54	24.4	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.58	24.44	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.53	24.39	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#25	20.43	23.29	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
 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	64QAM	20350	25RB#12	20.44	23.3	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#0	20.38	23.24	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.37	23.23	30.00	PASS
Band4	10MHz	256QAM	20000	1RB#24	18.86	21.72	30.00	PASS
Band4	10MHz	256QAM	20000	1RB#49	18.80	21.66	30.00	PASS
Band4	10MHz	256QAM	20000	1RB#0	18.87	21.73	30.00	PASS
Band4	10MHz	256QAM	20000	25RB#0	18.66	21.52	30.00	PASS
Band4	10MHz	256QAM	20000	25RB#12	18.70	21.56	30.00	PASS
Band4	10MHz	256QAM	20000	25RB#25	18.68	21.54	30.00	PASS
Band4	10MHz	256QAM	20000	50RB#0	18.69	21.55	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#0	18.85	21.71	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#24	18.84	21.7	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#49	18.83	21.69	30.00	PASS
Band4	10MHz	256QAM	20175	25RB#0	18.74	21.6	30.00	PASS
Band4	10MHz	256QAM	20175	25RB#12	18.70	21.56	30.00	PASS
Band4	10MHz	256QAM	20175	25RB#25	18.64	21.5	30.00	PASS
Band4	10MHz	256QAM	20175	50RB#0	18.69	21.55	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#0	18.71	21.57	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#24	18.71	21.57	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#49	18.77	21.63	30.00	PASS
Band4	10MHz	256QAM	20350	25RB#12	18.61	21.47	30.00	PASS
Band4	10MHz	256QAM	20350	25RB#0	18.53	21.39	30.00	PASS
Band4	10MHz	256QAM	20350	25RB#25	18.61	21.47	30.00	PASS
Band4	10MHz	256QAM	20350	50RB#0	18.56	21.42	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.61	25.47	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.63	25.49	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.50	25.36	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.48	24.34	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.48	24.34	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.46	24.32	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.48	24.34	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.56	25.42	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.61	25.47	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
 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	20175	1RB#49	22.56	25.42	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.52	24.38	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.47	24.33	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.52	24.38	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.52	24.38	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.55	25.41	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.49	25.35	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.59	25.45	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.47	24.33	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.39	24.25	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.48	24.34	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.45	24.31	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.31	26.17	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.36	26.22	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.38	26.24	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.25	25.11	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.34	25.2	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.31	25.17	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.37	25.23	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.32	26.18	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.30	26.16	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.41	26.27	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.33	25.19	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.30	25.16	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.32	25.18	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.37	25.23	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.35	26.21	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.23	26.09	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.29	26.15	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.20	25.06	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.33	25.19	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.32	25.18	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.27	25.13	30.00	PASS



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 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	64QAM	20025	1RB#0	21.53	24.39	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.62	24.48	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.66	24.52	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#39	20.42	23.28	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#0	20.36	23.22	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#18	20.46	23.32	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.39	23.25	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.60	24.46	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.53	24.39	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.59	24.45	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#18	20.45	23.31	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#0	20.46	23.32	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#39	20.47	23.33	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.44	23.3	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.55	24.41	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.48	24.34	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.49	24.35	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#39	20.43	23.29	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#18	20.46	23.32	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#0	20.34	23.2	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.41	23.27	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#74	18.69	21.55	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#38	18.80	21.66	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#0	18.90	21.76	30.00	PASS
Band4	15MHz	256QAM	20025	36RB#0	18.61	21.47	30.00	PASS
Band4	15MHz	256QAM	20025	36RB#18	18.62	21.48	30.00	PASS
Band4	15MHz	256QAM	20025	36RB#39	18.64	21.5	30.00	PASS
Band4	15MHz	256QAM	20025	75RB#0	18.66	21.52	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#38	18.82	21.68	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#0	18.71	21.57	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#74	18.75	21.61	30.00	PASS
Band4	15MHz	256QAM	20175	36RB#0	18.70	21.56	30.00	PASS
Band4	15MHz	256QAM	20175	36RB#39	18.69	21.55	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.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	15MHz	256QAM	20175	36RB#18	18.67	21.53	30.00	PASS
Band4	15MHz	256QAM	20175	75RB#0	18.63	21.49	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#38	18.68	21.54	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#74	18.71	21.57	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#0	18.75	21.61	30.00	PASS
Band4	15MHz	256QAM	20325	36RB#39	18.59	21.45	30.00	PASS
Band4	15MHz	256QAM	20325	36RB#18	18.59	21.45	30.00	PASS
Band4	15MHz	256QAM	20325	36RB#0	18.61	21.47	30.00	PASS
Band4	15MHz	256QAM	20325	75RB#0	18.59	21.45	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.50	25.36	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.66	25.52	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.57	25.43	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.45	24.31	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.48	24.34	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.39	24.25	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.48	24.34	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.64	25.5	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.58	25.44	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.56	25.42	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.51	24.37	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.46	24.32	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.48	24.34	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.54	24.4	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.39	25.25	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.49	25.35	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.64	25.5	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.35	24.21	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.44	24.3	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.50	24.36	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.38	24.24	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.30	26.16	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.41	26.27	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.26	26.12	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
 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	50RB#0	22.31	25.17	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.40	25.26	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.28	25.14	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.29	25.15	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.41	26.27	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.27	26.13	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.34	26.2	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.42	25.28	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.38	25.24	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.44	25.3	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.45	25.31	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.27	26.13	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.37	26.23	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.22	26.08	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.25	25.11	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.38	25.24	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.45	25.31	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.37	25.23	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.52	24.38	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.62	24.48	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.58	24.44	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.39	23.25	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#25	20.51	23.37	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#0	20.36	23.22	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.42	23.28	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.53	24.39	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.63	24.49	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.60	24.46	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.51	23.37	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#0	20.51	23.37	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#25	20.47	23.33	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.45	23.31	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.63	24.49	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
 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	64QAM	20300	1RB#99	21.48	24.34	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.53	24.39	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#25	20.41	23.27	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#0	20.31	23.17	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#50	20.49	23.35	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.44	23.3	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#0	18.90	21.76	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#99	18.87	21.73	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#49	18.87	21.73	30.00	PASS
Band4	20MHz	256QAM	20050	50RB#50	18.59	21.45	30.00	PASS
Band4	20MHz	256QAM	20050	50RB#25	18.65	21.51	30.00	PASS
Band4	20MHz	256QAM	20050	50RB#0	18.57	21.43	30.00	PASS
Band4	20MHz	256QAM	20050	100RB#0	18.62	21.48	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#0	18.69	21.55	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#49	18.82	21.68	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#99	18.78	21.64	30.00	PASS
Band4	20MHz	256QAM	20175	50RB#0	18.72	21.58	30.00	PASS
Band4	20MHz	256QAM	20175	50RB#25	18.70	21.56	30.00	PASS
Band4	20MHz	256QAM	20175	50RB#50	18.72	21.58	30.00	PASS
Band4	20MHz	256QAM	20175	100RB#0	18.70	21.56	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#49	18.81	21.67	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#99	18.72	21.58	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#0	18.74	21.6	30.00	PASS
Band4	20MHz	256QAM	20300	50RB#0	18.60	21.46	30.00	PASS
Band4	20MHz	256QAM	20300	50RB#50	18.65	21.51	30.00	PASS
Band4	20MHz	256QAM	20300	50RB#25	18.59	21.45	30.00	PASS
Band4	20MHz	256QAM	20300	100RB#0	18.63	21.49	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.57	25.43	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.41	25.27	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.54	25.4	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.54	24.4	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.43	24.29	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.39	24.25	30.00	PASS



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

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

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

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



Band4	20MHz	16QAM	20050	100RB#0	21.44	24.3	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.43	25.29	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.60	25.46	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.53	25.39	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.55	24.41	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.55	24.41	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.50	24.36	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.53	24.39	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.54	25.4	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.65	25.51	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.39	25.25	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.48	24.34	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.36	24.22	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.50	24.36	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.42	24.28	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]

The conducted Power is measured by Base Station Simulator



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	5.39	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.59	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.54	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.55	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.72	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.67	13	PASS
Band4	20MHz	256QAM	20050	100RB#0	6.64	13	PASS
Band4	20MHz	256QAM	20175	100RB#0	6.75	13	PASS
Band4	20MHz	256QAM	20300	100RB#0	6.70	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.49	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.64	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.61	13	PASS

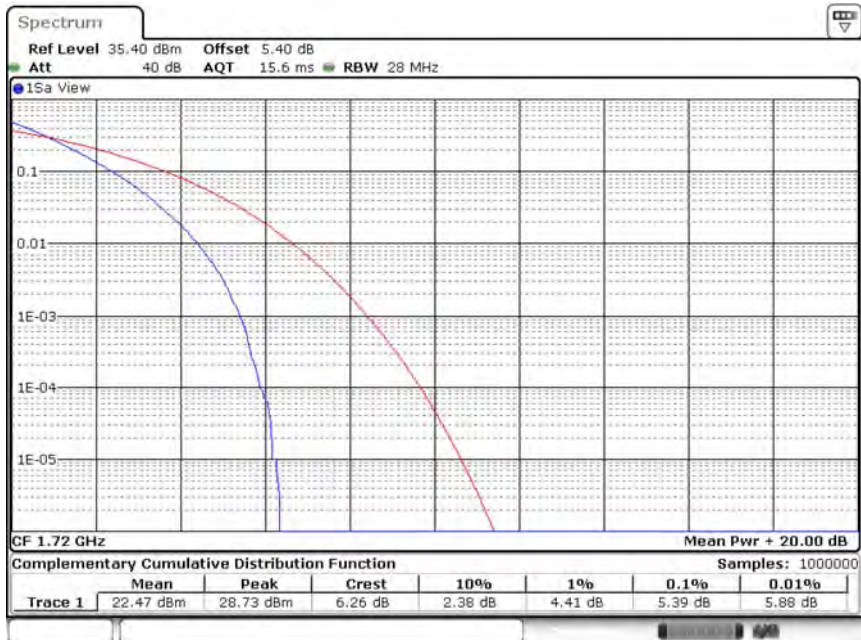


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

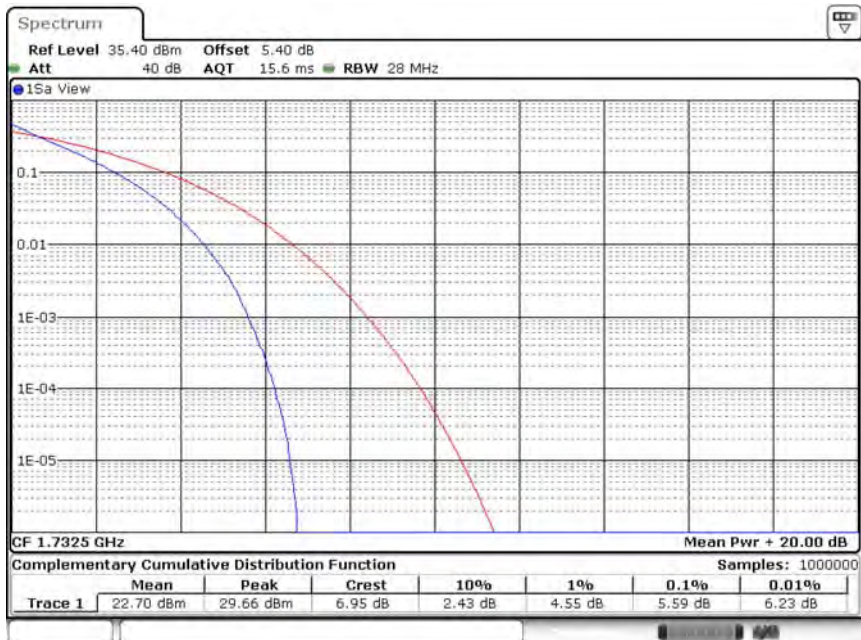
2.2. Test Plots

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



Date: 5.MAY.2021 04:44:04

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



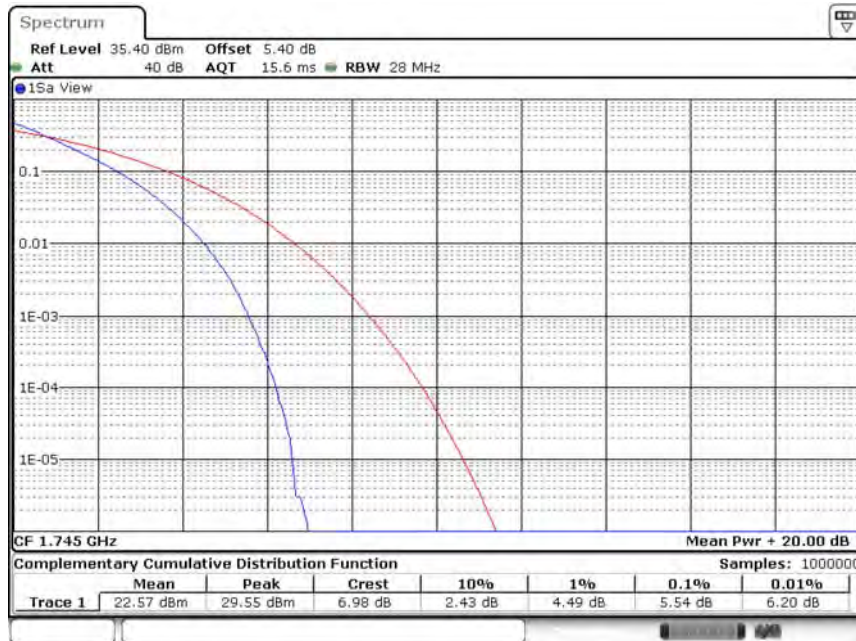
Date: 5.MAY.2021 04:44:27



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-QPSK-20300-100RB#0



Date: 5.MAY.2021 04:44:50

Band4-20MHz-64QAM-20050-100RB#0



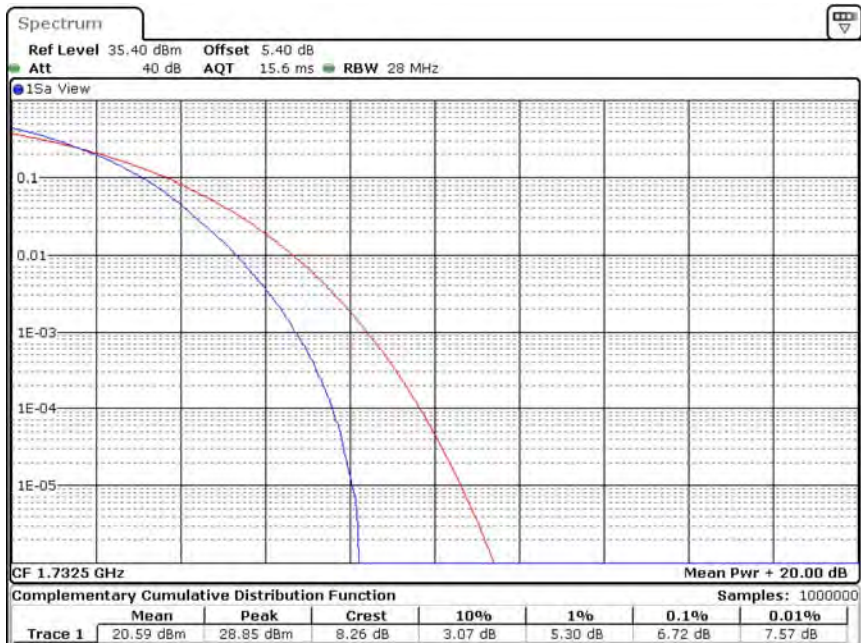
Date: 16 MAY 2021 10:17:40



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.

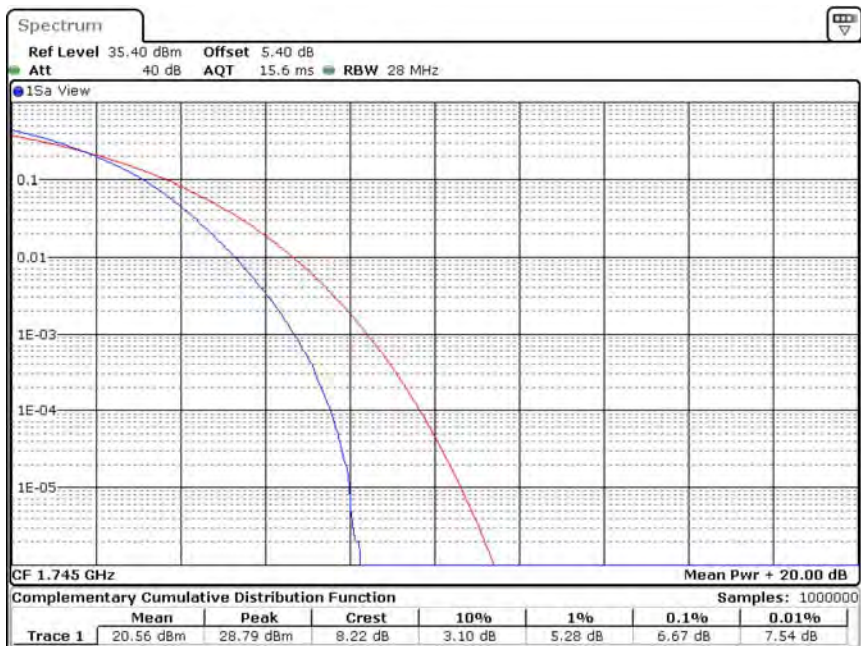
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 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-64QAM-20175-100RB#0



Date: 16 MAY 2021 10:17:52

Band4-20MHz-64QAM-20300-100RB#0



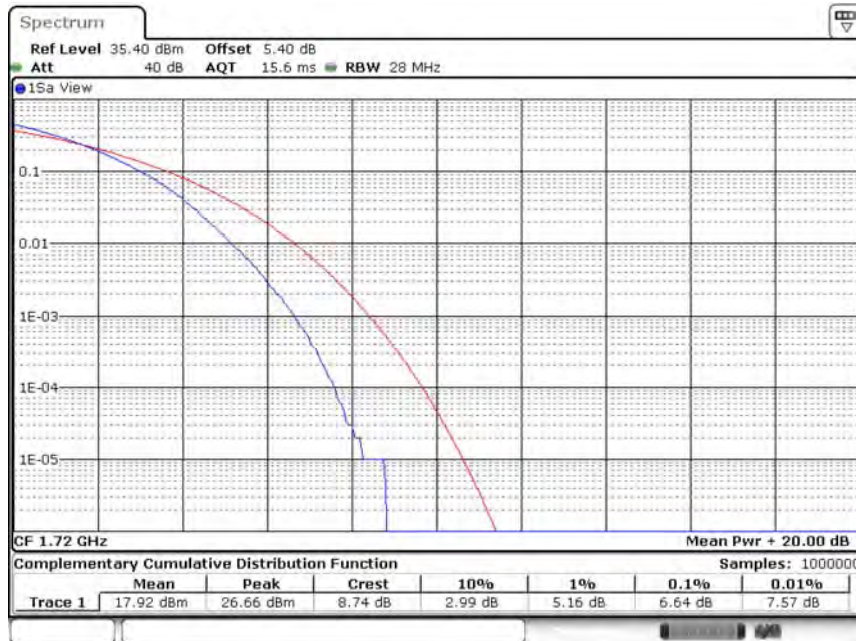
Date: 16 MAY 2021 10:18:03



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.

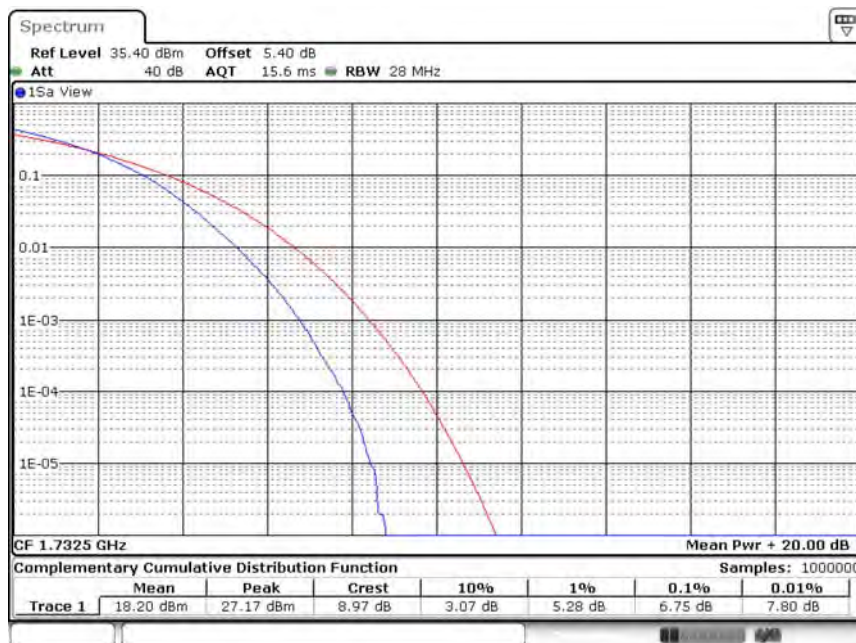
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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-256QAM-20050-100RB#0



Date: 7 MAY 2021 03:16:51

Band4-20MHz-256QAM-20175-100RB#0



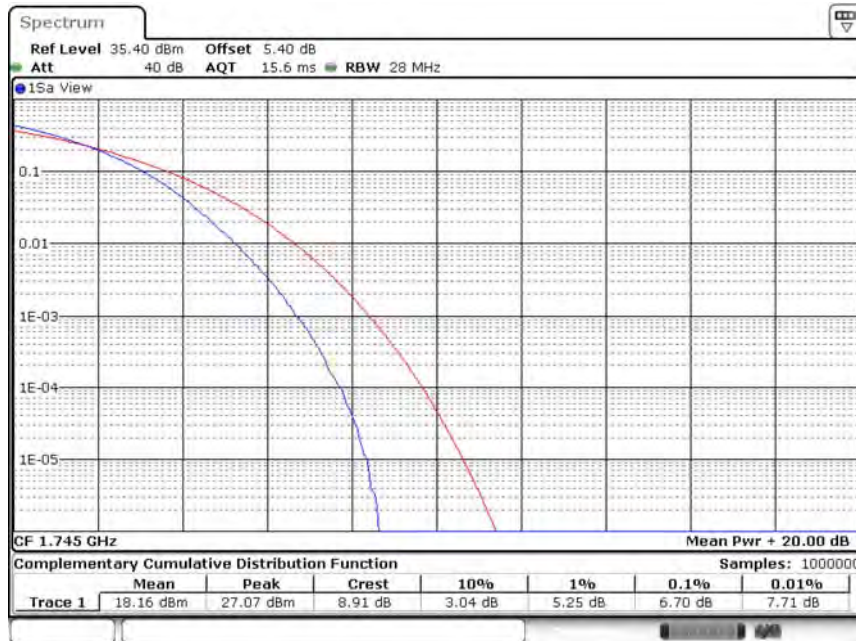
Date: 7 MAY 2021 03:17:03



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.

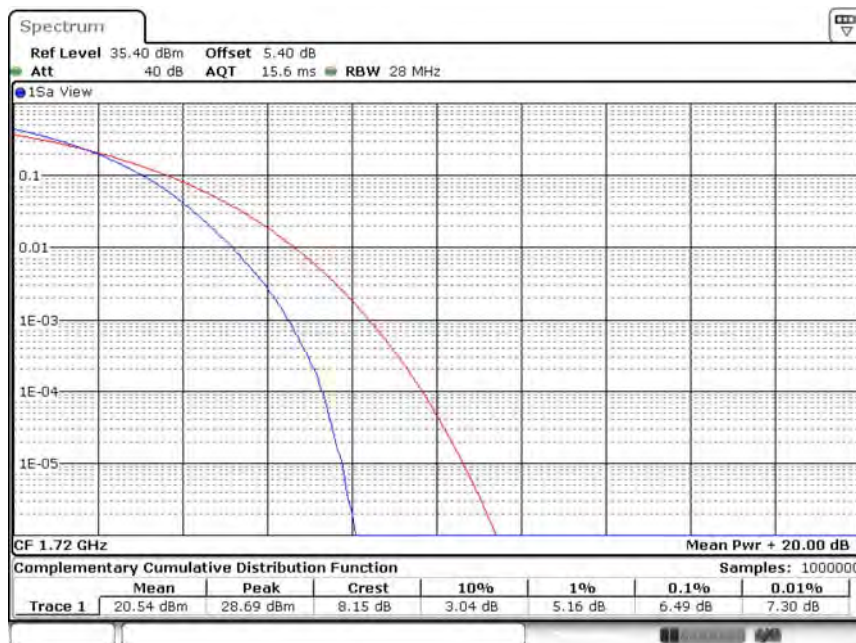
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 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-256QAM-20300-100RB#0



Date: 7 MAY 2021 03:17:14

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



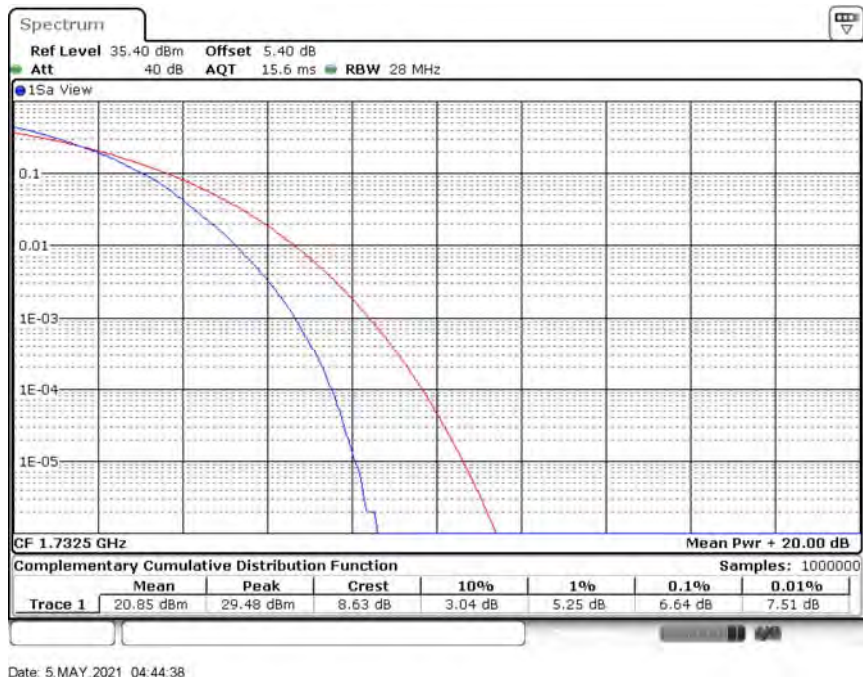
Date: 5 MAY 2021 04:44:16



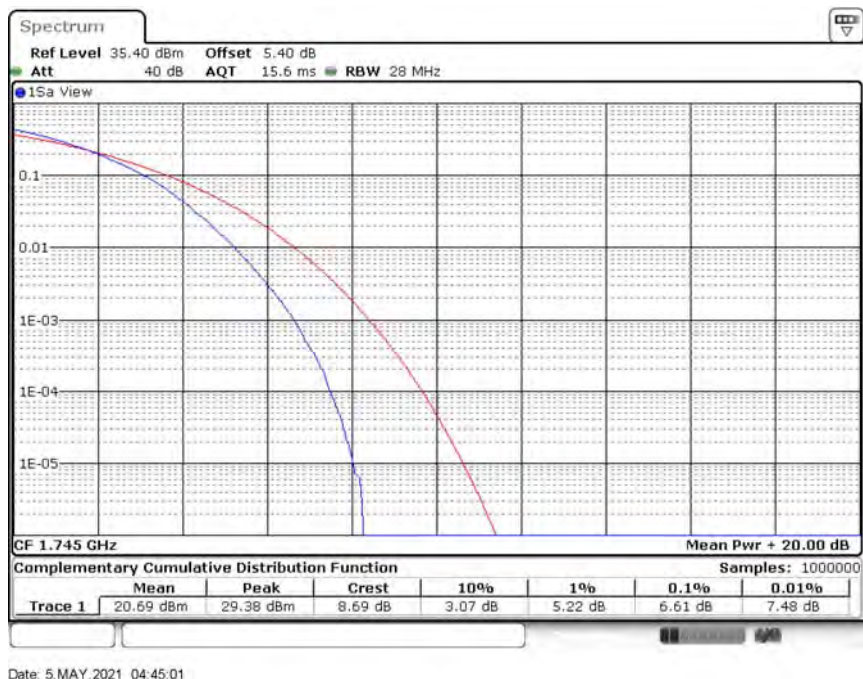
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



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

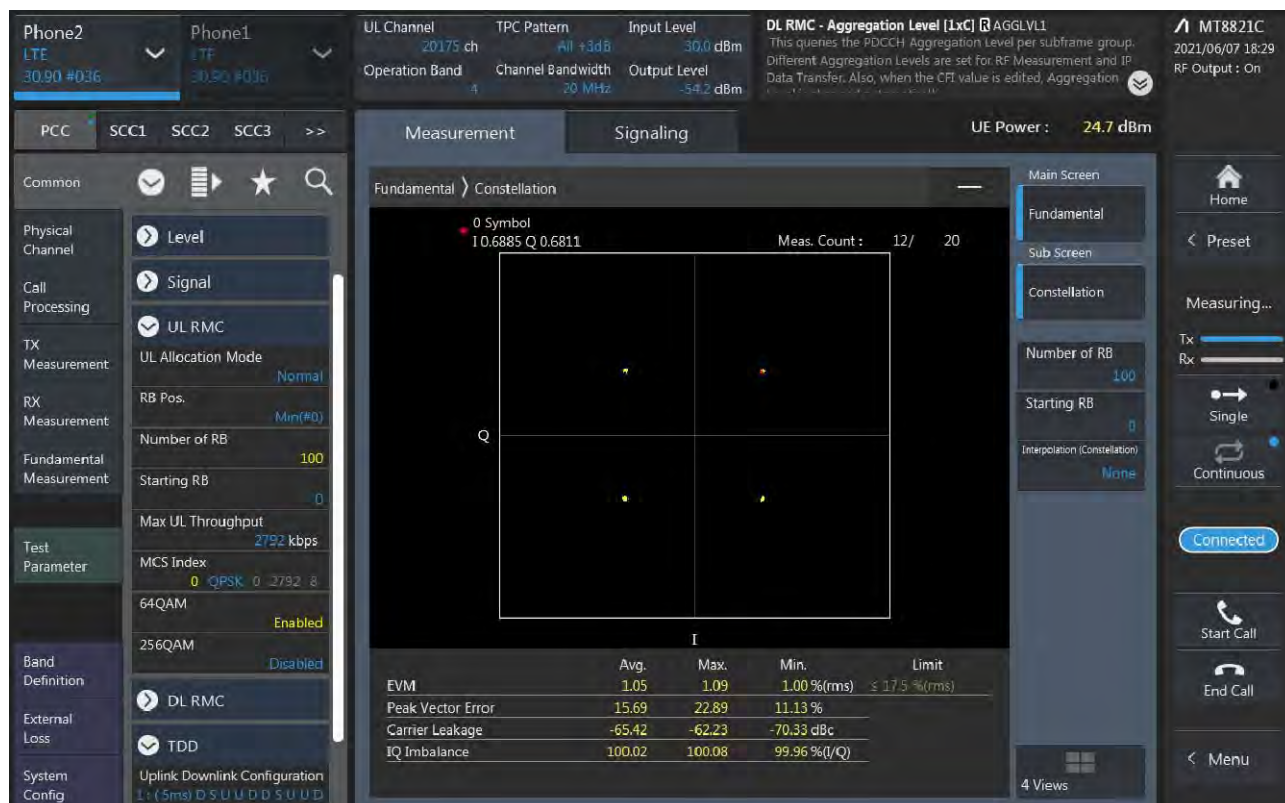
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

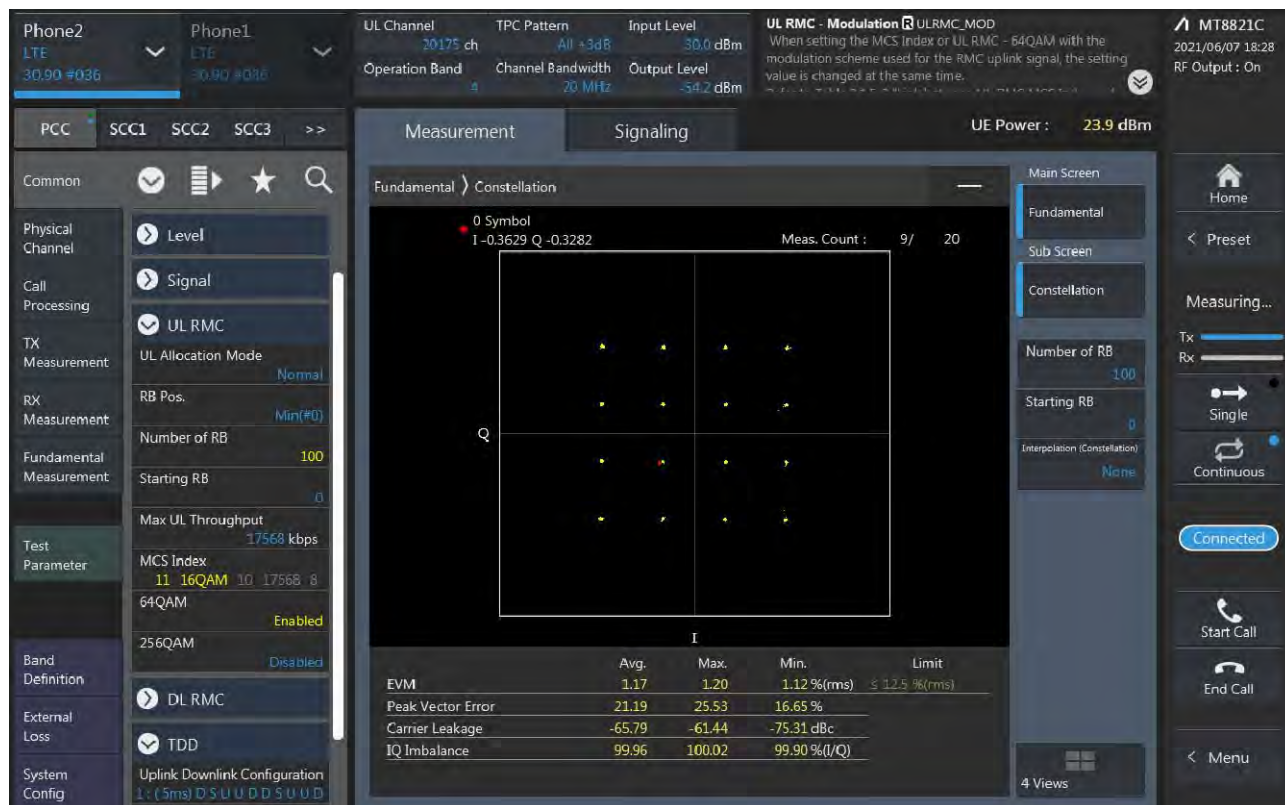
3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



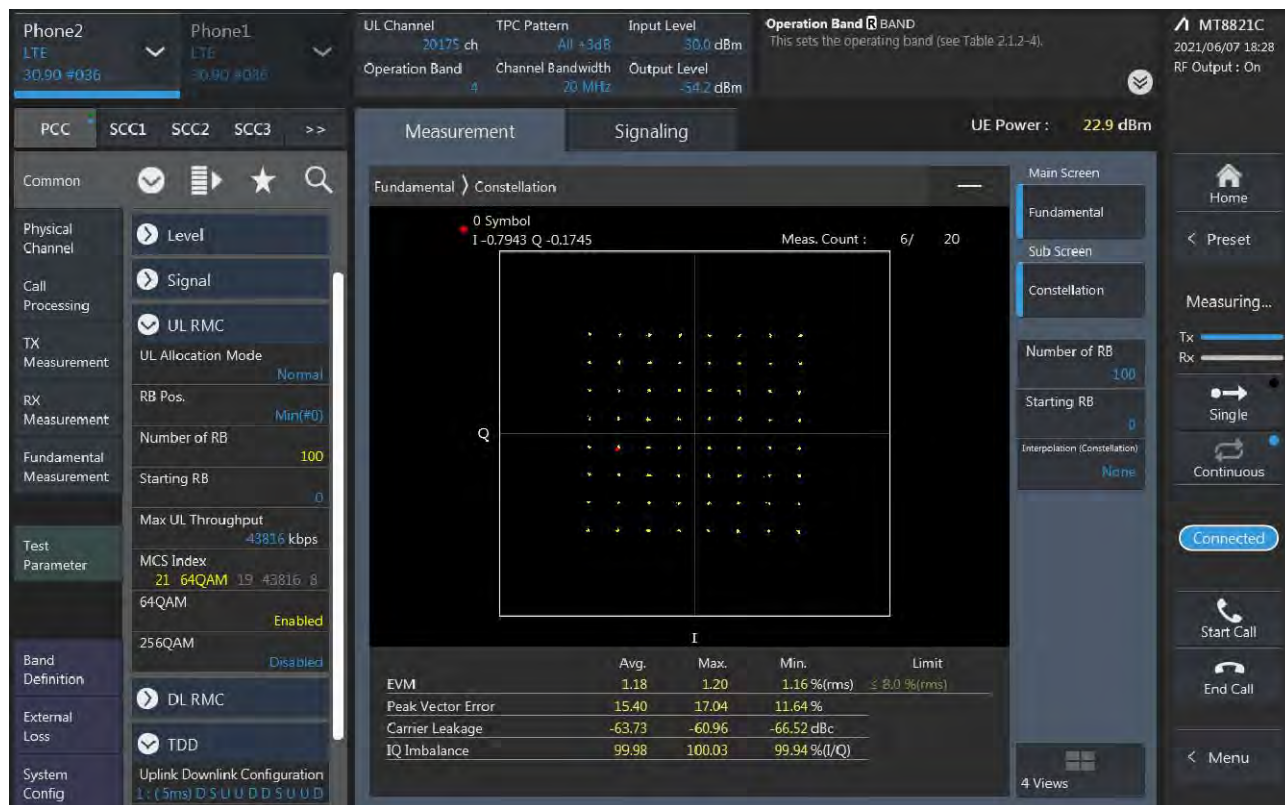
3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



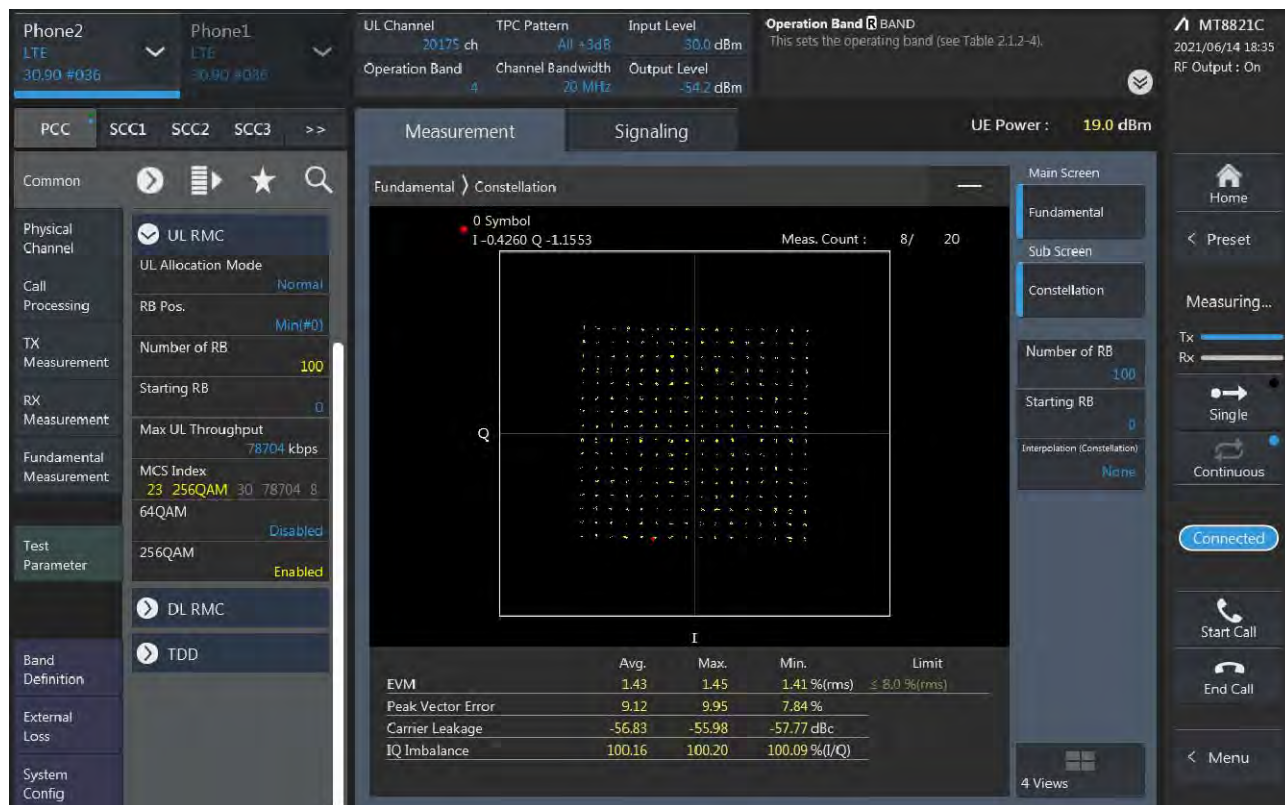
3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH



3.4. Test Mode = LTE /TM4 20MHz

3.4.1. 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	1.091	1.287	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.088	1.281	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.290	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.094	1.284	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.094	1.260	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.094	1.287	PASS
Band4	1.4MHz	256QAM	19957	6RB#0	1.094	1.296	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	1.091	1.284	PASS
Band4	1.4MHz	256QAM	20393	6RB#0	1.091	1.302	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.290	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.088	1.290	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.088	1.296	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	2.946	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.697	2.958	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.691	2.946	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.685	2.940	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.685	2.934	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.685	2.928	PASS
Band4	3MHz	256QAM	19965	15RB#0	2.685	2.946	PASS
Band4	3MHz	256QAM	20175	15RB#0	2.685	2.952	PASS
Band4	3MHz	256QAM	20385	15RB#0	2.685	2.946	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.679	2.928	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	2.928	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.679	2.922	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.466	4.880	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.880	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.466	4.880	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.466	4.860	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.476	4.850	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.466	4.830	PASS
Band4	5MHz	256QAM	19975	25RB#0	4.476	4.890	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



Band4	5MHz	256QAM	20175	25RB#0	4.476	4.890	PASS
Band4	5MHz	256QAM	20375	25RB#0	4.476	4.870	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.900	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.476	4.890	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.486	4.890	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.620	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.640	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.660	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.931	9.620	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.931	9.600	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.931	9.580	PASS
Band4	10MHz	256QAM	20000	50RB#0	8.931	9.620	PASS
Band4	10MHz	256QAM	20175	50RB#0	8.951	9.720	PASS
Band4	10MHz	256QAM	20350	50RB#0	8.931	9.620	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.931	9.700	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.951	9.680	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.931	9.680	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.457	14.640	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.487	14.730	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	14.670	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.397	14.850	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.457	14.820	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.427	14.850	PASS
Band4	15MHz	256QAM	20025	75RB#0	13.427	14.670	PASS
Band4	15MHz	256QAM	20175	75RB#0	13.516	14.760	PASS
Band4	15MHz	256QAM	20325	75RB#0	13.457	14.730	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.427	14.550	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.487	14.730	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.457	14.730	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.862	19.320	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.902	19.400	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.902	19.320	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.862	19.320	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.902	19.320	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.902	19.280	PASS
Band4	20MHz	256QAM	20050	100RB#0	17.822	19.200	PASS
Band4	20MHz	256QAM	20175	100RB#0	17.942	19.760	PASS
Band4	20MHz	256QAM	20300	100RB#0	17.862	19.680	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



Band4	20MHz	16QAM	20050	100RB#0	17.862	19.360	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.942	19.400	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.862	19.400	PASS

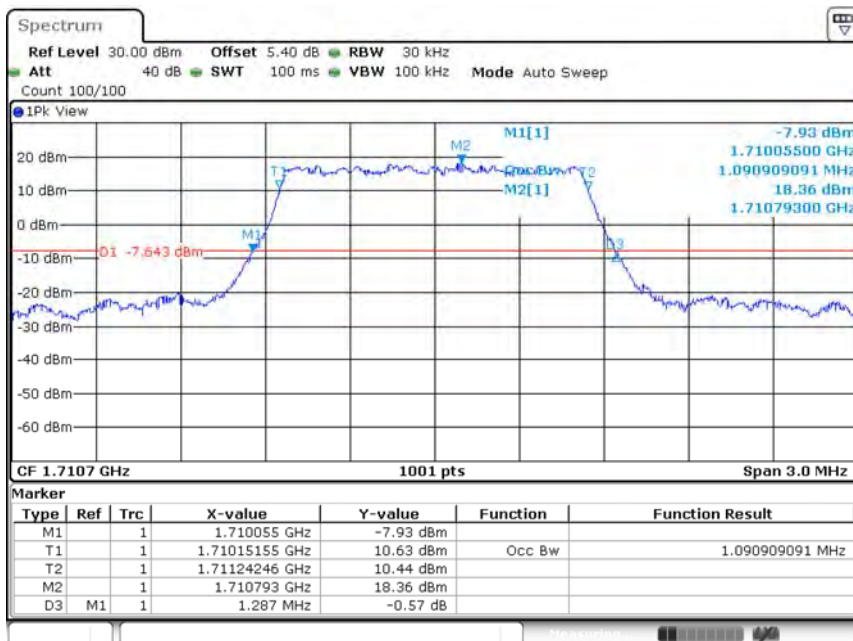


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

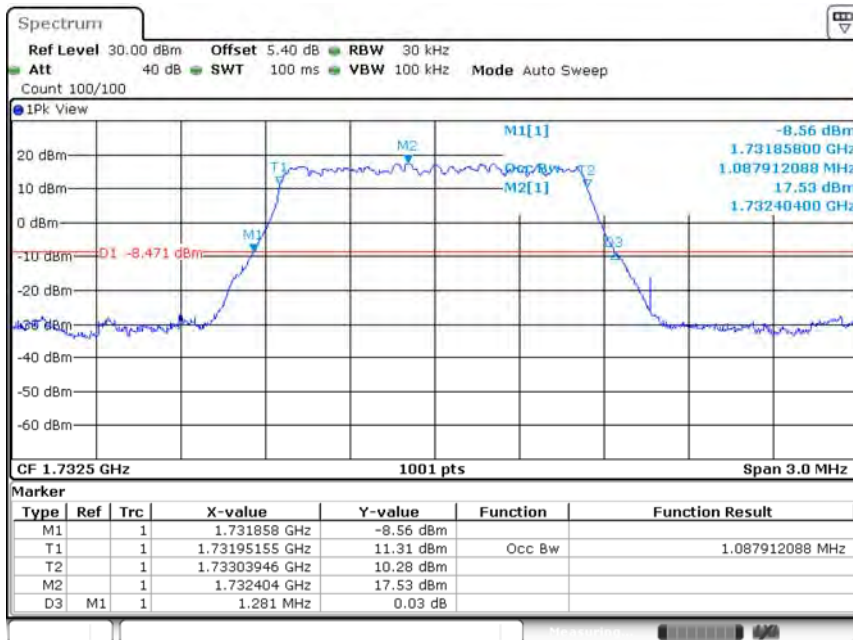
4.2. Test Plots

Band4-1.4MHz-QPSK-19957-6RB#0-1.091



Date: 12.MAY.2021 00:15:51

Band4-1.4MHz-QPSK-20175-6RB#0-1.088



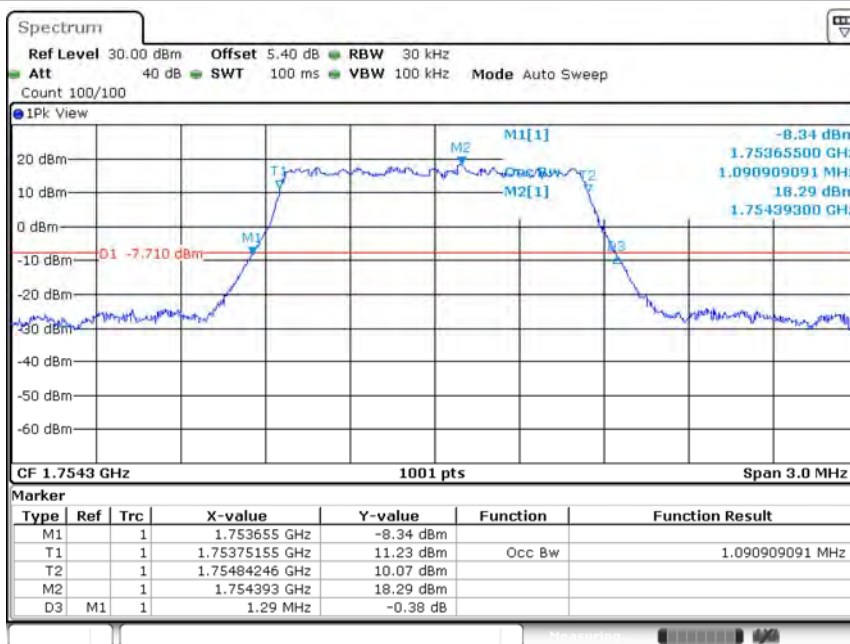
Date: 12.MAY.2021 00:16:31



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

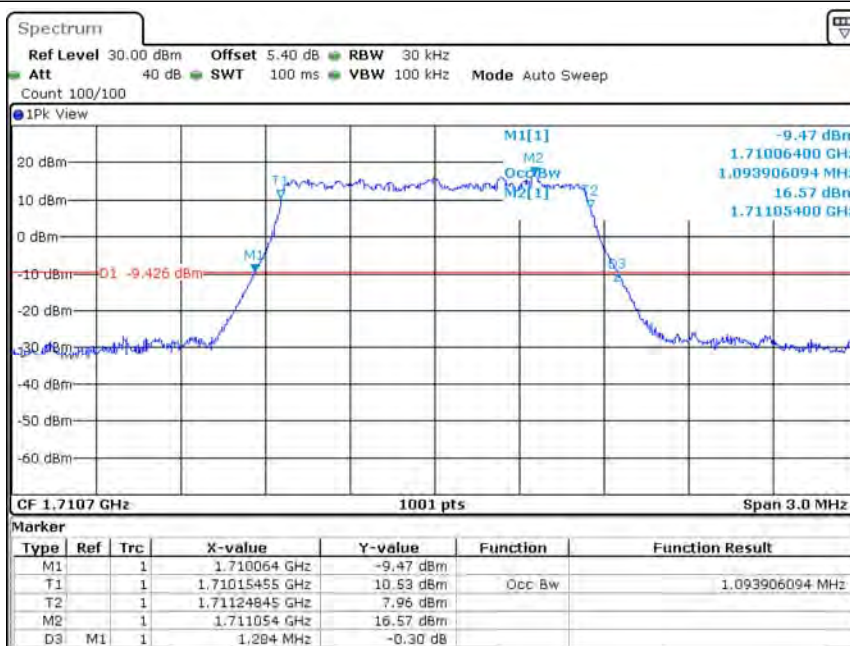
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn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

Band4-1.4MHz-QPSK-20393-6RB#0-1.091



Date: 12 MAY 2021 00:17:11

Band4-1.4MHz-64QAM-19957-6RB#0-1.094



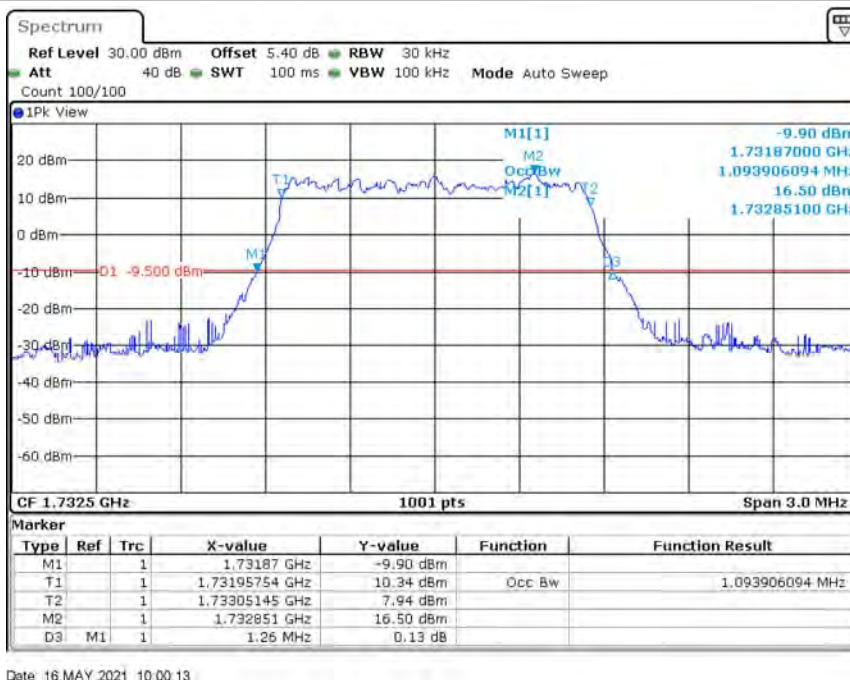
Date: 16 MAY 2021 09:59:53



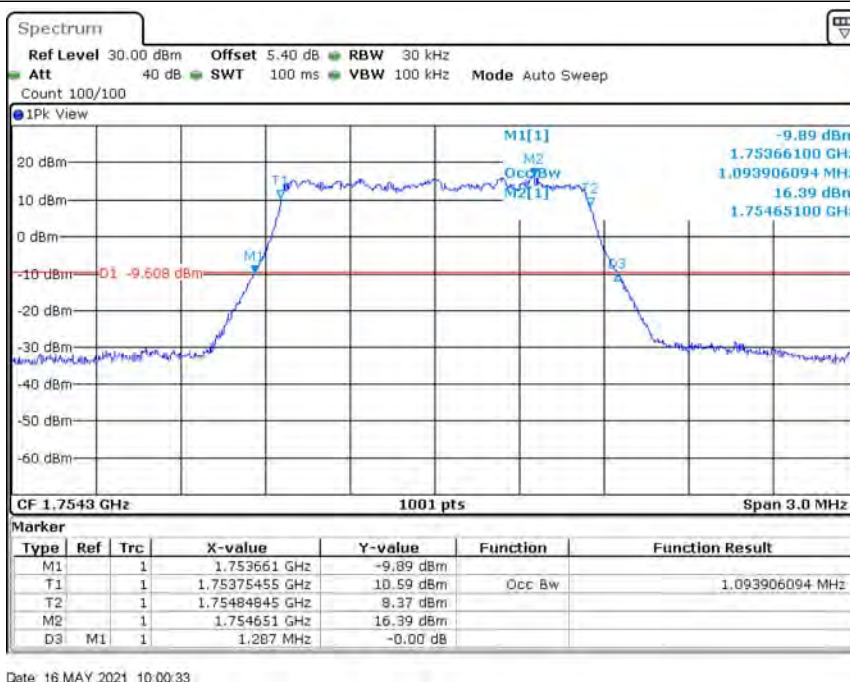
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

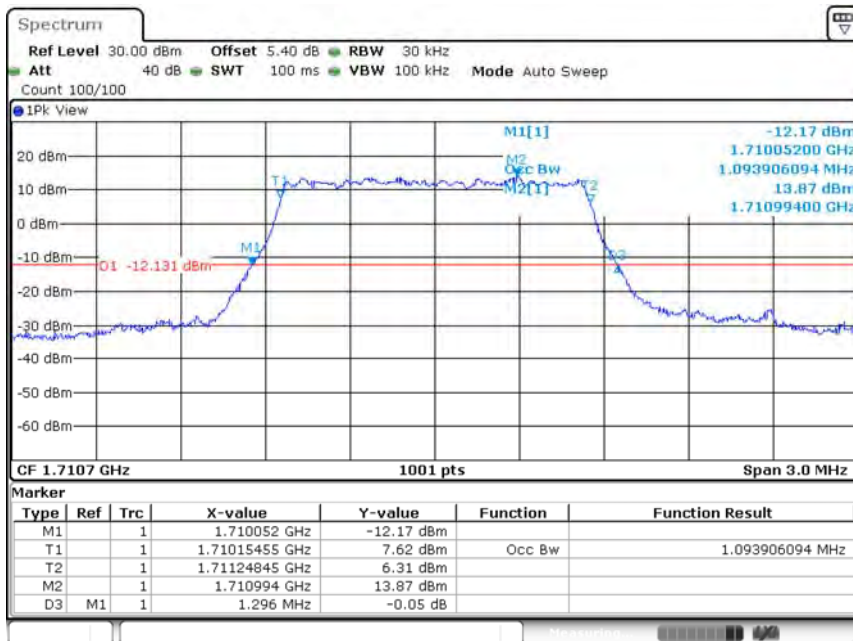
Band4-1.4MHz-64QAM-20175-6RB#0-1.094



Band4-1.4MHz-64QAM-20393-6RB#0-1.094

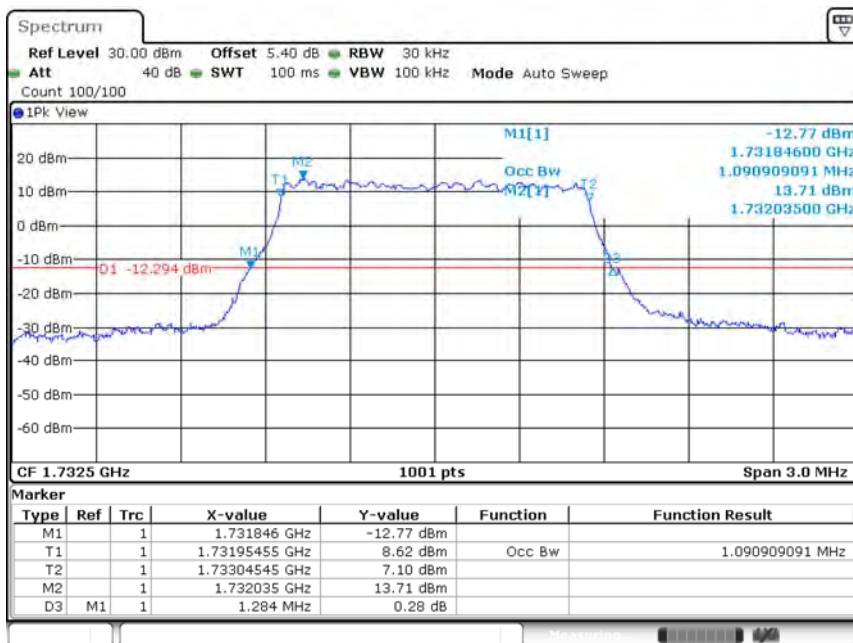


Band4-1.4MHz-256QAM-19957-6RB#0-1.094



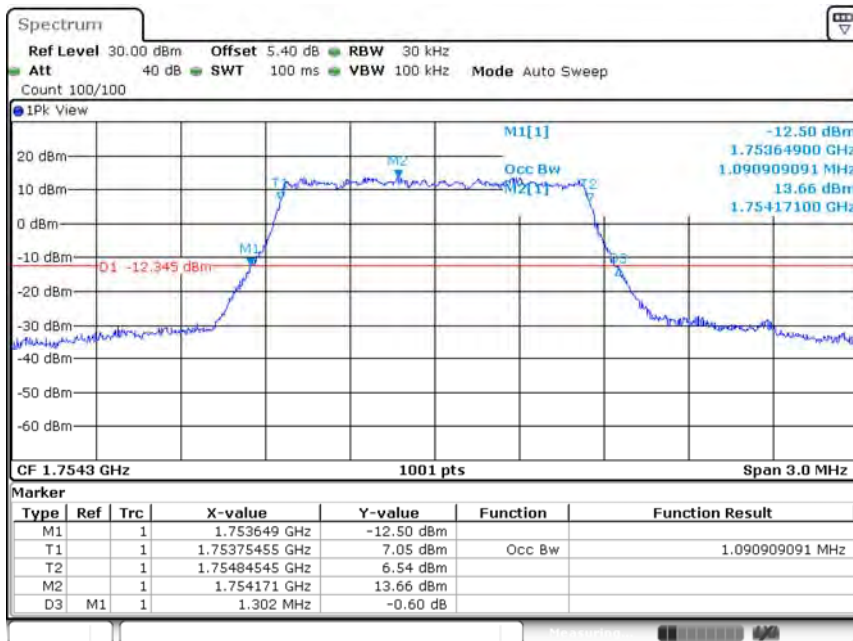
Date: 5.MAY.2021 02:32:20

Band4-1.4MHz-256QAM-20175-6RB#0-1.091



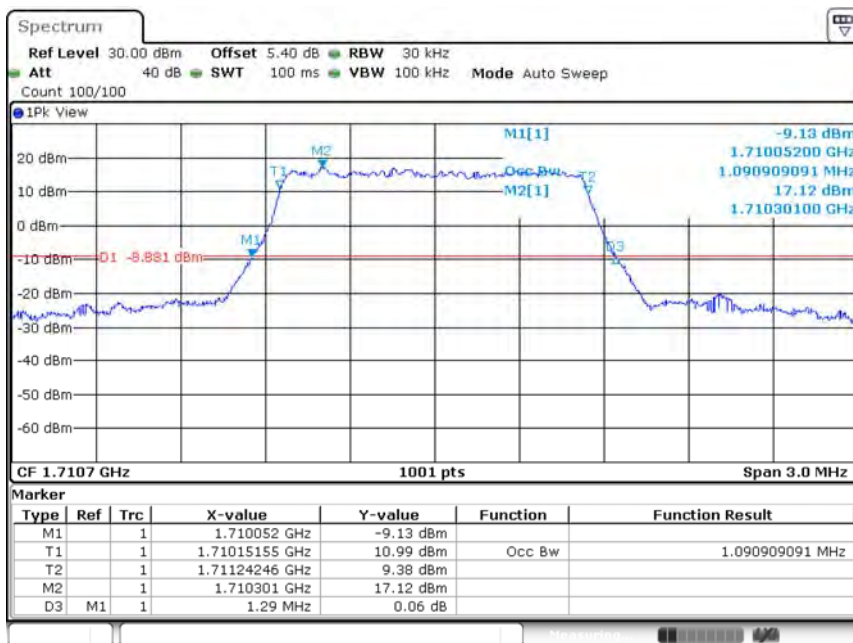
Date: 5.MAY.2021 02:32:40

Band4-1.4MHz-256QAM-20393-6RB#0-1.091



Date: 5.MAY.2021 02:33:00

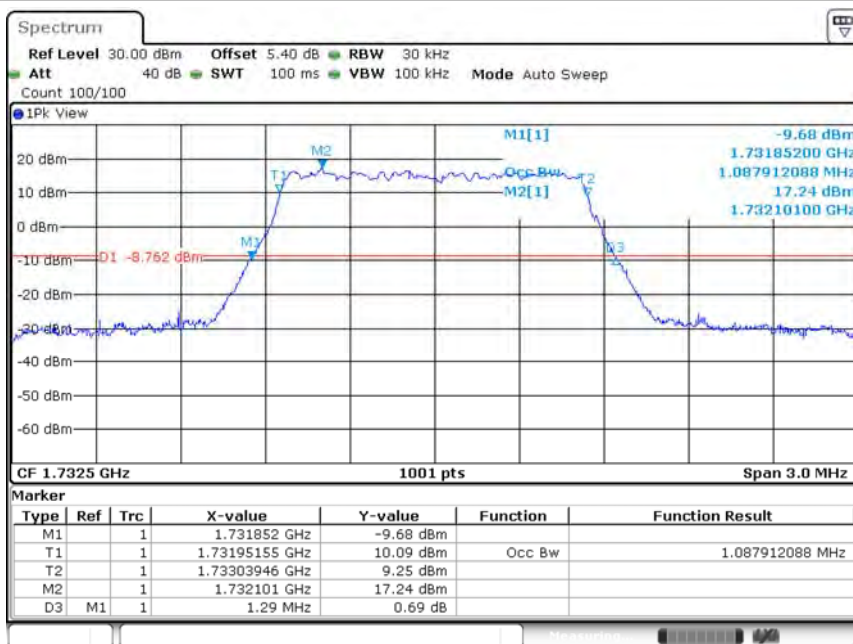
Band4-1.4MHz-16QAM-19957-6RB#0-1.091



Date: 12.MAY.2021 00:16:11

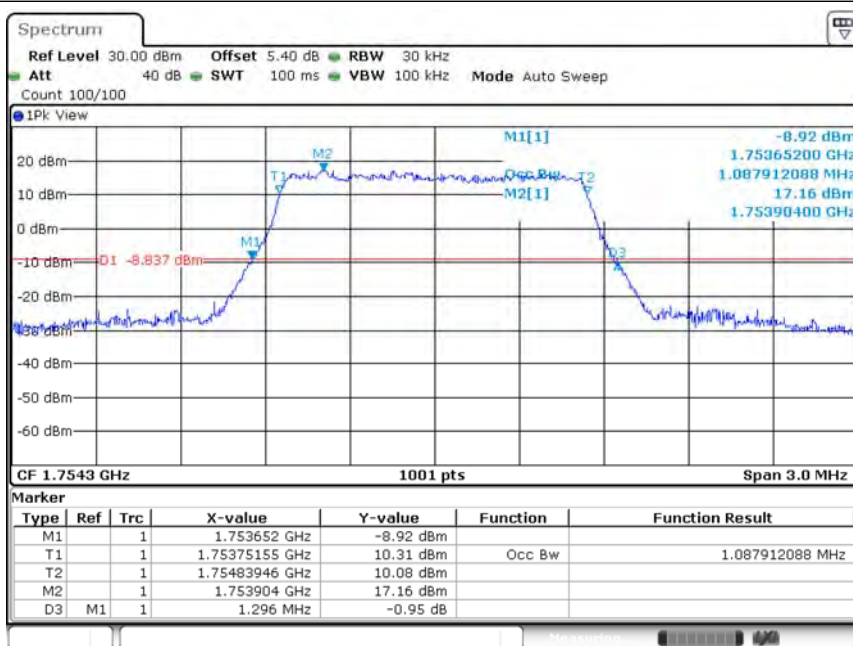


Band4-1.4MHz-16QAM-20175-6RB#0-1.088



Date: 12.MAY.2021 00:16:51

Band4-1.4MHz-16QAM-20393-6RB#0-1.088



Date: 12.MAY.2021 00:17:30

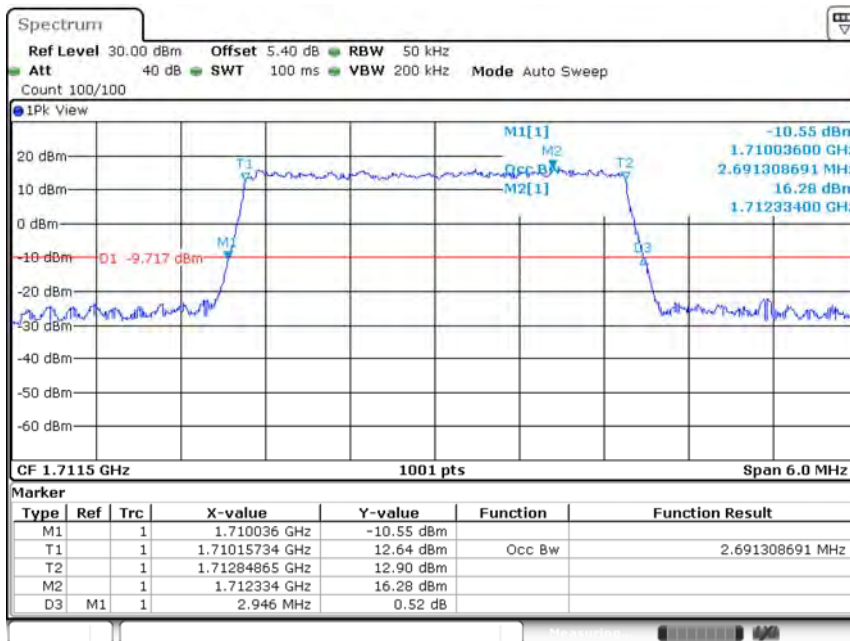


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

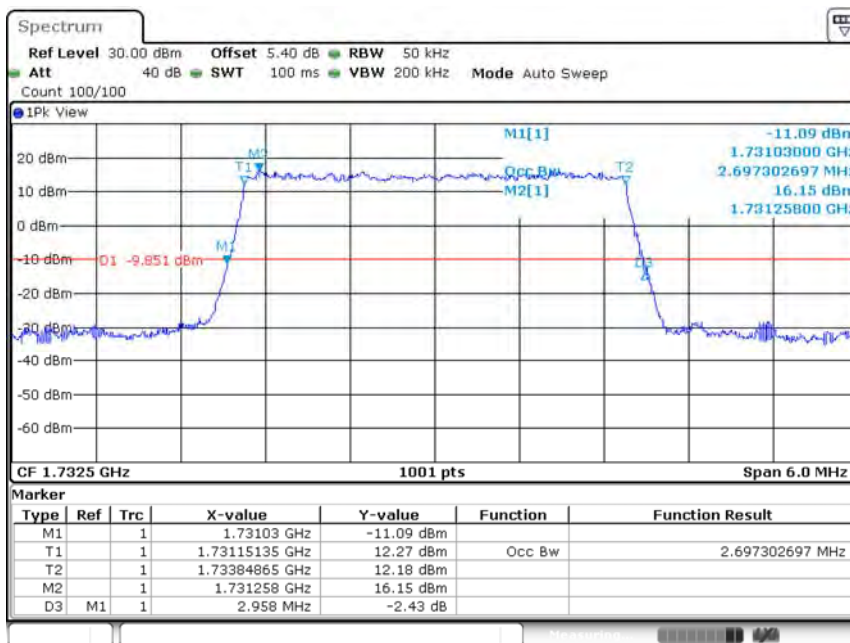
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-3MHz-QPSK-19965-15RB#0-2.691



Date: 12.MAY.2021 00:17:56

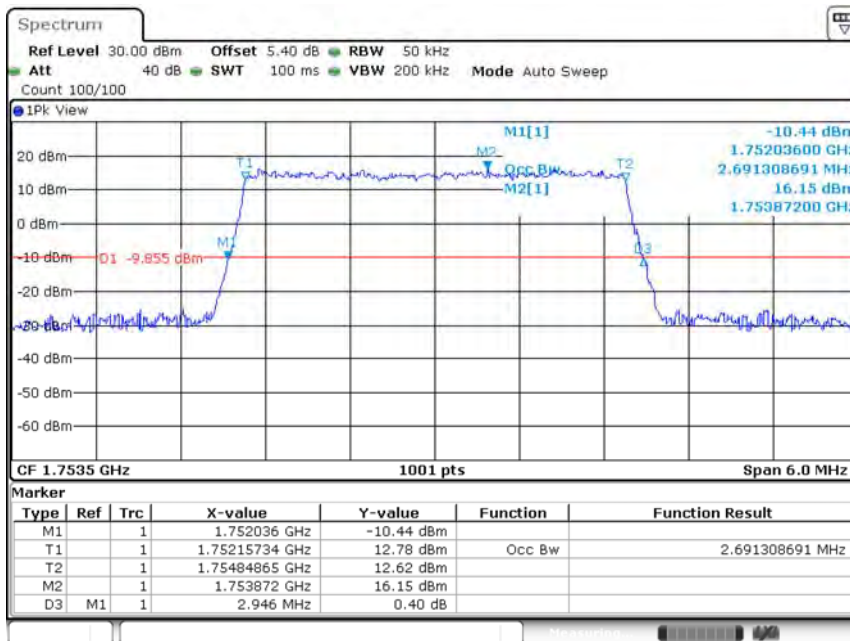
Band4-3MHz-QPSK-20175-15RB#0-2.697



Date: 12.MAY.2021 00:18:36

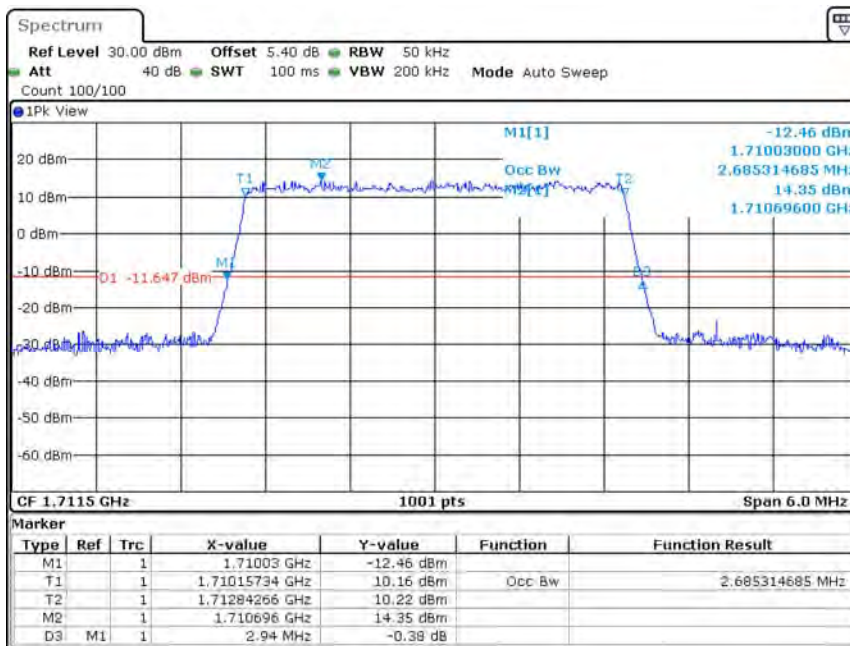


Band4-3MHz-QPSK-20385-15RB#0-2.691



Date: 12 MAY 2021 00:19:15

Band4-3MHz-64QAM-19965-15RB#0-2.685



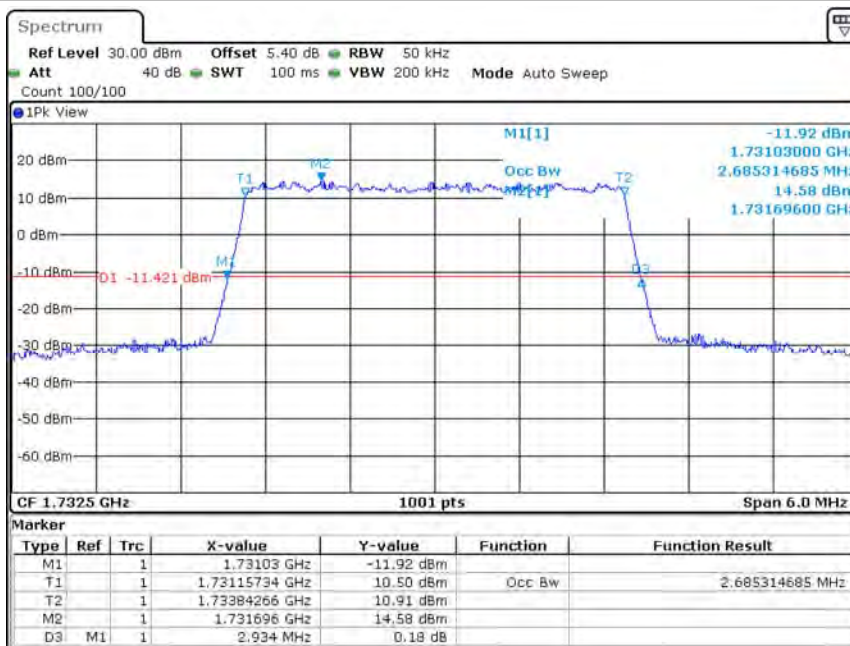
Date: 16 MAY 2021 10:01:00



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

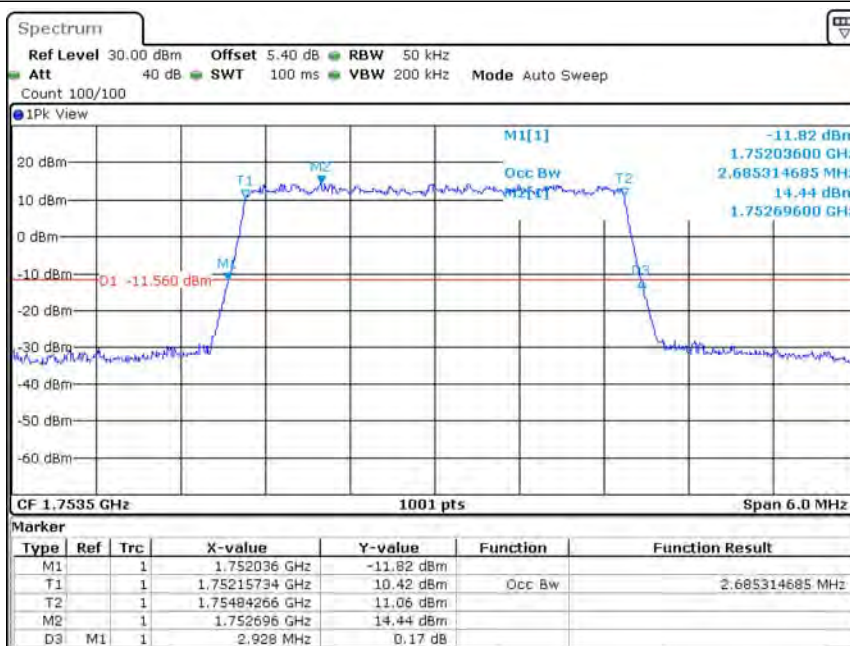
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn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

Band4-3MHz-64QAM-20175-15RB#0-2.685



Date 16 MAY 2021 10:01:20

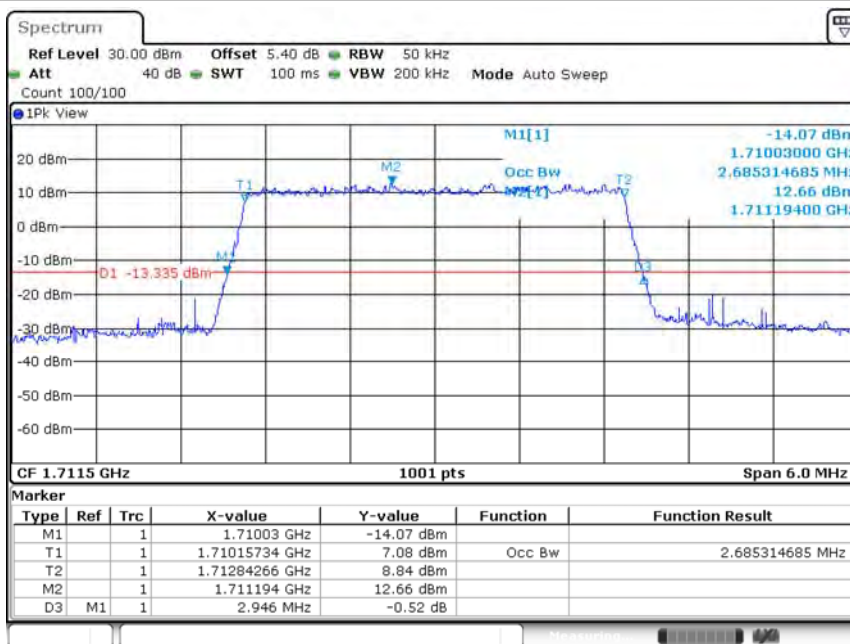
Band4-3MHz-64QAM-20385-15RB#0-2.685



Date 16 MAY 2021 10:01:40

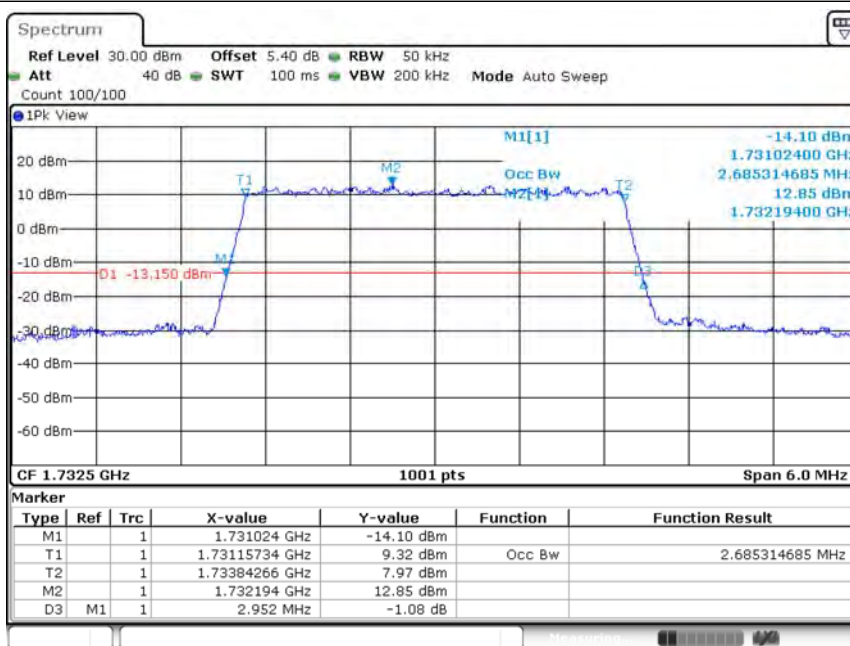


Band4-3MHz-256QAM-19965-15RB#0-2.685



Date: 5.MAY.2021 02:33:25

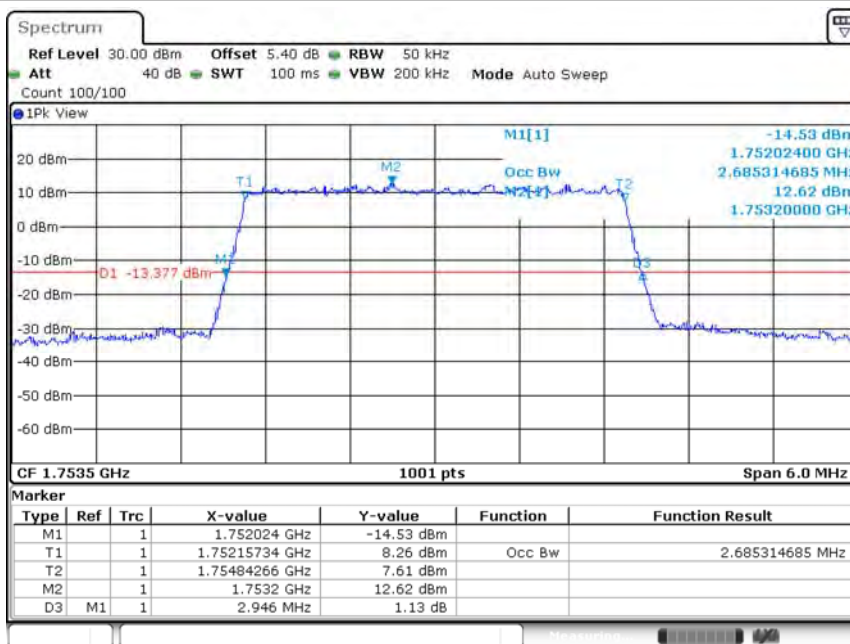
Band4-3MHz-256QAM-20175-15RB#0-2.685



Date: 5.MAY.2021 02:33:45

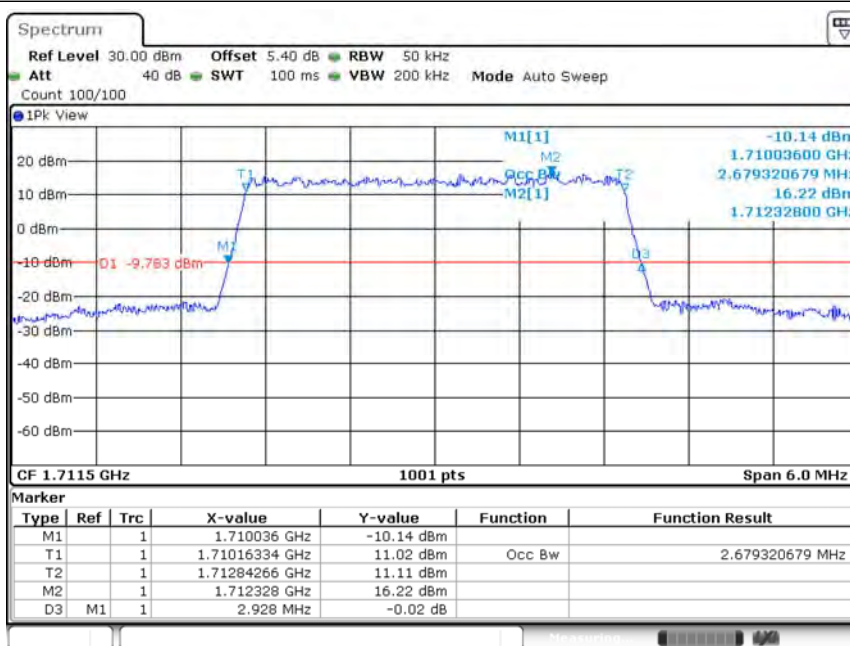


Band4-3MHz-256QAM-20385-15RB#0-2.685



Date: 5.MAY.2021 02:34:05

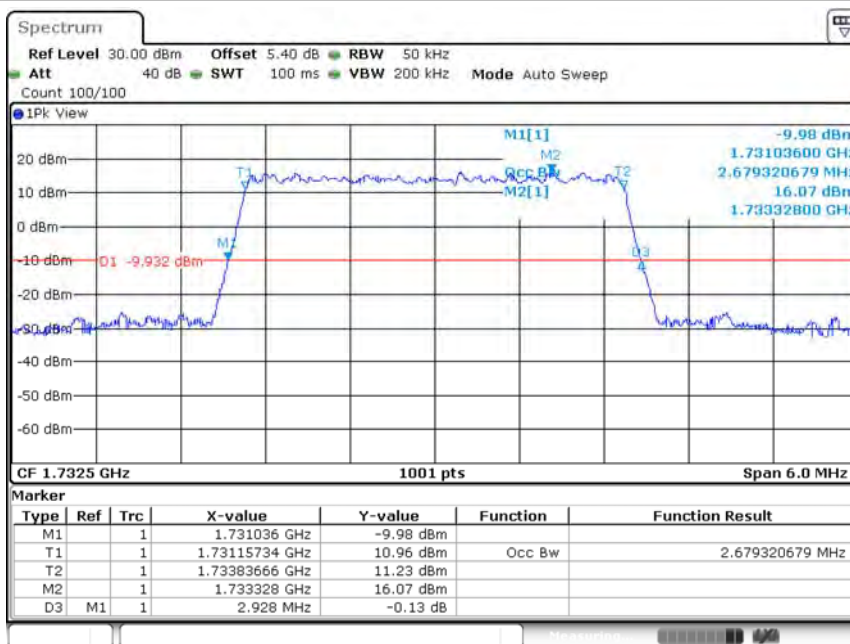
Band4-3MHz-16QAM-19965-15RB#0-2.679



Date: 12.MAY.2021 00:18:16

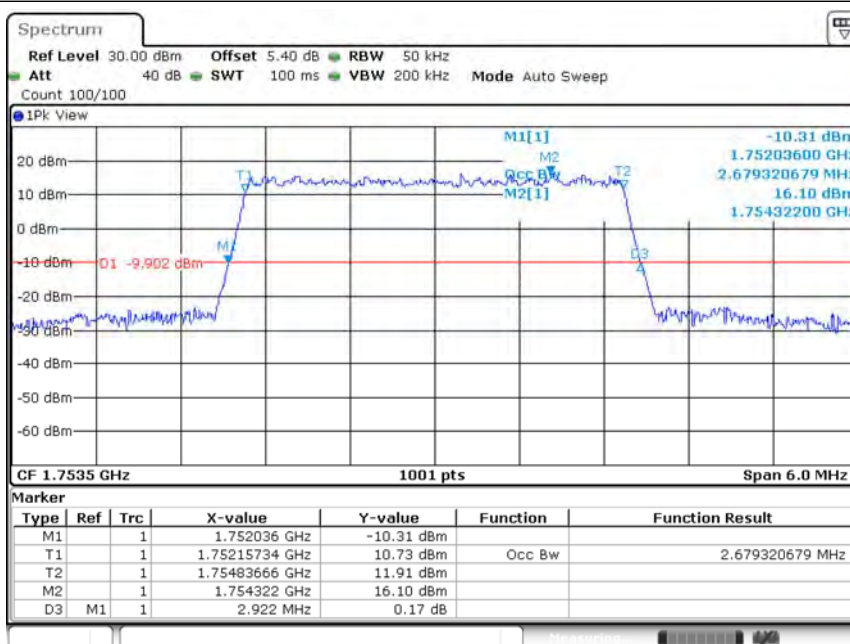


Band4-3MHz-16QAM-20175-15RB#0-2.679



Date: 12.MAY.2021 00:18:55

Band4-3MHz-16QAM-20385-15RB#0-2.679



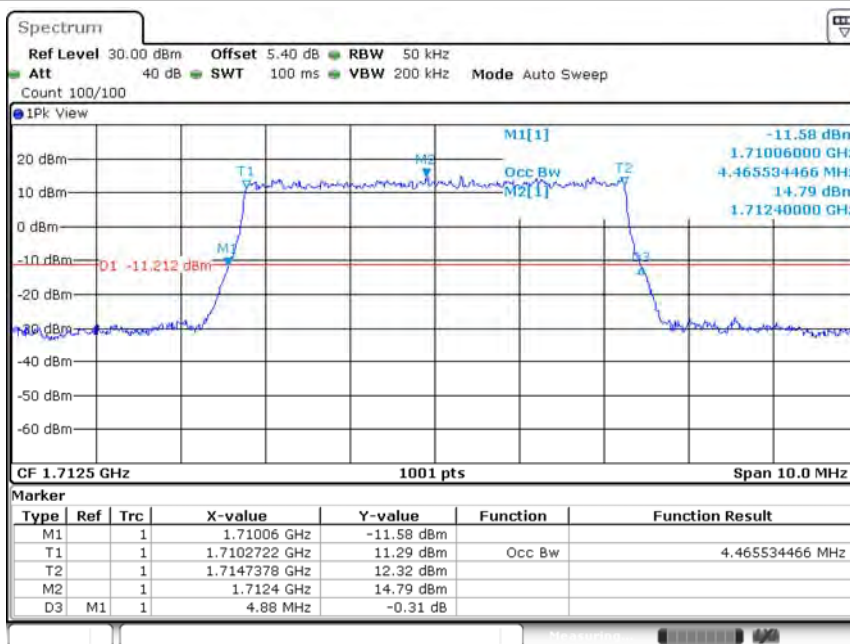
Date: 12.MAY.2021 00:19:35



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.

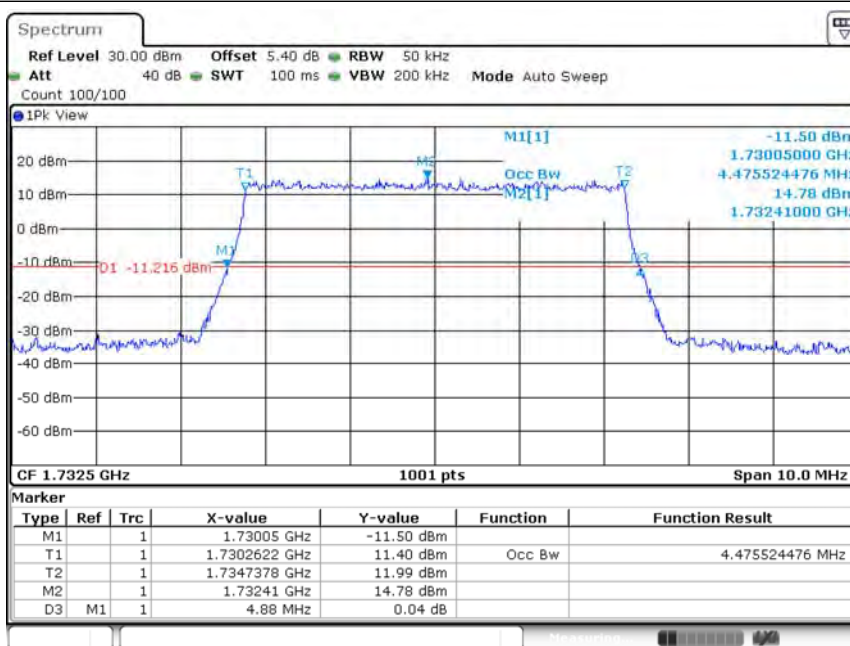
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band4-5MHz-QPSK-19975-25RB#0-4.466



Date: 12.MAY.2021 00:20:00

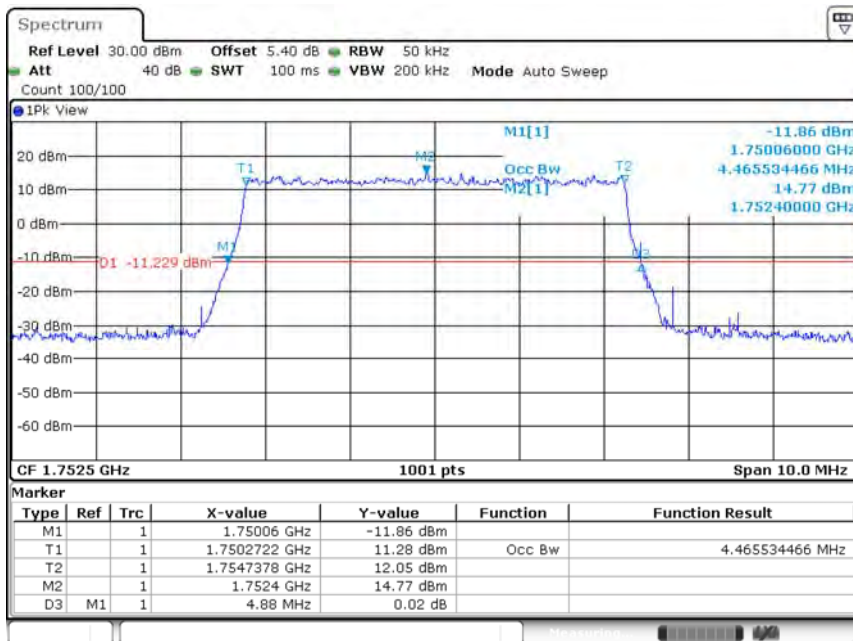
Band4-5MHz-QPSK-20175-25RB#0-4.476



Date: 12.MAY.2021 00:20:40

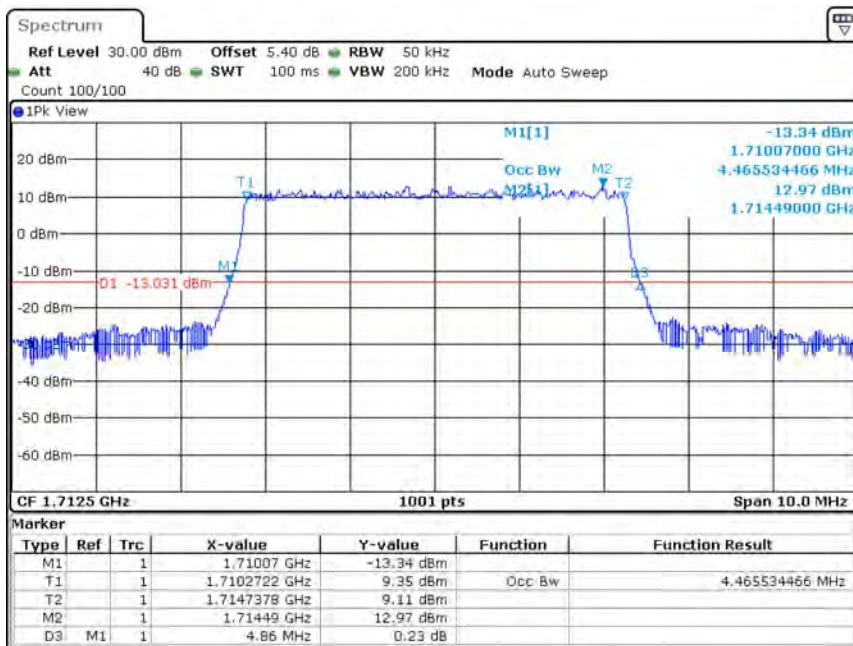


Band4-5MHz-QPSK-20375-25RB#0-4.466



Date: 12 MAY 2021 00:21:20

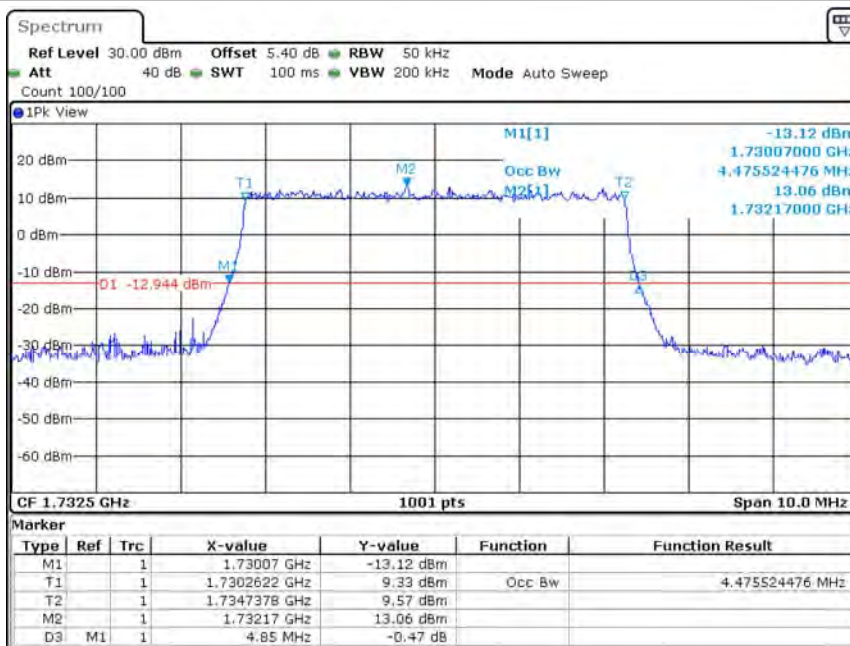
Band4-5MHz-64QAM-19975-25RB#0-4.466



Date: 16 MAY 2021 10:02:07

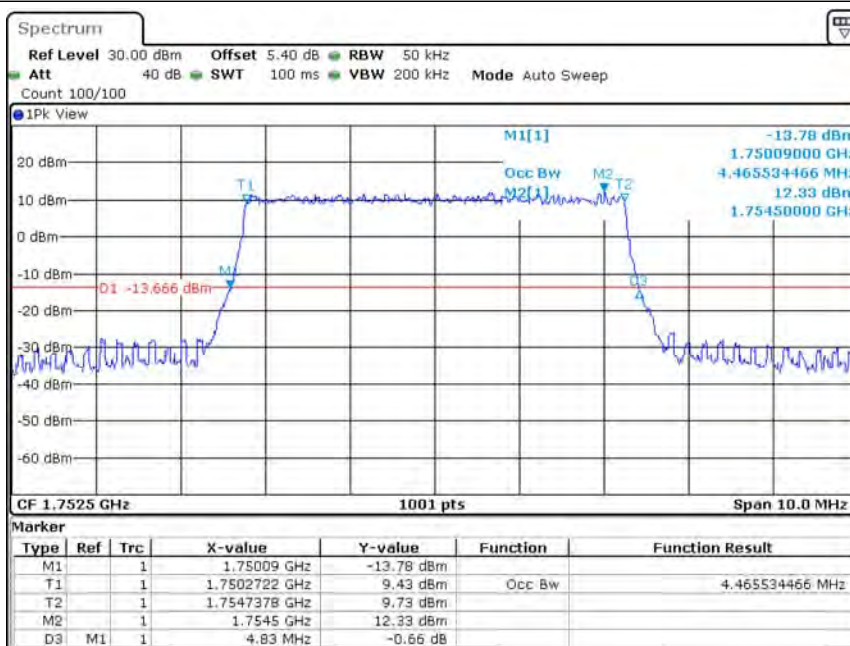


Band4-5MHz-64QAM-20175-25RB#0-4.476



Date 16 MAY 2021 10:02:26

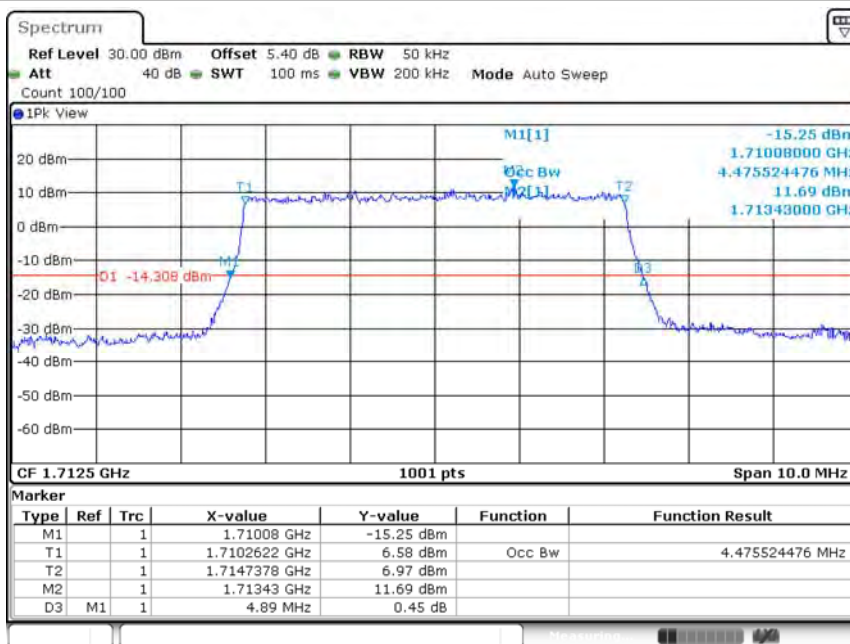
Band4-5MHz-64QAM-20375-25RB#0-4.466



Date 16 MAY 2021 10:02:46

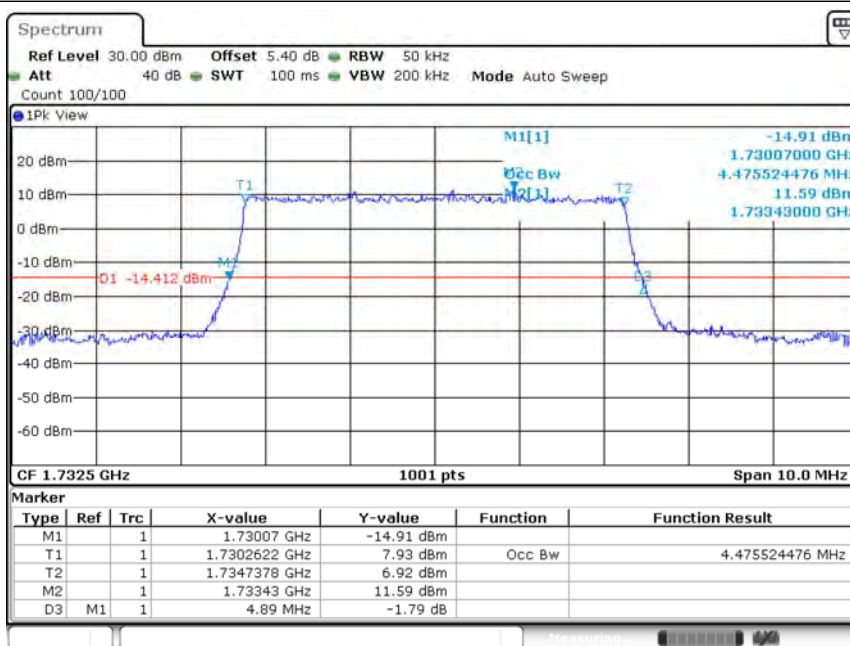


Band4-5MHz-256QAM-19975-25RB#0-4.476



Date: 5.MAY.2021 02:34:30

Band4-5MHz-256QAM-20175-25RB#0-4.476



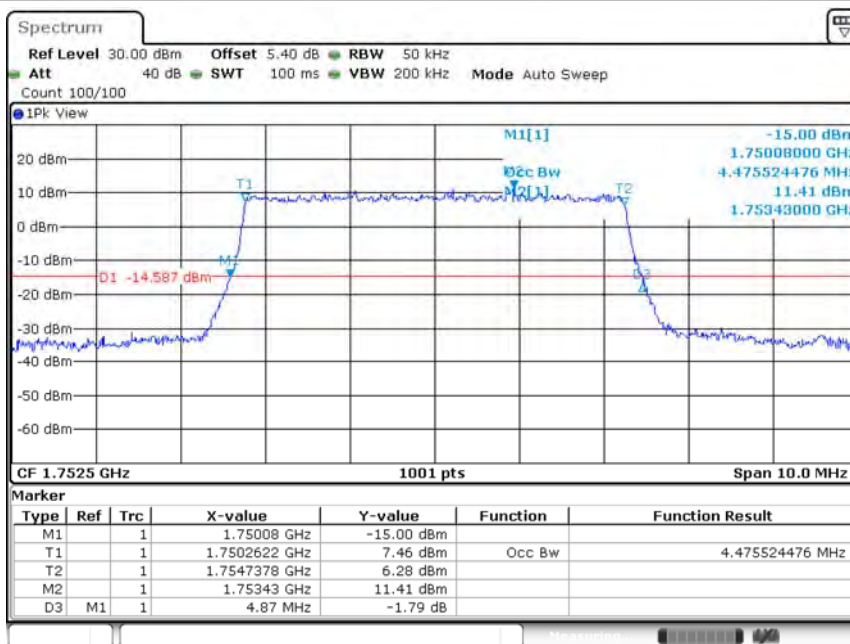
Date: 5.MAY.2021 02:34:50



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.

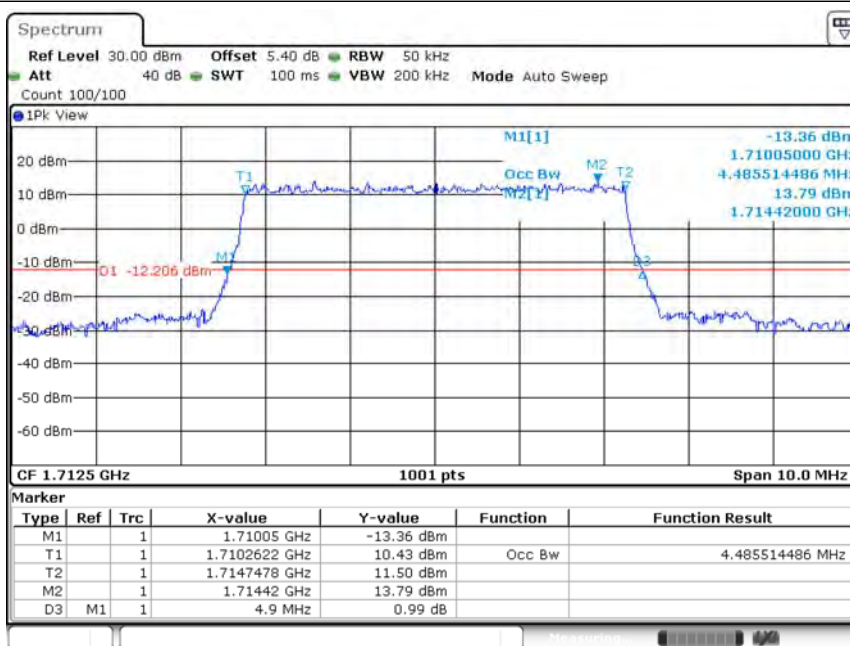
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band4-5MHz-256QAM-20375-25RB#0-4.476



Date: 5.MAY.2021 02:35:10

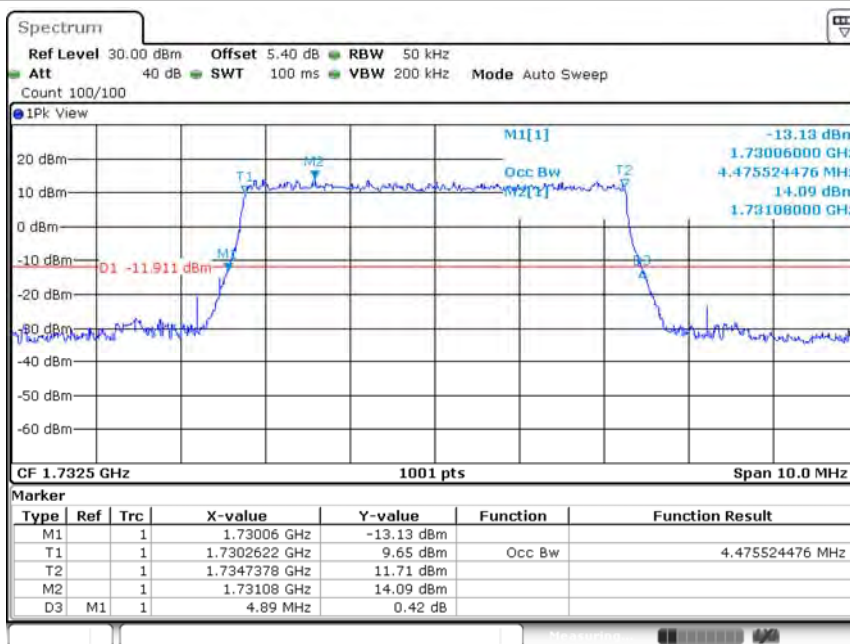
Band4-5MHz-16QAM-19975-25RB#0-4.486



Date: 12.MAY.2021 00:20:20

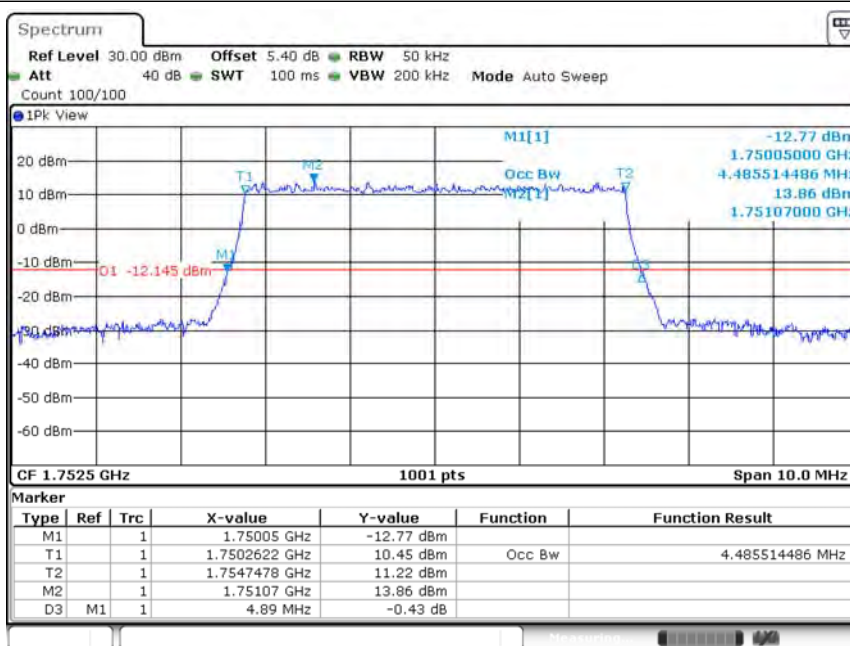


Band4-5MHz-16QAM-20175-25RB#0-4.476



Date: 12.MAY.2021 00:20:59

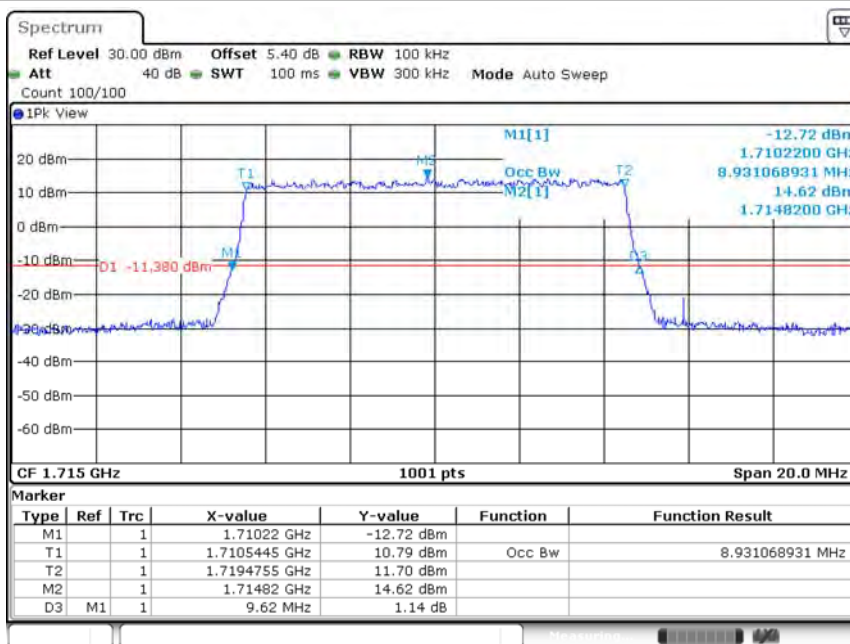
Band4-5MHz-16QAM-20375-25RB#0-4.486



Date: 12.MAY.2021 00:21:39

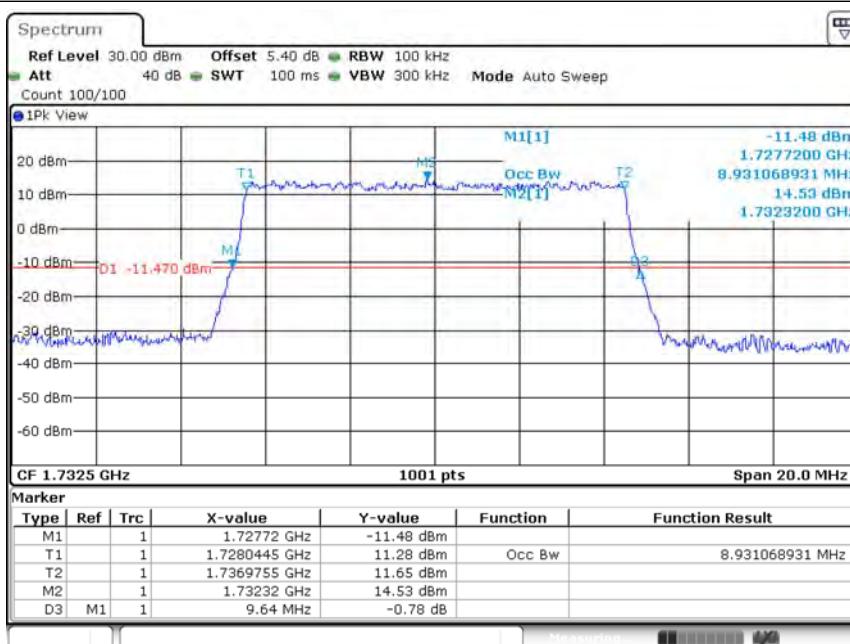


Band4-10MHz-QPSK-20000-50RB#0-8.931



Date: 12.MAY.2021 00:22:05

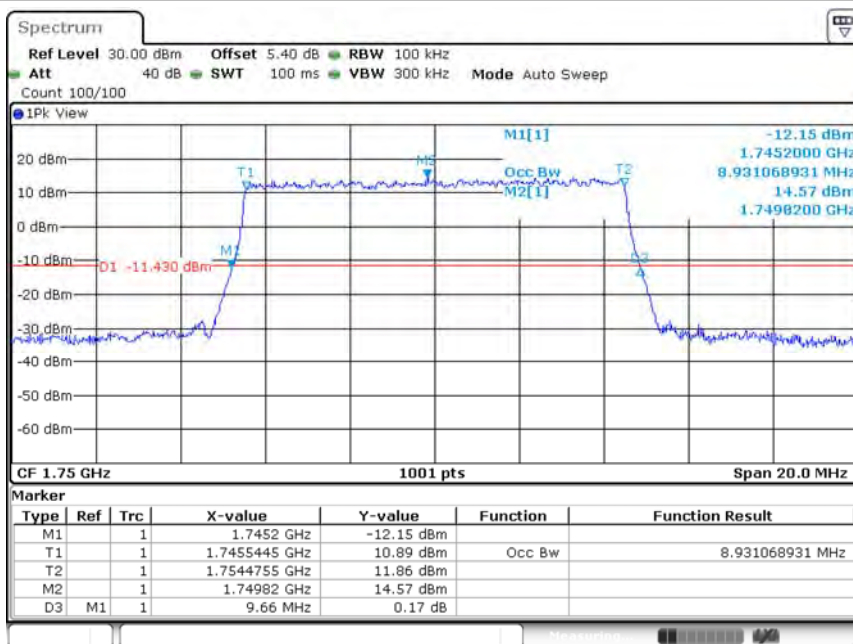
Band4-10MHz-QPSK-20175-50RB#0-8.931



Date: 12.MAY.2021 00:22:44

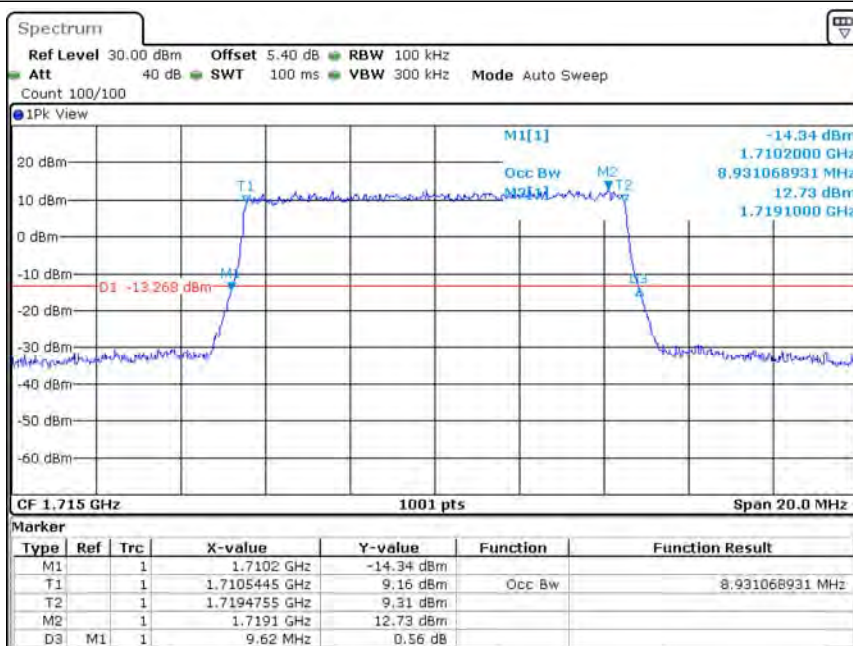


Band4-10MHz-QPSK-20350-50RB#0-8.931



Date: 12 MAY 2021 00:23:24

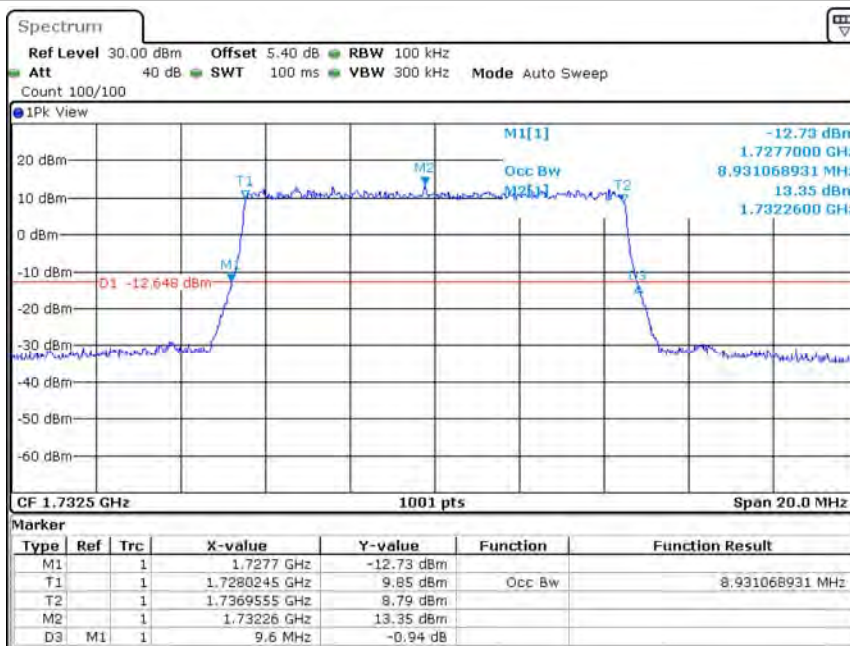
Band4-10MHz-64QAM-20000-50RB#0-8.931



Date: 16 MAY 2021 10:03:13

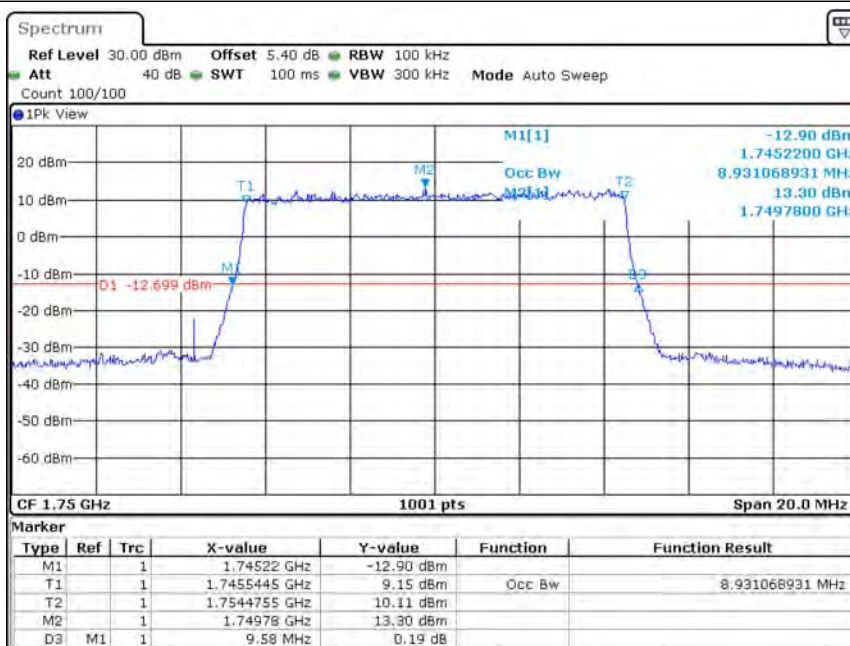


Band4-10MHz-64QAM-20175-50RB#0-8.931



Date: 16 MAY 2021 10:03:32

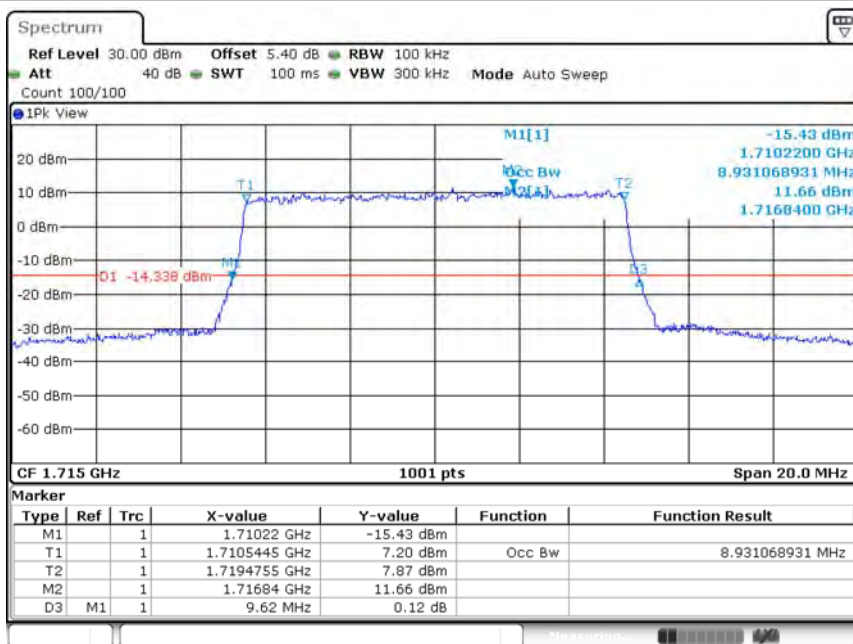
Band4-10MHz-64QAM-20350-50RB#0-8.931



Date: 16 MAY 2021 10:03:52

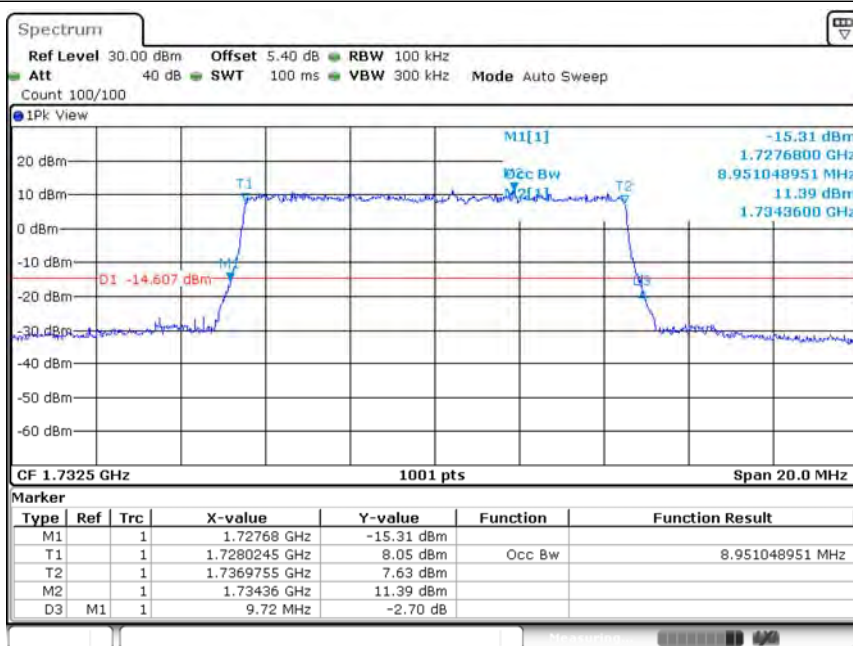


Band4-10MHz-256QAM-20000-50RB#0-8.931



Date: 5.MAY.2021 02:35:35

Band4-10MHz-256QAM-20175-50RB#0-8.951



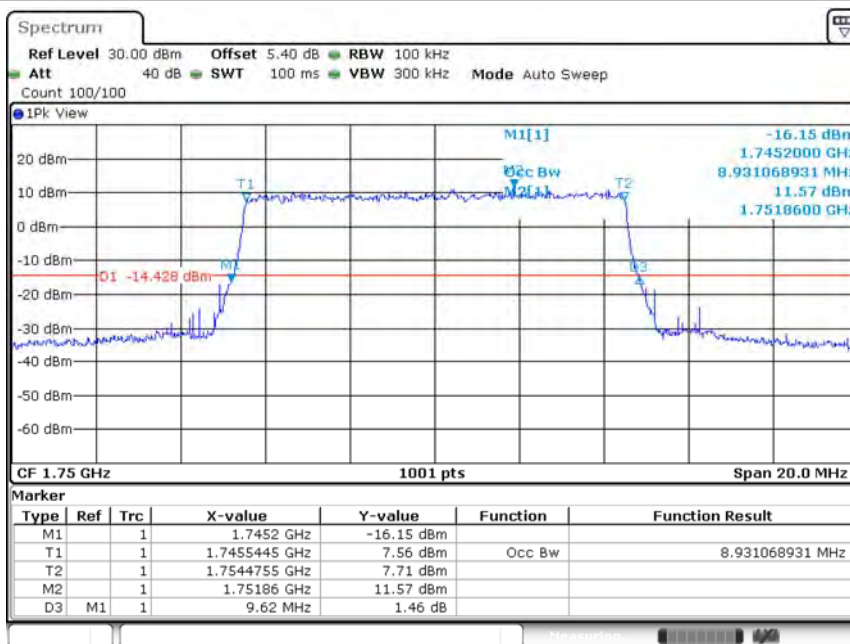
Date: 5.MAY.2021 02:35:55



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.

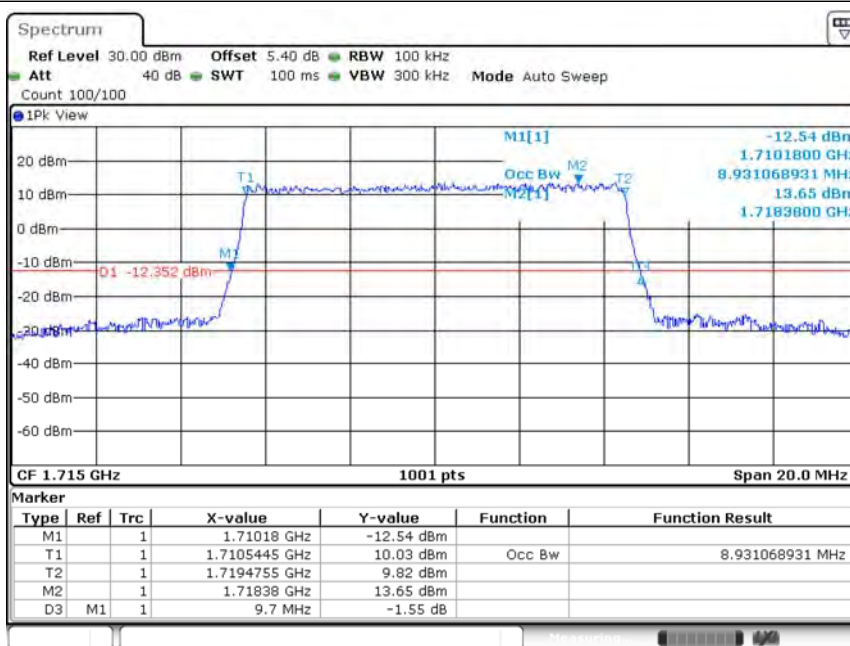
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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-256QAM-20350-50RB#0-8.931



Date: 5.MAY.2021 02:36:15

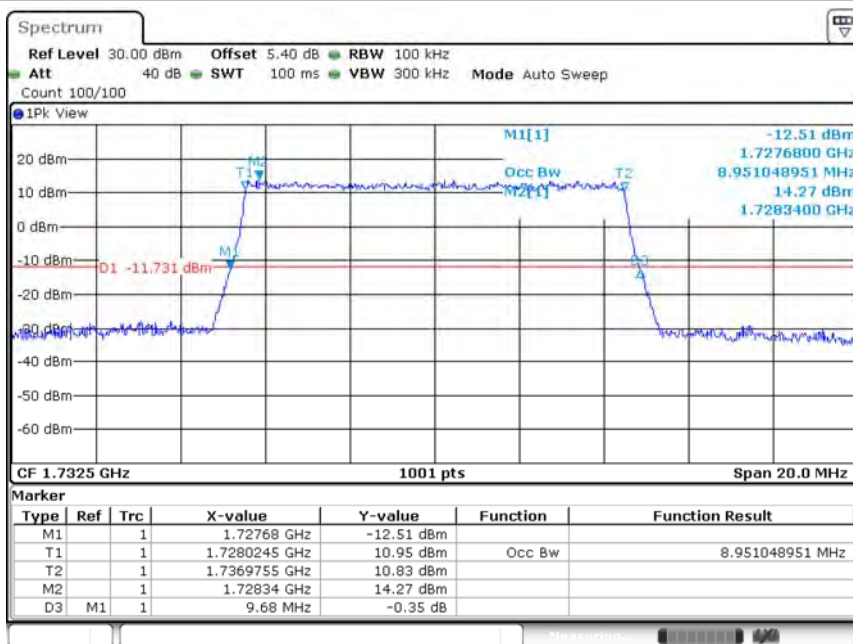
Band4-10MHz-16QAM-20000-50RB#0-8.931



Date: 12.MAY.2021 00:22:24

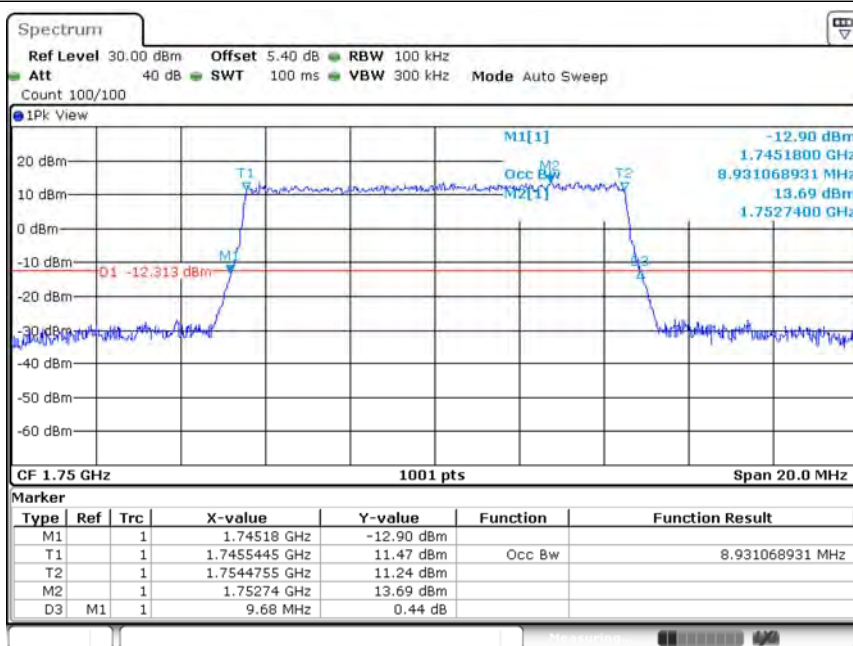


Band4-10MHz-16QAM-20175-50RB#0-8.951



Date: 12.MAY.2021 00:23:04

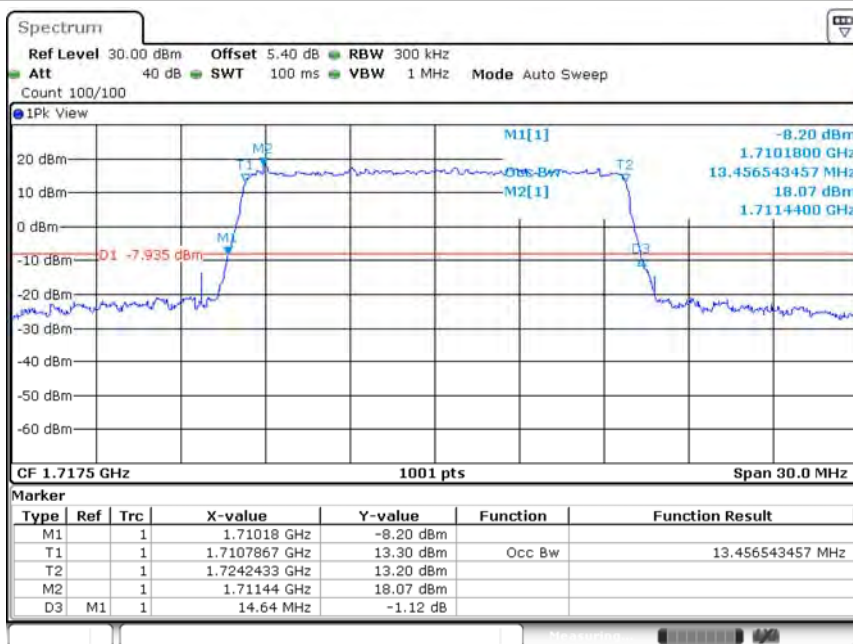
Band4-10MHz-16QAM-20350-50RB#0-8.931



Date: 12.MAY.2021 00:23:43

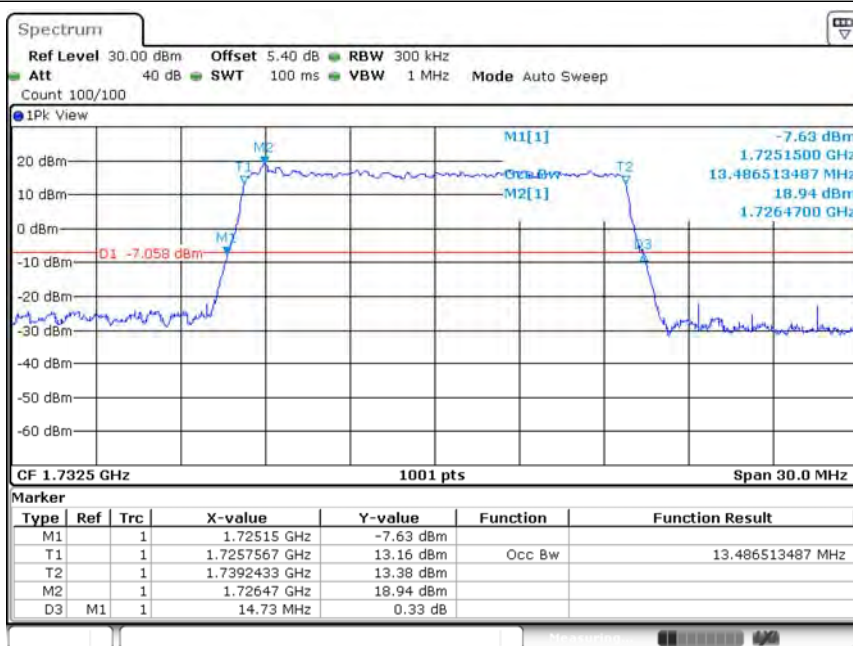


Band4-15MHz-QPSK-20025-75RB#0-13.457



Date: 12.MAY.2021 00:24:09

Band4-15MHz-QPSK-20175-75RB#0-13.487



Date: 12.MAY.2021 00:24:48

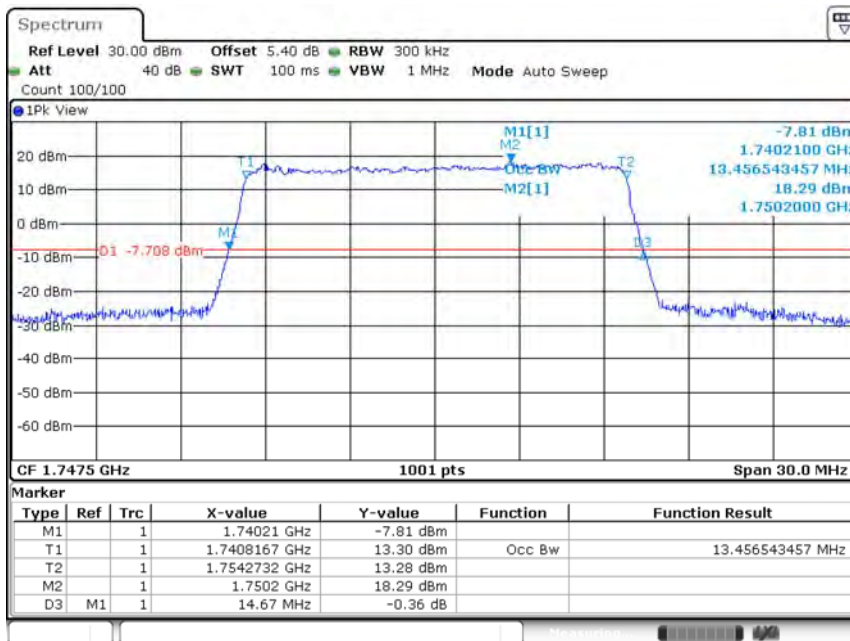


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

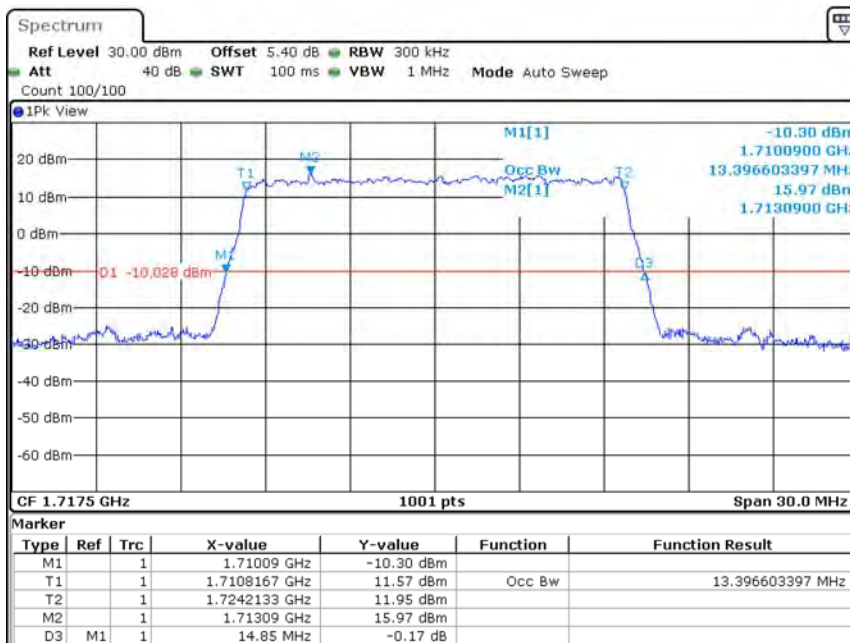
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-15MHz-QPSK-20325-75RB#0-13.457



Date: 12.MAY.2021 00:25:28

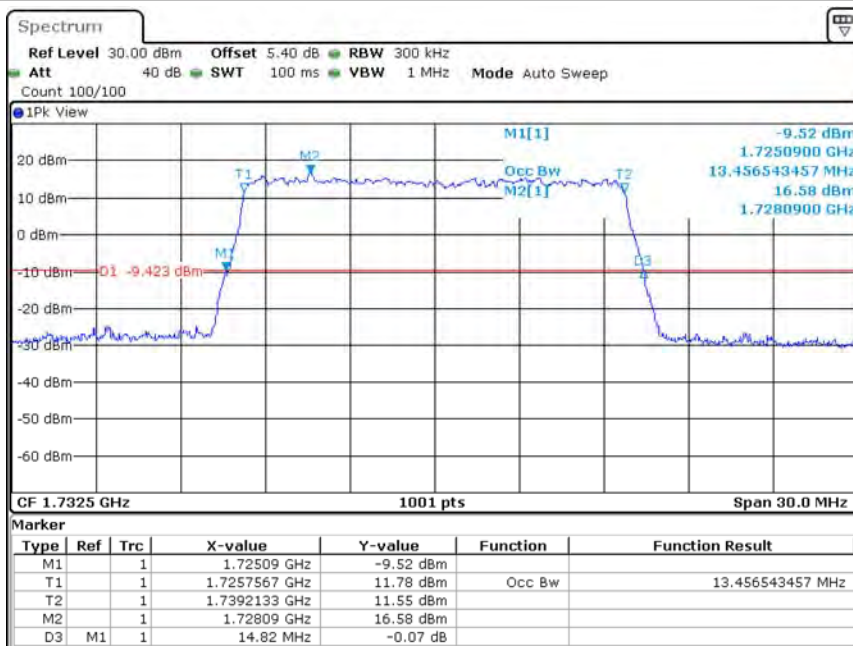
Band4-15MHz-64QAM-20025-75RB#0-13.397



Date: 16.MAY.2021 10:04:19

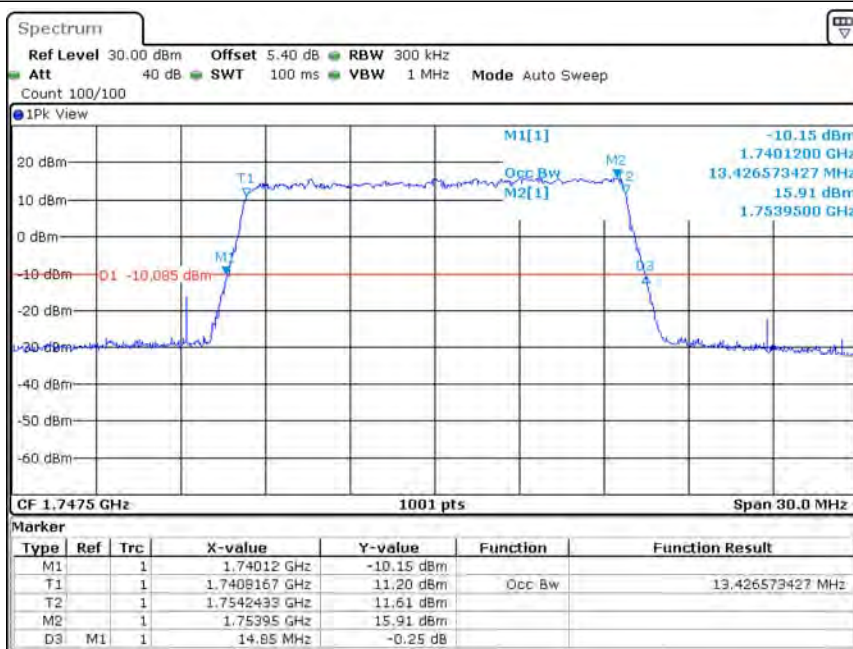


Band4-15MHz-64QAM-20175-75RB#0-13.457



Date: 16 MAY 2021 10:04:39

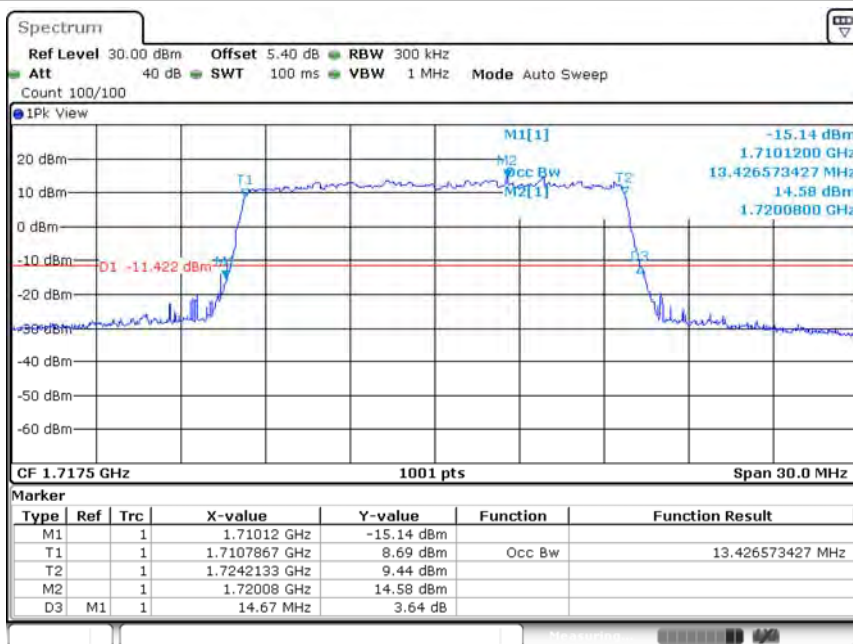
Band4-15MHz-64QAM-20325-75RB#0-13.427



Date: 16 MAY 2021 10:04:59

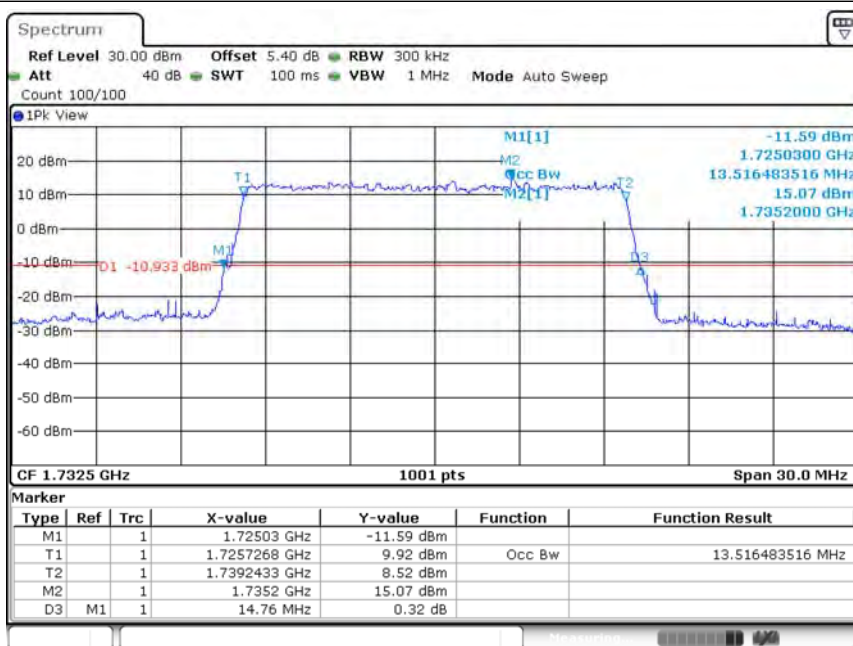


Band4-15MHz-256QAM-20025-75RB#0-13.427



Date: 5.MAY.2021 02:36:40

Band4-15MHz-256QAM-20175-75RB#0-13.516



Date: 5.MAY.2021 02:37:00



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

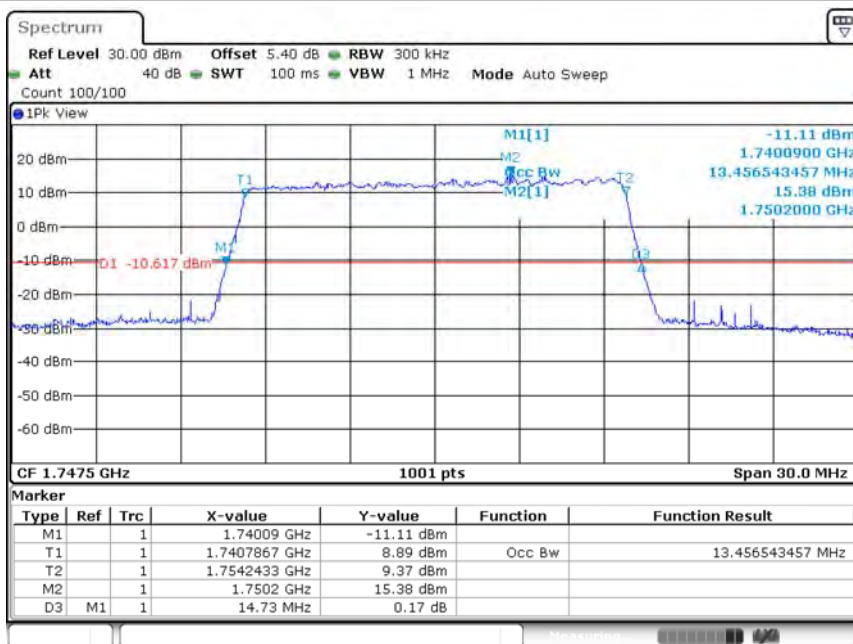
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

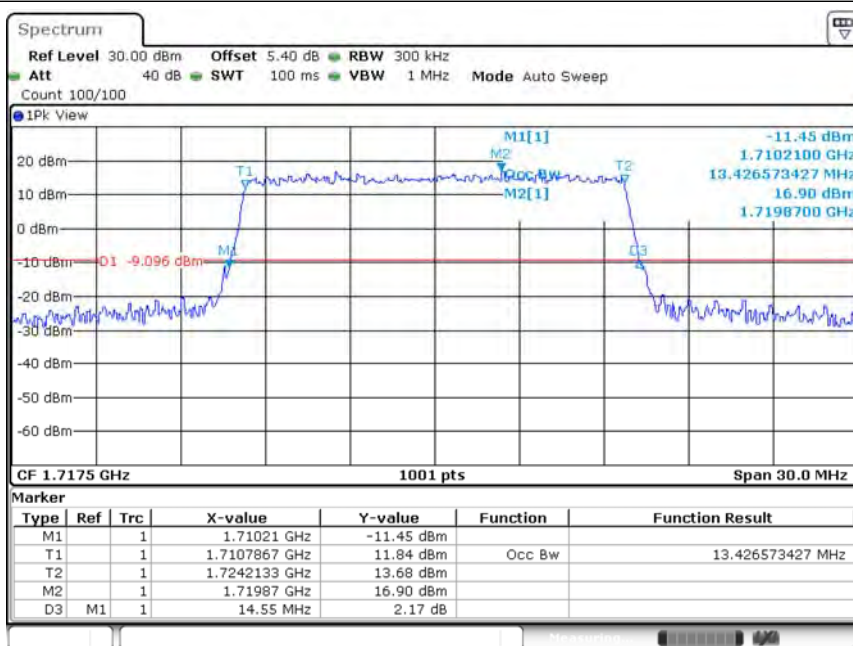
t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-15MHz-256QAM-20325-75RB#0-13.457



Date: 5.MAY.2021 02:37:20

Band4-15MHz-16QAM-20025-75RB#0-13.427



Date: 12.MAY.2021 00:24:28

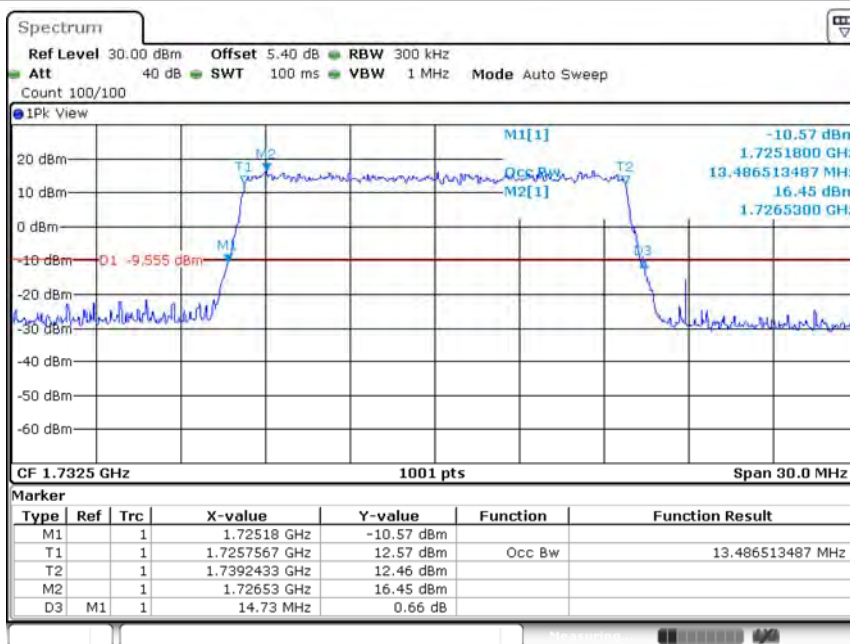


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

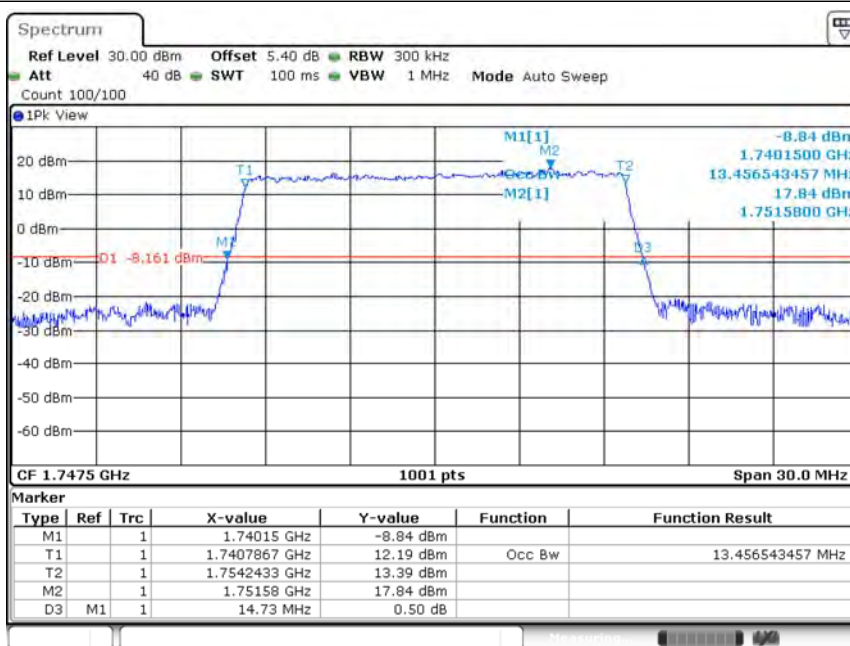
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-15MHz-16QAM-20175-75RB#0-13.487



Date: 12.MAY.2021 00:25:08

Band4-15MHz-16QAM-20325-75RB#0-13.457



Date: 12.MAY.2021 00:25:48

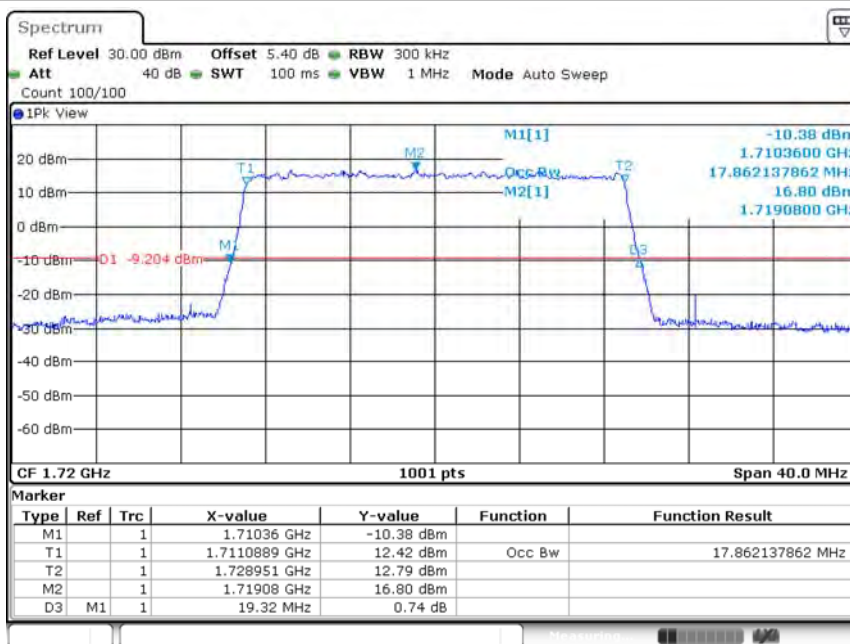


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

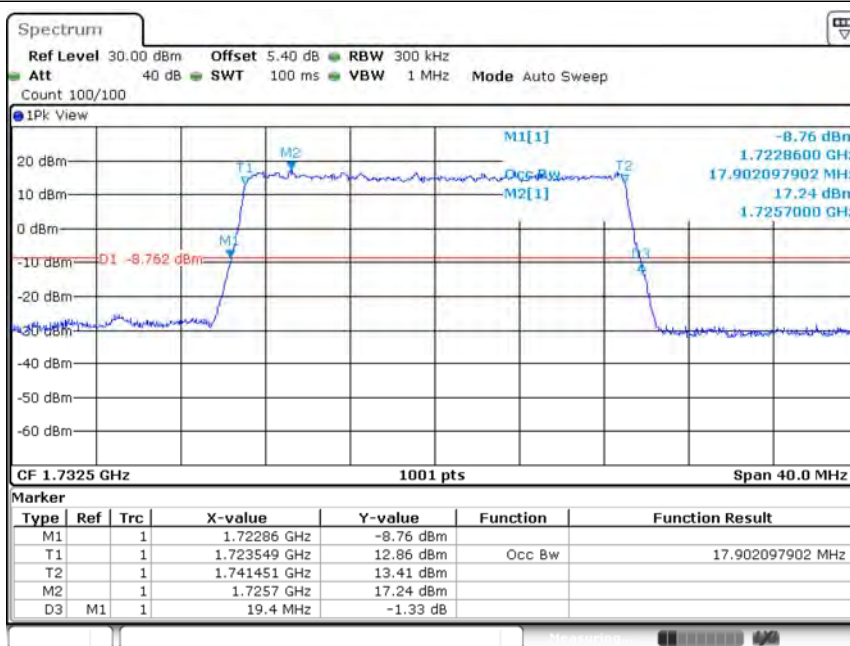
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 12.MAY.2021 00:26:13

Band4-20MHz-QPSK-20175-100RB#0-17.902



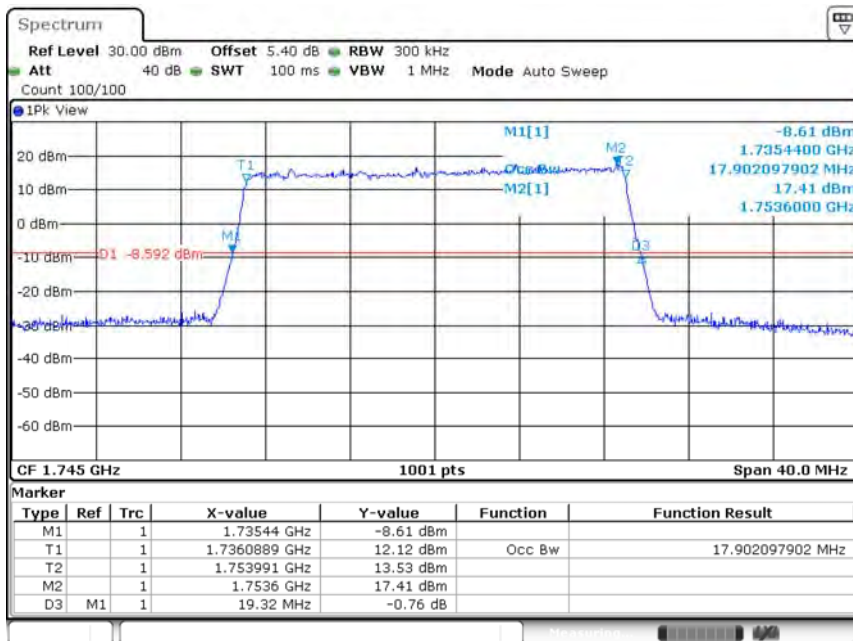
Date: 12.MAY.2021 00:26:53



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.

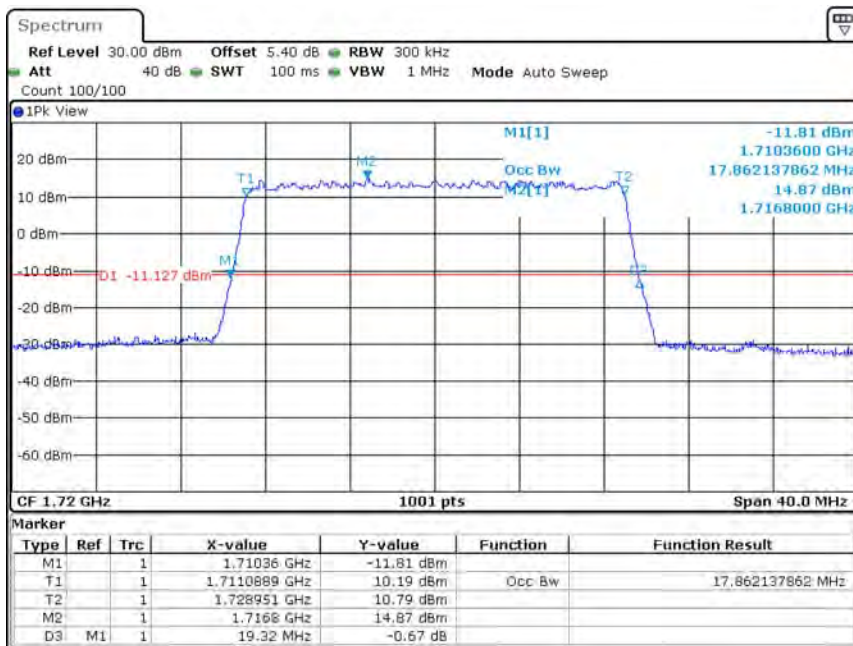
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band4-20MHz-QPSK-20300-100RB#0-17.902



Date: 12 MAY 2021 00:27:32

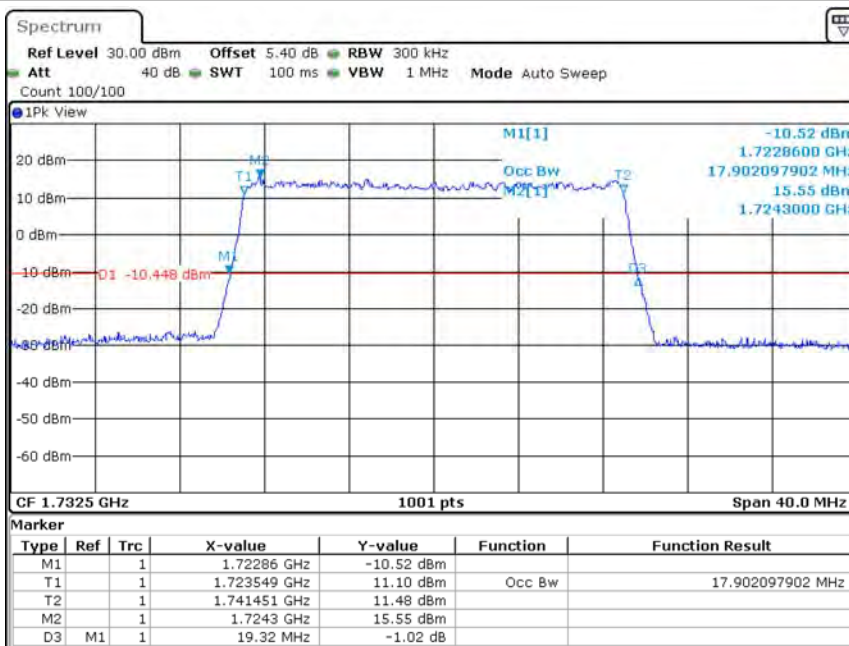
Band4-20MHz-64QAM-20050-100RB#0-17.862



Date: 16 MAY 2021 10:05:26

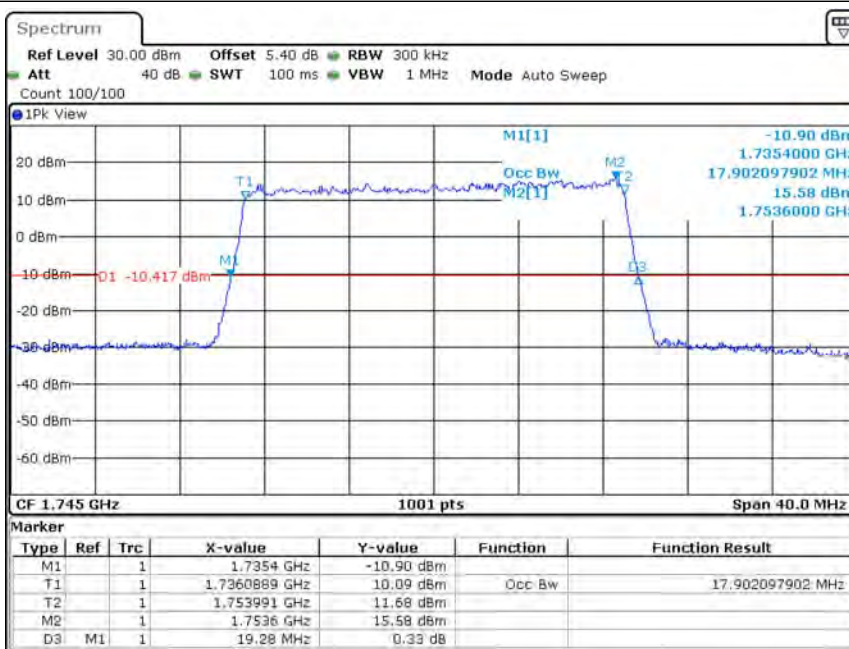


Band4-20MHz-64QAM-20175-100RB#0-17.902



Date: 16 MAY 2021 10:05:45

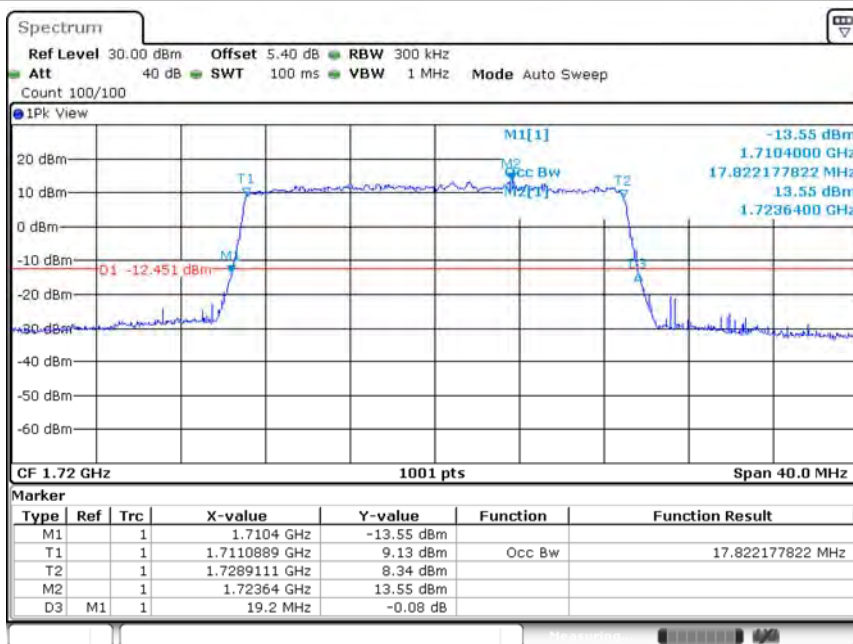
Band4-20MHz-64QAM-20300-100RB#0-17.902



Date: 16 MAY 2021 10:06:05

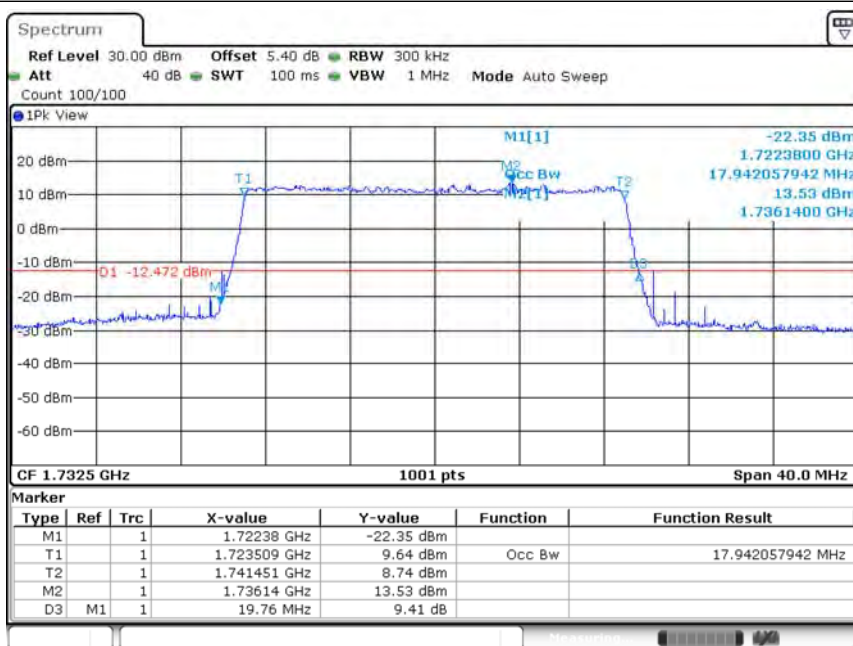


Band4-20MHz-256QAM-20050-100RB#0-17.822



Date: 5.MAY.2021 02:37:45

Band4-20MHz-256QAM-20175-100RB#0-17.942



Date: 5.MAY.2021 02:38:04

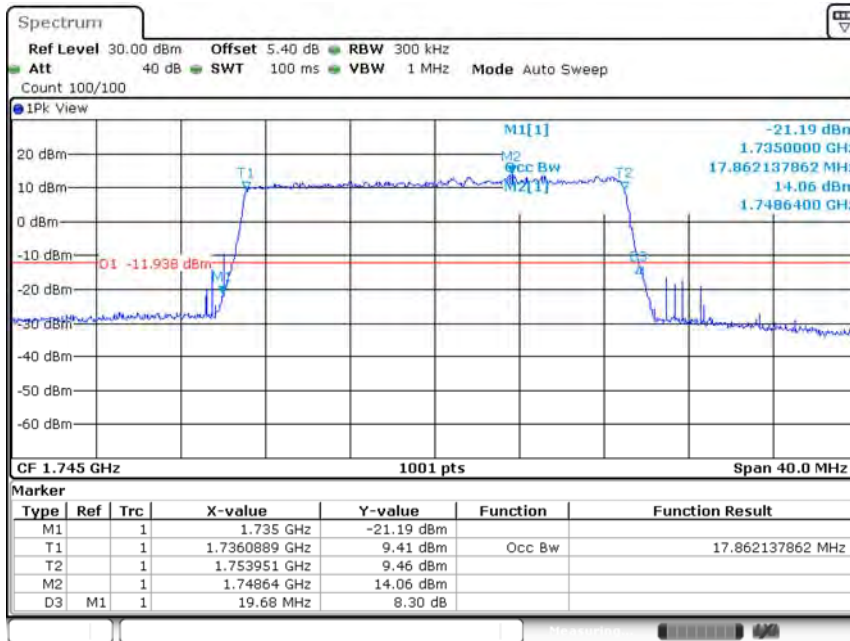


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

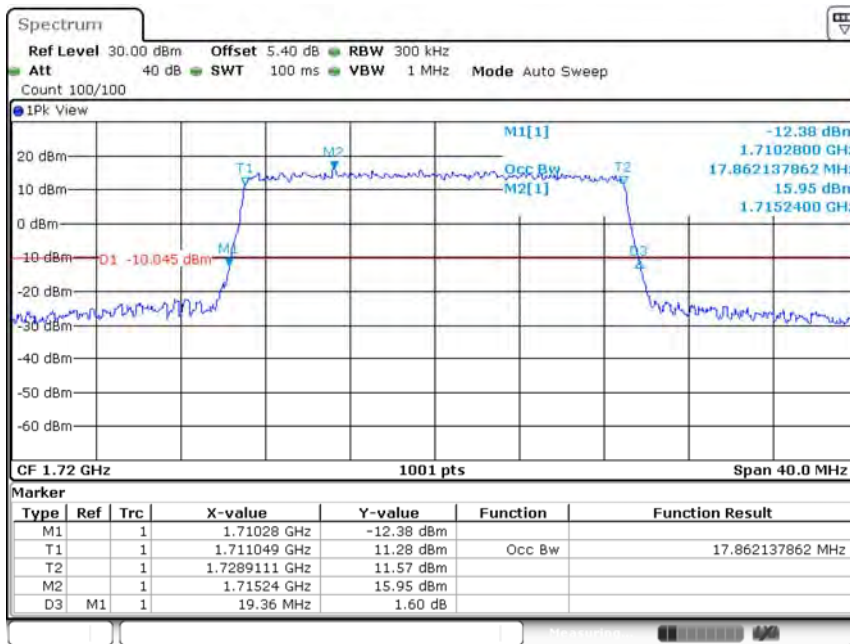
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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-256QAM-20300-100RB#0-17.862



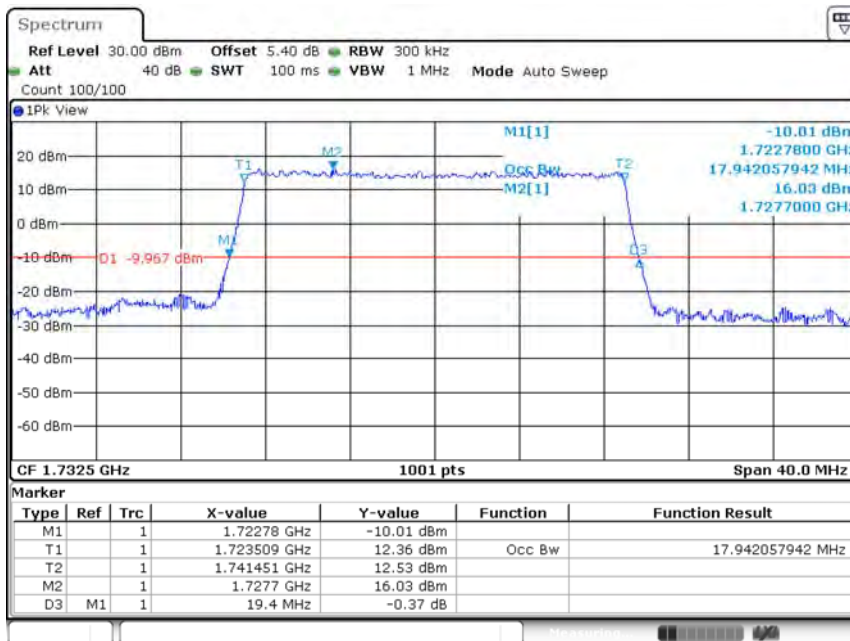
Band4-20MHz-16QAM-20050-100RB#0-17.862



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

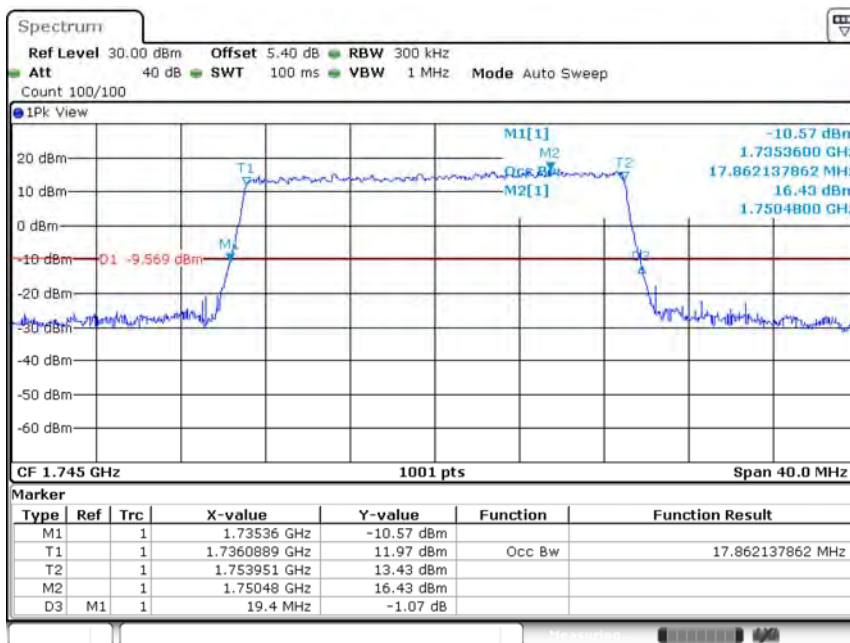
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band4-20MHz-16QAM-20175-100RB#0-17.942



Date: 12.MAY.2021 00:27:12

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

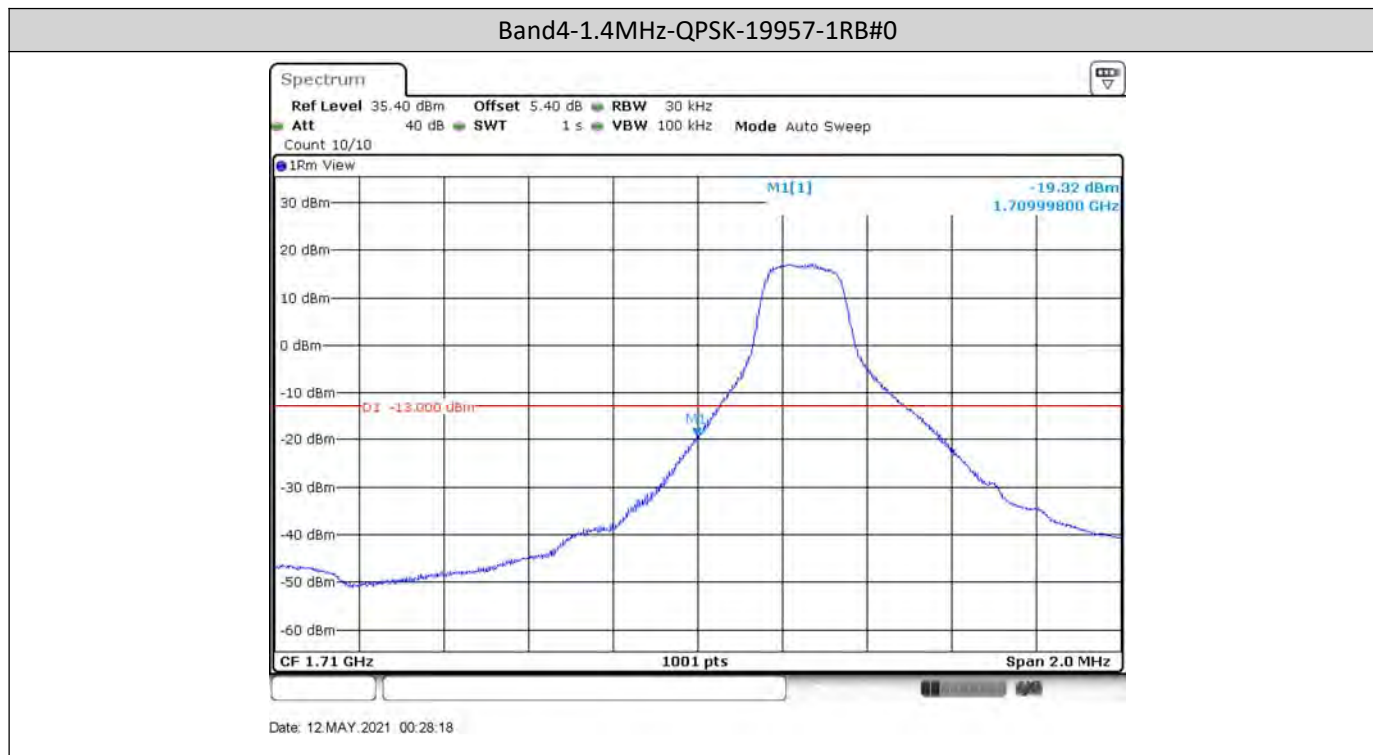


Date: 12.MAY.2021 00:27:52



5. Band Edge Compliance

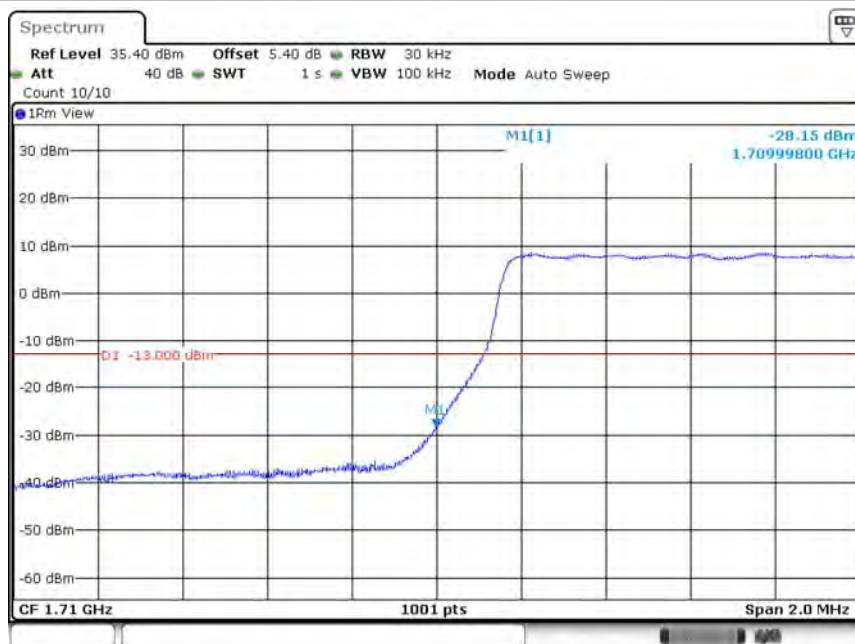
5.1. Test Plots



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

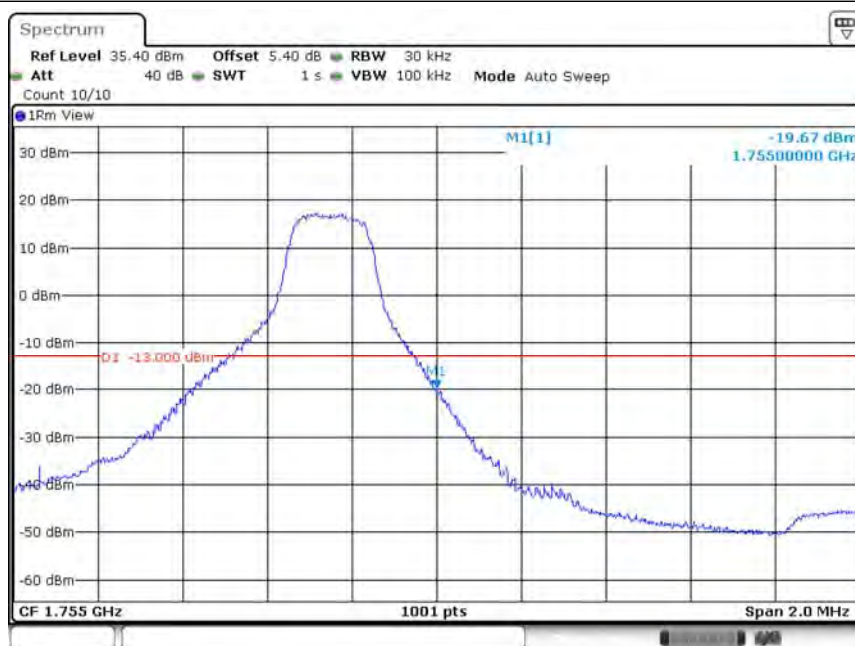
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 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-QPSK-19957-6RB#0



Date: 12 MAY 2021 00:28:59

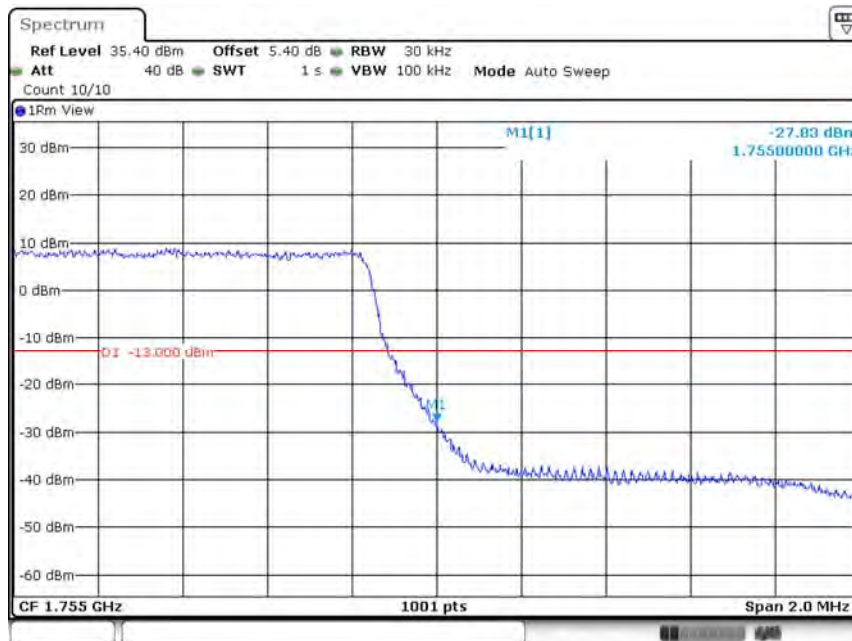
Band4-1.4MHz-QPSK-20393-1RB#5



Date: 12 MAY 2021 00:29:45

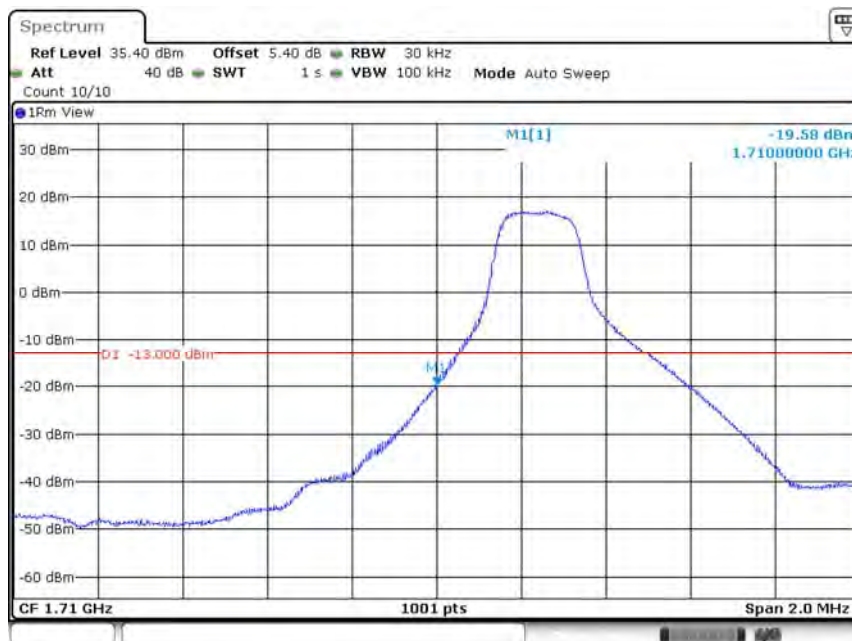


Band4-1.4MHz-QPSK-20393-6RB#0



Date: 12 MAY 2021 00:30:26

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



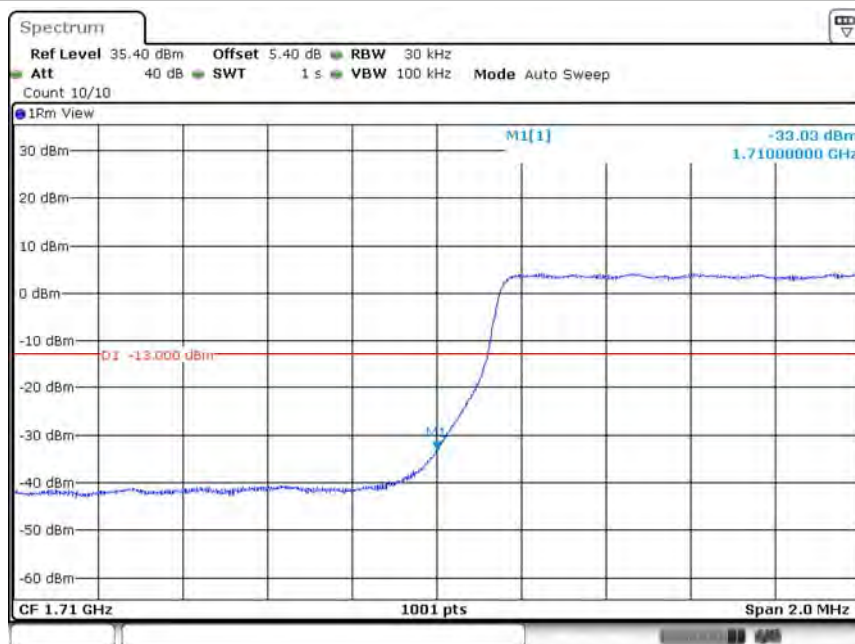
Date: 12 MAY 2021 00:31:13



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

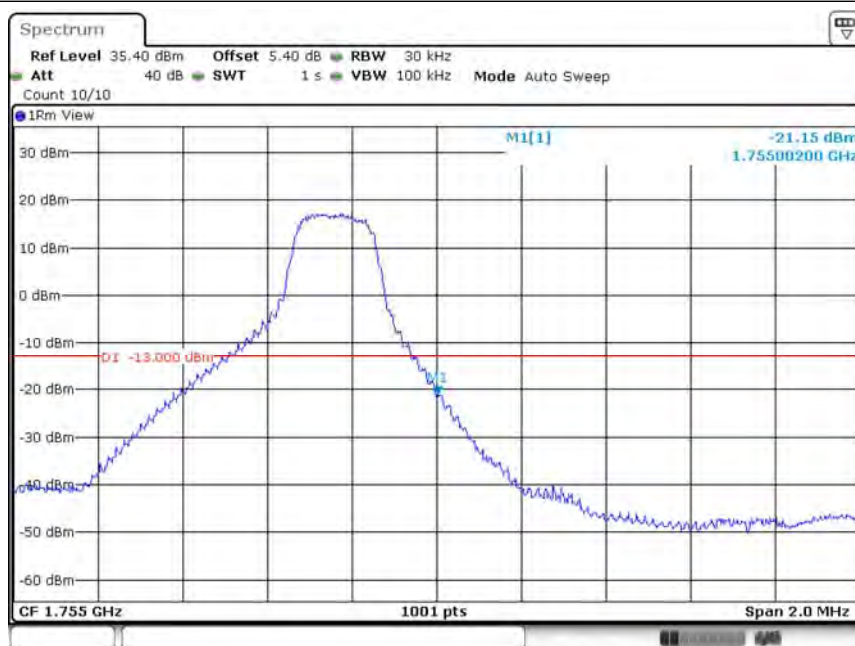
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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-19965-15RB#0



Date: 12 MAY 2021 00:31:54

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



Date: 12 MAY 2021 00:32:39



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



Date: 12 MAY 2021 00:33:20

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



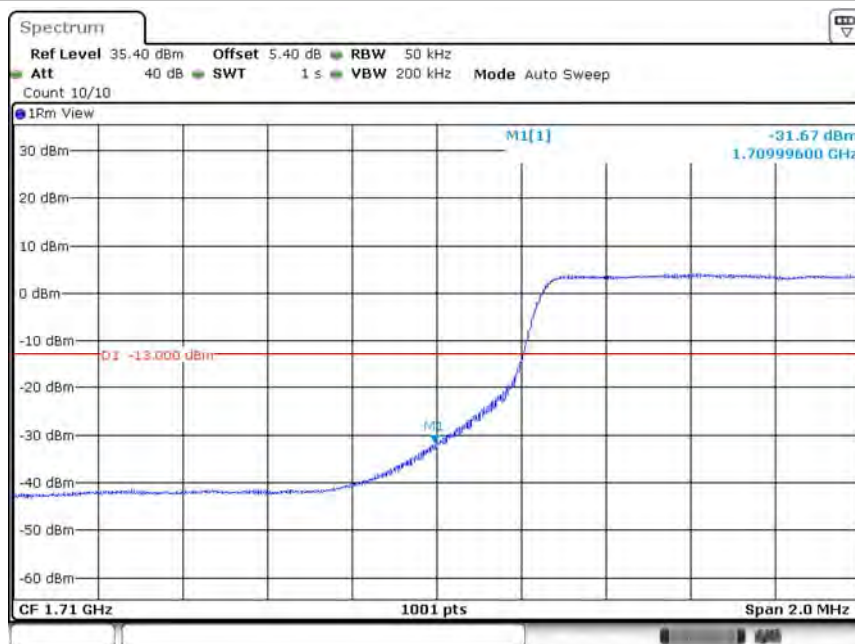
Date: 12 MAY 2021 00:34:07



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.

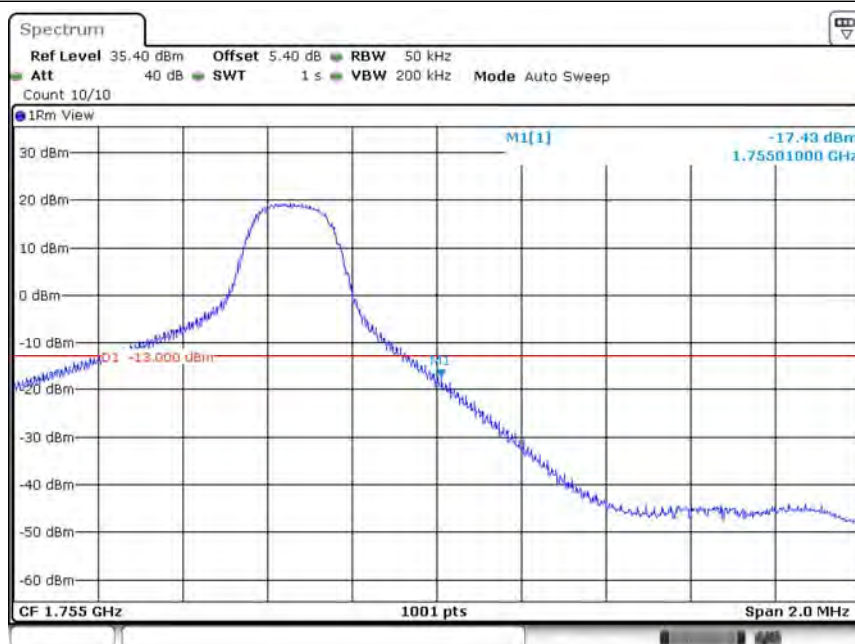
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

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



Date: 12 MAY 2021 00:34:48

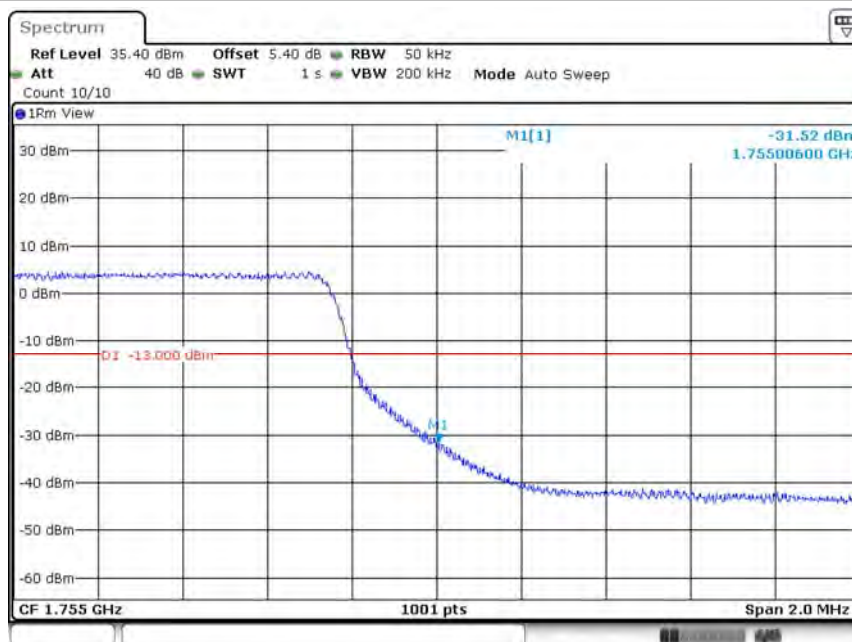
Band4-5MHz-QPSK-20375-1RB#24



Date: 12 MAY 2021 00:35:33



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



Date: 12 MAY 2021 00:36:14

Band4-10MHz-QPSK-20000-1RB#0



Date: 12 MAY 2021 00:37:01



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-20000-50RB#0



Date: 12 MAY 2021 00:37:42

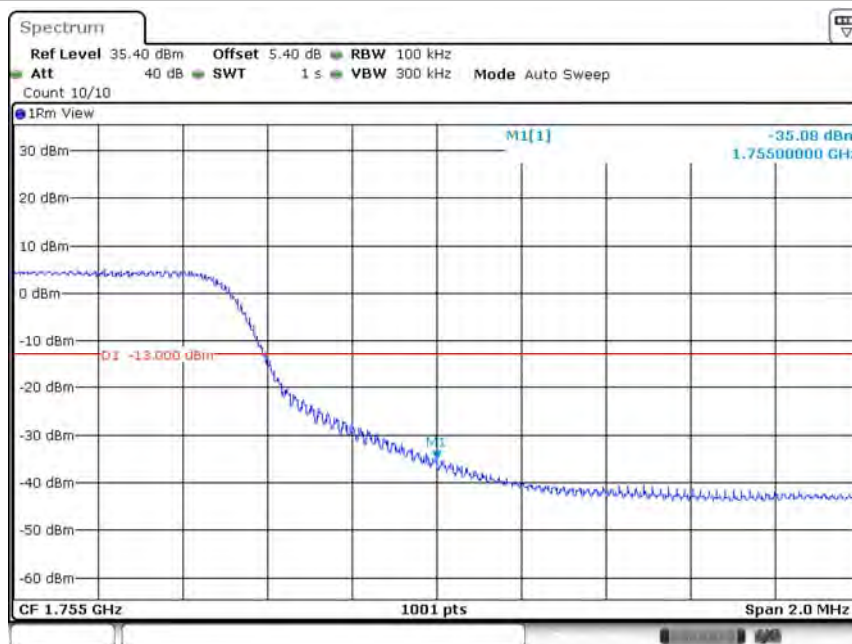
Band4-10MHz-QPSK-20350-1RB#49



Date: 12 MAY 2021 00:38:27



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



Date: 12 MAY 2021 00:39:08

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



Date: 12 MAY 2021 00:39:55



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-QPSK-20025-75RB#0



Date: 12 MAY 2021 00:40:36

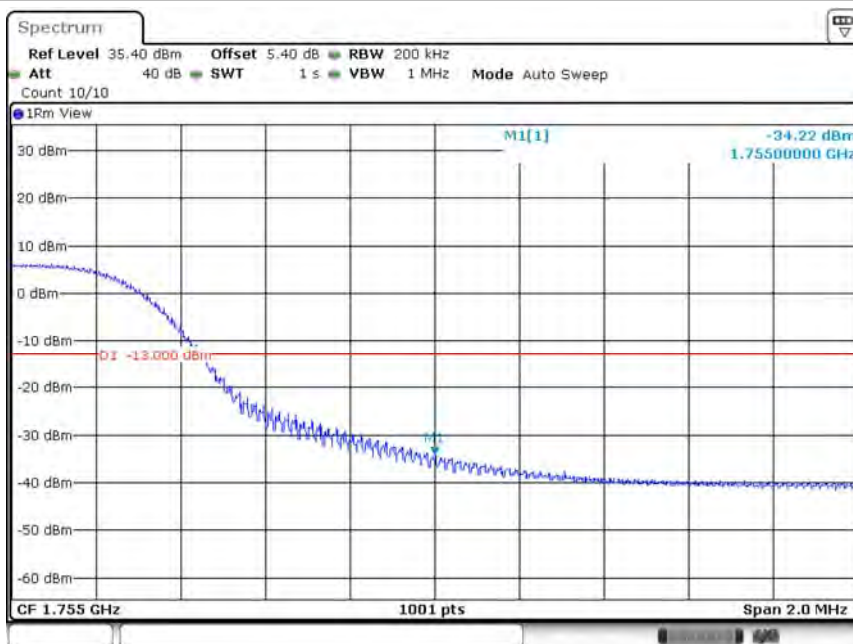
Band4-15MHz-QPSK-20325-1RB#74



Date: 12 MAY 2021 00:41:21

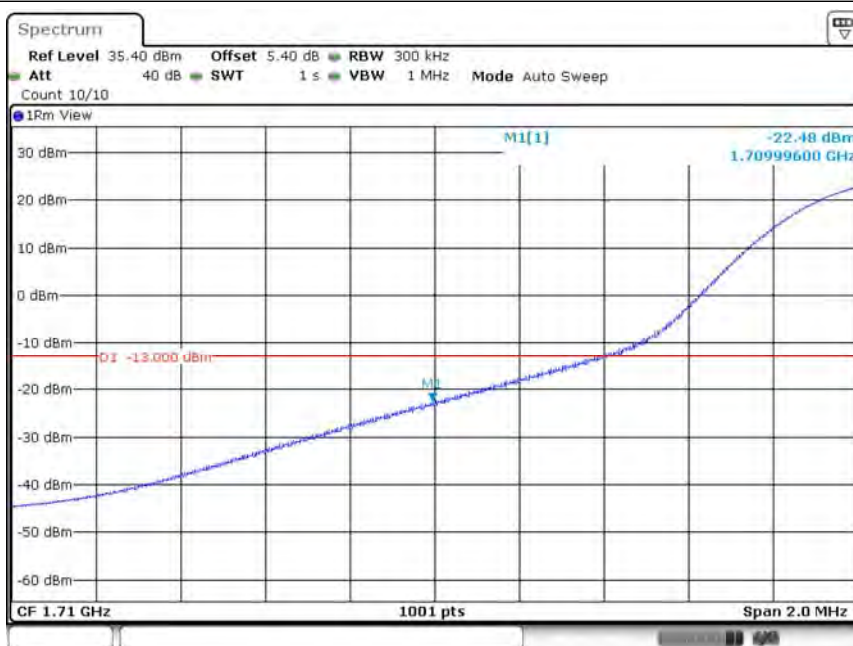


Band4-15MHz-QPSK-20325-75RB#0



Date: 12 MAY 2021 00:42:02

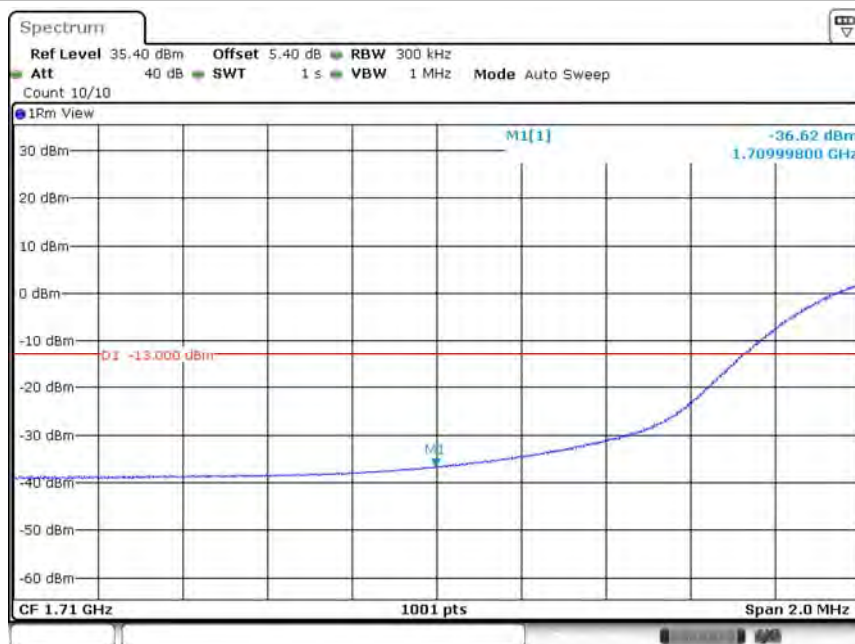
Band4-20MHz-QPSK-20050-1RB#0



Date: 12 MAY 2021 00:42:48

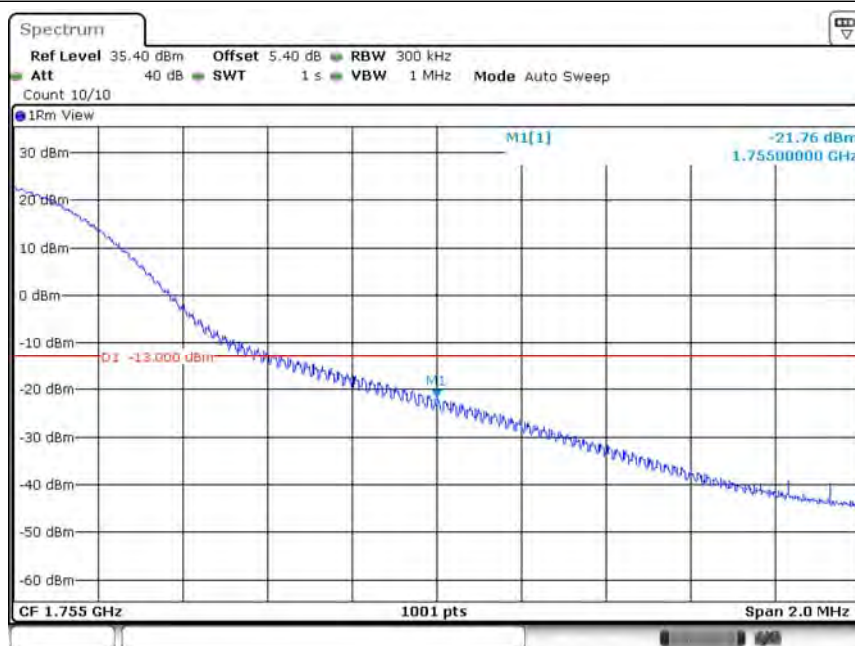


Band4-20MHz-QPSK-20050-100RB#0



Date: 12 MAY 2021 00:43:29

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



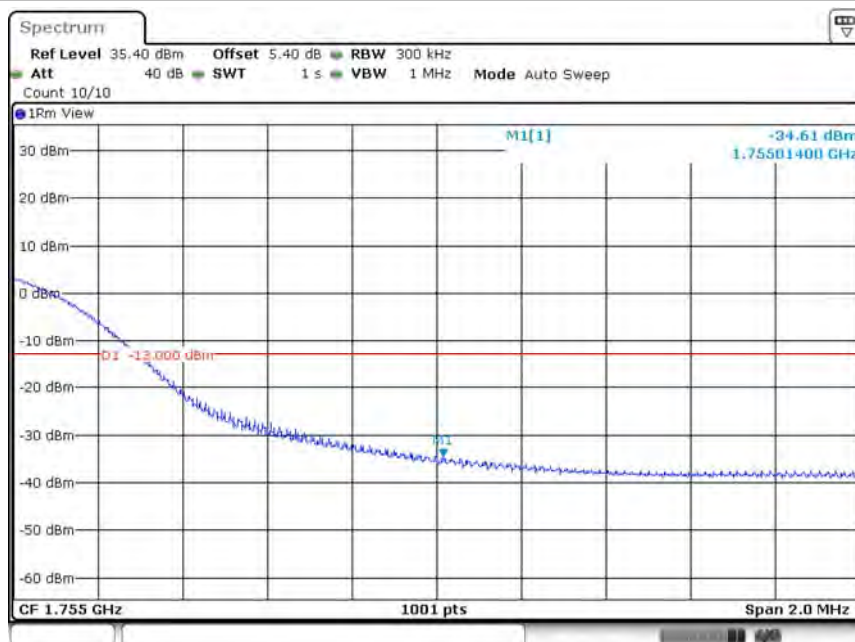
Date: 12 MAY 2021 00:44:15



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-QPSK-20300-100RB#0



Date: 12 MAY 2021 00:44:56



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

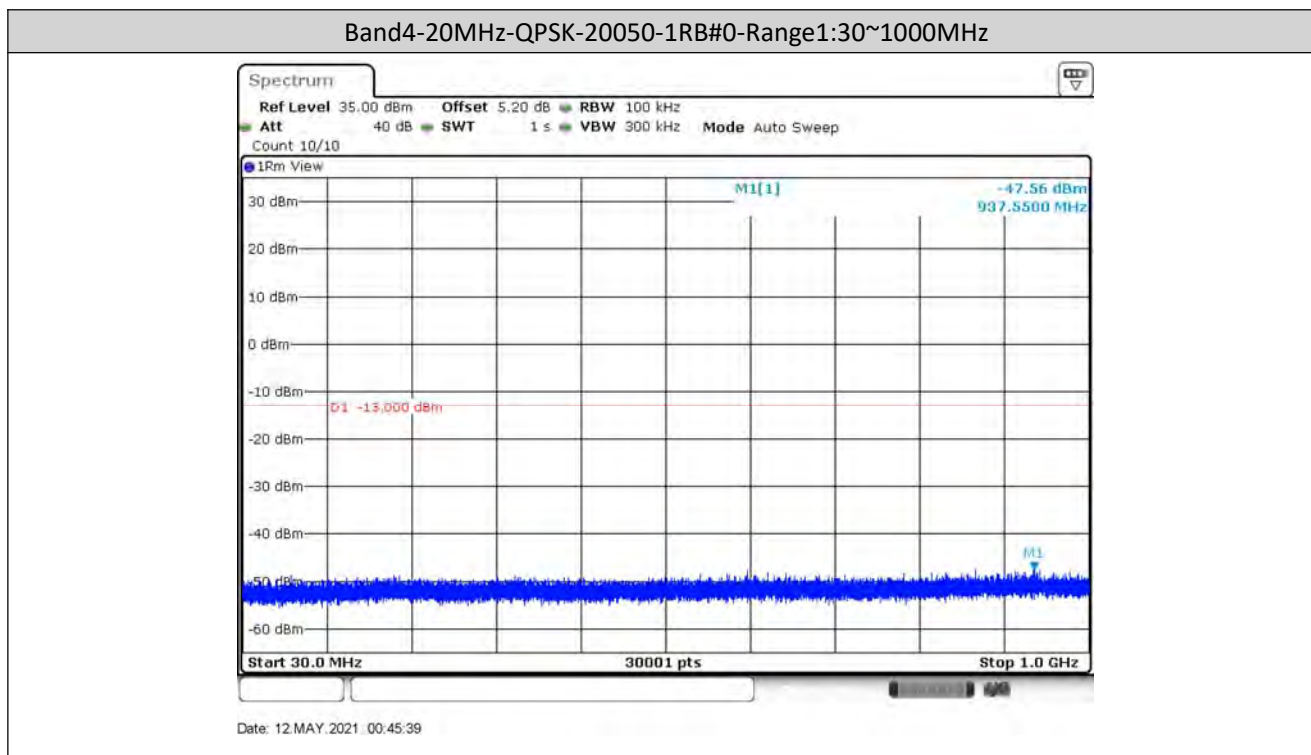
6. Spurious Emission at Antenna Terminal

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 = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

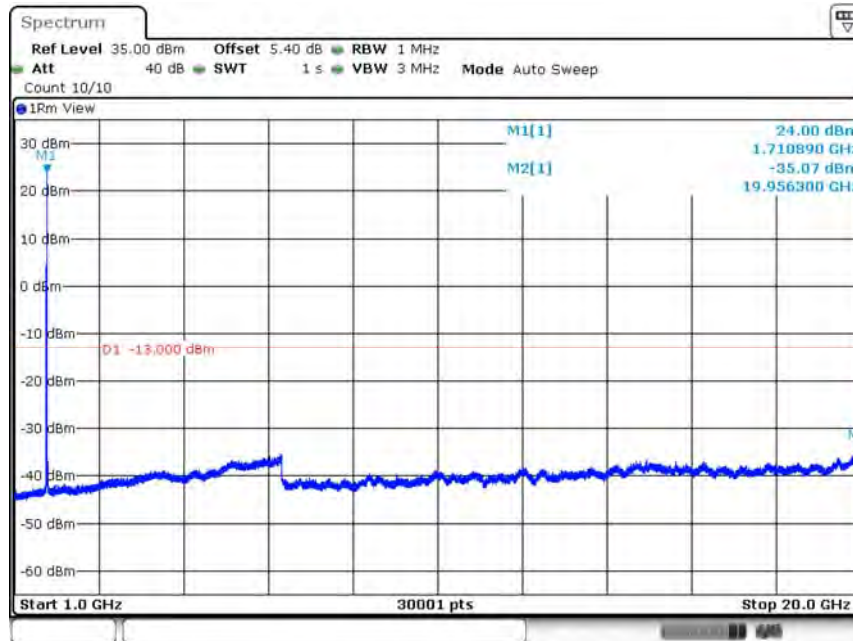
Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: 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 had been displayed.

6.1. Test Plots

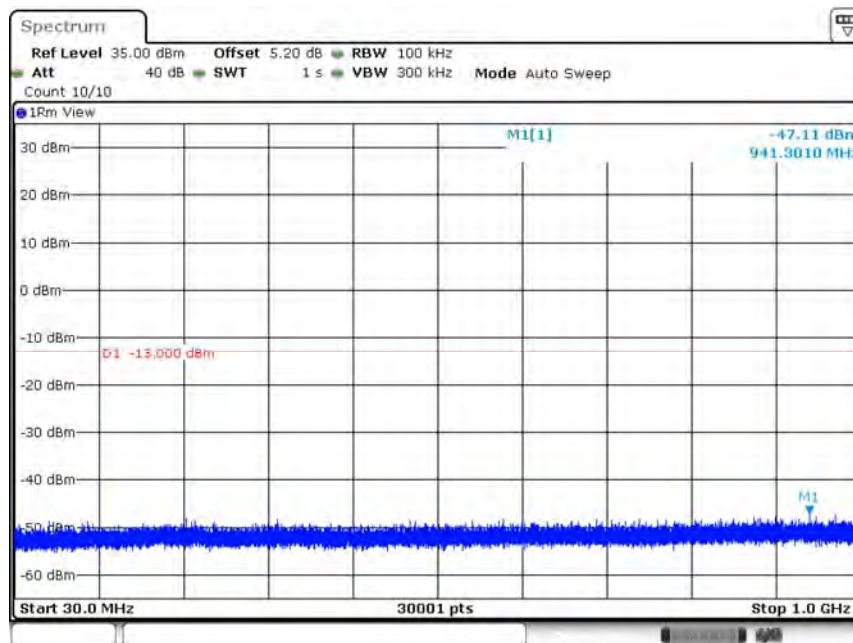


Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



Date: 12.MAY.2021 00:45:56

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



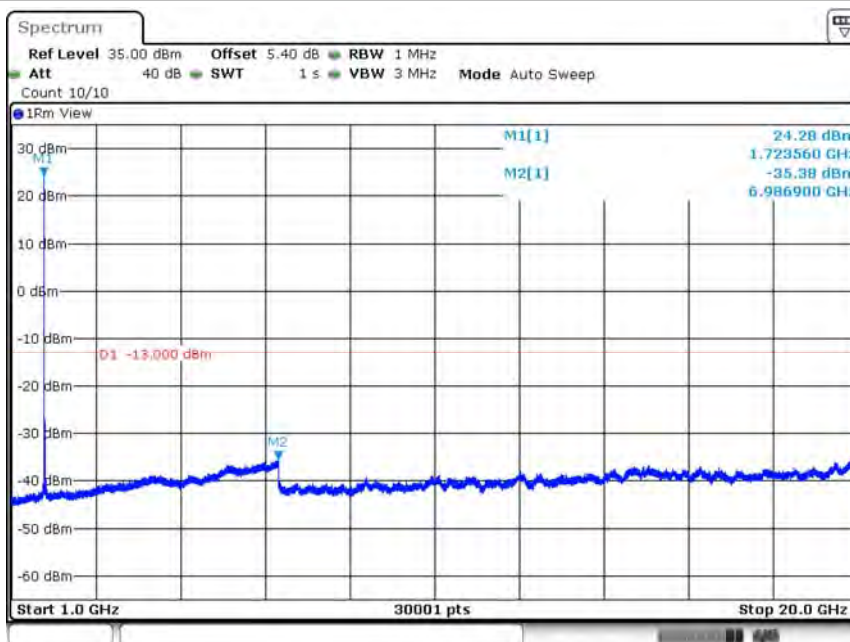
Date: 12.MAY.2021 00:46:49



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.

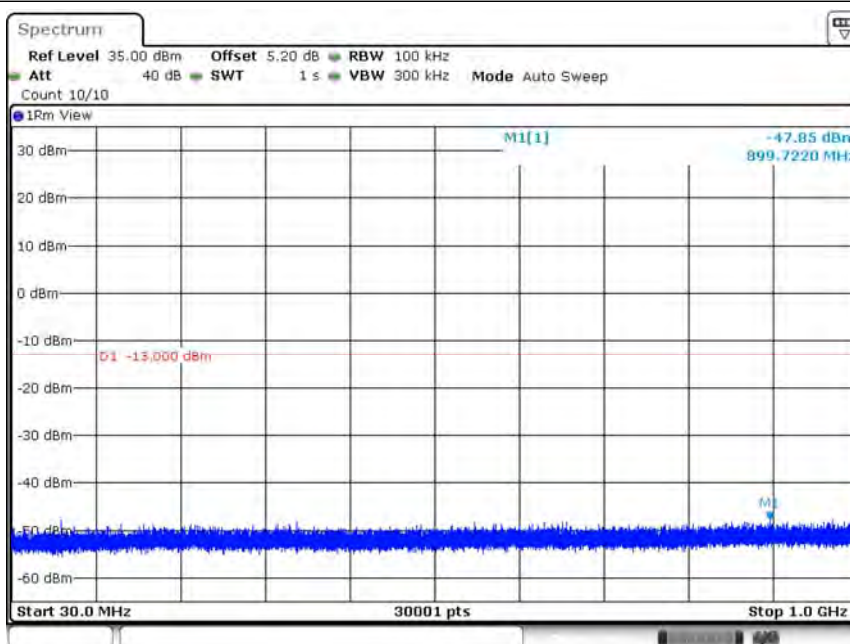
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

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



Date: 12.MAY.2021 00:47:06

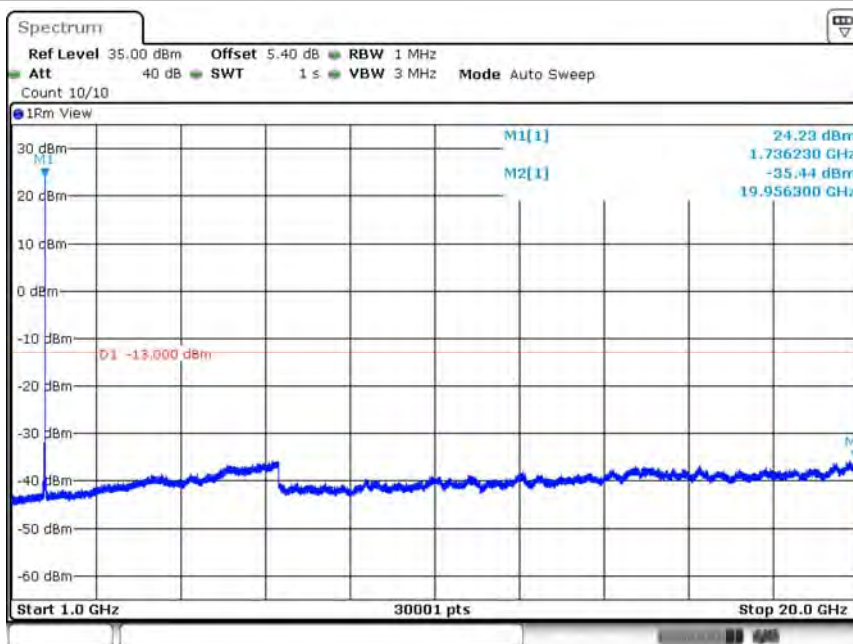
Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



Date: 12.MAY.2021 00:48:00



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



Date: 12.MAY.2021 00:48:16



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (200000) 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 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. Field Strength of Spurious Radiation

7.1. Test Band = Band 4

7.1.1. Test Channel = Low Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1532.1266	27.39	-42.54	-13.00	29.54	Horizontal
2	2995.0998	30.12	-34.49	-13.00	21.49	Horizontal
3	4278.8139	51.25	-61.51	-13.00	48.51	Horizontal
4	5658.1329	49.20	-58.11	-13.00	45.11	Horizontal
5	10437.371	45.91	-51.29	-13.00	38.29	Horizontal
6	17986.499	47.10	-46.50	-13.00	33.50	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



7.2. Test Band = Band 4

7.2.1. Test Channel = Low Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1259.6130	27.23	-43.10	-13.00	30.10	Vertical
2	2656.6828	30.43	-35.73	-13.00	22.73	Vertical
3	4531.5766	52.65	-59.18	-13.00	46.18	Vertical
4	7968.9985	50.45	-51.49	-13.00	38.49	Vertical
5	13358.767	45.51	-47.24	-13.00	34.24	Vertical
6	17951.997	46.20	-46.68	-13.00	33.68	Vertical



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

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



7.3. Test Band = Band 4

7.3.1. Test Channel = Mid Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1172.1086	27.30	-43.00	-13.00	30.00	Horizontal
2	1723.6362	100.45	30.30	-13.00	-43.30	Horizontal
3	2636.0818	30.33	-35.96	-13.00	22.96	Horizontal
4	3974.2987	51.22	-62.51	-13.00	49.51	Horizontal
5	6530.4265	48.14	-56.85	-13.00	43.85	Horizontal
6	17987.249	47.46	-46.15	-13.00	33.15	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

7.4. Test Band = Band 4**7.4.1. Test Channel = Mid Channel**

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.7278	27.76	-42.53	-13.00	29.53	Vertical
2	2998.0999	29.34	-35.17	-13.00	22.17	Vertical
3	4480.5740	51.39	-60.45	-13.00	47.45	Vertical
4	5571.8786	49.33	-58.58	-13.00	45.58	Vertical
5	12430.971	45.06	-48.85	-13.00	35.85	Vertical
6	17997.749	47.43	-46.40	-13.00	33.40	Vertical



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

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



7.5. Test Band = Band 4

7.5.1. Test Channel = High Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1265.4133	27.57	-42.93	-13.00	29.93	Horizontal
2	2748.2874	29.85	-35.89	-13.00	22.89	Horizontal
3	4317.8159	51.12	-61.68	-13.00	48.68	Horizontal
4	6339.1670	48.14	-57.71	-13.00	44.71	Horizontal
5	9965.5983	46.29	-51.92	-13.00	38.92	Horizontal
6	17926.496	46.79	-46.12	-13.00	33.12	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



7.6. Test Band = Band 4

7.6.1. Test Channel = High Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.2203	29.23	-41.13	-13.00	28.13	Vertical
2	2680.2840	29.85	-36.20	-13.00	23.20	Vertical
3	4843.5922	51.53	-58.94	-13.00	45.94	Vertical
4	7968.9985	50.23	-51.71	-13.00	38.71	Vertical
5	11219.6610	46.24	-49.49	-13.00	36.49	Vertical
6	17928.746	46.64	-46.26	-13.00	33.26	Vertical

Remark:

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



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



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	-1.80	-0.001047	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-0.80	-0.000465	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	0.50	0.000291	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-2.80	-0.001616	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	4.20	0.002424	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-5.90	-0.003405	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-5.40	-0.003095	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-0.50	-0.000287	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	6.10	0.003496	±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, 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



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	4.40	0.002558	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	3.40	0.001977	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	6.20	0.003605	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-0.10	-0.000058	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	4.10	0.002384	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	6.10	0.003547	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	2.80	0.001628	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	1.90	0.001105	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	3.50	0.002035	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	7.20	0.004156	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	3.30	0.001905	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	7.70	0.004444	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	4.50	0.002597	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-1.60	-0.000924	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-0.60	-0.000346	±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	2.50	0.001443	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	4.20	0.002407	±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	-10	6.00	0.003438	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	5.50	0.003152	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	6.50	0.003725	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	1.30	0.000745	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-2.40	-0.001375	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	11.80	0.006762	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	6.20	0.003553	±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