



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	3
1.1. TEST RESULT	3
2. PEAK-TO-AVERAGE RATIO (CCDF).....	15
2.1. TEST RESULT	15
2.2. TEST PLOTS.....	15
3. MODULATION CHARACTERISTICS.....	20
3.1. TEST MODE = LTE /TM1 20MHZ	20
3.1.1. TEST CHANNEL = MCH	20
3.2. TEST MODE = LTE /TM2 20MHZ	21
3.2.1. TEST CHANNEL = MCH	21
3.3. TEST MODE = LTE /TM3 20MHZ	22
3.3.1. TEST CHANNEL = MCH	22
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH	23
4.1. TEST RESULT	23
4.2. TEST PLOTS.....	25
5. BAND EDGE COMPLIANCE	52
5.1. TEST PLOTS.....	52
6. SPURIOUS EMISSION AT ANTENNA TERMINAL	88
6.1. TEST PLOTS.....	88
7. FIELD STRENGTH OF SPURIOUS RADIATION	97
7.1. TEST MODE =LTE/TM1 20MHZ.....	97
7.1.1. TEST CHANNEL = LCH	97
7.1.2. TEST CHANNEL = MCH	97
7.1.3. TEST CHANNEL = HCH	98
8. FREQUENCY STABILITY	99
8.1. FREQUENCY VS VOLTAGE	99
8.2. FREQUENCY VS TEMPERATURE.....	100



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

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

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

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



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted	EIRP	Limit	Verdict
					Power(dBm)	(dBm)	(dBm)	
Band4	1.4MHz	QPSK	19957	1RB#2	23.22	24.02	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.05	23.85	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	23.03	23.83	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.19	23.99	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.17	23.97	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.27	24.07	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.18	22.98	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.18	23.98	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.36	24.16	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.16	23.96	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.33	24.13	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.29	24.09	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.28	24.08	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.27	23.07	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.24	24.04	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.37	24.17	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.24	24.04	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.42	24.22	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.38	24.18	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.34	24.14	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.37	23.17	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.19	21.99	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.1	21.90	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.15	21.95	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	21.18	21.98	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	21.24	22.04	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	21.22	22.02	30.00	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch 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	64QAM	19957	6RB#0	20.16	20.96	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.24	22.04	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.44	22.24	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.26	22.06	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	21.38	22.18	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	21.32	22.12	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	21.34	22.14	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.27	21.07	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.41	22.21	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.42	22.22	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.53	22.33	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	21.43	22.23	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	21.48	22.28	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	21.43	22.23	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.36	21.16	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.12	22.92	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.29	23.09	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.11	22.91	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.16	22.96	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.22	23.02	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.11	22.91	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.23	22.03	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.32	23.12	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.34	23.14	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.59	23.39	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.36	23.16	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.39	23.19	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.33	23.13	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.37	22.17	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.37	23.17	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.47	23.27	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.62	23.42	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.39	23.19	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



Band4	1.4MHz	16QAM	20393	3RB#1	22.49	23.29	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.39	23.19	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.46	22.26	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.1	23.90	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.07	23.87	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.08	23.88	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.13	22.93	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.12	22.92	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.16	22.96	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.14	22.94	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.23	24.03	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.19	23.99	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.19	23.99	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.29	23.09	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.24	23.04	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.25	23.05	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.24	23.04	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.31	24.11	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.24	24.04	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.28	24.08	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.31	23.11	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.34	23.14	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.33	23.13	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.33	23.13	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.1	21.90	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.12	21.92	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.11	21.91	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#0	20.12	20.92	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#4	20.16	20.96	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#7	20.08	20.88	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.09	20.89	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.29	22.09	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.3	22.10	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



Band4	3MHz	64QAM	20175	1RB#8	21.33	22.13	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#0	20.26	21.06	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#7	20.24	21.04	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#4	20.3	21.10	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.25	21.05	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.38	22.18	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.39	22.19	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.4	22.20	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#7	20.32	21.12	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#0	20.32	21.12	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#4	20.35	21.15	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.31	21.11	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.18	22.98	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.21	23.01	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.2	23.00	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.18	21.98	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.16	21.96	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.21	22.01	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.12	21.92	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.4	23.20	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.38	23.18	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.34	23.14	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.35	22.15	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.34	22.14	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.34	22.14	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.26	22.06	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.36	23.16	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.48	23.28	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.43	23.23	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.41	22.21	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.42	22.22	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.39	22.19	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.32	22.12	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

Band4	5MHz	QPSK	19975	1RB#12	23.27	24.07	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.95	23.75	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.94	23.74	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.09	22.89	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.18	22.98	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.1	22.90	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.1	22.90	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.07	23.87	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.07	23.87	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.41	24.21	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.22	23.02	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.21	23.01	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.3	23.10	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.23	23.03	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.15	23.95	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.09	23.89	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.4	24.20	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.31	23.11	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.36	23.16	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.23	23.03	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.3	23.10	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.05	21.85	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	21	21.80	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.34	22.14	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#0	20.05	20.85	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#13	20.08	20.88	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#6	20.16	20.96	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.12	20.92	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.46	22.26	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.21	22.01	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.16	21.96	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#0	20.22	21.02	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#6	20.29	21.09	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	5MHz	64QAM	20175	12RB#13	20.2	21.00	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.24	21.04	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.59	22.39	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.15	21.95	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.32	22.12	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#13	20.2	21.00	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#6	20.36	21.16	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#0	20.33	21.13	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.33	21.13	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.19	22.99	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.35	23.15	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.15	22.95	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.13	21.93	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.19	21.99	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.09	21.89	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.1	21.90	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.23	23.03	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.59	23.39	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.25	23.05	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.33	22.13	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.23	22.03	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.25	22.05	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.27	22.07	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.39	23.19	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.36	23.16	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.65	23.45	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.32	22.12	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.39	22.19	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.23	22.03	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.3	22.10	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.07	23.87	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.23	24.03	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.13	23.93	30.00	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Inspection & Testing Services 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.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	10MHz	QPSK	20000	25RB#0	22.14	22.94	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.16	22.96	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.11	22.91	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.11	22.91	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.18	23.98	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.29	24.09	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.19	23.99	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.28	23.08	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.25	23.05	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.24	23.04	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.24	23.04	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.2	24.00	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.35	24.15	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.26	24.06	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.39	23.19	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.32	23.12	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.17	22.97	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.3	23.10	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.16	21.96	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.24	22.04	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.28	22.08	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#12	20.16	20.96	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#0	20.12	20.92	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#25	20.11	20.91	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.11	20.91	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.29	22.09	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.28	22.08	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.41	22.21	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#0	20.25	21.05	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#12	20.29	21.09	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#25	20.26	21.06	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.27	21.07	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.41	22.21	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



Band4	10MHz	64QAM	20350	1RB#24	21.43	22.23	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.28	22.08	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#25	20.19	20.99	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#0	20.36	21.16	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#12	20.31	21.11	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.26	21.06	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.35	23.15	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.2	23.00	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.3	23.10	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.11	21.91	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.11	21.91	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.16	21.96	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.11	21.91	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.4	23.20	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.5	23.30	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.41	23.21	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.31	22.11	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.28	22.08	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.27	22.07	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.26	22.06	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.47	23.27	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.47	23.27	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.33	23.13	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.35	22.15	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.31	22.11	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.2	22.00	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.28	22.08	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.01	23.81	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.14	23.94	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.06	23.86	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.17	22.97	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.21	23.01	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.16	22.96	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



Band4	15MHz	QPSK	20025	75RB#0	22.15	22.95	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.1	23.90	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.05	23.85	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.24	24.04	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.24	23.04	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.28	23.08	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.29	23.09	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.25	23.05	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.21	24.01	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.11	23.91	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.18	23.98	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.16	22.96	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.29	23.09	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.31	23.11	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.24	23.04	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.22	22.02	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.27	22.07	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.09	21.89	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#0	20.12	20.92	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#18	20.19	20.99	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#39	20.16	20.96	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.16	20.96	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.19	21.99	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.33	22.13	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.22	22.02	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#0	20.23	21.03	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#18	20.27	21.07	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#39	20.26	21.06	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.26	21.06	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.3	22.10	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.33	22.13	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.17	21.97	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#0	20.23	21.03	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



Band4	15MHz	64QAM	20325	36RB#18	20.28	21.08	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#39	20.14	20.94	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.21	21.01	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.1	22.90	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.34	23.14	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.24	23.04	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.14	21.94	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.21	22.01	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.18	21.98	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.18	21.98	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.35	23.15	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.24	23.04	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.28	23.08	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.25	22.05	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.28	22.08	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.26	22.06	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.29	22.09	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.25	23.05	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.35	23.15	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.32	23.12	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.15	21.95	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.24	22.04	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.3	22.10	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.23	22.03	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.22	24.02	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.94	23.74	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.82	23.62	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.25	23.05	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.26	23.06	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.15	22.95	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.19	22.99	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.94	23.74	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.31	24.11	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



Band4	20MHz	QPSK	20175	1RB#0	22.9	23.70	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.3	23.10	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.3	23.10	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.34	23.14	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.33	23.13	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.32	24.12	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.97	23.77	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.02	23.82	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.33	23.13	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.1	22.90	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.32	23.12	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.2	23.00	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.87	21.67	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.32	22.12	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.14	21.94	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#0	20.23	21.03	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#25	20.22	21.02	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.14	20.94	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.19	20.99	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.08	21.88	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.03	21.83	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.43	22.23	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#25	20.29	21.09	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.33	21.13	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#0	20.25	21.05	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.32	21.12	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.37	22.17	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.13	21.93	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.13	21.93	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#50	20.05	20.85	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#0	20.26	21.06	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#25	20.3	21.10	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.16	20.96	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



Band4	20MHz	16QAM	20050	1RB#99	22.2	23.00	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.88	22.68	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.37	23.17	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.25	22.05	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.27	22.07	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.18	21.98	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.22	22.02	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.08	22.88	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.55	23.35	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.14	22.94	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.33	22.13	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.33	22.13	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.34	22.14	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.35	22.15	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.16	22.96	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.38	23.18	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.14	22.94	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.09	21.89	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.32	22.12	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.31	22.11	30.00	PASS

Remark:

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

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

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

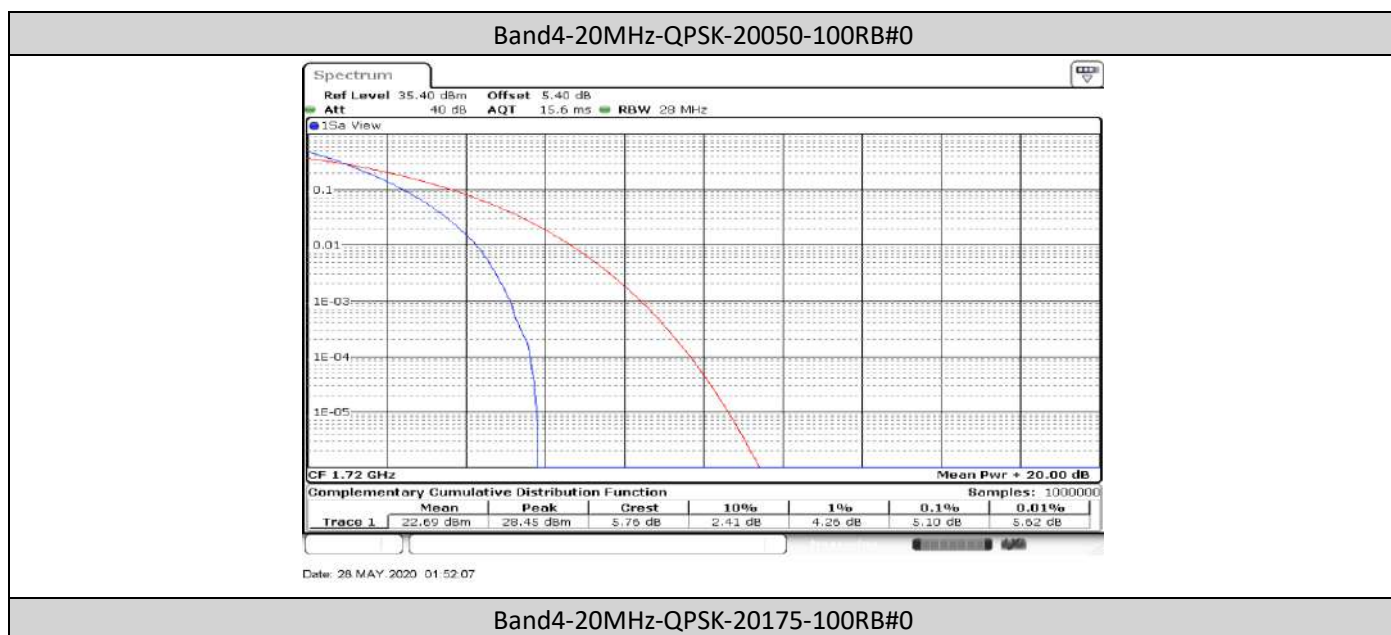


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

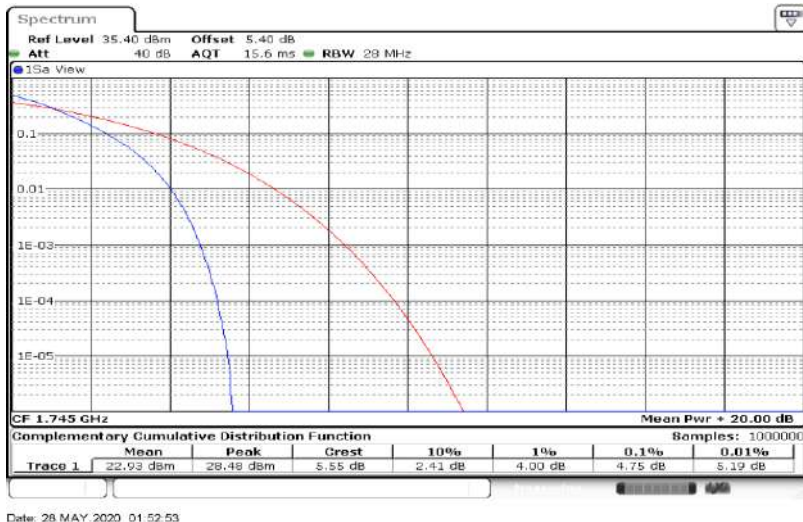
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.10	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.16	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.75	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.41	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.43	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.09	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.91	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.00	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.59	13	PASS

2.2. Test Plots





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

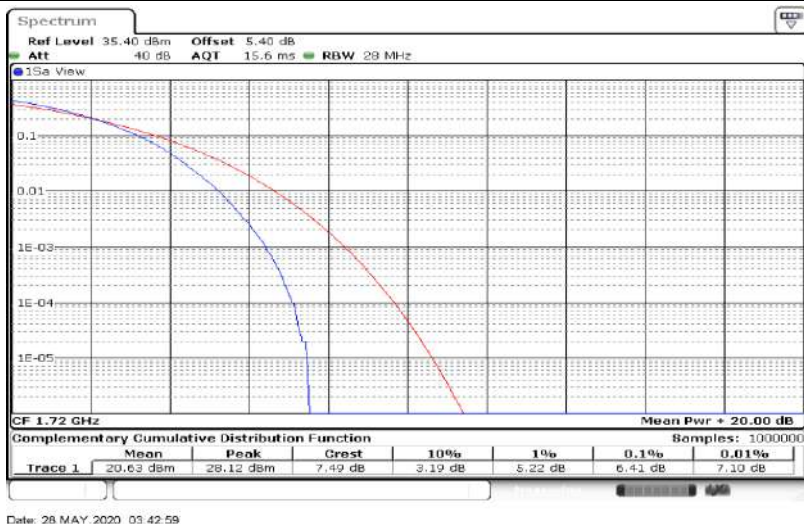


Band4-20MHz-64QAM-20050-100RB#0

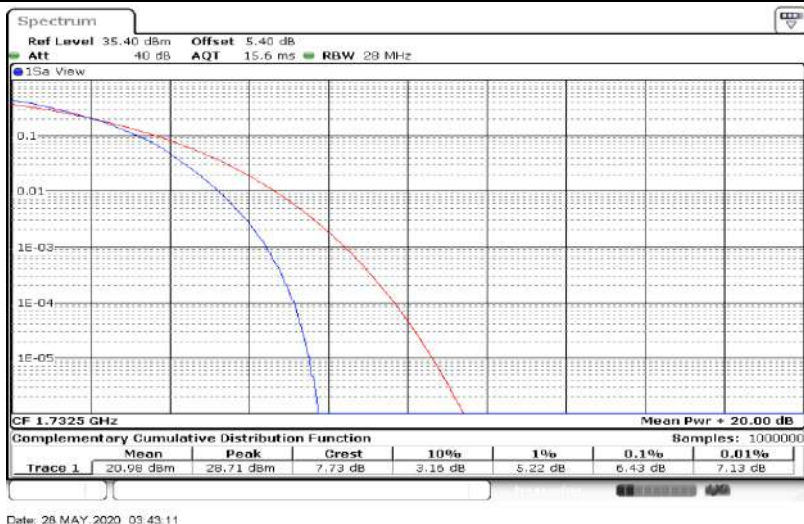


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



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



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

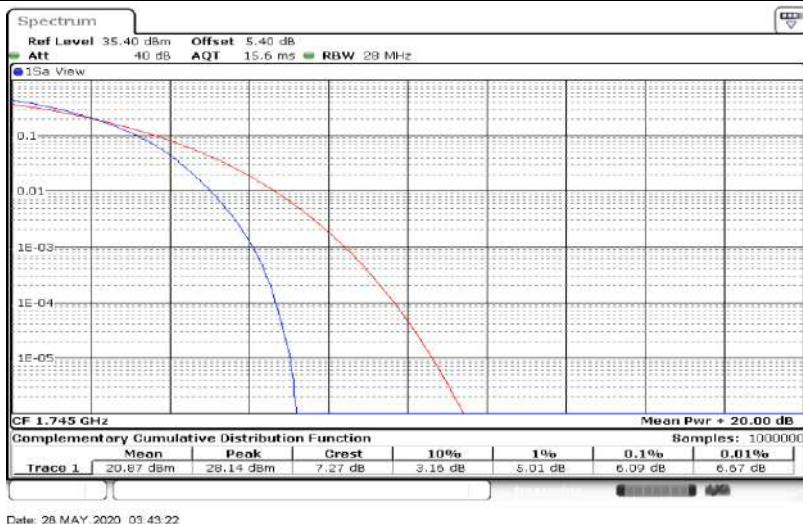


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

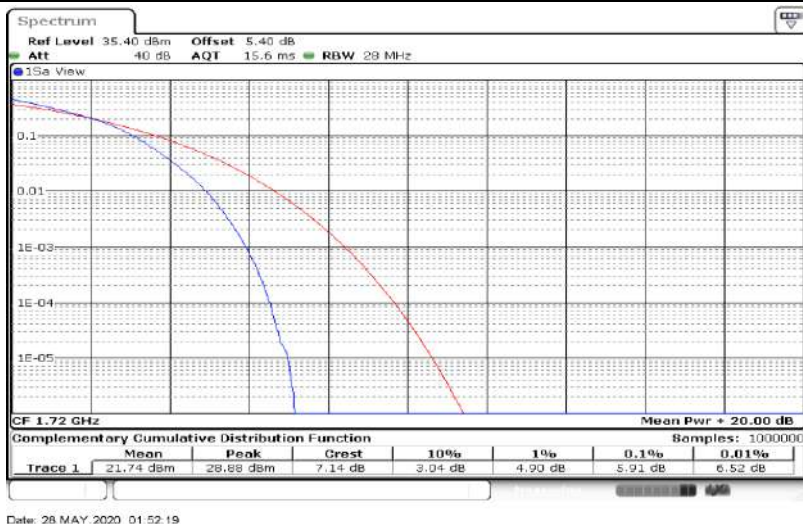
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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-16QAM-20050-100RB#0



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

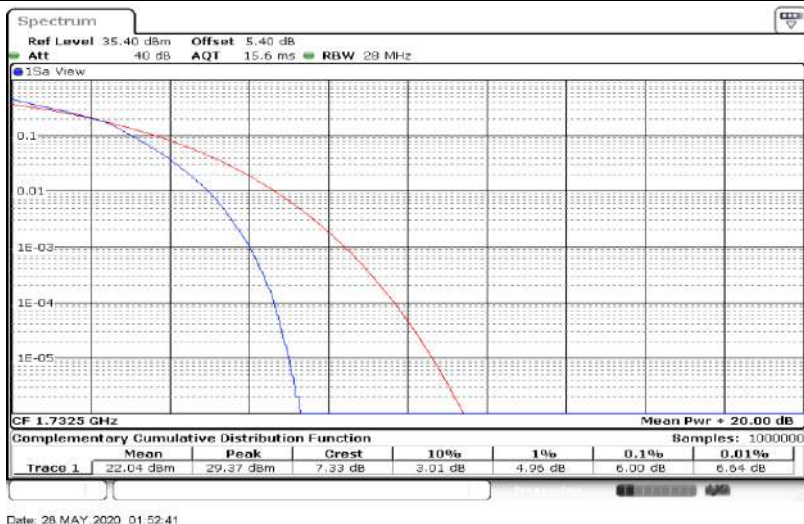


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

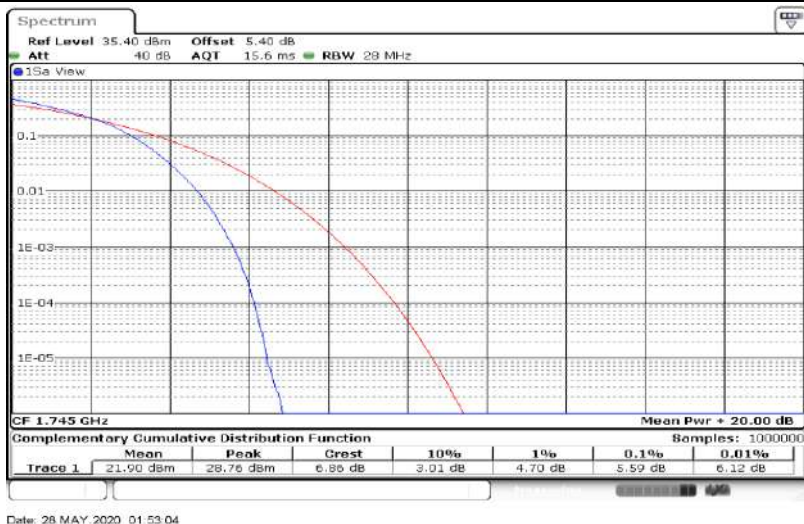
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch / 深圳分公司 / SGS Laboratory

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



Date: 28 MAY 2020 01:52:41

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



Date: 28 MAY 2020 01:53:04

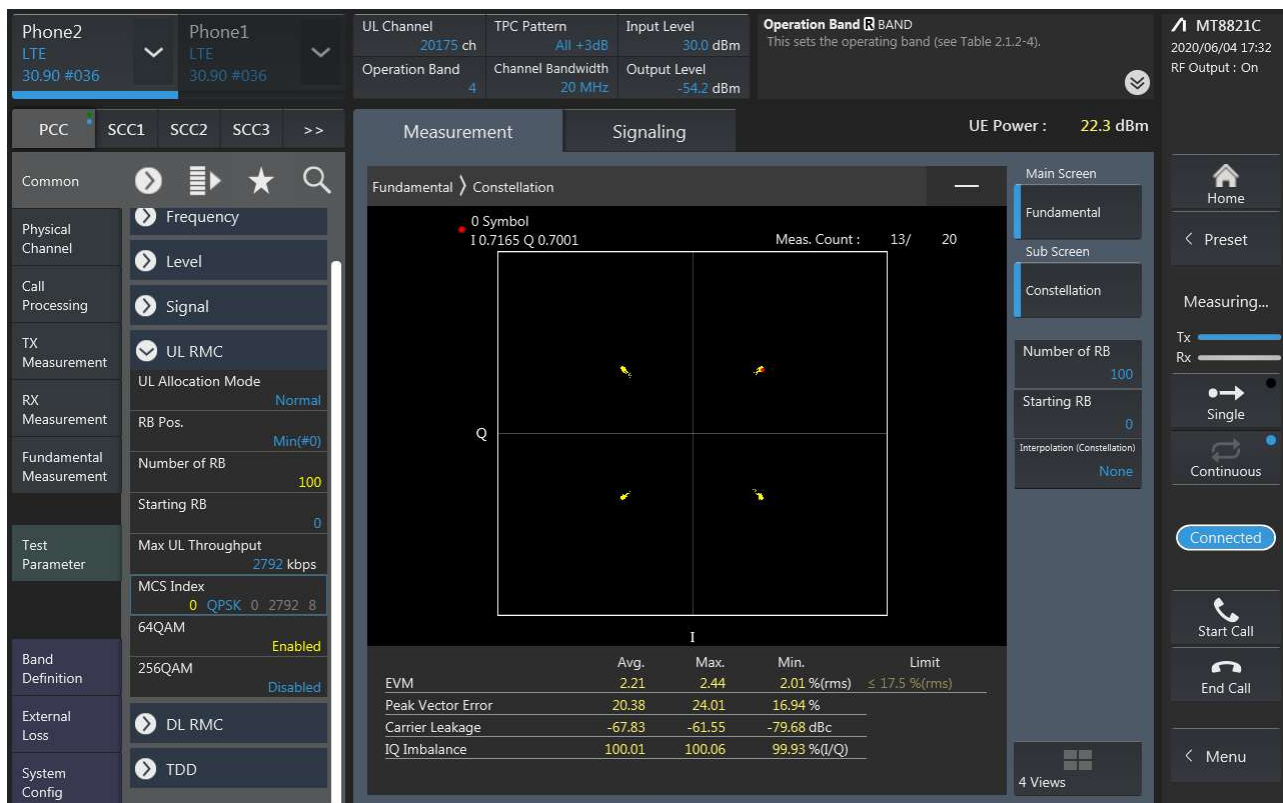




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



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

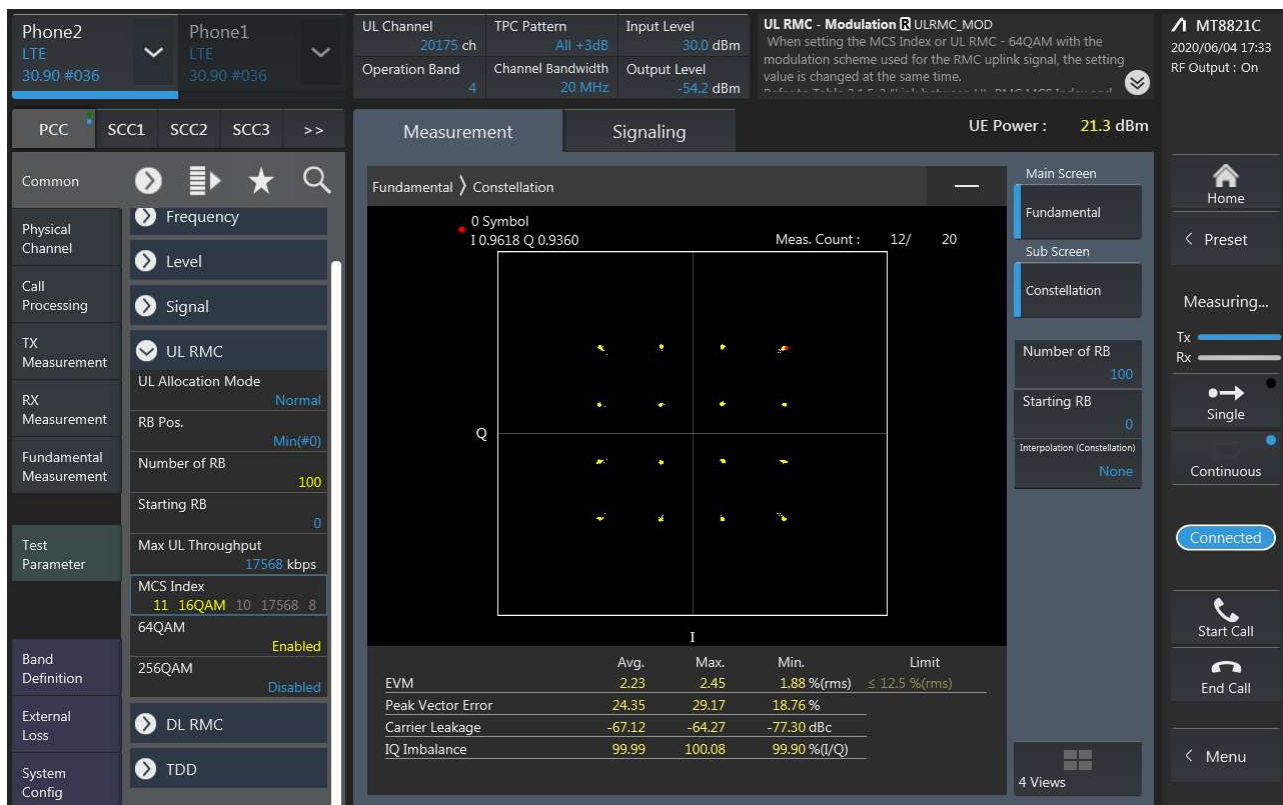
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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



3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



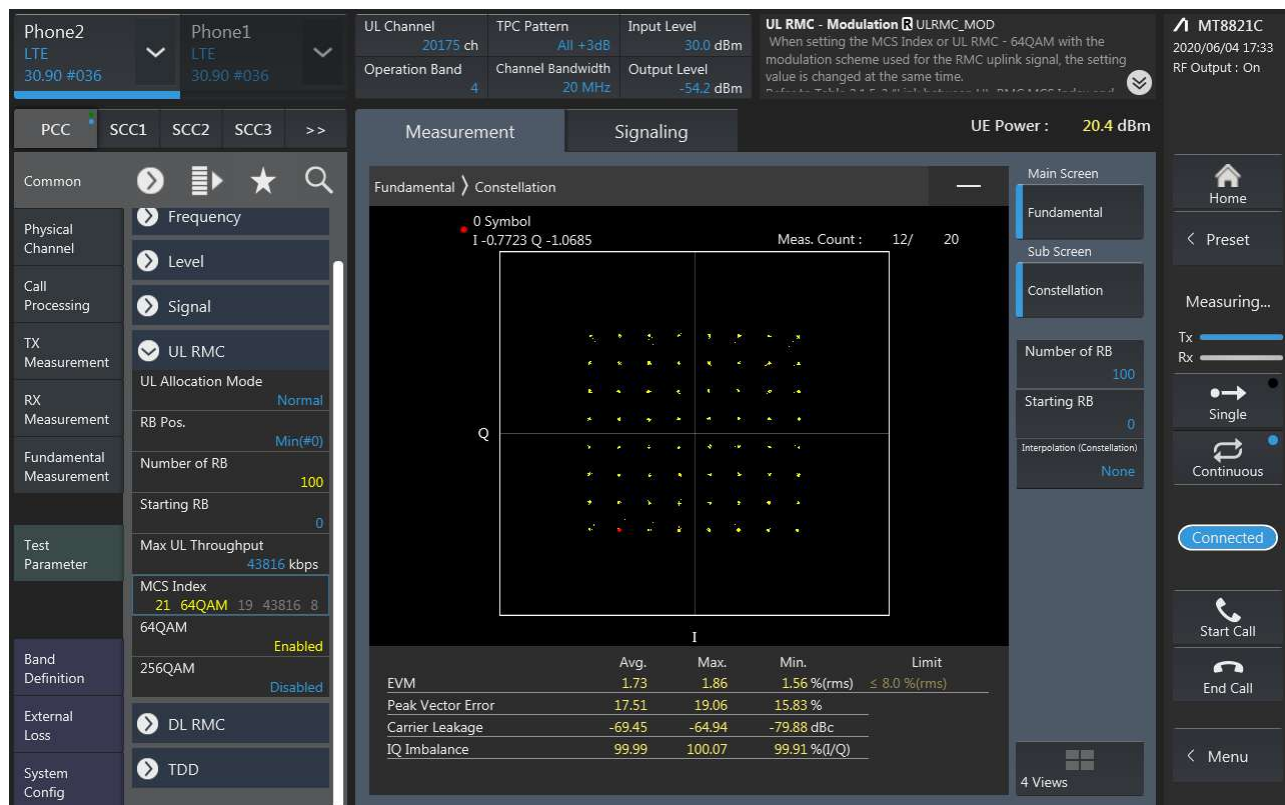
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>, and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a contract from their obligations and liabilities under the contract. The Company's responsibility is limited to the content of this document, 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.

For any request for copy of testing / inspection reports or certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN@cncheck.com

No. 1 email: CN.Doccheck@sgs.com
No. 2 email: CN.Doccheck2@sgs.com
No. 3 email: CN.Doccheck3@sgs.com
No. 4 email: CN.Doccheck4@sgs.com
No. 5 email: CN.Doccheck5@sgs.com
No. 6 email: CN.Doccheck6@sgs.com
No. 7 email: CN.Doccheck7@sgs.com
No. 8 email: CN.Doccheck8@sgs.com
No. 9 email: CN.Doccheck9@sgs.com
No. 10 email: CN.Doccheck10@sgs.com
No. 11 email: CN.Doccheck11@sgs.com
No. 12 email: CN.Doccheck12@sgs.com
No. 13 email: CN.Doccheck13@sgs.com
No. 14 email: CN.Doccheck14@sgs.com
No. 15 email: CN.Doccheck15@sgs.com
No. 16 email: CN.Doccheck16@sgs.com
No. 17 email: CN.Doccheck17@sgs.com
No. 18 email: CN.Doccheck18@sgs.com
No. 19 email: CN.Doccheck19@sgs.com
No. 20 email: CN.Doccheck20@sgs.com
No. 21 email: CN.Doccheck21@sgs.com
No. 22 email: CN.Doccheck22@sgs.com
No. 23 email: CN.Doccheck23@sgs.com
No. 24 email: CN.Doccheck24@sgs.com
No. 25 email: CN.Doccheck25@sgs.com
No. 26 email: CN.Doccheck26@sgs.com
No. 27 email: CN.Doccheck27@sgs.com
No. 28 email: CN.Doccheck28@sgs.com
No. 29 email: CN.Doccheck29@sgs.com
No. 30 email: CN.Doccheck30@sgs.com
No. 31 email: CN.Doccheck31@sgs.com
No. 32 email: CN.Doccheck32@sgs.com
No. 33 email: CN.Doccheck33@sgs.com
No. 34 email: CN.Doccheck34@sgs.com
No. 35 email: CN.Doccheck35@sgs.com
No. 36 email: CN.Doccheck36@sgs.com
No. 37 email: CN.Doccheck37@sgs.com
No. 38 email: CN.Doccheck38@sgs.com
No. 39 email: CN.Doccheck39@sgs.com
No. 40 email: CN.Doccheck40@sgs.com
No. 41 email: CN.Doccheck41@sgs.com
No. 42 email: CN.Doccheck42@sgs.com
No. 43 email: CN.Doccheck43@sgs.com
No. 44 email: CN.Doccheck44@sgs.com
No. 45 email: CN.Doccheck45@sgs.com
No. 46 email: CN.Doccheck46@sgs.com
No. 47 email: CN.Doccheck47@sgs.com
No. 48 email: CN.Doccheck48@sgs.com
No. 49 email: CN.Doccheck49@sgs.com
No. 50 email: CN.Doccheck50@sgs.com
No. 51 email: CN.Doccheck51@sgs.com
No. 52 email: CN.Doccheck52@sgs.com
No. 53 email: CN.Doccheck53@sgs.com
No. 54 email: CN.Doccheck54@sgs.com
No. 55 email: CN.Doccheck55@sgs.com
No. 56 email: CN.Doccheck56@sgs.com
No. 57 email: CN.Doccheck57@sgs.com
No. 58 email: CN.Doccheck58@sgs.com
No. 59 email: CN.Doccheck59@sgs.com
No. 60 email: CN.Doccheck60@sgs.com
No. 61 email: CN.Doccheck61@sgs.com
No. 62 email: CN.Doccheck62@sgs.com
No. 63 email: CN.Doccheck63@sgs.com
No. 64 email: CN.Doccheck64@sgs.com
No. 65 email: CN.Doccheck65@sgs.com
No. 66 email: CN.Doccheck66@sgs.com
No. 67 email: CN.Doccheck67@sgs.com
No. 68 email: CN.Doccheck68@sgs.com
No. 69 email: CN.Doccheck69@sgs.com
No. 70 email: CN.Doccheck70@sgs.com
No. 71 email: CN.Doccheck71@sgs.com
No. 72 email: CN.Doccheck72@sgs.com
No. 73 email: CN.Doccheck73@sgs.com
No. 74 email: CN.Doccheck74@sgs.com
No. 75 email: CN.Doccheck75@sgs.com
No. 76 email: CN.Doccheck76@sgs.com
No. 77 email: CN.Doccheck77@sgs.com
No. 78 email: CN.Doccheck78@sgs.com
No. 79 email: CN.Doccheck79@sgs.com
No. 80 email: CN.Doccheck80@sgs.com
No. 81 email: CN.Doccheck81@sgs.com
No. 82 email: CN.Doccheck82@sgs.com
No. 83 email: CN.Doccheck83@sgs.com
No. 84 email: CN.Doccheck84@sgs.com
No. 85 email: CN.Doccheck85@sgs.com
No. 86 email: CN.Doccheck86@sgs.com
No. 87 email: CN.Doccheck87@sgs.com
No. 88 email: CN.Doccheck88@sgs.com
No. 89 email: CN.Doccheck89@sgs.com
No. 90 email: CN.Doccheck90@sgs.com
No. 91 email: CN.Doccheck91@sgs.com
No. 92 email: CN.Doccheck92@sgs.com
No. 93 email: CN.Doccheck93@sgs.com
No. 94 email: CN.Doccheck94@sgs.com
No. 95 email: CN.Doccheck95@sgs.com
No. 96 email: CN.Doccheck96@sgs.com
No. 97 email: CN.Doccheck97@sgs.com
No. 98 email: CN.Doccheck98@sgs.com
No. 99 email: CN.Doccheck99@sgs.com
No. 100 email: CN.Doccheck100@sgs.com
No. 101 email: CN.Doccheck101@sgs.com
No. 102 email: CN.Doccheck102@sgs.com
No. 103 email: CN.Doccheck103@sgs.com
No. 104 email: CN.Doccheck104@sgs.com
No. 105 email: CN.Doccheck105@sgs.com
No. 106 email: CN.Doccheck106@sgs.com
No. 107 email: CN.Doccheck107@sgs.com
No. 108 email: CN.Doccheck108@sgs.com
No. 109 email: CN.Doccheck109@sgs.com
No. 110 email: CN.Doccheck110@sgs.com
No. 111 email:



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	1.088	1.281	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.091	1.284	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.281	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.094	1.284	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.091	1.269	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.094	1.287	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.284	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.082	1.296	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.275	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	2.922	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.685	2.916	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.691	2.922	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.685	2.904	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.685	2.910	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.685	2.910	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.679	2.898	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	2.904	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.673	2.898	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.466	4.830	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.466	4.840	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.910	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.466	4.830	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.466	4.830	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.476	4.820	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.476	4.860	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.476	4.870	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.476	4.850	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.911	9.580	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.620	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.560	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.911	9.540	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 / 深圳分公司实验室

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	20175	50RB#0	8.931	9.600	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.911	9.540	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.911	9.560	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.911	9.600	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.911	9.540	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.457	14.550	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.487	15.300	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.427	14.610	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.397	14.700	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.457	14.820	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.397	14.700	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.397	14.460	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.487	15.900	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.427	14.670	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.862	19.240	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.902	19.560	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.862	19.200	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.862	19.240	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.902	19.360	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.862	19.200	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.862	19.280	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.942	19.640	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.822	19.240	PASS



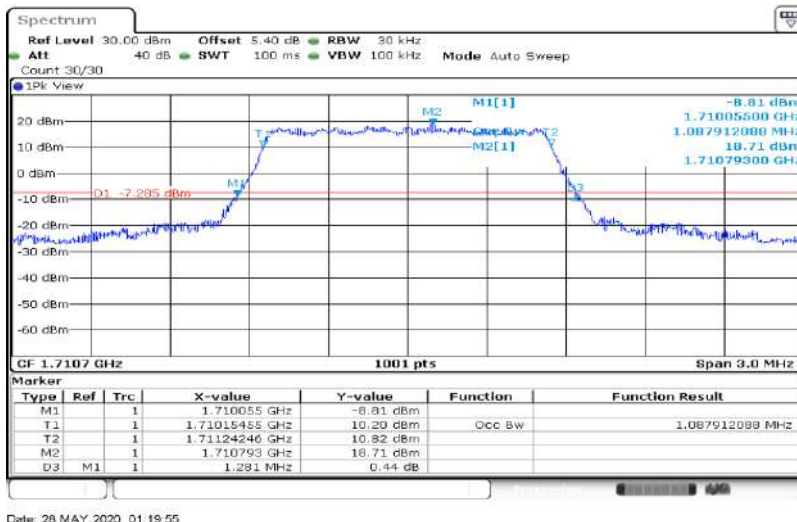
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

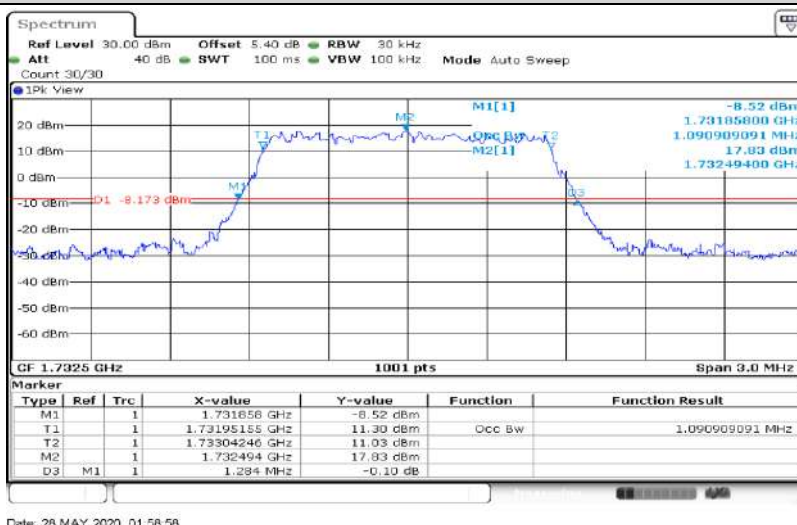
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.2. Test Plots

Band4-1.4MHz-QPSK-19957-6RB#0-1.088



Band4-1.4MHz-QPSK-20175-6RB#0-1.091



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



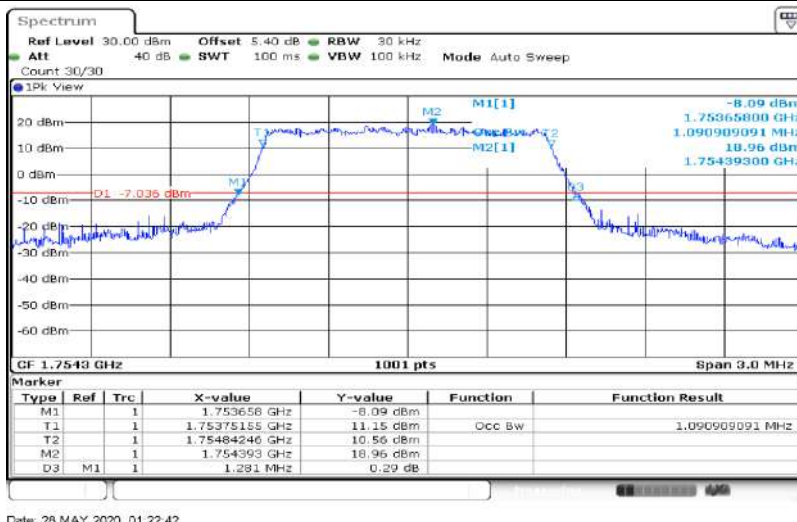
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

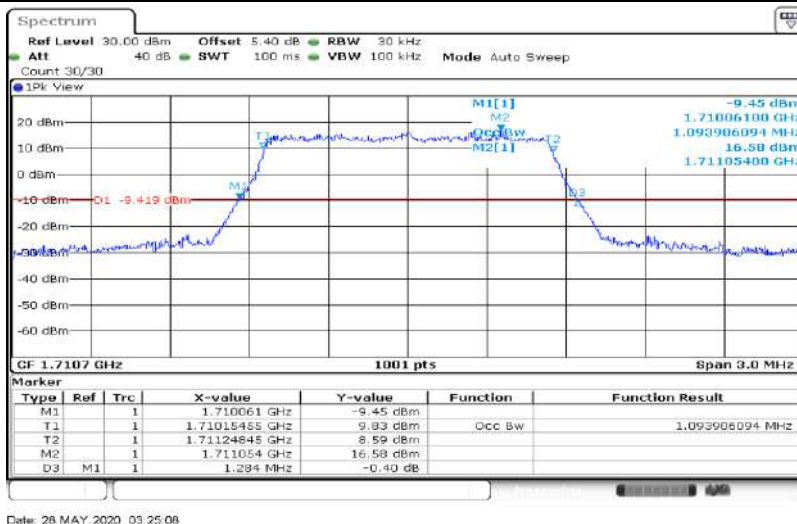
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Laboratory

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

Member of the SGS Group (SGS SA)

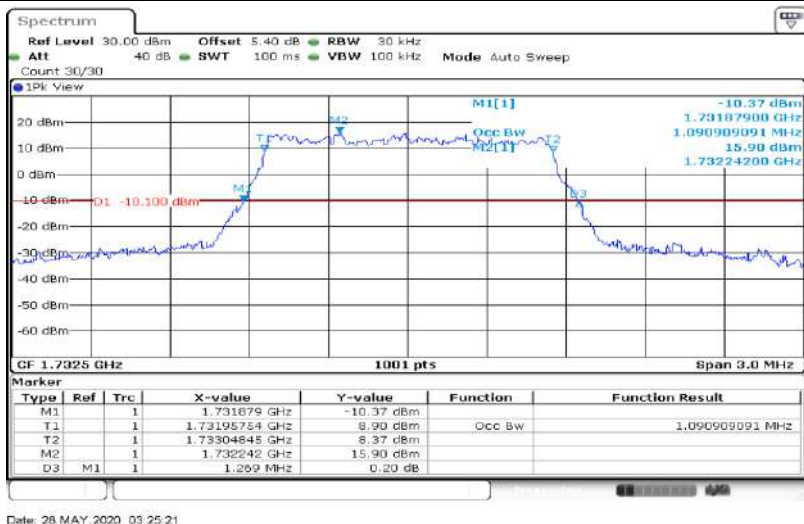


Band4-1.4MHz-64QAM-19957-6RB#0-1.094

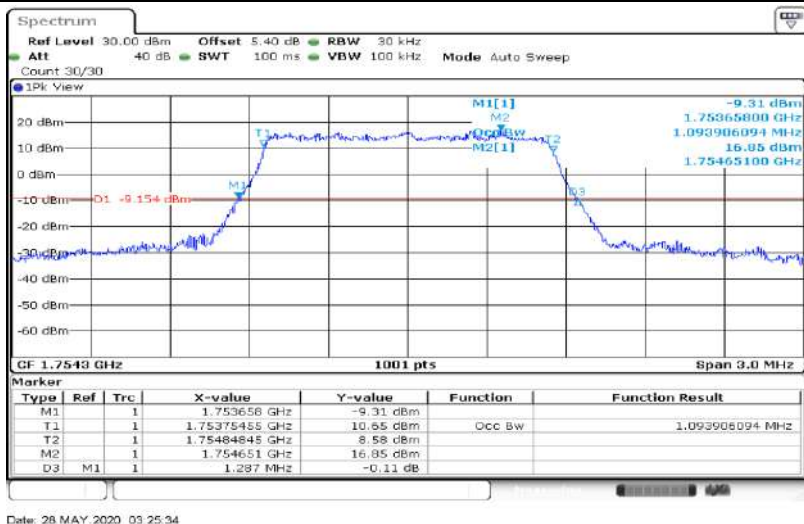


Band4-1.4MHz-64QAM-20175-6RB#0-1.091



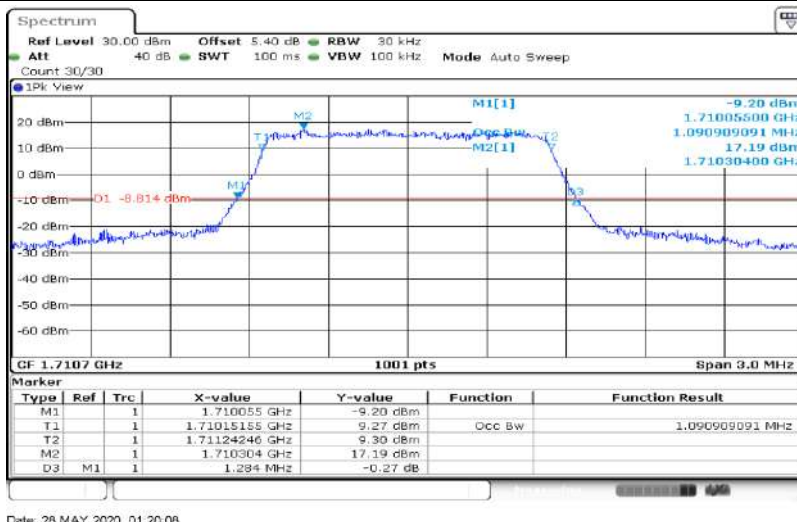


Band4-1.4MHz-64QAM-20393-6RB#0-1.094

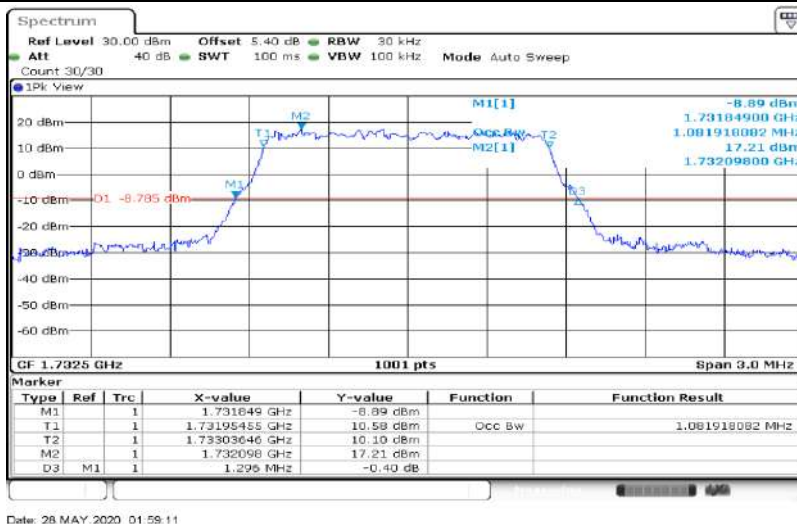


Band4-1.4MHz-16QAM-19957-6RB#0-1.091



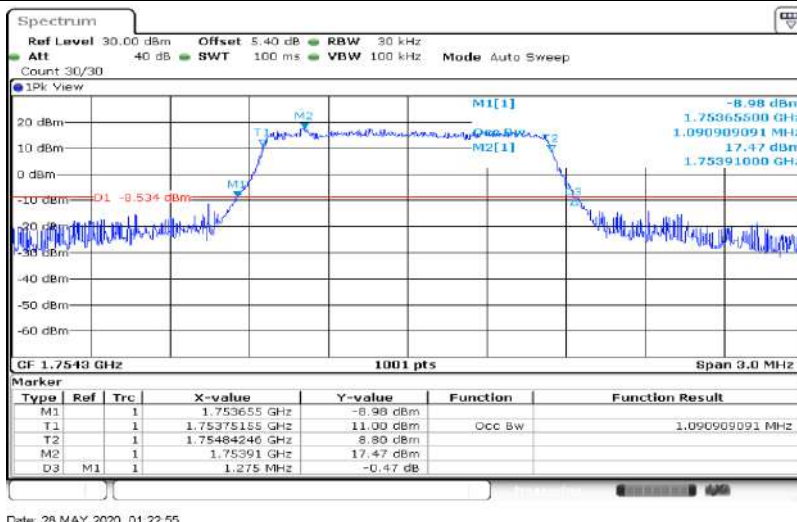


Band4-1.4MHz-16QAM-20175-6RB#0-1.082

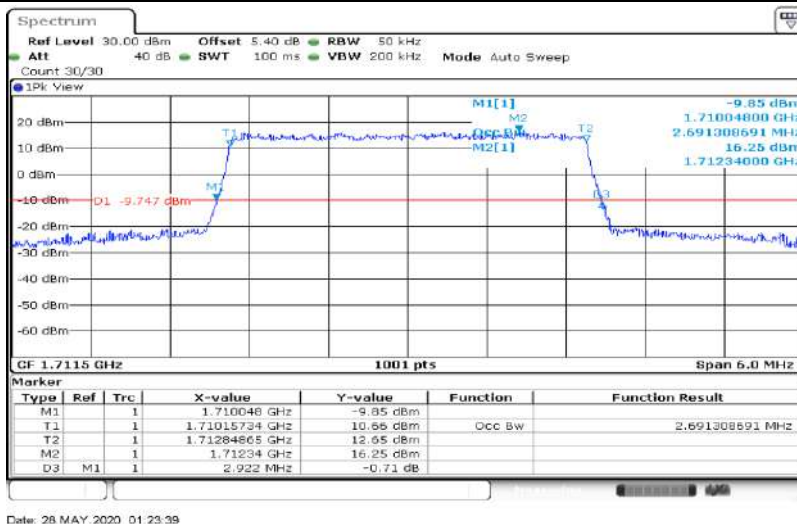


Band4-1.4MHz-16QAM-20393-6RB#0-1.091



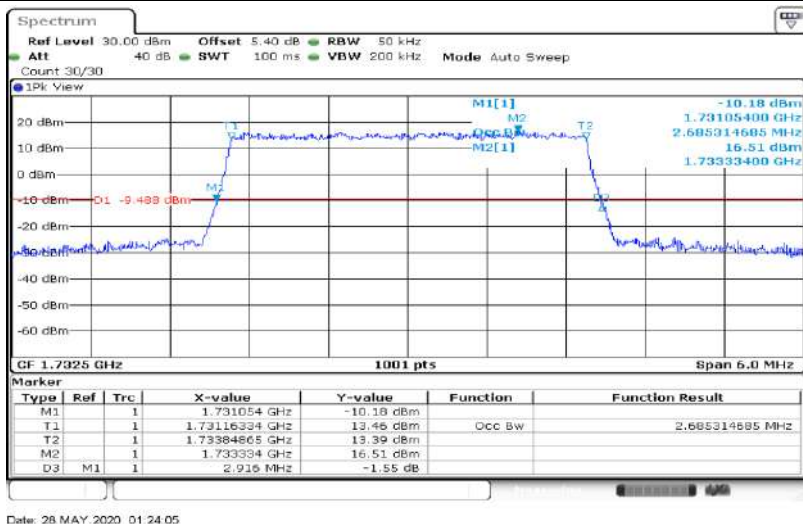


Band4-3MHz-QPSK-19965-15RB#0-2.691

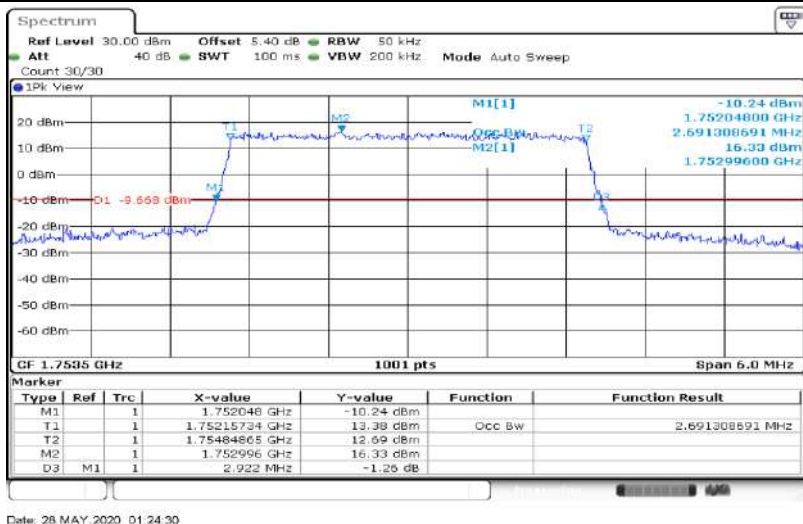


Band4-3MHz-QPSK-20175-15RB#0-2.685





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



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

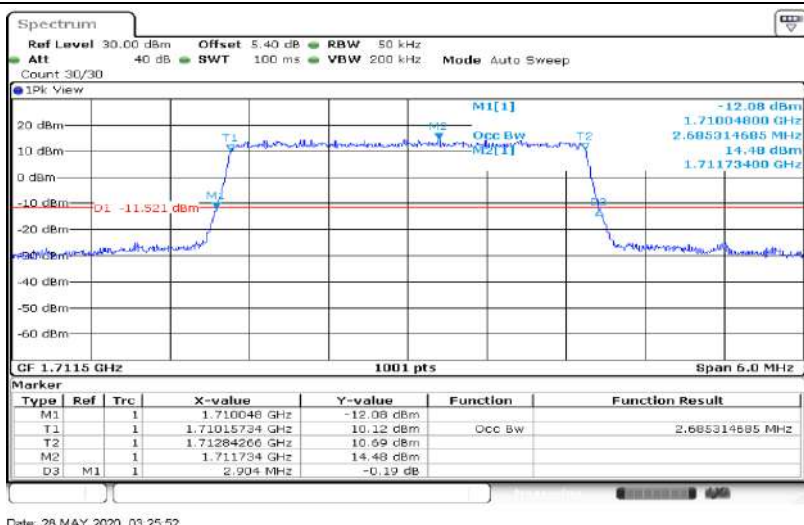


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

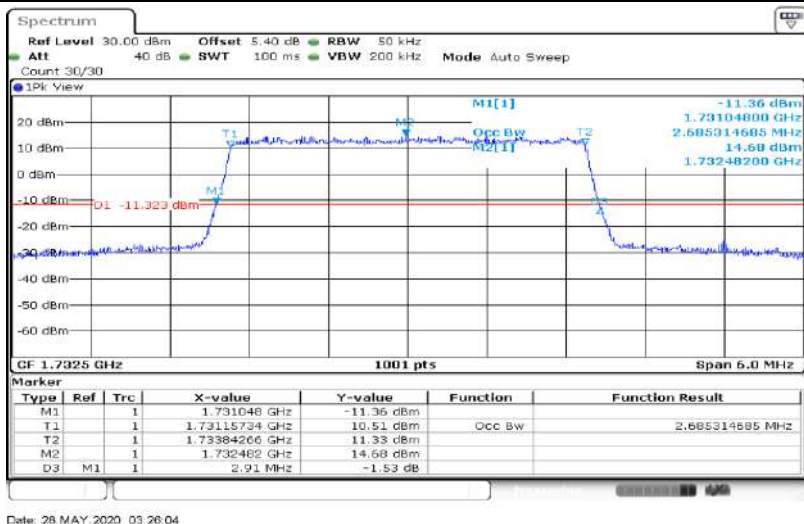
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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

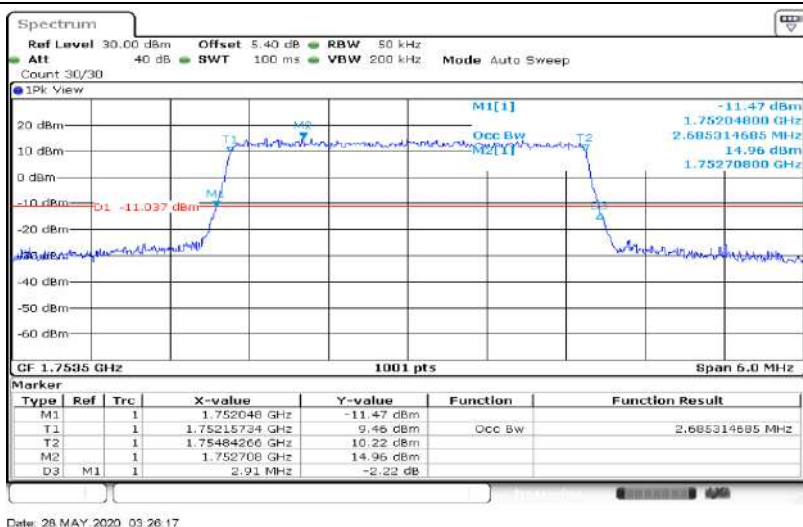


Band4-3MHz-64QAM-20175-15RB#0-2.685

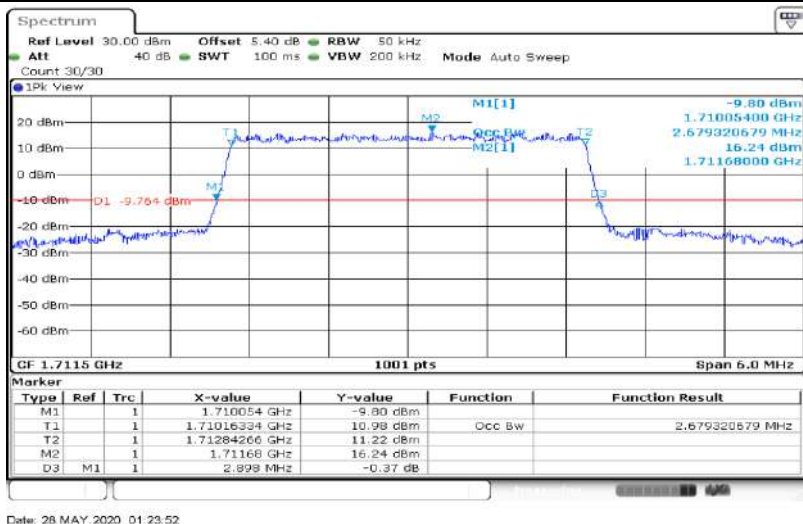


Band4-3MHz-64QAM-20385-15RB#0-2.685



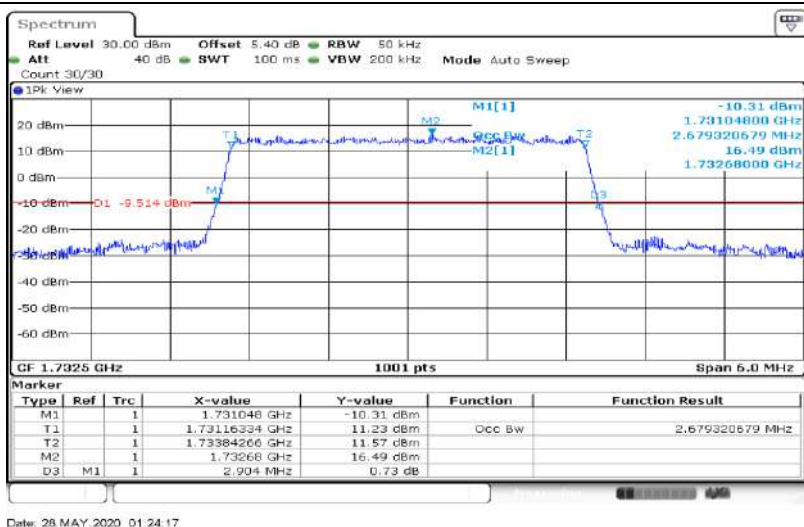


Band4-3MHz-16QAM-19965-15RB#0-2.679

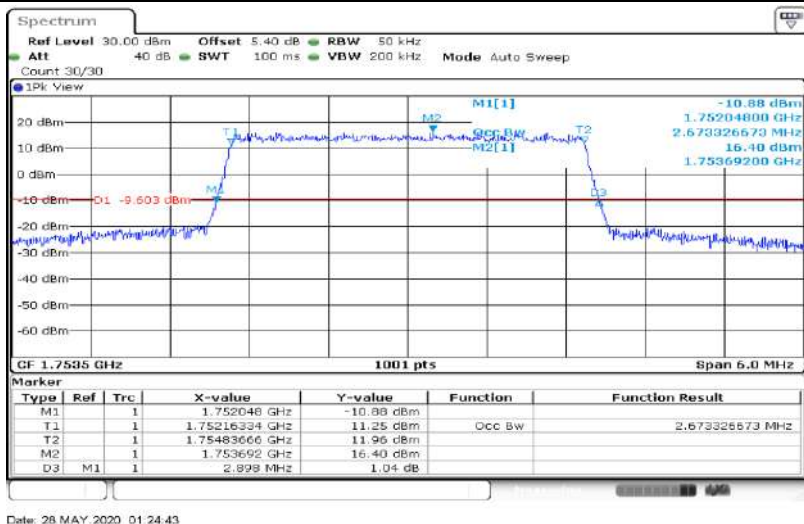


Band4-3MHz-16QAM-20175-15RB#0-2.679



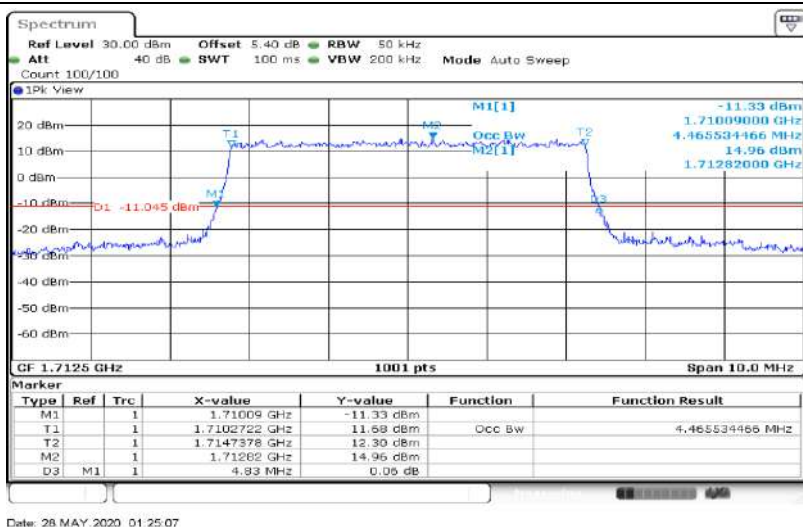


Band4-3MHz-16QAM-20385-15RB#0-2.673

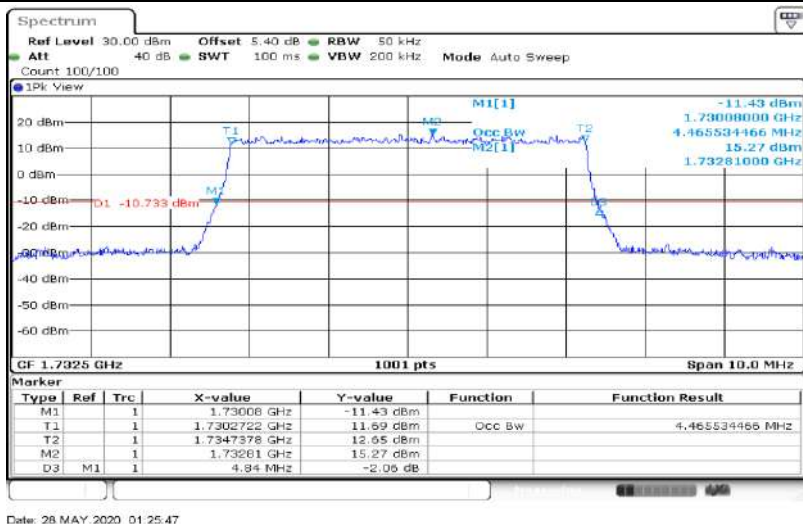


Band4-5MHz-QPSK-19975-25RB#0-4.466



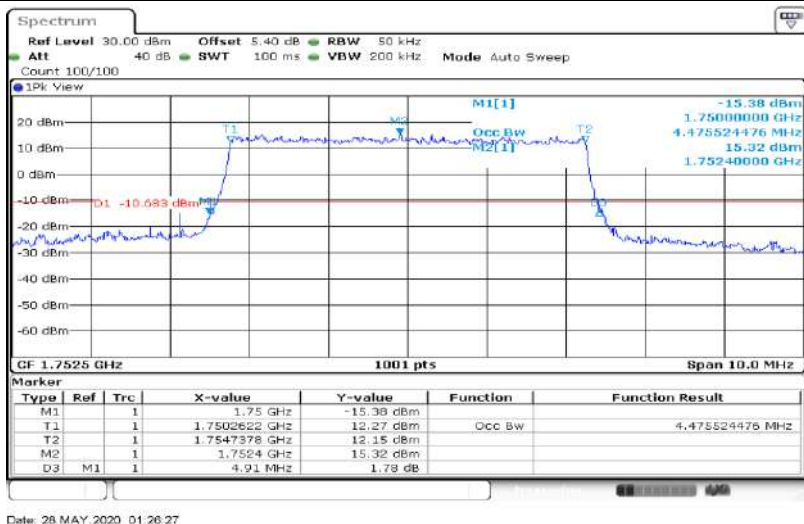


Band4-5MHz-QPSK-20175-25RB#0-4.466

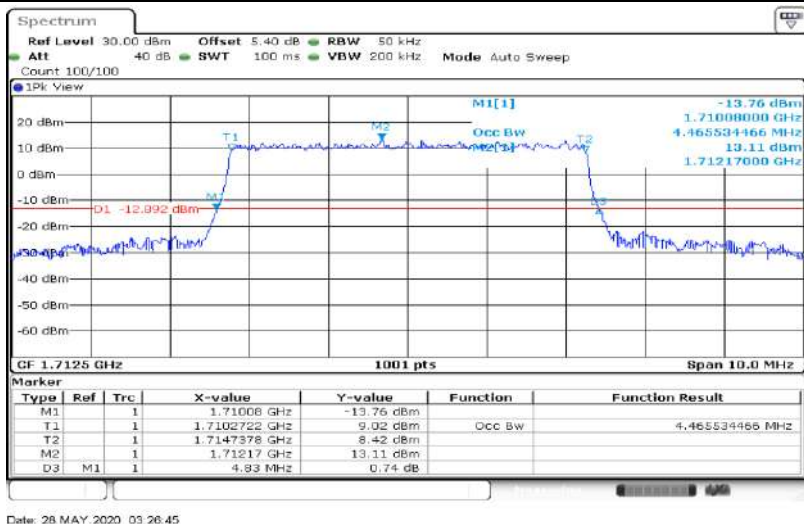


Band4-5MHz-QPSK-20375-25RB#0-4.476



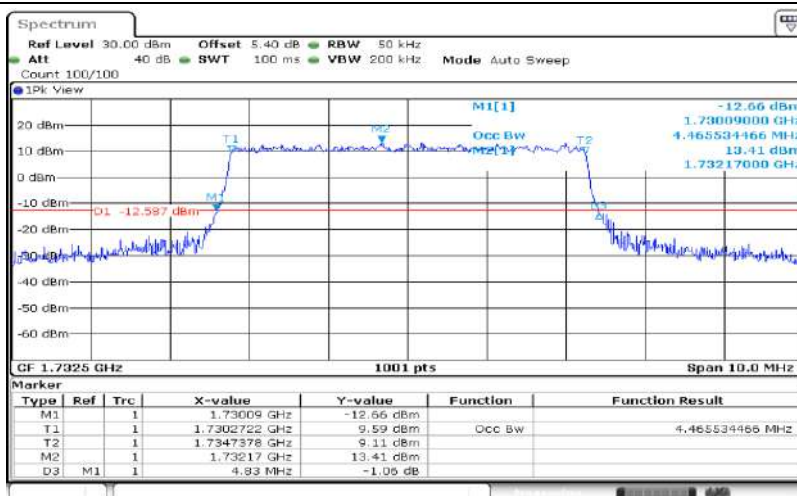


Band4-5MHz-64QAM-19975-25RB#0-4.466



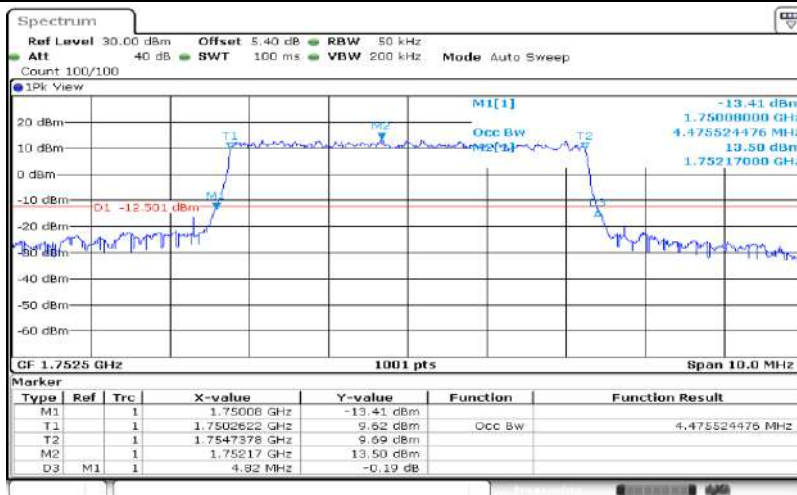
Band4-5MHz-64QAM-20175-25RB#0-4.466





Date: 26 MAY 2020 03:27:04

Band4-5MHz-64QAM-20375-25RB#0-4.476



Date: 26 MAY 2020 03:27:24

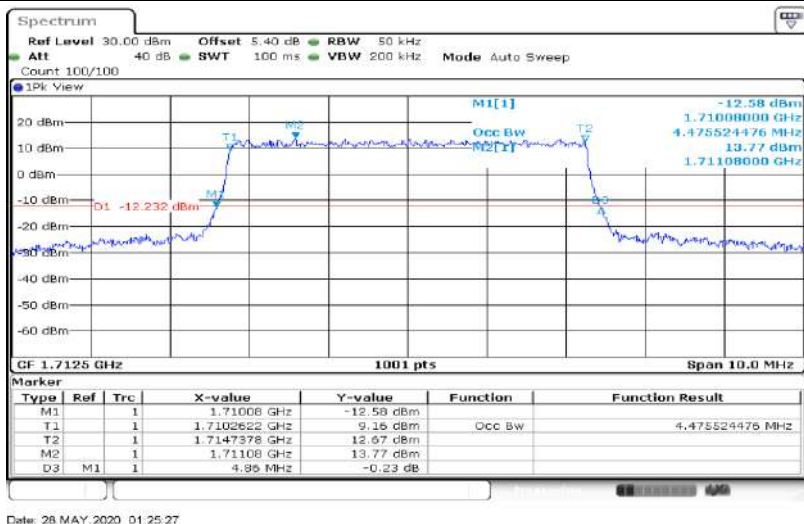
Band4-5MHz-16QAM-19975-25RB#0-4.476

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

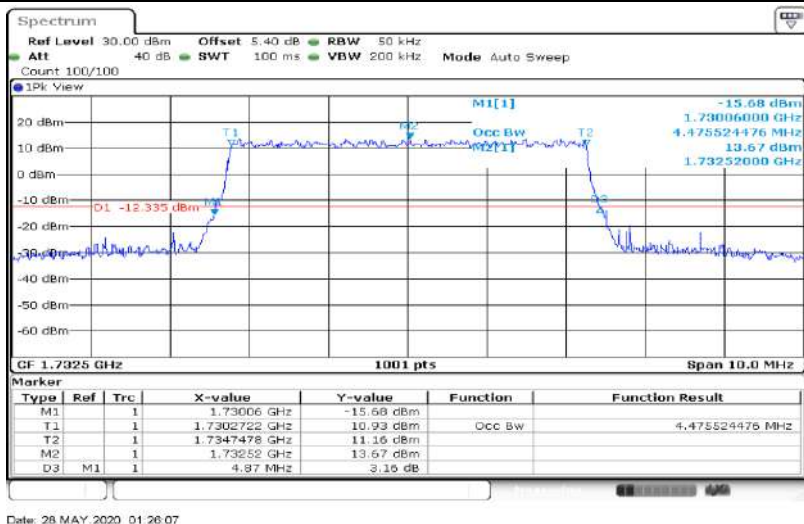
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

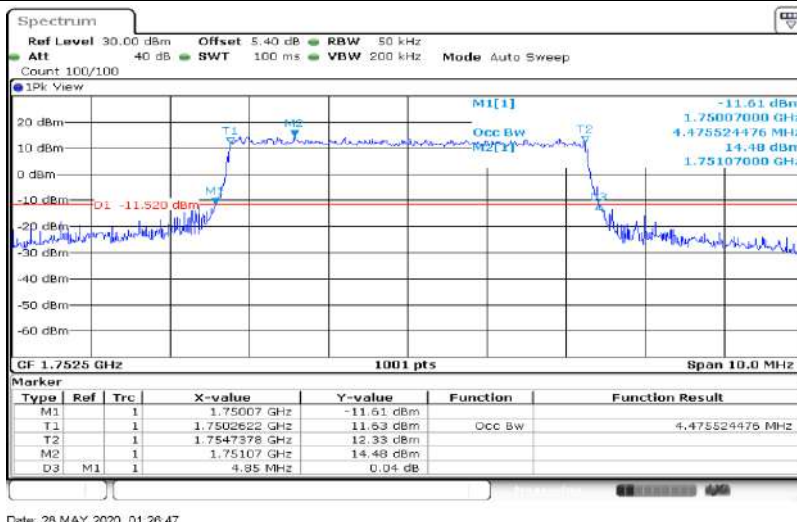


Band4-5MHz-16QAM-20175-25RB#0-4.476

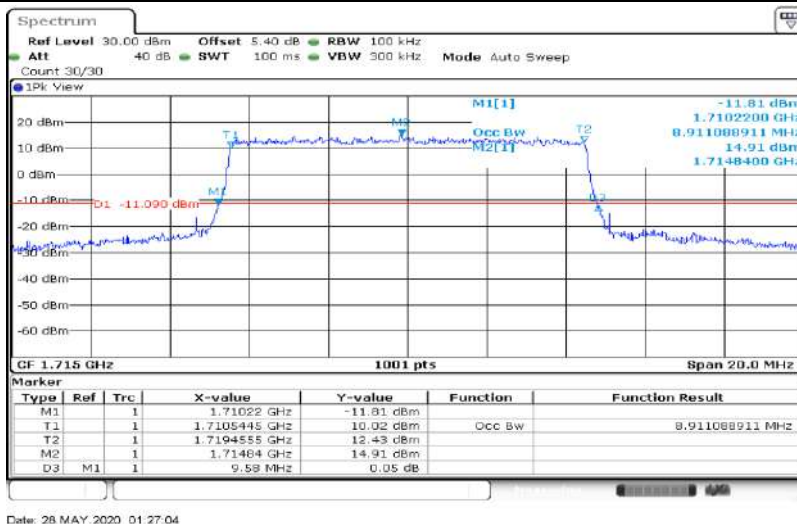


Band4-5MHz-16QAM-20375-25RB#0-4.476



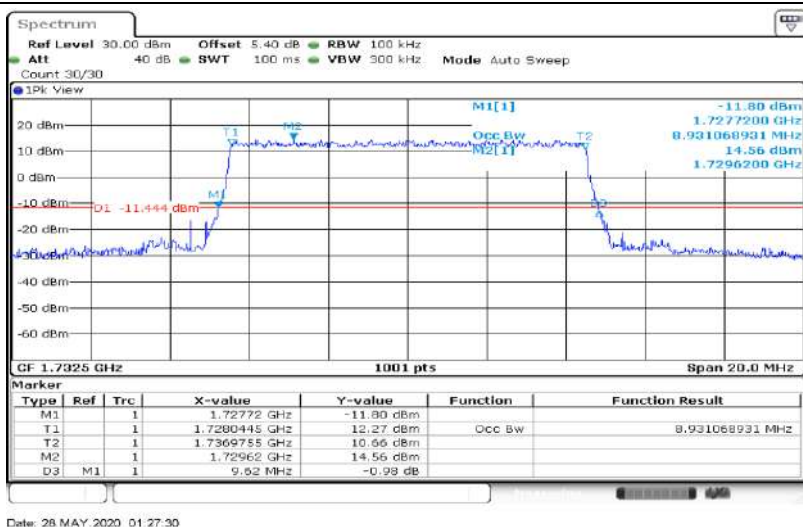


Band4-10MHz-QPSK-20000-50RB#0-8.911



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



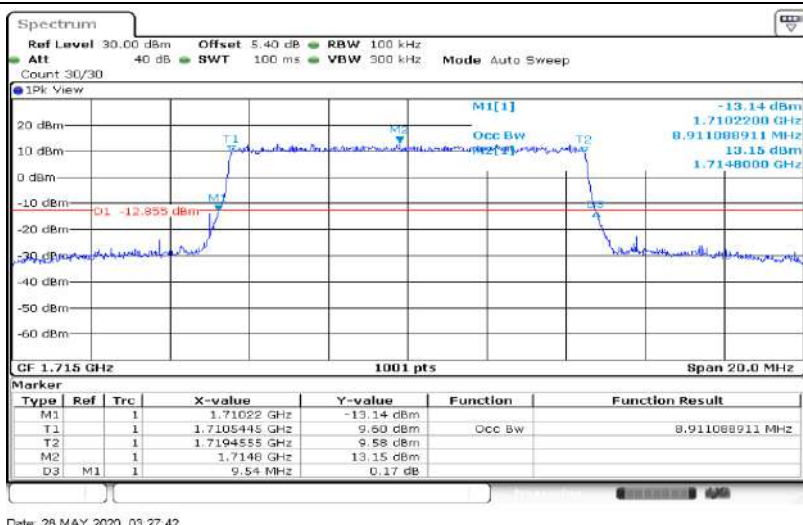


Band4-10MHz-QPSK-20350-50RB#0-8.931

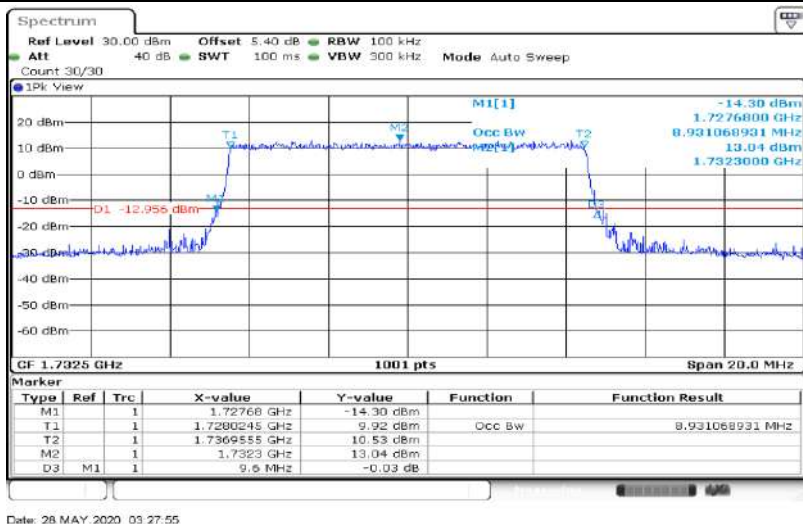


Band4-10MHz-64QAM-20000-50RB#0-8.911



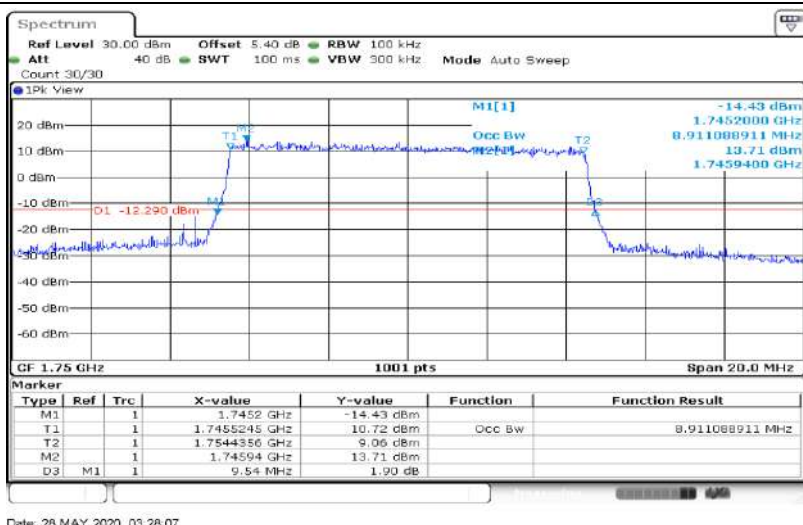


Band4-10MHz-64QAM-20175-50RB#0-8.931

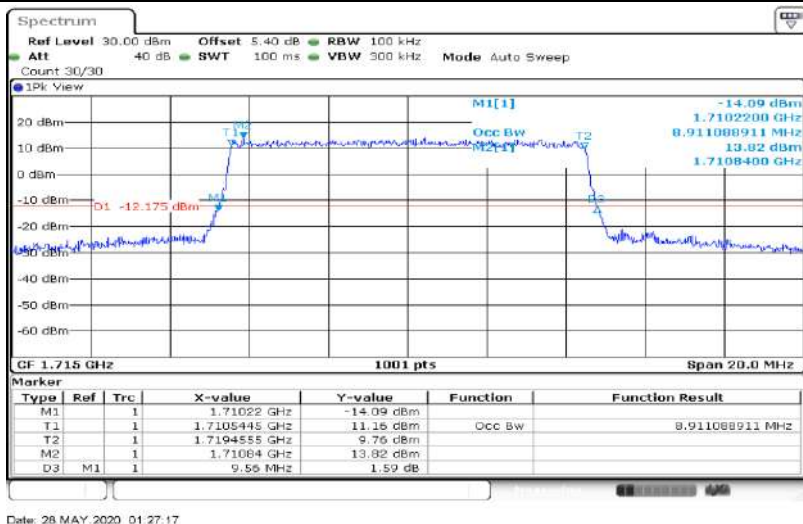


Band4-10MHz-64QAM-20350-50RB#0-8.911



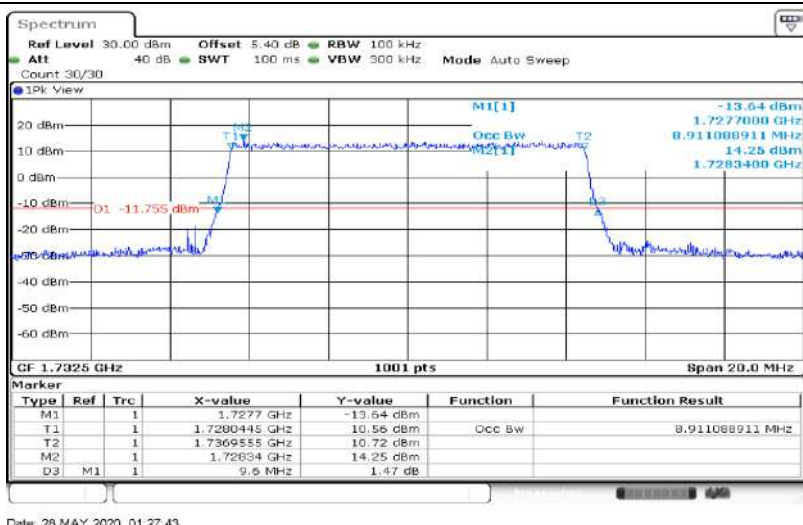


Band4-10MHz-16QAM-20000-50RB#0-8.911



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



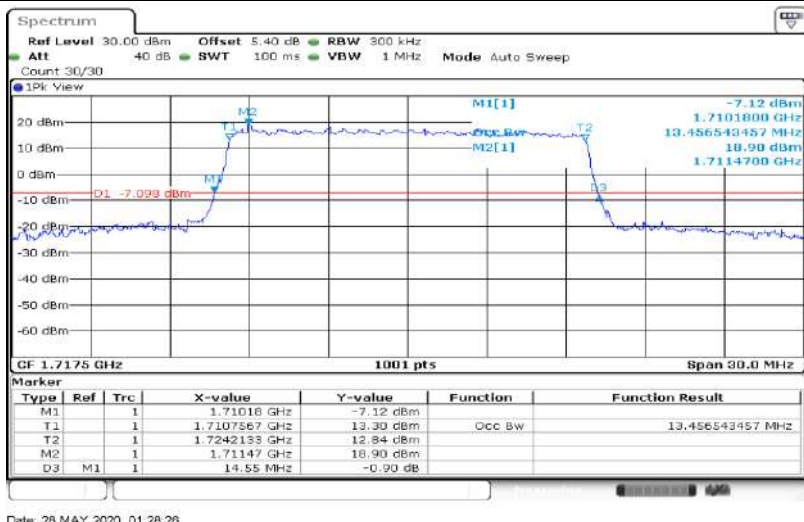


Band4-10MHz-16QAM-20350-50RB#0-8.911

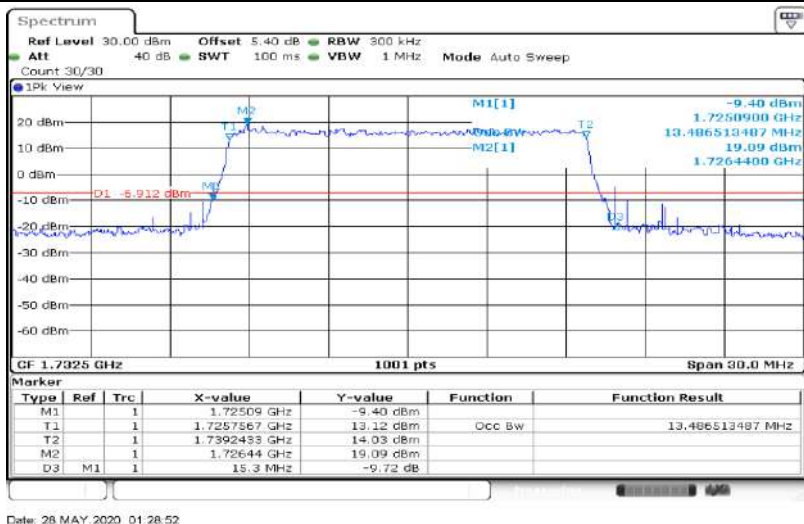


Band4-15MHz-QPSK-20025-75RB#0-13.457



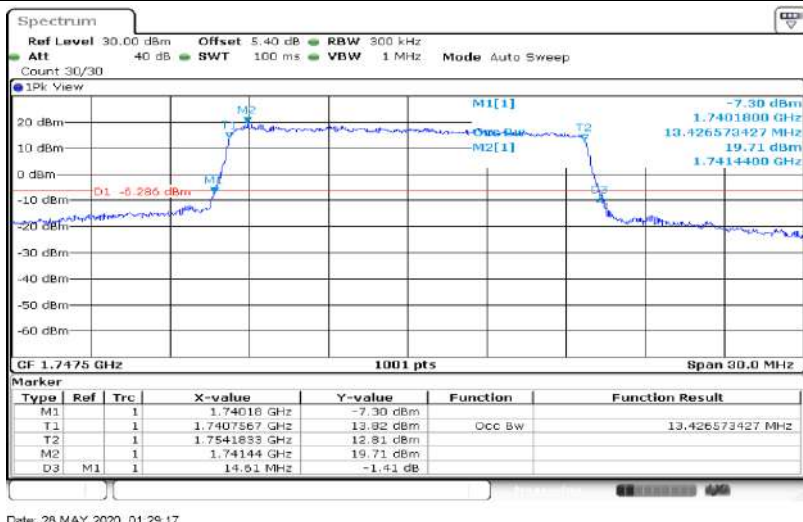


Band4-15MHz-QPSK-20175-75RB#0-13.487

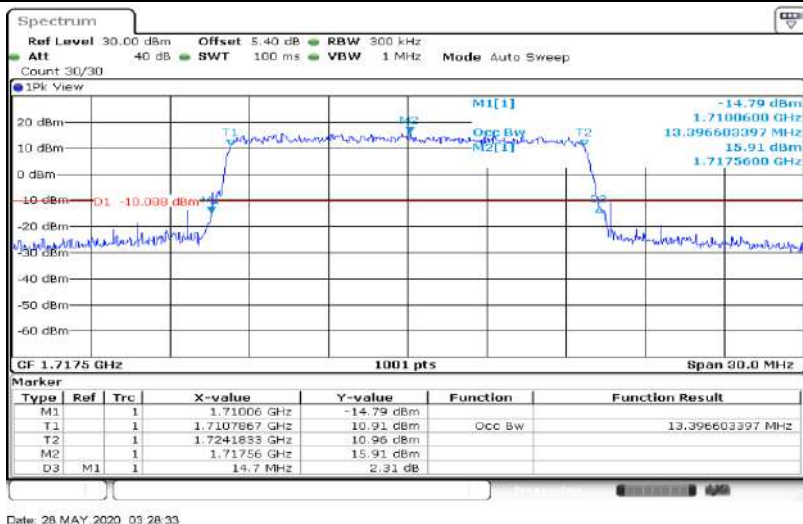


Band4-15MHz-QPSK-20325-75RB#0-13.427



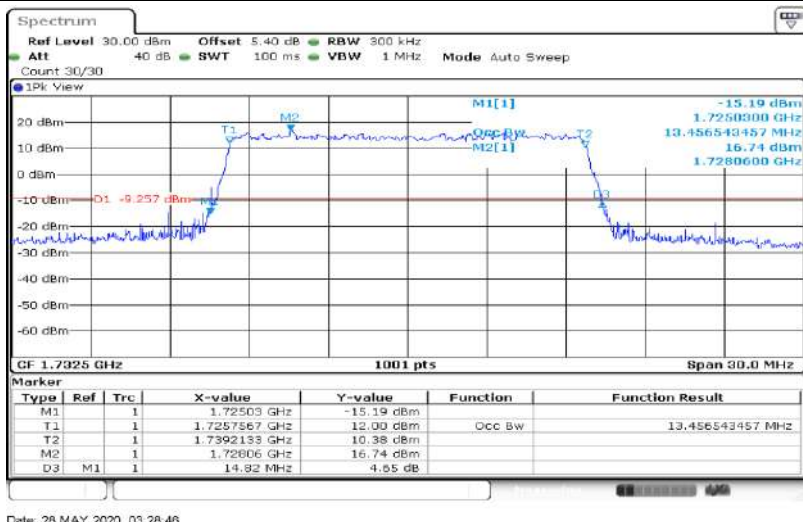


Band4-15MHz-64QAM-20025-75RB#0-13.397

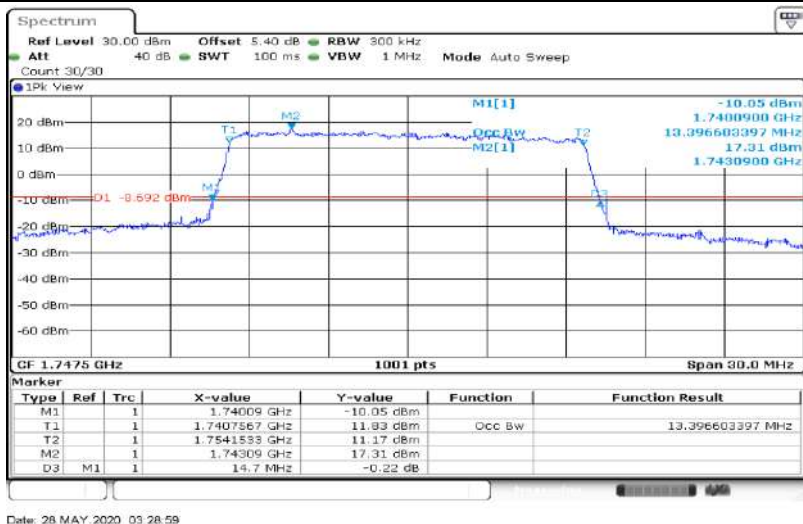


Band4-15MHz-64QAM-20175-75RB#0-13.457



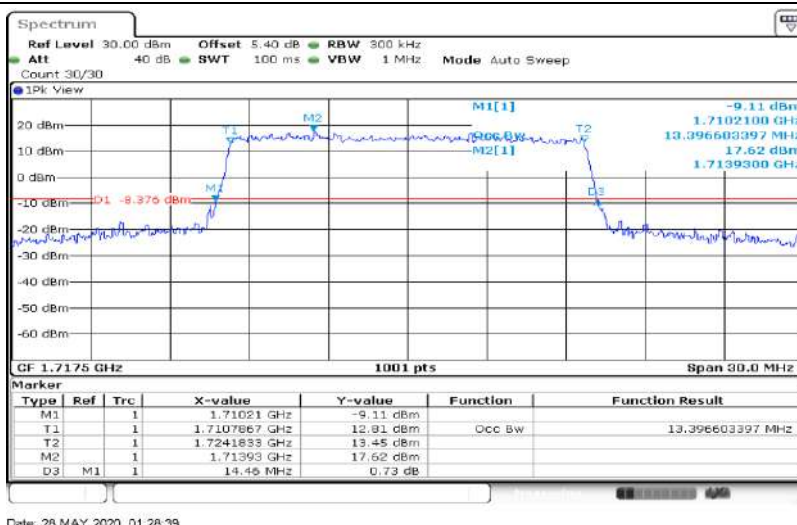


Band4-15MHz-64QAM-20325-75RB#0-13.397

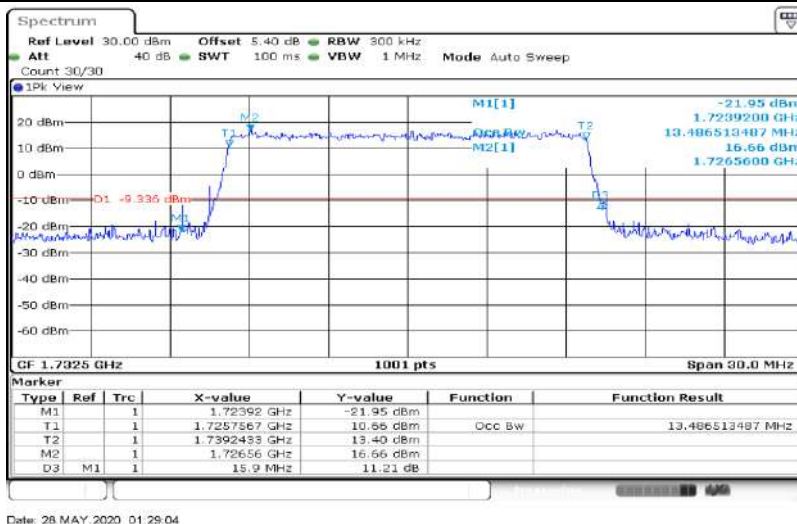


Band4-15MHz-16QAM-20025-75RB#0-13.397



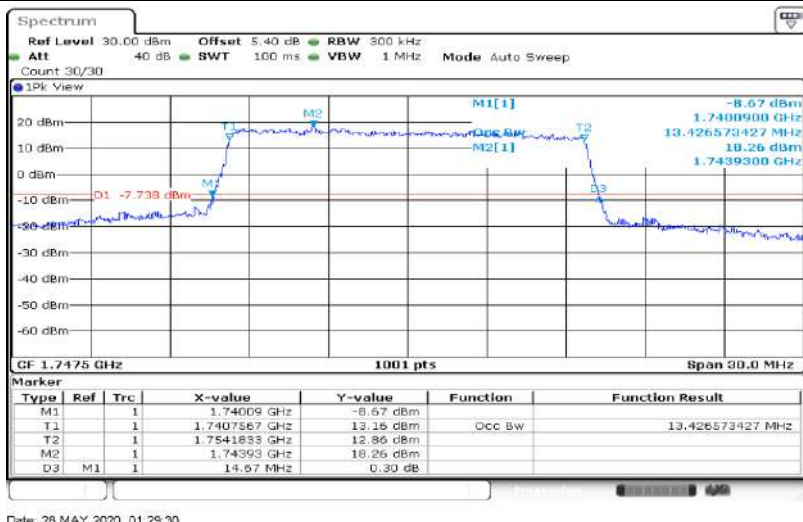


Band4-15MHz-16QAM-20175-75RB#0-13.487

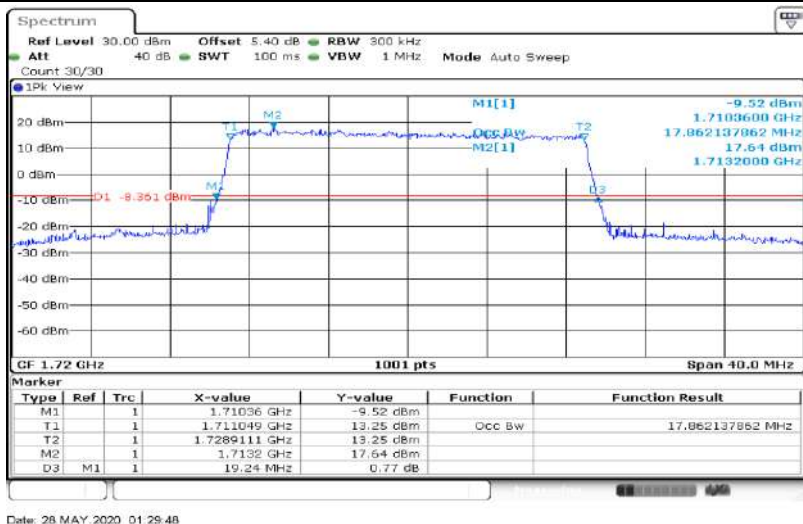


Band4-15MHz-16QAM-20325-75RB#0-13.427



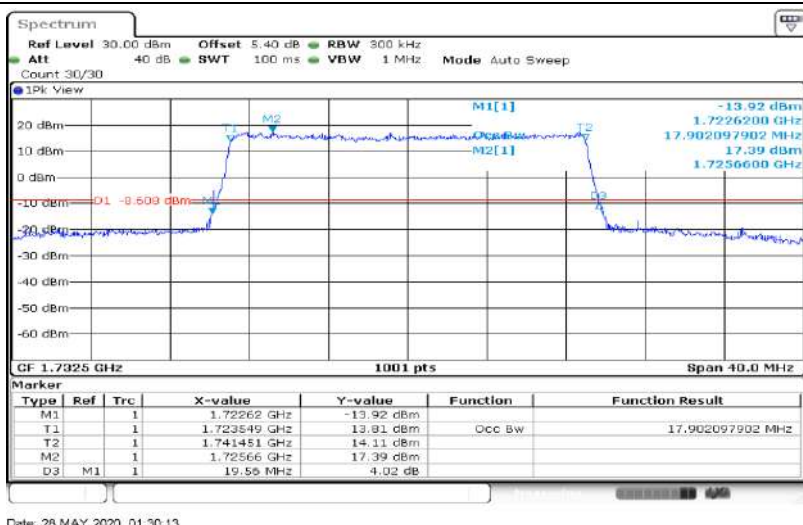


Band4-20MHz-QPSK-20050-100RB#0-17.862

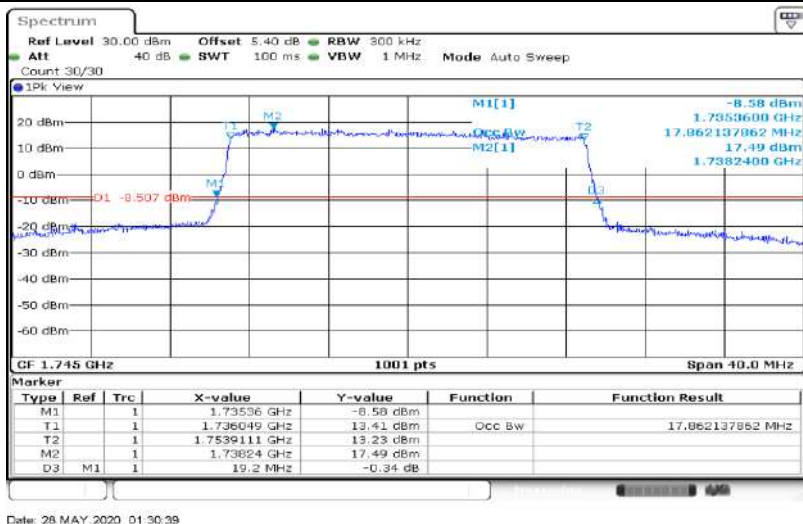


Band4-20MHz-QPSK-20175-100RB#0-17.902



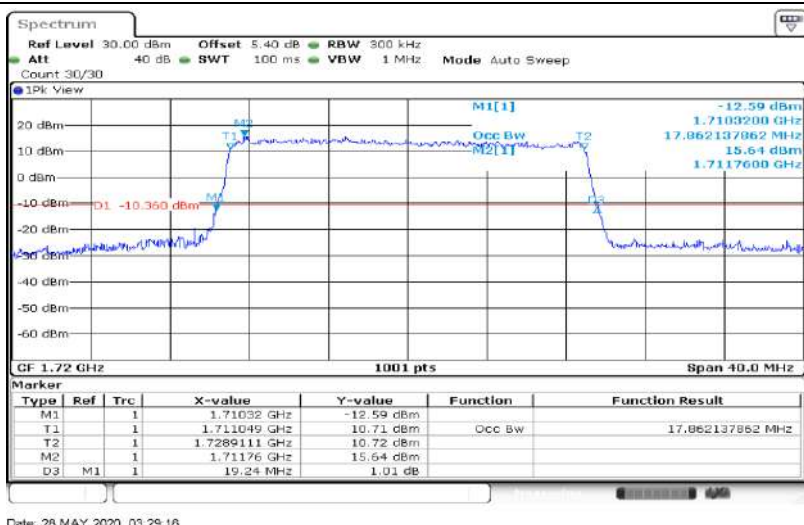


Band4-20MHz-QPSK-20300-100RB#0-17.862

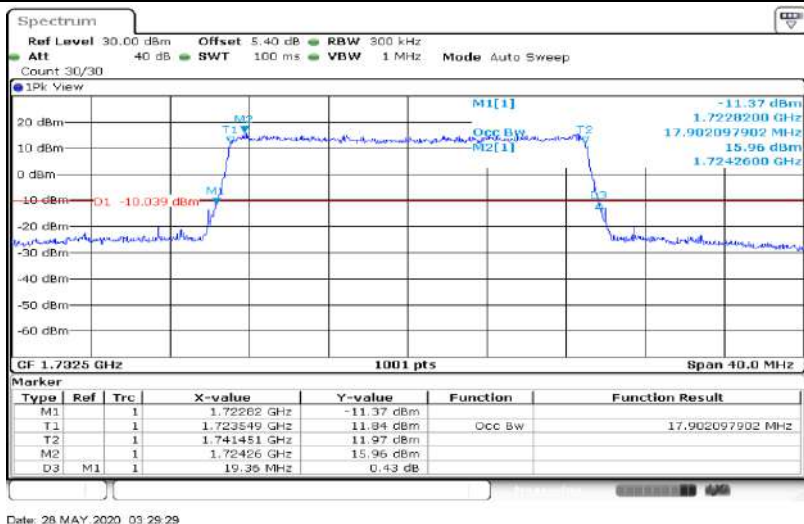


Band4-20MHz-64QAM-20050-100RB#0-17.862



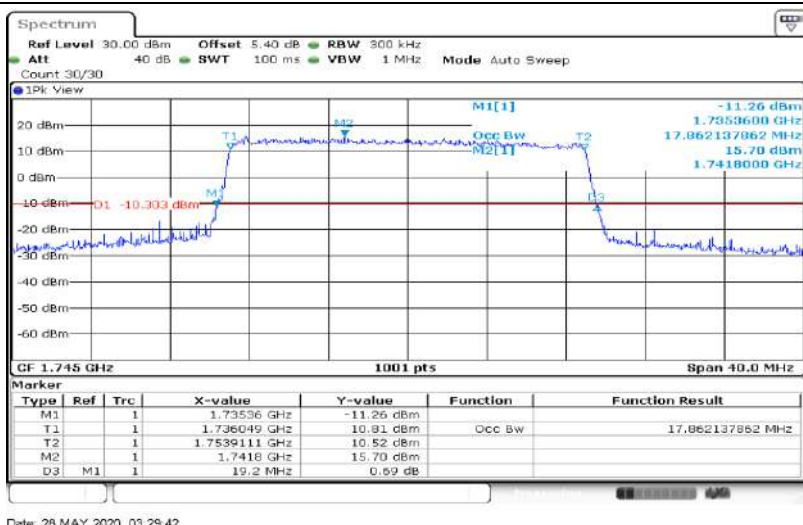


Band4-20MHz-64QAM-20175-100RB#0-17.902

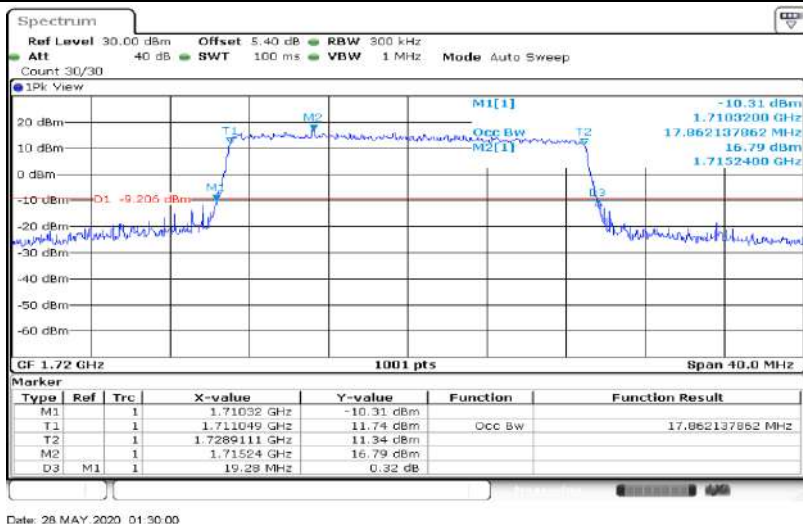


Band4-20MHz-64QAM-20300-100RB#0-17.862



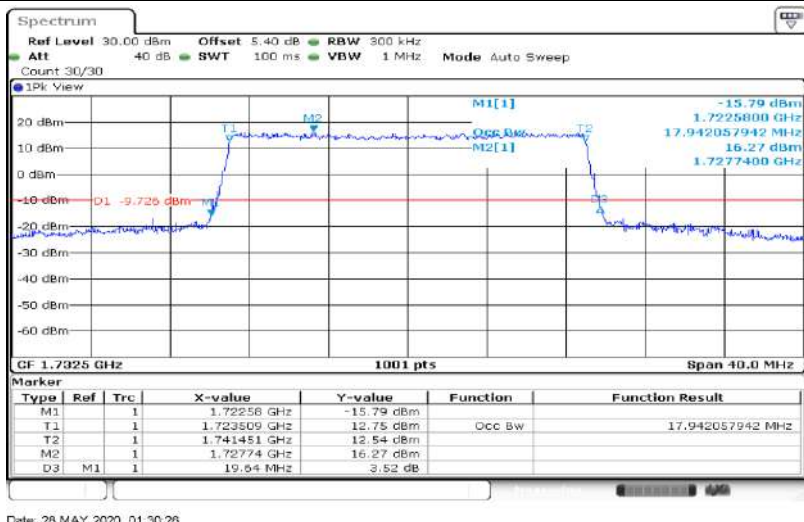


Band4-20MHz-16QAM-20050-100RB#0-17.862

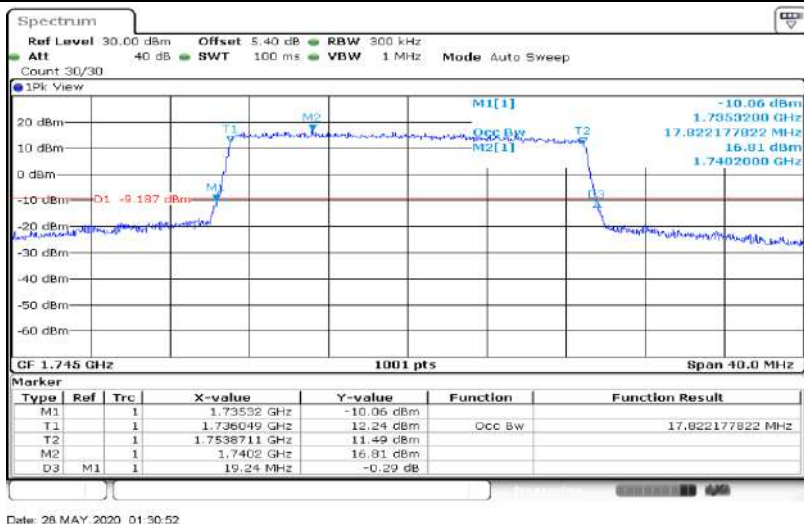


Band4-20MHz-16QAM-20175-100RB#0-17.942





Band4-20MHz-16QAM-20300-100RB#0-17.822



5. Band Edge Compliance

5.1. Test Plots

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

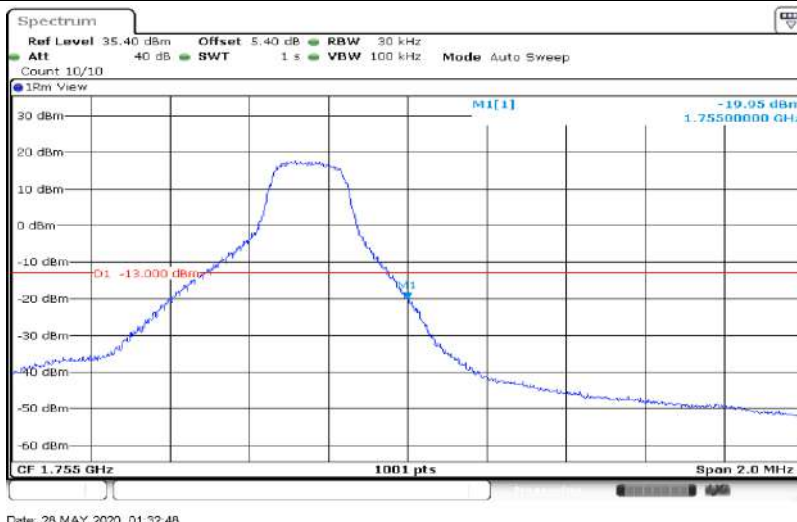


Band4-1.4MHz-QPSK-19957-6RB#0



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





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



Band4-1.4MHz-64QAM-19957-1RB#0



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

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

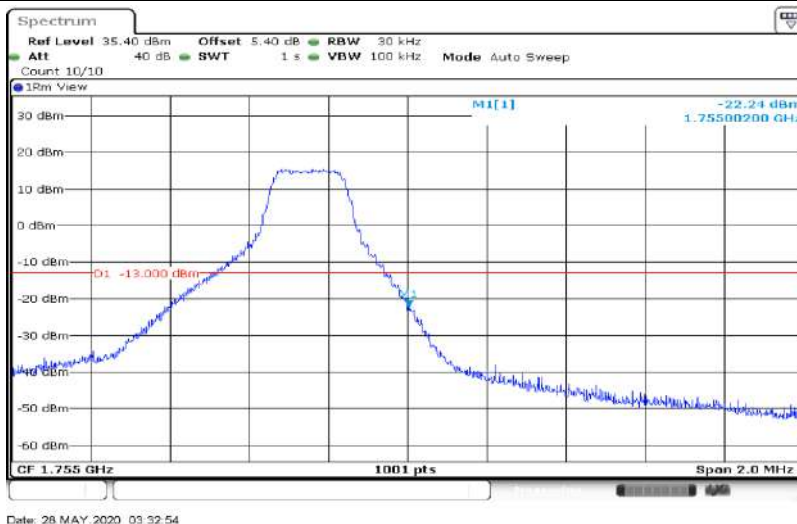


Band4-1.4MHz-64QAM-19957-6RB#0

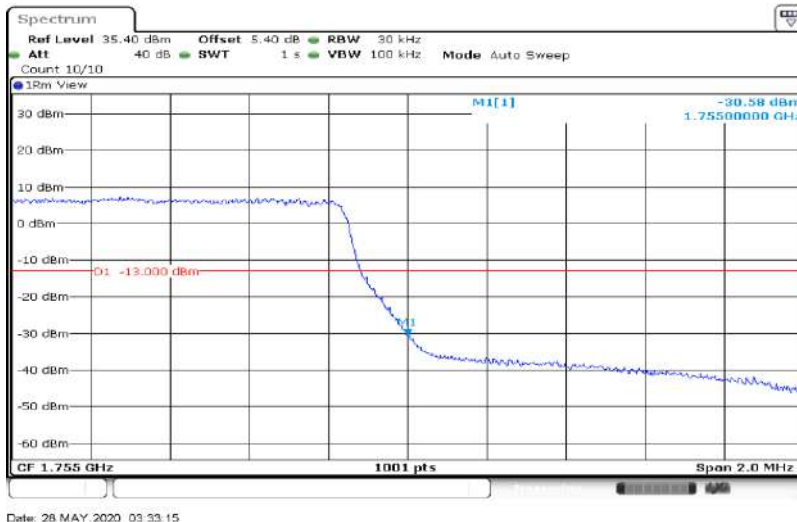


Band4-1.4MHz-64QAM-20393-1RB#5





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



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



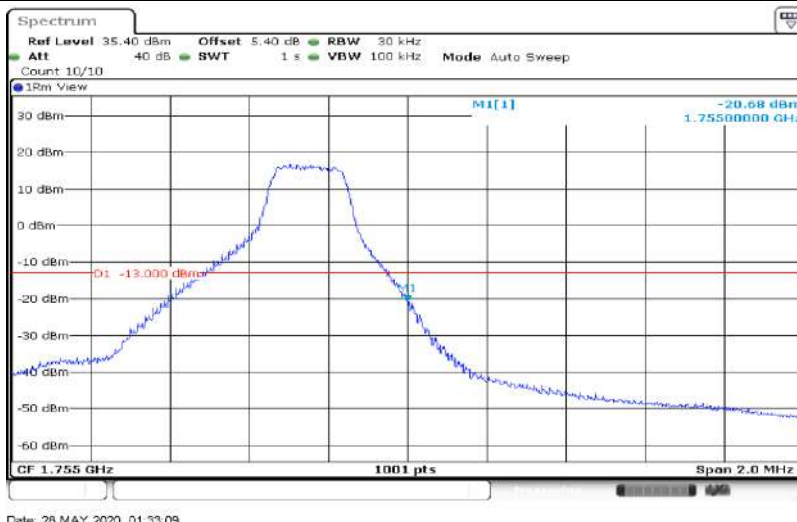


Band4-1.4MHz-16QAM-19957-6RB#0

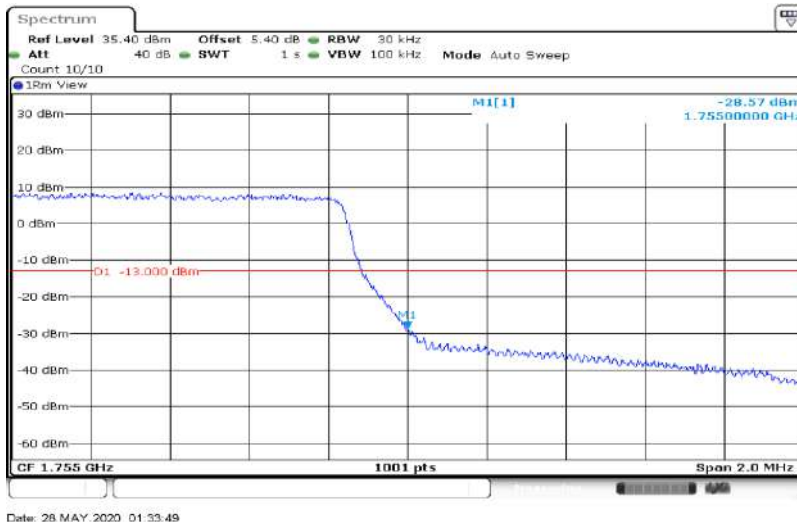


Band4-1.4MHz-16QAM-20393-1RB#5





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

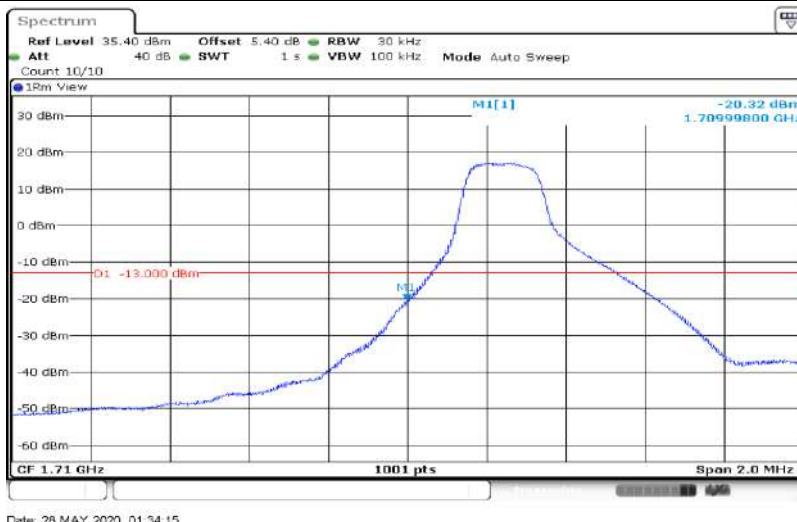


Band4-3MHz-QPSK-19965-1RB#0



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

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



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

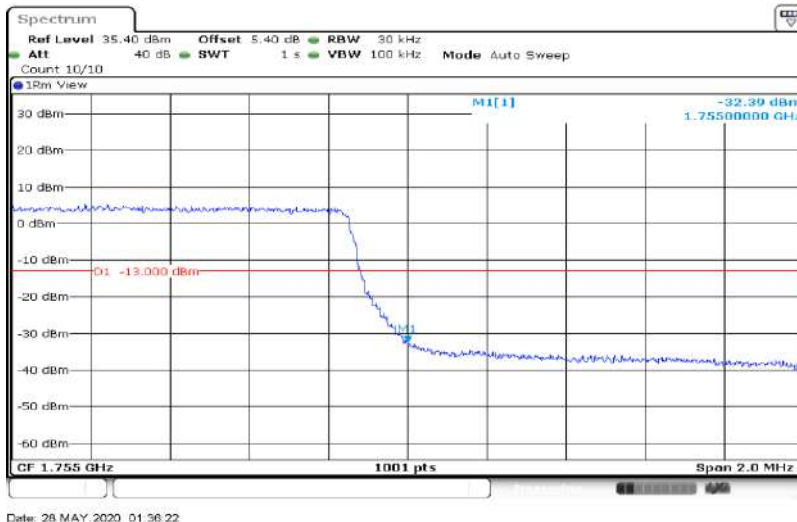


Band4-3MHz-QPSK-20385-1RB#14





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



Band4-3MHz-64QAM-19965-1RB#0





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



Band4-3MHz-64QAM-20385-1RB#14



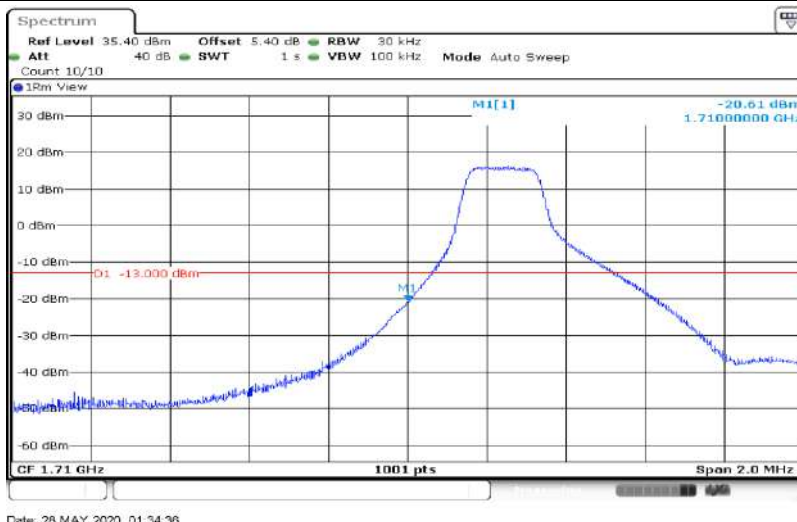


Band4-3MHz-64QAM-20385-15RB#0



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





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



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





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



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



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

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

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



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



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





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



Band4-5MHz-64QAM-19975-1RB#0





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



Band4-5MHz-64QAM-20375-1RB#24

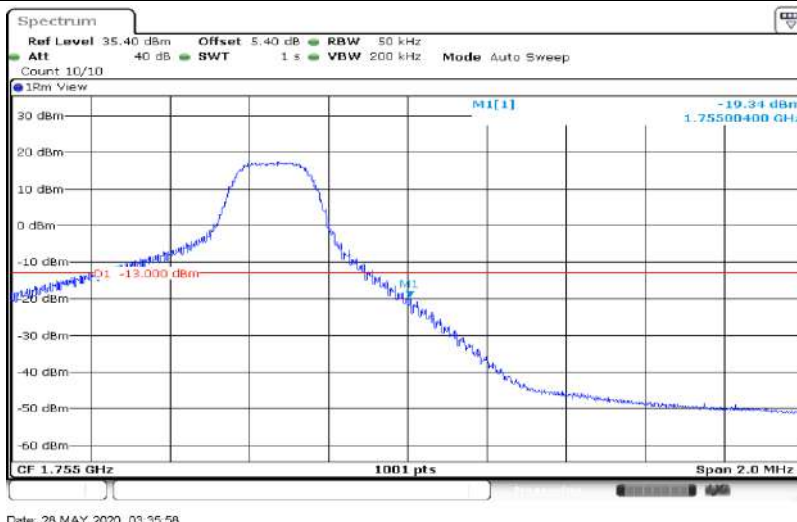


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>, and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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 contract from their mutual obligations and liabilities. The Company's findings are not binding on third parties. Any alteration, 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.

For any request for copy of testing / inspection reports or certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN@cncheck.com

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

中国·深圳·科技园中区M-10-1栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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



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



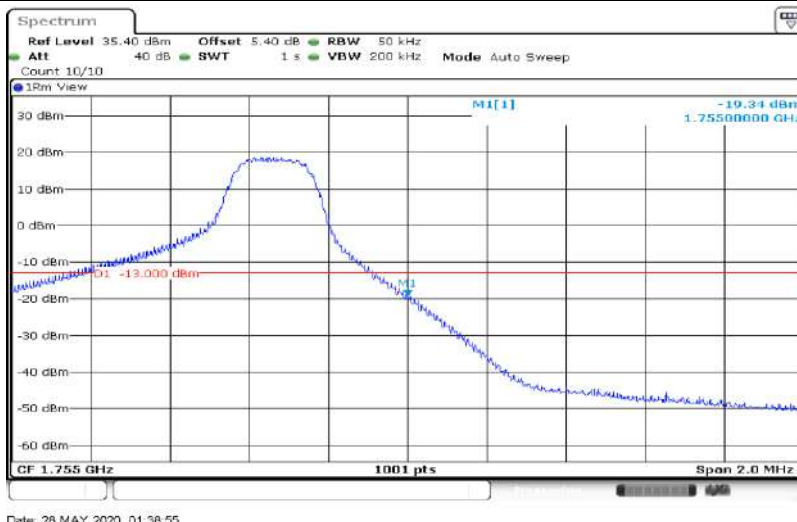


Band4-5MHz-16QAM-19975-25RB#0



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





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



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





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

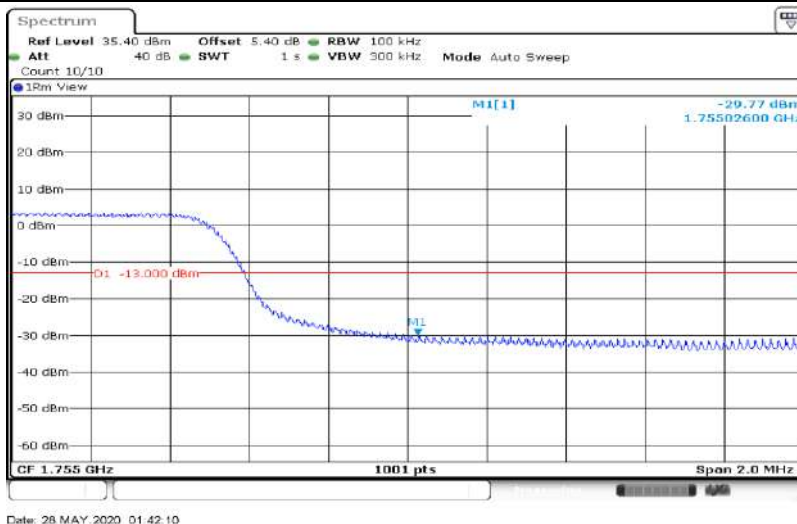


Band4-10MHz-QPSK-20350-1RB#49





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



Band4-10MHz-64QAM-20000-1RB#0





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

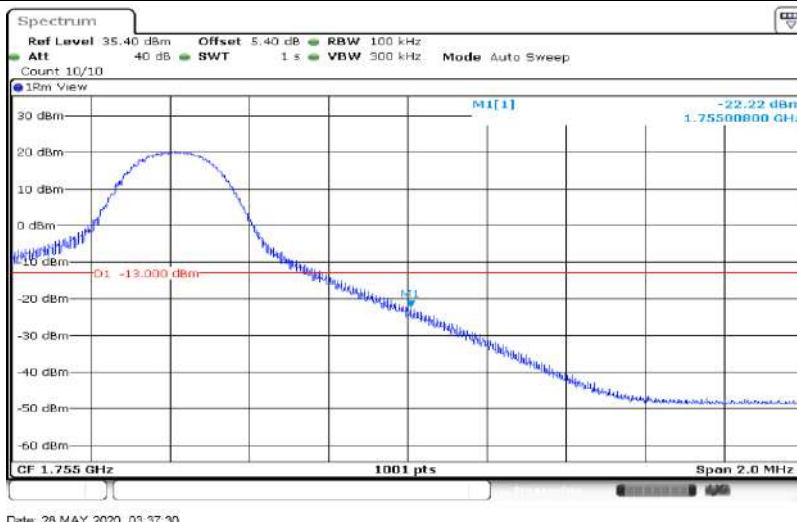


Band4-10MHz-64QAM-20350-1RB#49

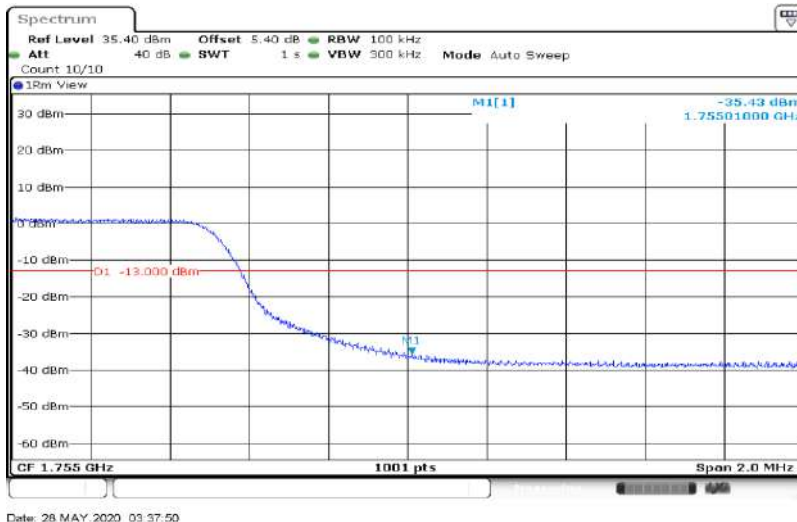


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



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



Band4-10MHz-16QAM-20000-1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



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

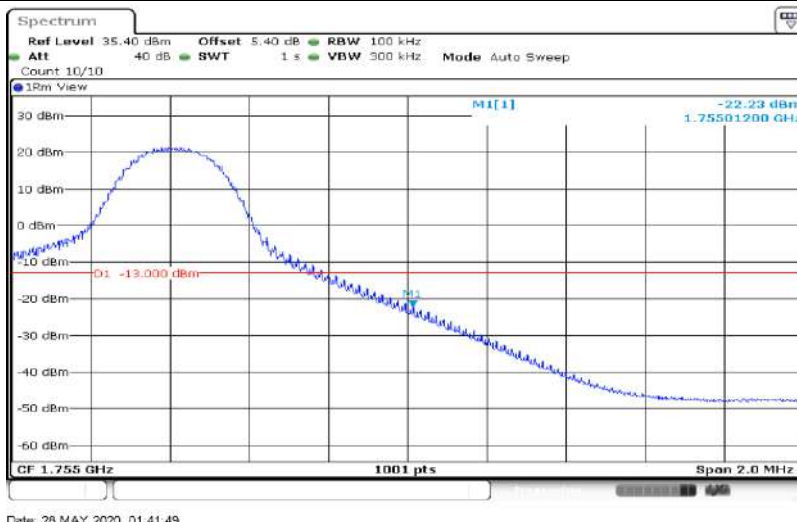


Band4-10MHz-16QAM-20350-1RB#49



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

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



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

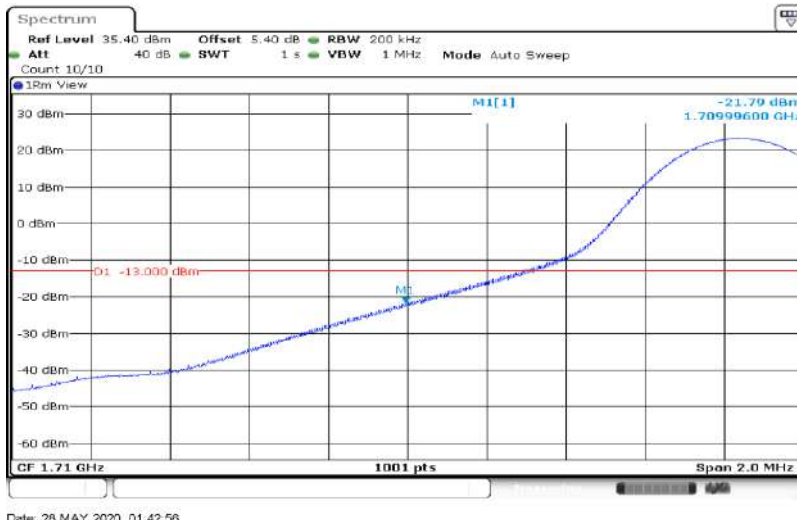


Band4-15MHz-QPSK-20025-1RB#0

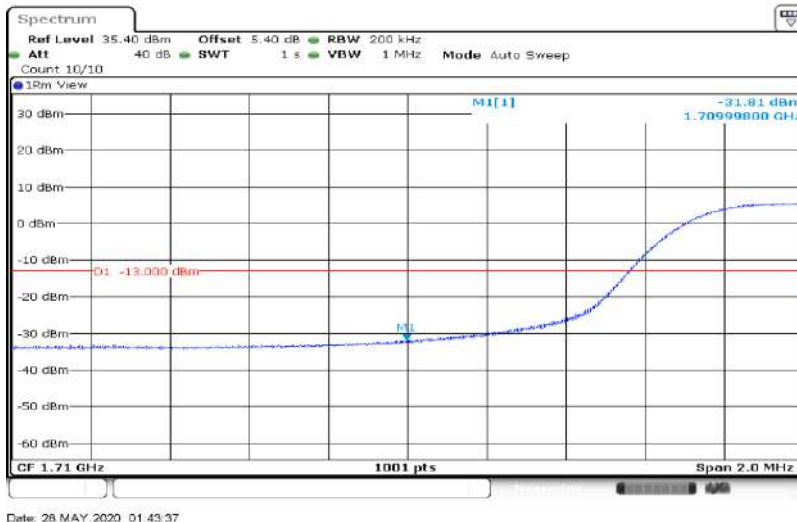


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



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



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



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

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



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



Band4-15MHz-64QAM-20025-1RB#0



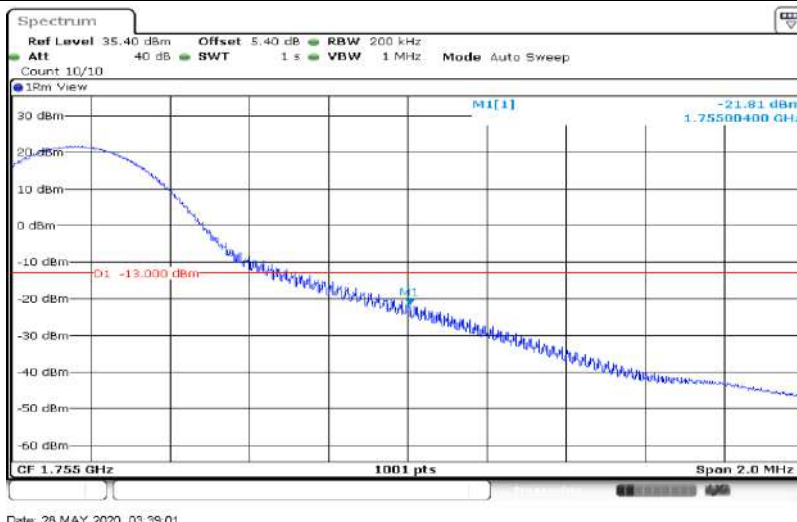


Band4-15MHz-64QAM-20025-75RB#0



Band4-15MHz-64QAM-20325-1RB#74





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



Band4-15MHz-16QAM-20025-1RB#0

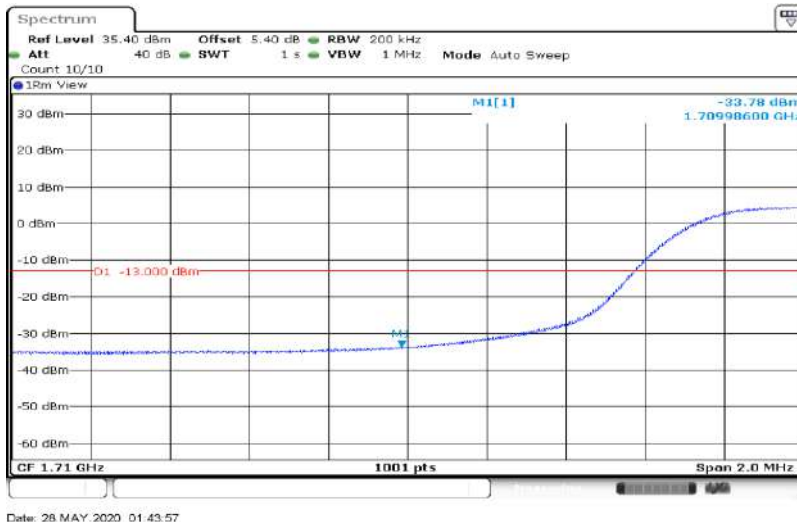


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



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

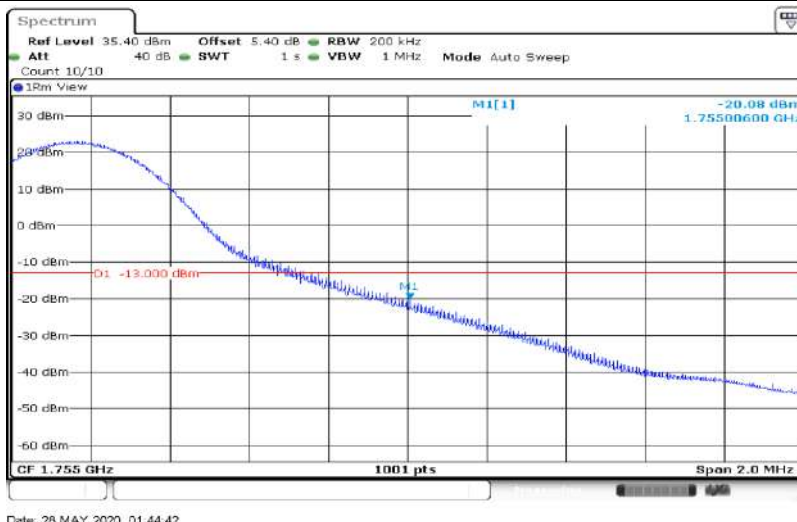


Band4-15MHz-16QAM-20325-1RB#74

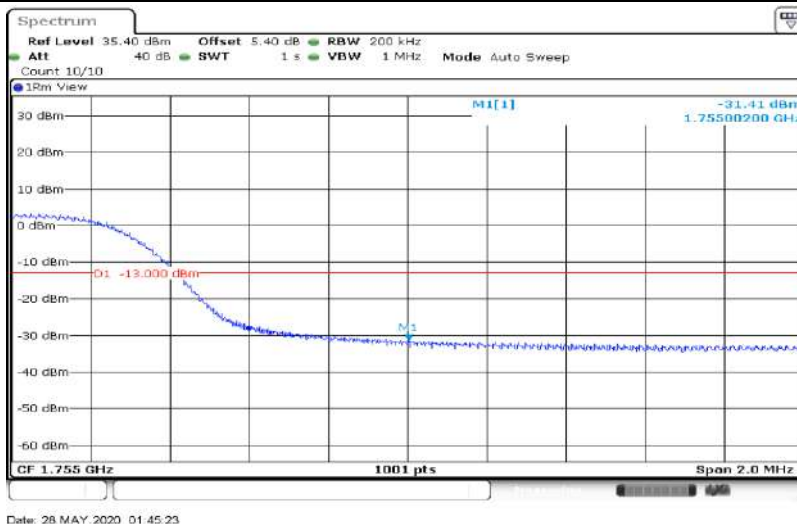


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



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



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





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



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

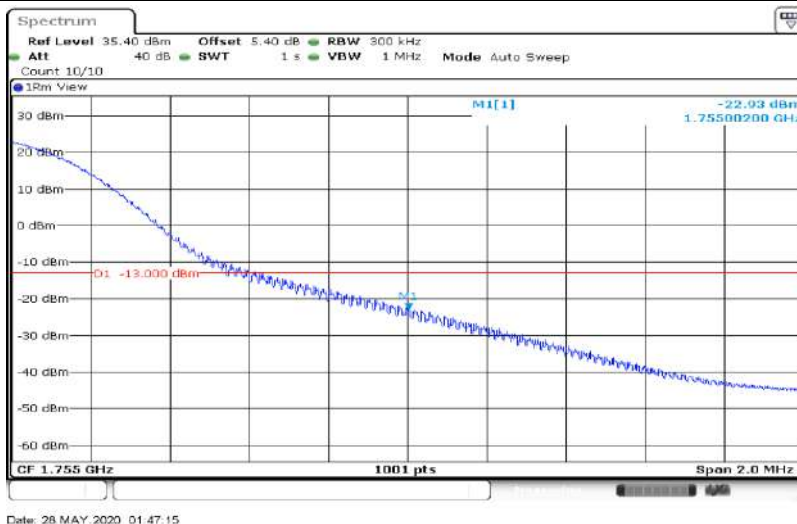


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

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



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



Band4-20MHz-64QAM-20050-1RB#0





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



Band4-20MHz-64QAM-20300-1RB#99

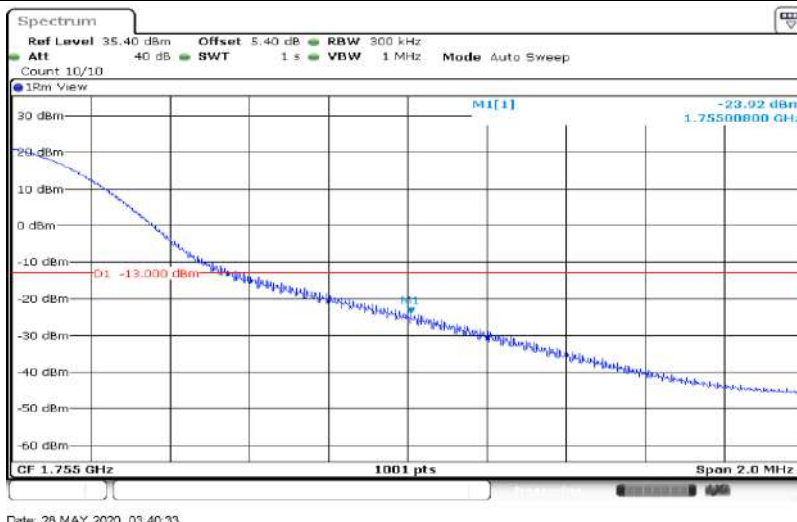


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

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



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



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



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

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

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

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

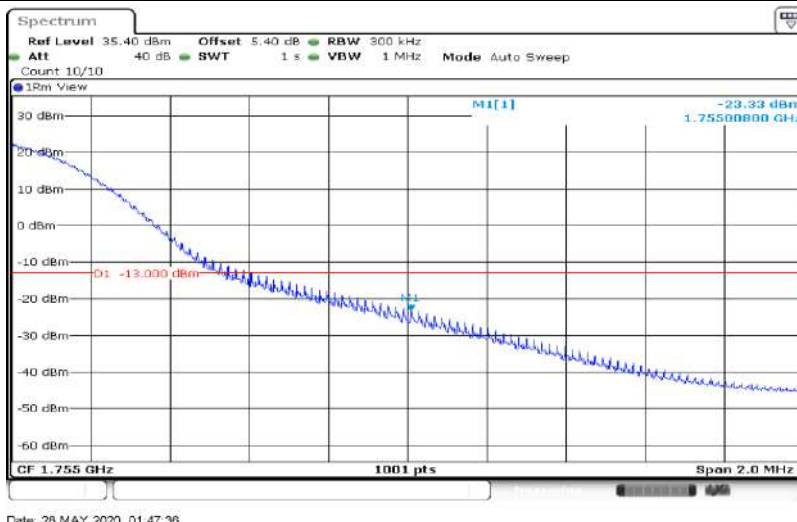


Band4-20MHz-16QAM-20050-100RB#0



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





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



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

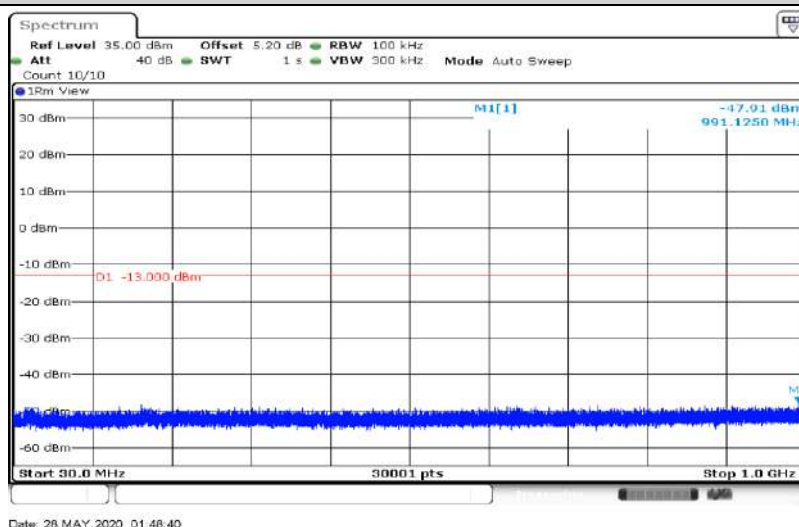
6. Spurious Emission at Antenna Terminal

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

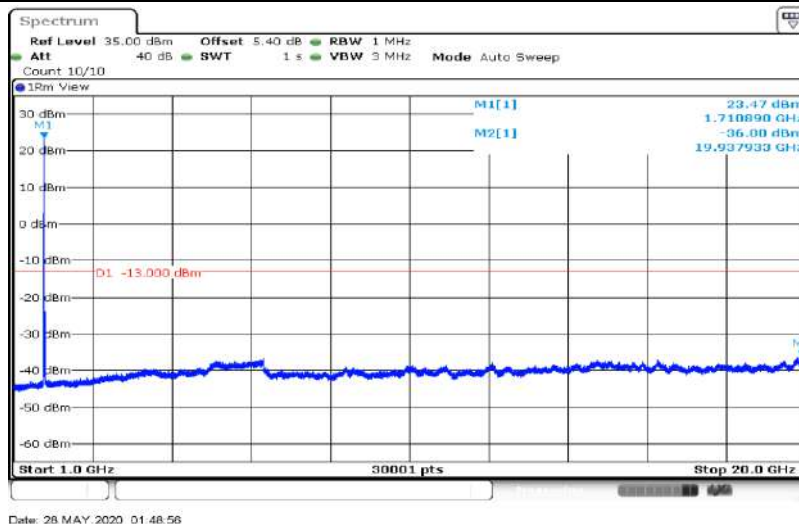
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

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

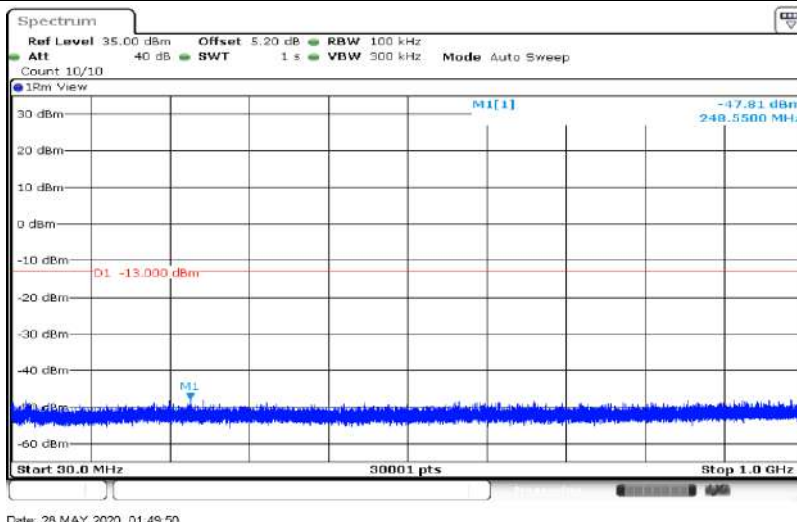


Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz

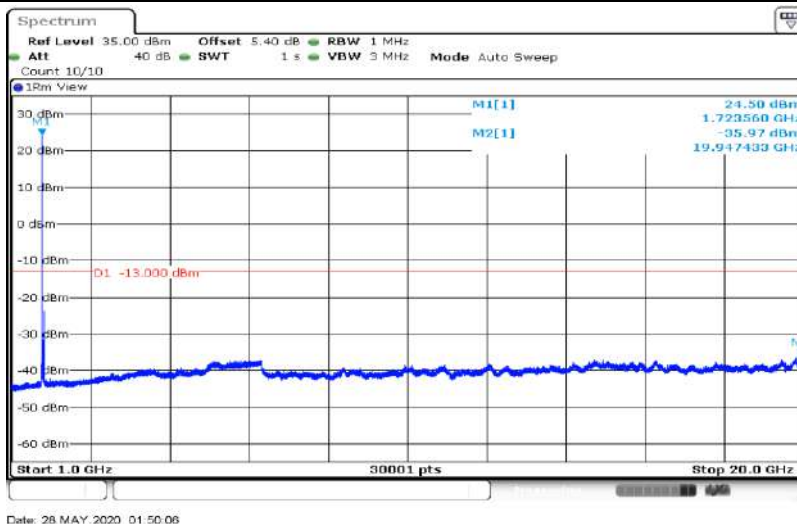


Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz





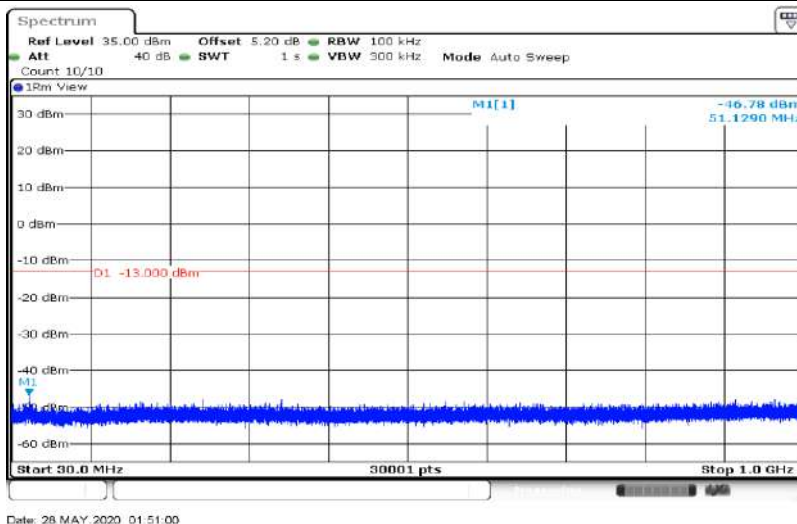
Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



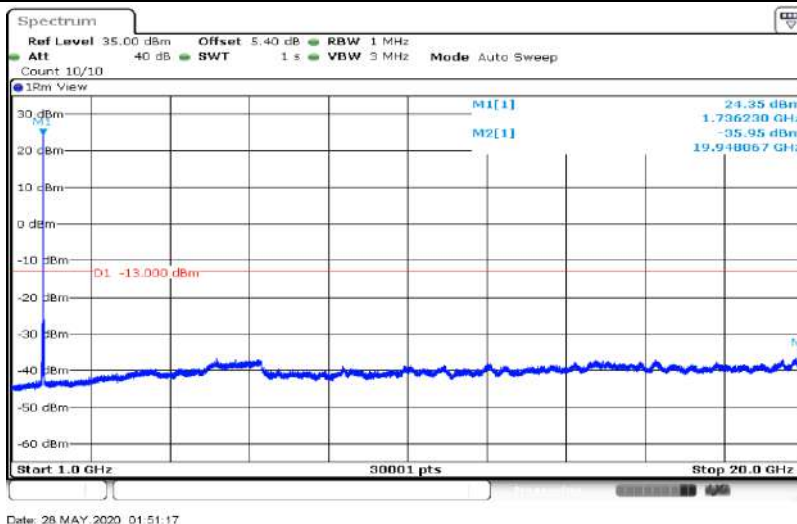
Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

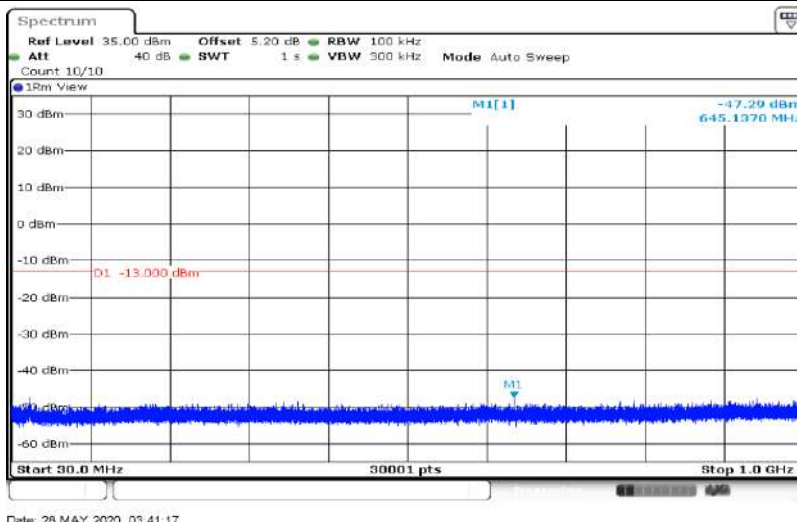


Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz

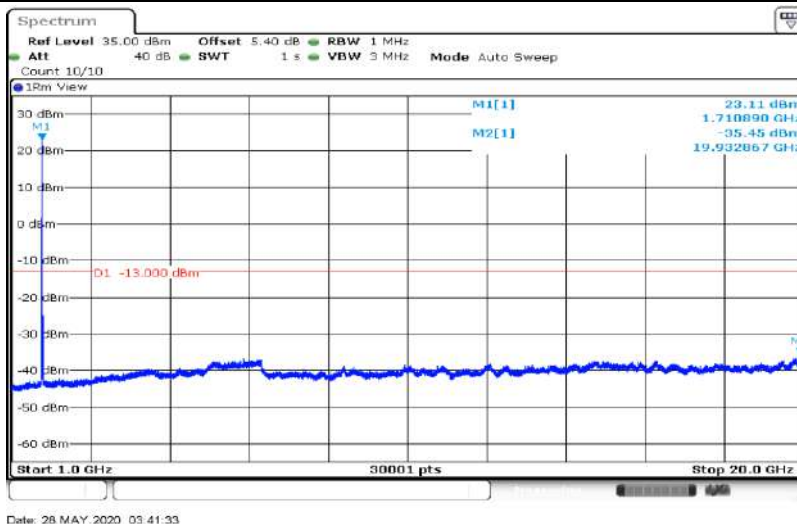


Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz





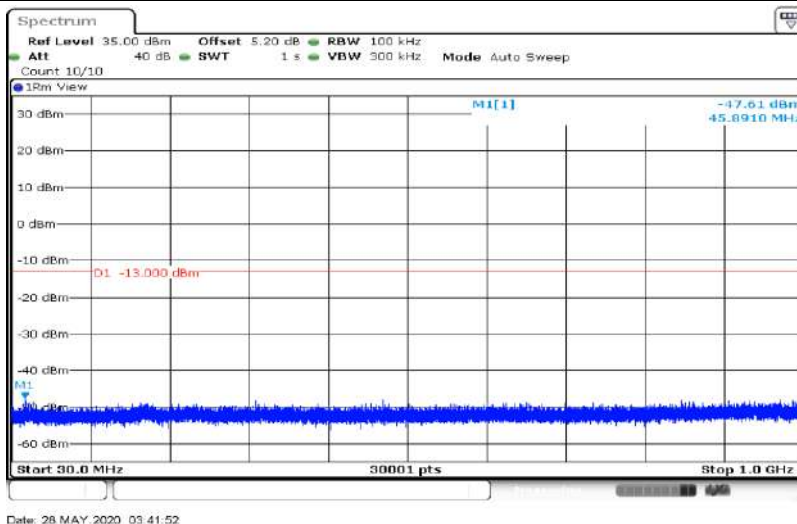
Band4-20MHz-64QAM-20050-1RB#0-Range2:1000~20000MHz



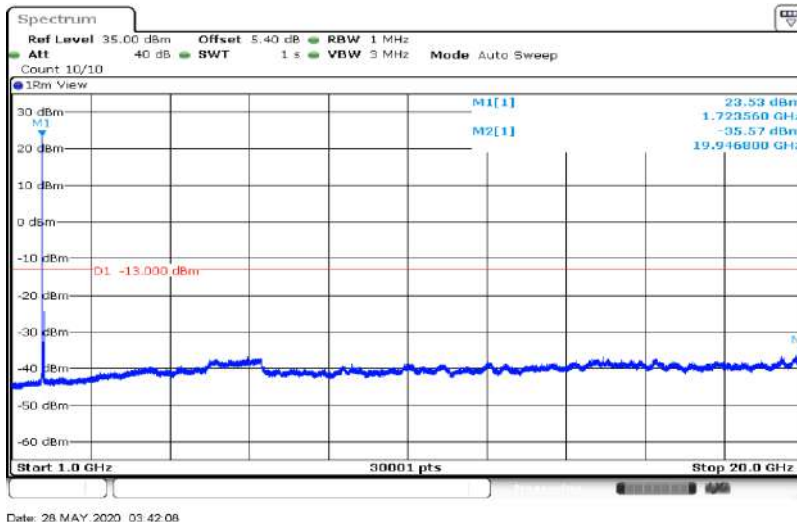
Band4-20MHz-64QAM-20175-1RB#0-Range1:30~1000MHz



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

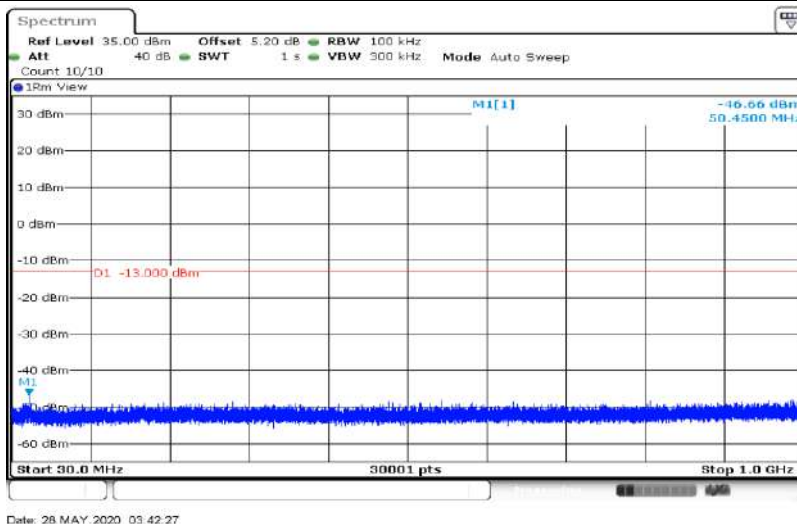


Band4-20MHz-64QAM-20175-1RB#0-Range2:1000~20000MHz

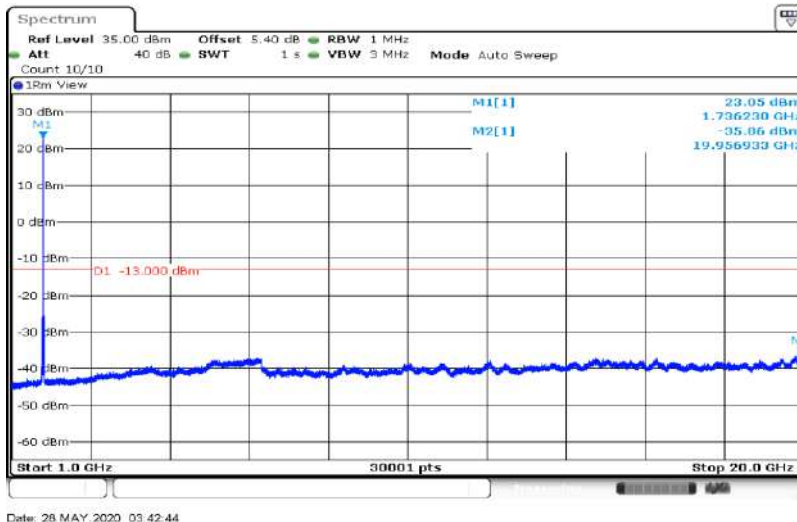


Band4-20MHz-64QAM-20300-1RB#0-Range1:30~1000MHz



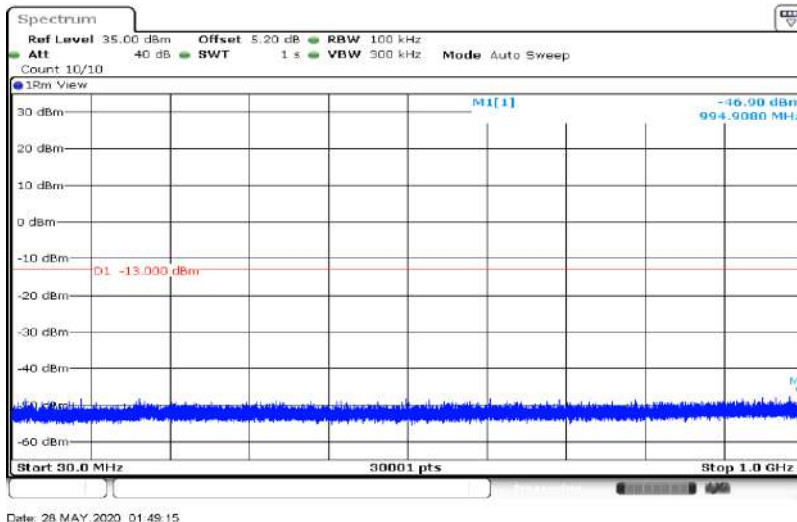


Band4-20MHz-64QAM-20300-1RB#0-Range2:1000~20000MHz

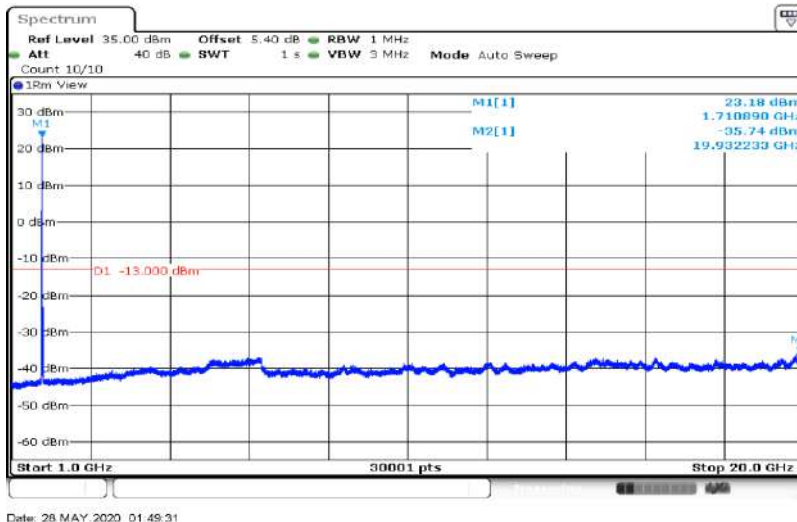


Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz





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



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

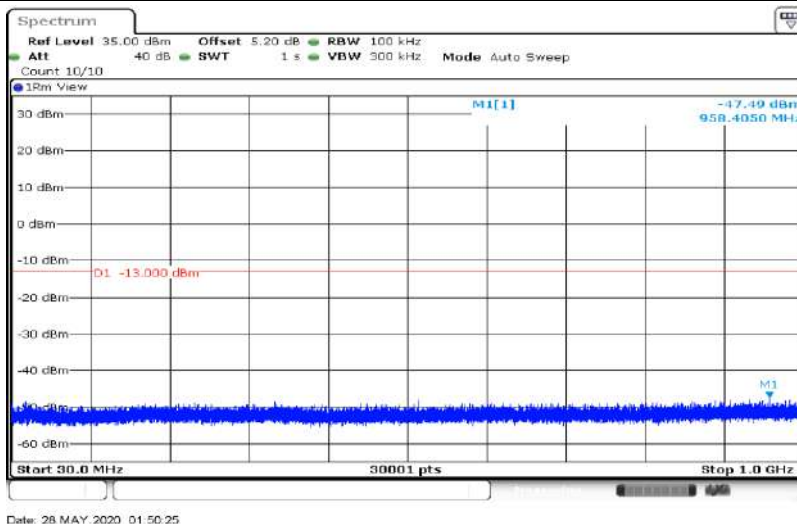


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

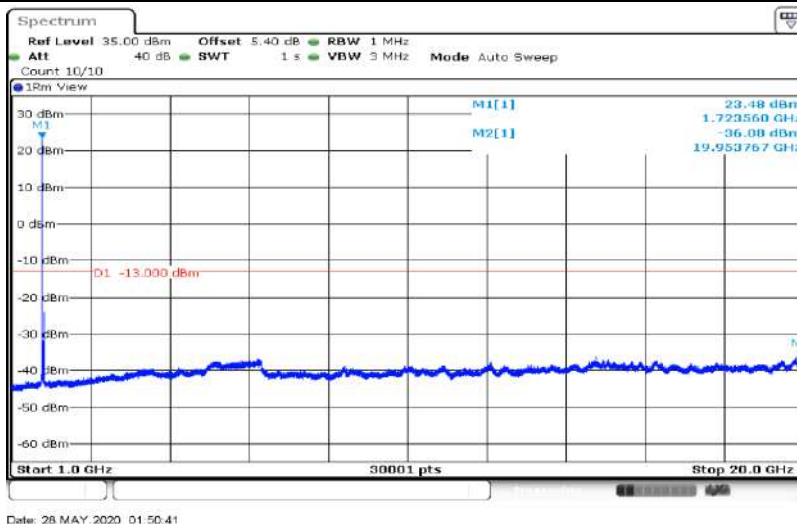
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

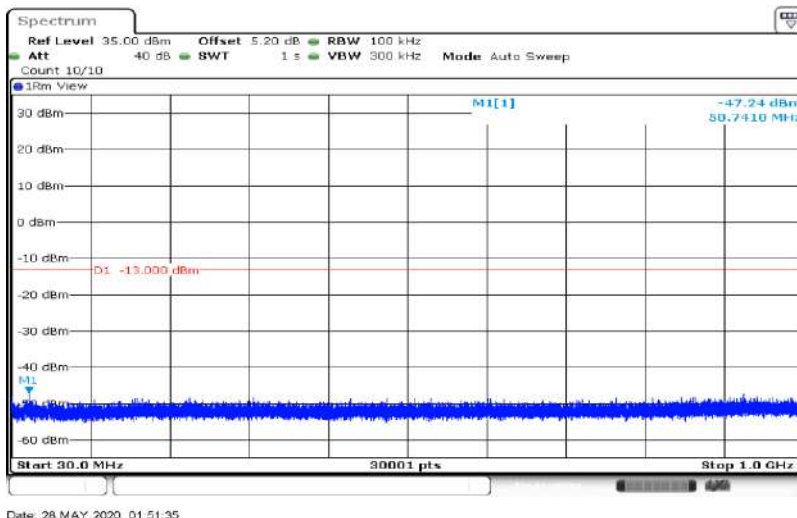


Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz

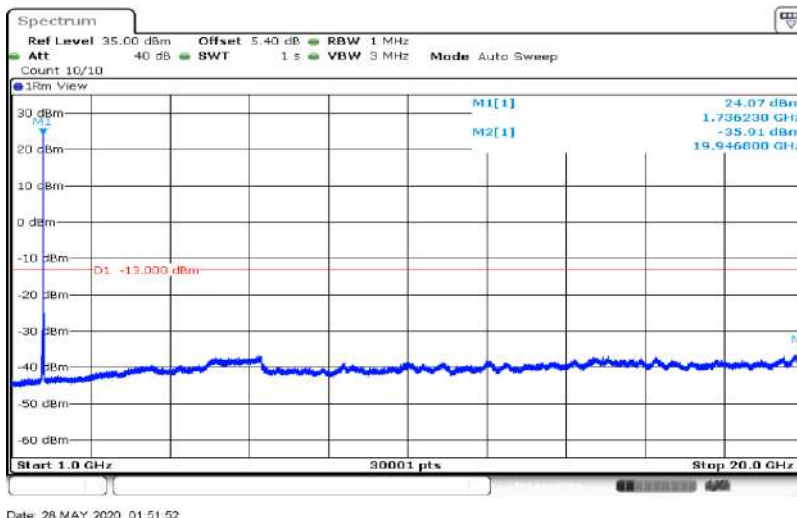


Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz





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



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

7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.9805	-65.10	-13.00	52.10	147	261	Vertical
608.3914	-64.21	-13.00	51.21	196	230	Vertical
2699.9400	-36.47	-13.00	23.47	188	4	Vertical
7462.6488	-55.79	-13.00	42.79	175	40	Vertical
14479.3826	-47.59	-13.00	34.59	194	8	Vertical
17995.4999	-39.91	-13.00	26.91	185	230	Vertical
45.3268	-64.58	-13.00	51.58	241	325	Horizontal
778.5864	-62.43	-13.00	49.43	178	8	Horizontal
2700.3401	-35.42	-13.00	22.42	196	359	Horizontal
7464.6488	-56.32	-13.00	43.32	188	135	Horizontal
16390.4463	-43.91	-13.00	30.91	195	135	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
112.1146	-64.06	-13.00	51.06	148	71	Vertical
613.7267	-63.83	-13.00	50.83	175	8	Vertical
2702.7405	-36.59	-13.00	23.59	196	196	Vertical
7407.6469	-55.77	-13.00	42.77	188	325	Vertical
14481.3827	-47.65	-13.00	34.65	175	198	Vertical
17999.0000	-39.61	-13.00	26.61	196	8	Vertical
42.9016	-65.14	-13.00	52.14	271	9	Horizontal
754.9172	-62.01	-13.00	49.01	256	9	Horizontal
2699.1398	-35.32	-13.00	22.32	284	340	Horizontal
7461.1487	-56.37	-13.00	43.37	257	356	Horizontal
16363.9455	-43.33	-13.00	30.33	265	104	Horizontal
17995.9999	-44.61	-13.00	31.61	224	198	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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch / 深圳分公司 / 检验测试实验室

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



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
106.9733	-65.92	-13.00	52.92	224	230	Vertical
591.1246	-63.87	-13.00	50.87	265	356	Vertical
2701.9404	-36.57	-13.00	23.57	284	52	Vertical
8021.1674	-55.34	-13.00	42.34	259	166	Vertical
14694.8898	-47.62	-13.00	34.62	271	8	Vertical
17996.4999	-39.58	-13.00	26.58	269	325	Vertical
40.3795	-64.48	-13.00	51.48	198	230	Horizontal
229.5875	-68.32	-13.00	55.32	175	166	Horizontal
2700.3401	-35.37	-13.00	22.37	196	141	Horizontal
7484.6495	-56.11	-13.00	43.11	188	230	Horizontal
16394.9465	-43.13	-13.00	30.13	195	103	Horizontal
17991.9997	-44.37	-13.00	31.37	178	198	Horizontal

Remark:

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



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	-6.50	-0.003779	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-3.10	-0.001802	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-3.50	-0.002035	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-4.40	-0.002540	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-6.50	-0.003752	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-5.50	-0.003175	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-7.10	-0.004069	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-6.80	-0.003897	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-8.50	-0.004871	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	-3.40	-0.001977	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	-3.10	-0.001802	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	-2.10	-0.001221	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	-8.60	-0.004964	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	-7.00	-0.004040	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	-1.40	-0.000808	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-2.30	-0.001318	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-8.20	-0.004699	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-1.20	-0.000688	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-8.70	-0.005058	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	-7.30	-0.004244	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-2.20	-0.001279	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-3.10	-0.001789	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-2.70	-0.001558	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-4.80	-0.002771	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-2.70	-0.001547	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-4.70	-0.002693	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-5.10	-0.002923	±2.5	PASS



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

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

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

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



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	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-6.70	-0.003895	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-6.60	-0.003837	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-5.40	-0.003140	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-8.90	-0.005174	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-9.00	-0.005233	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	-4.70	-0.002733	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-6.70	-0.003867	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-4.40	-0.002540	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-6.80	-0.003925	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-6.50	-0.003752	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-7.00	-0.004040	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-7.50	-0.004329	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-6.30	-0.003636	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-1.40	-0.000808	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-6.70	-0.003840	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-7.70	-0.004413	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-10.70	-0.006132	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-6.70	-0.003840	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-6.10	-0.003496	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-5.00	-0.002865	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-10.90	-0.006246	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-7.70	-0.004413	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	-1.90	-0.001105	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	-5.80	-0.003372	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	-4.20	-0.002442	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	-1.00	-0.000581	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	-0.10	-0.000058	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	40	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	-6.10	-0.003547	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	-1.20	-0.000693	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	-1.90	-0.001097	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	-3.40	-0.001962	±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 / 深圳分公司实验室

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	64QAM	20175	100RB#0	NV	10	-6.30	-0.003636	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	-7.10	-0.004098	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	-5.60	-0.003232	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	-10.80	-0.006234	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	-5.70	-0.003290	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-0.30	-0.000172	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	-8.10	-0.004642	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	-7.40	-0.004241	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-6.30	-0.003610	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-2.70	-0.001547	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-2.60	-0.001490	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-4.60	-0.002636	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-3.60	-0.002063	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-0.40	-0.000233	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	-1.50	-0.000872	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-2.10	-0.001221	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	-2.80	-0.001628	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-1.90	-0.001105	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	-3.50	-0.002035	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	-4.30	-0.002500	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	-4.60	-0.002674	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-9.80	-0.005657	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	-3.30	-0.001905	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-6.20	-0.003579	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-3.40	-0.001962	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-2.20	-0.001270	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	-6.60	-0.003810	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	-5.40	-0.003117	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-7.80	-0.004470	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-0.90	-0.000516	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-3.70	-0.002120	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-0.90	-0.000516	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-2.30	-0.001318	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-3.50	-0.002006	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-0.10	-0.000057	±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-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