



Appendix B

E-UTRA Band 48



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

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



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER.....	4
1.1.	TEST RESULT.....	4
2.	PEAK-TO-AVERAGE RATIO (CCDF).....	15
2.1.	TEST PLOTS.....	16
3.	MODULATION CHARACTERISTICS.....	28
3.1.	TEST MODE = LTE /TM1 20MHZ.....	28
3.1.1.	TEST CHANNEL = MCH.....	28
3.2.	TEST MODE = LTE /TM2 20MHZ.....	29
3.2.1.	TEST CHANNEL = MCH.....	29
3.3.	TEST MODE = LTE /TM3 20MHZ.....	30
3.3.1.	TEST CHANNEL = MCH.....	30
3.4.	TEST MODE = LTE /TM4 20MHZ.....	31
3.4.1.	TEST CHANNEL = MCH.....	31
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	32
4.1.	TEST RESULT.....	32
4.2.	TEST PLOTS.....	34
5.	ADJACENT CHANNEL LEAKAGE POWER.....	82
5.1.	TEST PLOTS.....	82
6.	BAND EDGE COMPLIANCE.....	95
6.1.	TEST PLOTS.....	95
7.	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	111
7.1.	TEST PLOTS.....	111
8.	FIELD STRENGTH OF SPURIOUS RADIATION.....	114
8.1.	Test Band = Band 48.....	114
8.1.1.	Test Channel = Low Channel.....	114
8.2.	Test Band = Band 48.....	115
8.2.1.	Test Channel = Low Channel.....	115
8.3.	Test Band = Band 48.....	116
8.3.1.	Test Channel = Mid Channel.....	116



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

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



8.4.	Test Band = Band 48.....	117
8.4.1.	Test Channel = Mid Channel.....	117
8.5.	Test Band = Band 48.....	118
8.5.1.	Test Channel = High Channel.....	118
8.6.	Test Band = Band 48.....	119
8.6.1.	Test Channel = High Channel.....	119
9.	FREQUENCY STABILITY.....	120
9.1.	FREQUENCY VS VOLTAGE.....	120
9.2.	FREQUENCY VS TEMPERATURE.....	121



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

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

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

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



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	21.46	21.33	PASS
Band48	5MHz	QPSK	55265	1RB#12	21.57	21.44	PASS
Band48	5MHz	QPSK	55265	1RB#24	21.45	21.32	PASS
Band48	5MHz	QPSK	55265	12RB#6	20.49	20.36	PASS
Band48	5MHz	QPSK	55265	12RB#0	20.64	20.51	PASS
Band48	5MHz	QPSK	55265	12RB#13	20.61	20.48	PASS
Band48	5MHz	QPSK	55265	25RB#0	20.55	20.42	PASS
Band48	5MHz	QPSK	55990	1RB#24	21.82	21.69	PASS
Band48	5MHz	QPSK	55990	1RB#0	22.03	21.90	PASS
Band48	5MHz	QPSK	55990	1RB#12	21.85	21.72	PASS
Band48	5MHz	QPSK	55990	12RB#0	21.00	20.87	PASS
Band48	5MHz	QPSK	55990	12RB#6	20.93	20.80	PASS
Band48	5MHz	QPSK	55990	12RB#13	21.03	20.90	PASS
Band48	5MHz	QPSK	55990	25RB#0	20.95	20.82	PASS
Band48	5MHz	QPSK	56715	1RB#12	21.40	21.27	PASS
Band48	5MHz	QPSK	56715	1RB#0	21.63	21.50	PASS
Band48	5MHz	QPSK	56715	1RB#24	21.46	21.33	PASS
Band48	5MHz	QPSK	56715	12RB#13	20.58	20.45	PASS
Band48	5MHz	QPSK	56715	12RB#6	20.75	20.62	PASS
Band48	5MHz	QPSK	56715	12RB#0	20.64	20.51	PASS
Band48	5MHz	QPSK	56715	25RB#0	20.49	20.36	PASS
Band48	5MHz	16QAM	55265	1RB#0	20.74	20.61	PASS
Band48	5MHz	16QAM	55265	1RB#24	20.99	20.86	PASS
Band48	5MHz	16QAM	55265	1RB#12	20.67	20.54	PASS
Band48	5MHz	16QAM	55265	12RB#0	19.57	19.44	PASS
Band48	5MHz	16QAM	55265	12RB#6	19.48	19.35	PASS
Band48	5MHz	16QAM	55265	12RB#13	19.48	19.35	PASS
Band48	5MHz	16QAM	55265	25RB#0	19.52	19.39	PASS



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

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



Band48	5MHz	16QAM	55990	1RB#0	21.06	20.93	PASS
Band48	5MHz	16QAM	55990	1RB#12	21.25	21.12	PASS
Band48	5MHz	16QAM	55990	1RB#24	21.21	21.08	PASS
Band48	5MHz	16QAM	55990	12RB#13	20.07	19.94	PASS
Band48	5MHz	16QAM	55990	12RB#6	20.04	19.91	PASS
Band48	5MHz	16QAM	55990	12RB#0	20.03	19.90	PASS
Band48	5MHz	16QAM	55990	25RB#0	19.85	19.72	PASS
Band48	5MHz	16QAM	56715	1RB#0	20.76	20.63	PASS
Band48	5MHz	16QAM	56715	1RB#12	20.81	20.68	PASS
Band48	5MHz	16QAM	56715	1RB#24	20.80	20.67	PASS
Band48	5MHz	16QAM	56715	12RB#0	19.60	19.47	PASS
Band48	5MHz	16QAM	56715	12RB#6	19.44	19.31	PASS
Band48	5MHz	16QAM	56715	12RB#13	19.73	19.60	PASS
Band48	5MHz	16QAM	56715	25RB#0	19.63	19.50	PASS
Band48	5MHz	64QAM	55265	1RB#0	19.47	19.34	PASS
Band48	5MHz	64QAM	55265	1RB#24	19.59	19.46	PASS
Band48	5MHz	64QAM	55265	1RB#12	19.42	19.29	PASS
Band48	5MHz	64QAM	55265	12RB#13	18.51	18.38	PASS
Band48	5MHz	64QAM	55265	12RB#6	18.60	18.47	PASS
Band48	5MHz	64QAM	55265	12RB#0	18.52	18.39	PASS
Band48	5MHz	64QAM	55265	25RB#0	18.61	18.48	PASS
Band48	5MHz	64QAM	55990	1RB#0	19.88	19.75	PASS
Band48	5MHz	64QAM	55990	1RB#12	19.93	19.80	PASS
Band48	5MHz	64QAM	55990	1RB#24	19.78	19.65	PASS
Band48	5MHz	64QAM	55990	12RB#0	19.04	18.91	PASS
Band48	5MHz	64QAM	55990	12RB#6	18.99	18.86	PASS
Band48	5MHz	64QAM	55990	12RB#13	18.94	18.81	PASS
Band48	5MHz	64QAM	55990	25RB#0	18.86	18.73	PASS
Band48	5MHz	64QAM	56715	1RB#0	19.41	19.28	PASS
Band48	5MHz	64QAM	56715	1RB#24	19.46	19.33	PASS
Band48	5MHz	64QAM	56715	1RB#12	19.50	19.37	PASS
Band48	5MHz	64QAM	56715	12RB#0	18.61	18.48	PASS
Band48	5MHz	64QAM	56715	12RB#6	18.68	18.55	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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band48	5MHz	64QAM	56715	12RB#13	18.67	18.54	PASS
Band48	5MHz	64QAM	56715	25RB#0	18.49	18.36	PASS
Band48	5MHz	256QAM	55265	1RB#0	17.45	17.32	PASS
Band48	5MHz	256QAM	55265	1RB#24	17.46	17.33	PASS
Band48	5MHz	256QAM	55265	1RB#12	17.62	17.49	PASS
Band48	5MHz	256QAM	55265	12RB#13	16.47	16.34	PASS
Band48	5MHz	256QAM	55265	12RB#6	16.39	16.26	PASS
Band48	5MHz	256QAM	55265	12RB#0	16.51	16.38	PASS
Band48	5MHz	256QAM	55265	25RB#0	16.39	16.26	PASS
Band48	5MHz	256QAM	55990	1RB#0	17.82	17.69	PASS
Band48	5MHz	256QAM	55990	1RB#12	17.89	17.76	PASS
Band48	5MHz	256QAM	55990	1RB#24	17.84	17.71	PASS
Band48	5MHz	256QAM	55990	12RB#0	16.89	16.76	PASS
Band48	5MHz	256QAM	55990	12RB#6	16.82	16.69	PASS
Band48	5MHz	256QAM	55990	12RB#13	16.93	16.80	PASS
Band48	5MHz	256QAM	55990	25RB#0	16.98	16.85	PASS
Band48	5MHz	256QAM	56715	1RB#0	17.53	17.40	PASS
Band48	5MHz	256QAM	56715	1RB#24	17.48	17.35	PASS
Band48	5MHz	256QAM	56715	1RB#12	17.57	17.44	PASS
Band48	5MHz	256QAM	56715	12RB#0	16.35	16.22	PASS
Band48	5MHz	256QAM	56715	12RB#6	16.44	16.31	PASS
Band48	5MHz	256QAM	56715	12RB#13	16.39	16.26	PASS
Band48	5MHz	256QAM	56715	25RB#0	16.31	16.18	PASS
Band48	10MHz	QPSK	55290	1RB#49	21.39	21.26	PASS
Band48	10MHz	QPSK	55290	1RB#24	21.61	21.48	PASS
Band48	10MHz	QPSK	55290	1RB#0	21.46	21.33	PASS
Band48	10MHz	QPSK	55290	25RB#12	20.55	20.42	PASS
Band48	10MHz	QPSK	55290	25RB#0	20.58	20.45	PASS
Band48	10MHz	QPSK	55290	25RB#25	20.53	20.40	PASS
Band48	10MHz	QPSK	55290	50RB#0	20.65	20.52	PASS
Band48	10MHz	QPSK	55990	1RB#24	21.74	21.61	PASS
Band48	10MHz	QPSK	55990	1RB#49	21.95	21.82	PASS
Band48	10MHz	QPSK	55990	1RB#0	21.89	21.76	PASS



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

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



Band48	10MHz	QPSK	55990	25RB#25	20.96	20.83	PASS
Band48	10MHz	QPSK	55990	25RB#0	20.87	20.74	PASS
Band48	10MHz	QPSK	55990	25RB#12	20.94	20.81	PASS
Band48	10MHz	QPSK	55990	50RB#0	20.95	20.82	PASS
Band48	10MHz	QPSK	56690	1RB#49	21.33	21.20	PASS
Band48	10MHz	QPSK	56690	1RB#24	21.51	21.38	PASS
Band48	10MHz	QPSK	56690	1RB#0	21.44	21.31	PASS
Band48	10MHz	QPSK	56690	25RB#25	20.50	20.37	PASS
Band48	10MHz	QPSK	56690	25RB#0	20.57	20.44	PASS
Band48	10MHz	QPSK	56690	25RB#12	20.57	20.44	PASS
Band48	10MHz	QPSK	56690	50RB#0	20.42	20.29	PASS
Band48	10MHz	16QAM	55290	1RB#24	20.68	20.55	PASS
Band48	10MHz	16QAM	55290	1RB#49	20.95	20.82	PASS
Band48	10MHz	16QAM	55290	1RB#0	20.86	20.73	PASS
Band48	10MHz	16QAM	55290	25RB#0	19.57	19.44	PASS
Band48	10MHz	16QAM	55290	25RB#12	19.50	19.37	PASS
Band48	10MHz	16QAM	55290	25RB#25	19.60	19.47	PASS
Band48	10MHz	16QAM	55290	50RB#0	19.57	19.44	PASS
Band48	10MHz	16QAM	55990	1RB#49	21.19	21.06	PASS
Band48	10MHz	16QAM	55990	1RB#0	21.40	21.27	PASS
Band48	10MHz	16QAM	55990	1RB#24	21.17	21.04	PASS
Band48	10MHz	16QAM	55990	25RB#0	19.98	19.85	PASS
Band48	10MHz	16QAM	55990	25RB#12	19.92	19.79	PASS
Band48	10MHz	16QAM	55990	25RB#25	20.05	19.92	PASS
Band48	10MHz	16QAM	55990	50RB#0	19.97	19.84	PASS
Band48	10MHz	16QAM	56690	1RB#0	20.76	20.63	PASS
Band48	10MHz	16QAM	56690	1RB#49	20.98	20.85	PASS
Band48	10MHz	16QAM	56690	1RB#24	20.78	20.65	PASS
Band48	10MHz	16QAM	56690	25RB#25	19.62	19.49	PASS
Band48	10MHz	16QAM	56690	25RB#0	19.52	19.39	PASS
Band48	10MHz	16QAM	56690	25RB#12	19.71	19.58	PASS
Band48	10MHz	16QAM	56690	50RB#0	19.61	19.48	PASS
Band48	10MHz	64QAM	55290	1RB#0	19.33	19.20	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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band48	10MHz	64QAM	55290	1RB#24	19.58	19.45	PASS
Band48	10MHz	64QAM	55290	1RB#49	19.40	19.27	PASS
Band48	10MHz	64QAM	55290	25RB#12	18.48	18.35	PASS
Band48	10MHz	64QAM	55290	25RB#0	18.49	18.36	PASS
Band48	10MHz	64QAM	55290	25RB#25	18.58	18.45	PASS
Band48	10MHz	64QAM	55290	50RB#0	18.55	18.42	PASS
Band48	10MHz	64QAM	55990	1RB#0	19.72	19.59	PASS
Band48	10MHz	64QAM	55990	1RB#49	19.91	19.78	PASS
Band48	10MHz	64QAM	55990	1RB#24	19.77	19.64	PASS
Band48	10MHz	64QAM	55990	25RB#0	18.87	18.74	PASS
Band48	10MHz	64QAM	55990	25RB#25	18.84	18.71	PASS
Band48	10MHz	64QAM	55990	25RB#12	18.97	18.84	PASS
Band48	10MHz	64QAM	55990	50RB#0	18.90	18.77	PASS
Band48	10MHz	64QAM	56690	1RB#0	19.31	19.18	PASS
Band48	10MHz	64QAM	56690	1RB#49	19.48	19.35	PASS
Band48	10MHz	64QAM	56690	1RB#24	19.47	19.34	PASS
Band48	10MHz	64QAM	56690	25RB#0	18.46	18.33	PASS
Band48	10MHz	64QAM	56690	25RB#12	18.54	18.41	PASS
Band48	10MHz	64QAM	56690	25RB#25	18.57	18.44	PASS
Band48	10MHz	64QAM	56690	50RB#0	18.56	18.43	PASS
Band48	10MHz	256QAM	55290	1RB#0	17.39	17.26	PASS
Band48	10MHz	256QAM	55290	1RB#24	17.45	17.32	PASS
Band48	10MHz	256QAM	55290	1RB#49	17.58	17.45	PASS
Band48	10MHz	256QAM	55290	25RB#12	16.54	16.41	PASS
Band48	10MHz	256QAM	55290	25RB#0	16.50	16.37	PASS
Band48	10MHz	256QAM	55290	25RB#25	16.38	16.25	PASS
Band48	10MHz	256QAM	55290	50RB#0	16.39	16.26	PASS
Band48	10MHz	256QAM	55990	1RB#0	17.90	17.77	PASS
Band48	10MHz	256QAM	55990	1RB#49	18.01	17.88	PASS
Band48	10MHz	256QAM	55990	1RB#24	17.96	17.83	PASS
Band48	10MHz	256QAM	55990	25RB#0	16.82	16.69	PASS
Band48	10MHz	256QAM	55990	25RB#25	16.89	16.76	PASS
Band48	10MHz	256QAM	55990	25RB#12	16.96	16.83	PASS



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

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



Band48	10MHz	256QAM	55990	50RB#0	16.96	16.83	PASS
Band48	10MHz	256QAM	56690	1RB#0	17.45	17.32	PASS
Band48	10MHz	256QAM	56690	1RB#49	17.52	17.39	PASS
Band48	10MHz	256QAM	56690	1RB#24	17.51	17.38	PASS
Band48	10MHz	256QAM	56690	25RB#0	16.42	16.29	PASS
Band48	10MHz	256QAM	56690	25RB#12	16.59	16.46	PASS
Band48	10MHz	256QAM	56690	25RB#25	16.47	16.34	PASS
Band48	10MHz	256QAM	56690	50RB#0	16.30	16.17	PASS
Band48	15MHz	QPSK	55315	1RB#74	19.69	19.56	PASS
Band48	15MHz	QPSK	55315	1RB#38	19.69	19.56	PASS
Band48	15MHz	QPSK	55315	1RB#0	19.73	19.60	PASS
Band48	15MHz	QPSK	55315	36RB#39	18.73	18.60	PASS
Band48	15MHz	QPSK	55315	36RB#18	18.72	18.59	PASS
Band48	15MHz	QPSK	55315	36RB#0	18.81	18.68	PASS
Band48	15MHz	QPSK	55315	75RB#0	18.83	18.70	PASS
Band48	15MHz	QPSK	55990	1RB#0	19.97	19.84	PASS
Band48	15MHz	QPSK	55990	1RB#38	20.26	20.13	PASS
Band48	15MHz	QPSK	55990	1RB#74	20.14	20.01	PASS
Band48	15MHz	QPSK	55990	36RB#0	19.21	19.08	PASS
Band48	15MHz	QPSK	55990	36RB#18	19.26	19.13	PASS
Band48	15MHz	QPSK	55990	36RB#39	19.29	19.16	PASS
Band48	15MHz	QPSK	55990	75RB#0	19.20	19.07	PASS
Band48	15MHz	QPSK	56665	1RB#0	19.64	19.51	PASS
Band48	15MHz	QPSK	56665	1RB#38	19.83	19.70	PASS
Band48	15MHz	QPSK	56665	1RB#74	19.64	19.51	PASS
Band48	15MHz	QPSK	56665	36RB#0	18.79	18.66	PASS
Band48	15MHz	QPSK	56665	36RB#18	18.98	18.85	PASS
Band48	15MHz	QPSK	56665	36RB#39	18.71	18.58	PASS
Band48	15MHz	QPSK	56665	75RB#0	18.68	18.55	PASS
Band48	15MHz	16QAM	55315	1RB#74	18.90	18.77	PASS
Band48	15MHz	16QAM	55315	1RB#38	19.15	19.02	PASS
Band48	15MHz	16QAM	55315	1RB#0	19.06	18.93	PASS
Band48	15MHz	16QAM	55315	36RB#0	17.70	17.57	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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band48	15MHz	16QAM	55315	36RB#18	17.88	17.75	PASS
Band48	15MHz	16QAM	55315	36RB#39	17.79	17.66	PASS
Band48	15MHz	16QAM	55315	75RB#0	17.85	17.72	PASS
Band48	15MHz	16QAM	55990	1RB#38	19.30	19.17	PASS
Band48	15MHz	16QAM	55990	1RB#74	19.64	19.51	PASS
Band48	15MHz	16QAM	55990	1RB#0	19.50	19.37	PASS
Band48	15MHz	16QAM	55990	36RB#39	18.18	18.05	PASS
Band48	15MHz	16QAM	55990	36RB#0	18.18	18.05	PASS
Band48	15MHz	16QAM	55990	36RB#18	18.24	18.11	PASS
Band48	15MHz	16QAM	55990	75RB#0	18.25	18.12	PASS
Band48	15MHz	16QAM	56665	1RB#0	19.08	18.95	PASS
Band48	15MHz	16QAM	56665	1RB#38	19.06	18.93	PASS
Band48	15MHz	16QAM	56665	1RB#74	18.96	18.83	PASS
Band48	15MHz	16QAM	56665	36RB#18	17.83	17.70	PASS
Band48	15MHz	16QAM	56665	36RB#0	17.72	17.59	PASS
Band48	15MHz	16QAM	56665	36RB#39	17.82	17.69	PASS
Band48	15MHz	16QAM	56665	75RB#0	17.87	17.74	PASS
Band48	15MHz	64QAM	55315	1RB#38	17.70	17.57	PASS
Band48	15MHz	64QAM	55315	1RB#0	17.87	17.74	PASS
Band48	15MHz	64QAM	55315	1RB#74	17.81	17.68	PASS
Band48	15MHz	64QAM	55315	36RB#0	16.86	16.73	PASS
Band48	15MHz	64QAM	55315	36RB#39	16.81	16.68	PASS
Band48	15MHz	64QAM	55315	36RB#18	16.74	16.61	PASS
Band48	15MHz	64QAM	55315	75RB#0	16.77	16.64	PASS
Band48	15MHz	64QAM	55990	1RB#38	18.00	17.87	PASS
Band48	15MHz	64QAM	55990	1RB#74	18.32	18.19	PASS
Band48	15MHz	64QAM	55990	1RB#0	18.17	18.04	PASS
Band48	15MHz	64QAM	55990	36RB#0	17.08	16.95	PASS
Band48	15MHz	64QAM	55990	36RB#18	17.18	17.05	PASS
Band48	15MHz	64QAM	55990	36RB#39	17.26	17.13	PASS
Band48	15MHz	64QAM	55990	75RB#0	17.12	16.99	PASS
Band48	15MHz	64QAM	56665	1RB#0	17.63	17.50	PASS
Band48	15MHz	64QAM	56665	1RB#38	17.81	17.68	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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band48	15MHz	64QAM	56665	1RB#74	17.76	17.63	PASS
Band48	15MHz	64QAM	56665	36RB#0	16.75	16.62	PASS
Band48	15MHz	64QAM	56665	36RB#18	16.85	16.72	PASS
Band48	15MHz	64QAM	56665	36RB#39	16.87	16.74	PASS
Band48	15MHz	64QAM	56665	75RB#0	16.81	16.68	PASS
Band48	15MHz	256QAM	55315	1RB#38	17.45	17.32	PASS
Band48	15MHz	256QAM	55315	1RB#0	17.41	17.28	PASS
Band48	15MHz	256QAM	55315	1RB#74	17.57	17.44	PASS
Band48	15MHz	256QAM	55315	36RB#0	16.42	16.29	PASS
Band48	15MHz	256QAM	55315	36RB#39	16.50	16.37	PASS
Band48	15MHz	256QAM	55315	36RB#18	16.40	16.27	PASS
Band48	15MHz	256QAM	55315	75RB#0	16.51	16.38	PASS
Band48	15MHz	256QAM	55990	1RB#38	17.84	17.71	PASS
Band48	15MHz	256QAM	55990	1RB#74	17.99	17.86	PASS
Band48	15MHz	256QAM	55990	1RB#0	17.91	17.78	PASS
Band48	15MHz	256QAM	55990	36RB#0	16.86	16.73	PASS
Band48	15MHz	256QAM	55990	36RB#18	16.83	16.70	PASS
Band48	15MHz	256QAM	55990	36RB#39	16.89	16.76	PASS
Band48	15MHz	256QAM	55990	75RB#0	16.96	16.83	PASS
Band48	15MHz	256QAM	56665	1RB#0	17.51	17.38	PASS
Band48	15MHz	256QAM	56665	1RB#38	17.42	17.29	PASS
Band48	15MHz	256QAM	56665	1RB#74	17.48	17.35	PASS
Band48	15MHz	256QAM	56665	36RB#0	16.48	16.35	PASS
Band48	15MHz	256QAM	56665	36RB#18	16.58	16.45	PASS
Band48	15MHz	256QAM	56665	36RB#39	16.52	16.39	PASS
Band48	15MHz	256QAM	56665	75RB#0	16.33	16.20	PASS
Band48	20MHz	QPSK	55340	1RB#0	18.35	18.22	PASS
Band48	20MHz	QPSK	55340	1RB#49	18.53	18.40	PASS
Band48	20MHz	QPSK	55340	1RB#99	18.44	18.31	PASS
Band48	20MHz	QPSK	55340	50RB#25	17.53	17.40	PASS
Band48	20MHz	QPSK	55340	50RB#0	17.55	17.42	PASS
Band48	20MHz	QPSK	55340	50RB#50	17.58	17.45	PASS
Band48	20MHz	QPSK	55340	100RB#0	17.54	17.41	PASS



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

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



Band48	20MHz	QPSK	55990	1RB#99	18.74	18.61	PASS
Band48	20MHz	QPSK	55990	1RB#0	18.93	18.80	PASS
Band48	20MHz	QPSK	55990	1RB#49	18.80	18.67	PASS
Band48	20MHz	QPSK	55990	50RB#0	17.93	17.80	PASS
Band48	20MHz	QPSK	55990	50RB#25	17.95	17.82	PASS
Band48	20MHz	QPSK	55990	50RB#50	17.97	17.84	PASS
Band48	20MHz	QPSK	55990	100RB#0	17.93	17.80	PASS
Band48	20MHz	QPSK	56640	1RB#49	18.41	18.28	PASS
Band48	20MHz	QPSK	56640	1RB#0	18.52	18.39	PASS
Band48	20MHz	QPSK	56640	1RB#99	18.38	18.25	PASS
Band48	20MHz	QPSK	56640	50RB#25	17.57	17.44	PASS
Band48	20MHz	QPSK	56640	50RB#0	17.65	17.52	PASS
Band48	20MHz	QPSK	56640	50RB#50	17.56	17.43	PASS
Band48	20MHz	QPSK	56640	100RB#0	17.49	17.36	PASS
Band48	20MHz	16QAM	55340	1RB#0	17.70	17.57	PASS
Band48	20MHz	16QAM	55340	1RB#49	17.88	17.75	PASS
Band48	20MHz	16QAM	55340	1RB#99	17.76	17.63	PASS
Band48	20MHz	16QAM	55340	50RB#50	16.55	16.42	PASS
Band48	20MHz	16QAM	55340	50RB#0	16.54	16.41	PASS
Band48	20MHz	16QAM	55340	50RB#25	16.57	16.44	PASS
Band48	20MHz	16QAM	55340	100RB#0	16.53	16.40	PASS
Band48	20MHz	16QAM	55990	1RB#0	18.11	17.98	PASS
Band48	20MHz	16QAM	55990	1RB#49	18.29	18.16	PASS
Band48	20MHz	16QAM	55990	1RB#99	18.17	18.04	PASS
Band48	20MHz	16QAM	55990	50RB#0	16.96	16.83	PASS
Band48	20MHz	16QAM	55990	50RB#25	16.95	16.82	PASS
Band48	20MHz	16QAM	55990	50RB#50	16.97	16.84	PASS
Band48	20MHz	16QAM	55990	100RB#0	16.94	16.81	PASS
Band48	20MHz	16QAM	56640	1RB#99	17.77	17.64	PASS
Band48	20MHz	16QAM	56640	1RB#0	17.89	17.76	PASS
Band48	20MHz	16QAM	56640	1RB#49	17.79	17.66	PASS
Band48	20MHz	16QAM	56640	50RB#0	16.51	16.38	PASS
Band48	20MHz	16QAM	56640	50RB#50	16.53	16.40	PASS



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

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



Band48	20MHz	16QAM	56640	50RB#25	16.67	16.54	PASS
Band48	20MHz	16QAM	56640	100RB#0	16.52	16.39	PASS
Band48	20MHz	64QAM	55340	1RB#0	16.38	16.25	PASS
Band48	20MHz	64QAM	55340	1RB#49	16.57	16.44	PASS
Band48	20MHz	64QAM	55340	1RB#99	16.47	16.34	PASS
Band48	20MHz	64QAM	55340	50RB#0	15.52	15.39	PASS
Band48	20MHz	64QAM	55340	50RB#25	15.53	15.40	PASS
Band48	20MHz	64QAM	55340	50RB#50	15.54	15.41	PASS
Band48	20MHz	64QAM	55340	100RB#0	15.51	15.38	PASS
Band48	20MHz	64QAM	55990	1RB#0	16.77	16.64	PASS
Band48	20MHz	64QAM	55990	1RB#99	16.98	16.85	PASS
Band48	20MHz	64QAM	55990	1RB#49	16.86	16.73	PASS
Band48	20MHz	64QAM	55990	50RB#0	15.93	15.80	PASS
Band48	20MHz	64QAM	55990	50RB#25	15.93	15.80	PASS
Band48	20MHz	64QAM	55990	50RB#50	15.95	15.82	PASS
Band48	20MHz	64QAM	55990	100RB#0	15.91	15.78	PASS
Band48	20MHz	64QAM	56640	1RB#0	16.30	16.17	PASS
Band48	20MHz	64QAM	56640	1RB#99	16.51	16.38	PASS
Band48	20MHz	64QAM	56640	1RB#49	16.44	16.31	PASS
Band48	20MHz	64QAM	56640	50RB#50	15.52	15.39	PASS
Band48	20MHz	64QAM	56640	50RB#25	15.58	15.45	PASS
Band48	20MHz	64QAM	56640	50RB#0	15.57	15.44	PASS
Band48	20MHz	64QAM	56640	100RB#0	15.50	15.37	PASS
Band48	20MHz	256QAM	55340	1RB#0	17.45	17.32	PASS
Band48	20MHz	256QAM	55340	1RB#49	17.50	17.37	PASS
Band48	20MHz	256QAM	55340	1RB#99	17.55	17.42	PASS
Band48	20MHz	256QAM	55340	50RB#0	16.47	16.34	PASS
Band48	20MHz	256QAM	55340	50RB#25	16.48	16.35	PASS
Band48	20MHz	256QAM	55340	50RB#50	16.47	16.34	PASS
Band48	20MHz	256QAM	55340	100RB#0	16.48	16.35	PASS
Band48	20MHz	256QAM	55990	1RB#0	17.90	17.77	PASS
Band48	20MHz	256QAM	55990	1RB#99	17.95	17.82	PASS
Band48	20MHz	256QAM	55990	1RB#49	17.88	17.75	PASS



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

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



Band48	20MHz	256QAM	55990	50RB#0	16.87	16.74	PASS
Band48	20MHz	256QAM	55990	50RB#25	16.90	16.77	PASS
Band48	20MHz	256QAM	55990	50RB#50	16.90	16.77	PASS
Band48	20MHz	256QAM	55990	100RB#0	16.92	16.79	PASS
Band48	20MHz	256QAM	56640	1RB#0	17.46	17.33	PASS
Band48	20MHz	256QAM	56640	1RB#99	17.46	17.33	PASS
Band48	20MHz	256QAM	56640	1RB#49	17.53	17.40	PASS
Band48	20MHz	256QAM	56640	50RB#50	16.42	16.29	PASS
Band48	20MHz	256QAM	56640	50RB#25	16.50	16.37	PASS
Band48	20MHz	256QAM	56640	50RB#0	16.43	16.30	PASS
Band48	20MHz	256QAM	56640	100RB#0	16.37	16.24	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 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



2. Peak-to-Average Ratio (CCDF)

Test ResultBand	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band48	20MHz	QPSK	55340	100RB#0	7.97	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	7.48	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	5.83	13	PASS
Band48	20MHz	64QAM	55340	100RB#0	9.68	13	PASS
Band48	20MHz	64QAM	55990	100RB#0	8.93	13	PASS
Band48	20MHz	64QAM	56640	100RB#0	8.90	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	6.70	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	7.10	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	7.10	13	PASS
Band48	20MHz	256QAM	55340	100RB#0	5.86	13	PASS
Band48	20MHz	256QAM	55990	100RB#0	7.45	13	PASS
Band48	20MHz	256QAM	56640	100RB#0	6.00	13	PASS



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

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

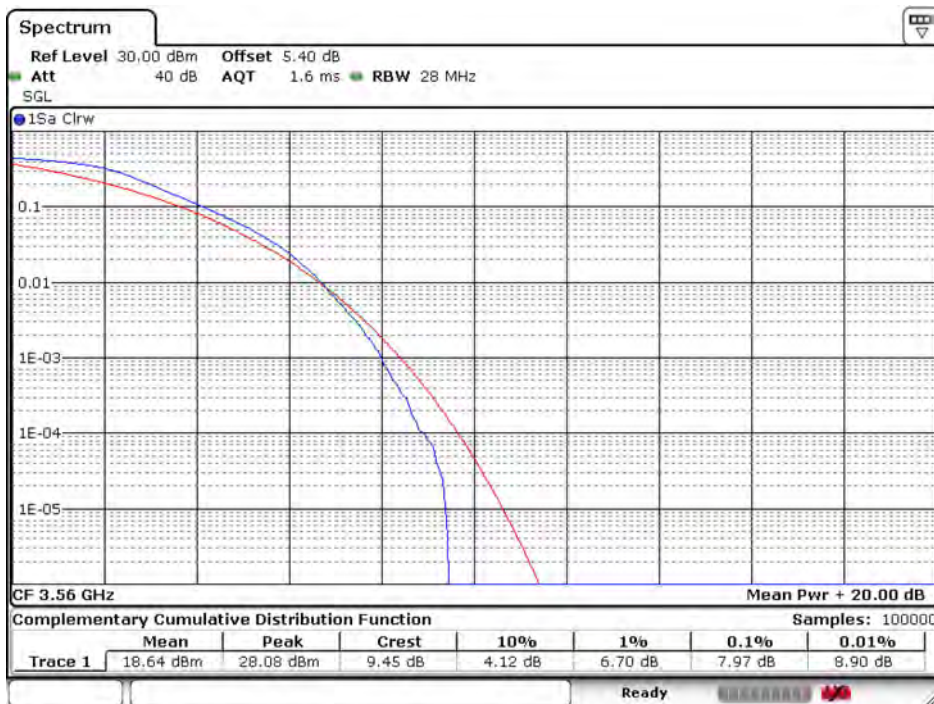
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



2.1. Test Plots

Band48-20MHz-QPSK-55340-100RB#0

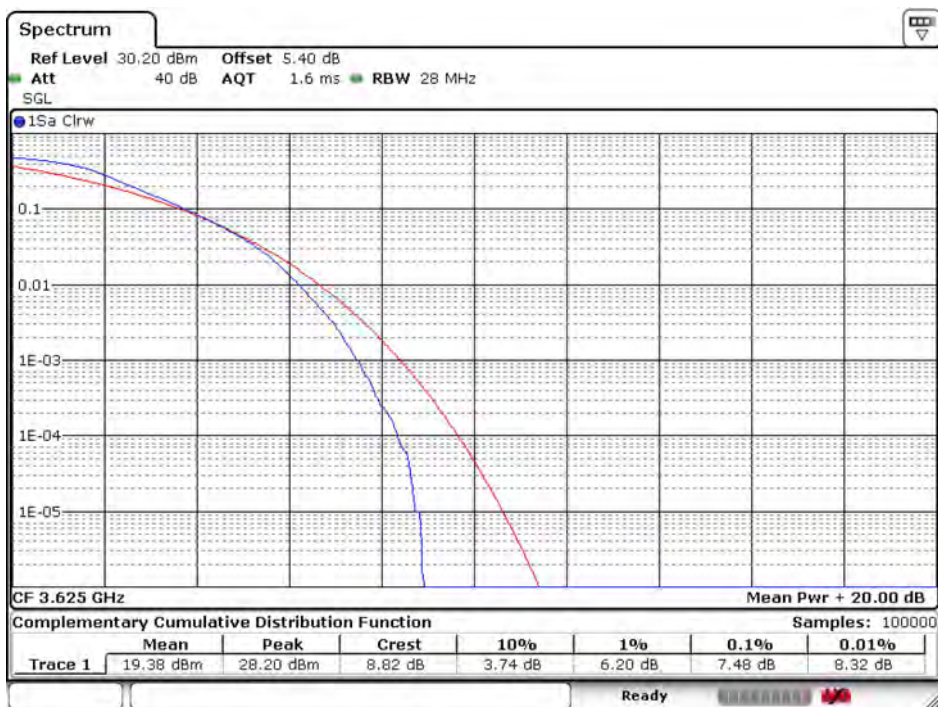


Date: 27.MAY.2021 07:44:31





Band48-20MHz-QPSK-55990-100RB#0

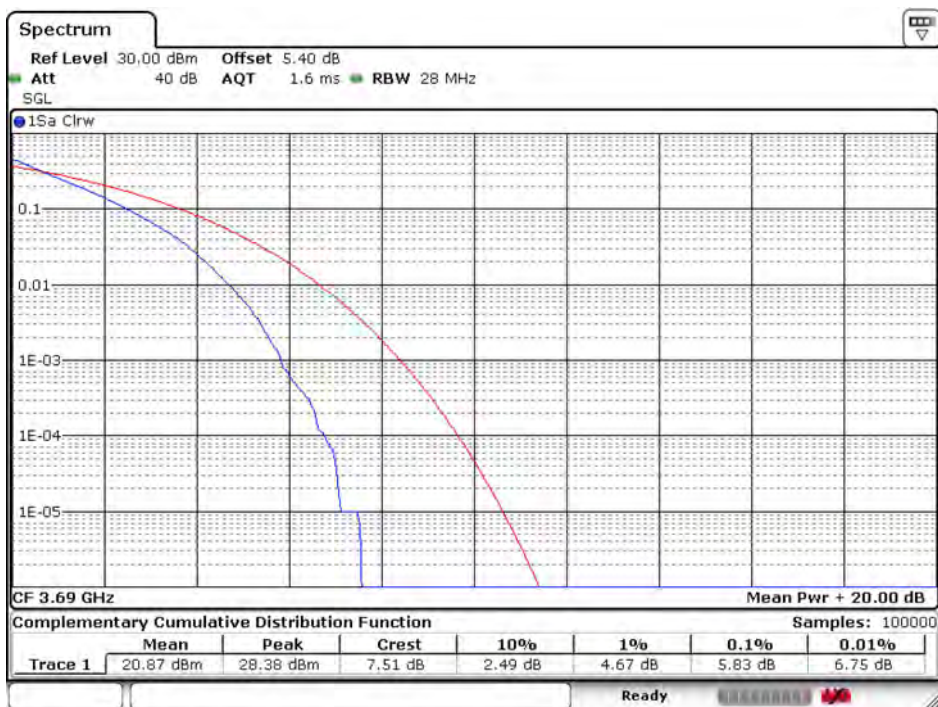


Date: 28.MAY.2021 04:29:42





Band48-20MHz-QPSK-56640-100RB#0



Date: 27.MAY.2021 22:27:13



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

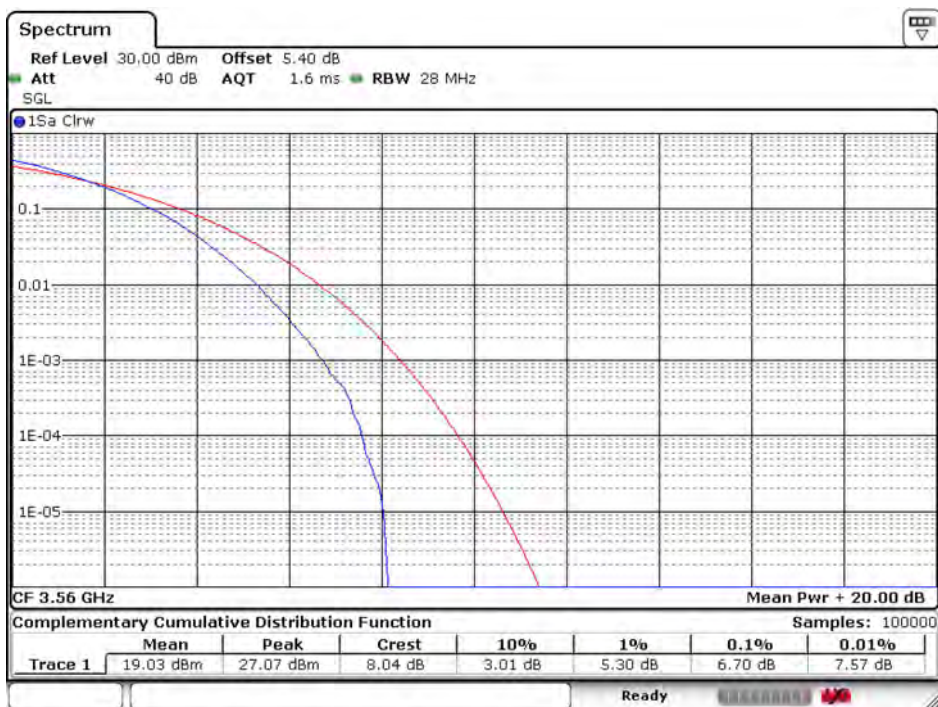
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

Member of the SGS Group (SGS SA)



Band48-20MHz-64QAM-55340-100RB#0

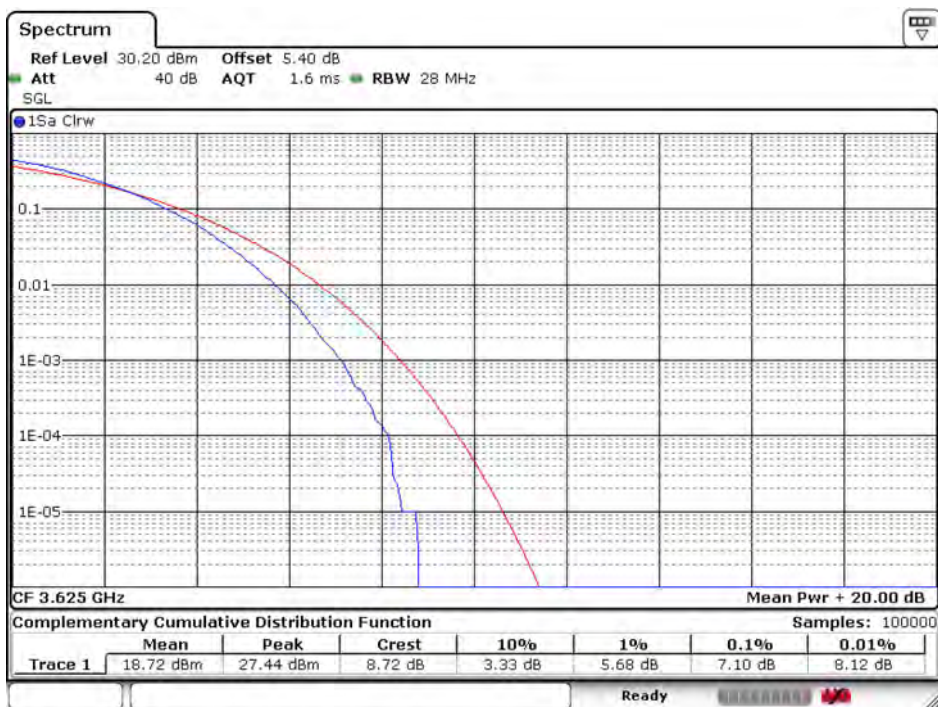


Date: 27.MAY.2021 07:44:05





Band48-20MHz-64QAM-55990-100RB#0

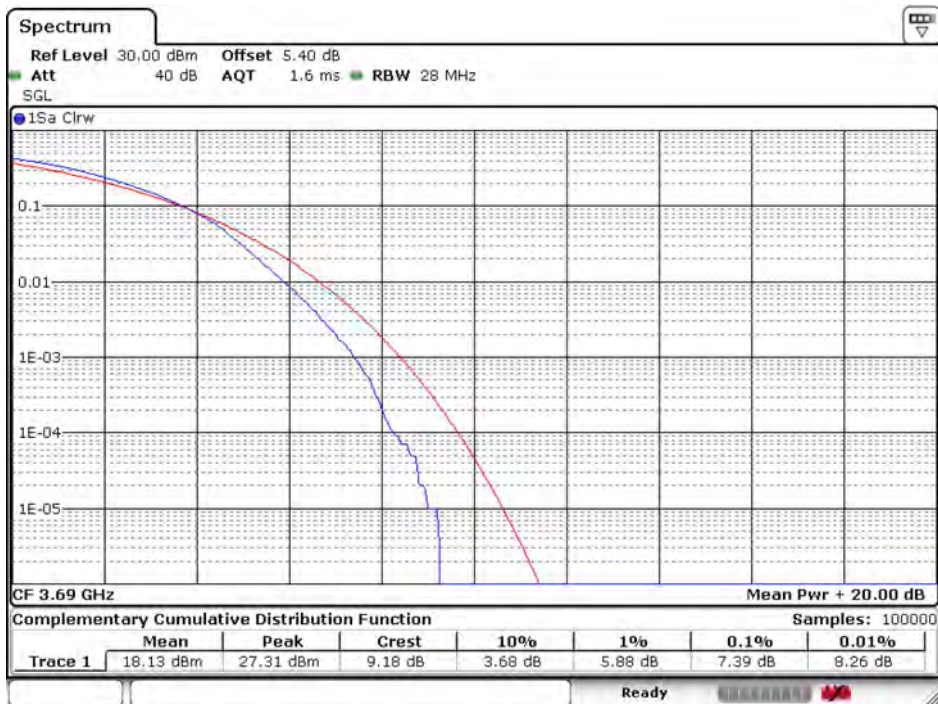


Date: 28.MAY.2021 04:30:19





Band48-20MHz-64QAM-56640-100RB#0

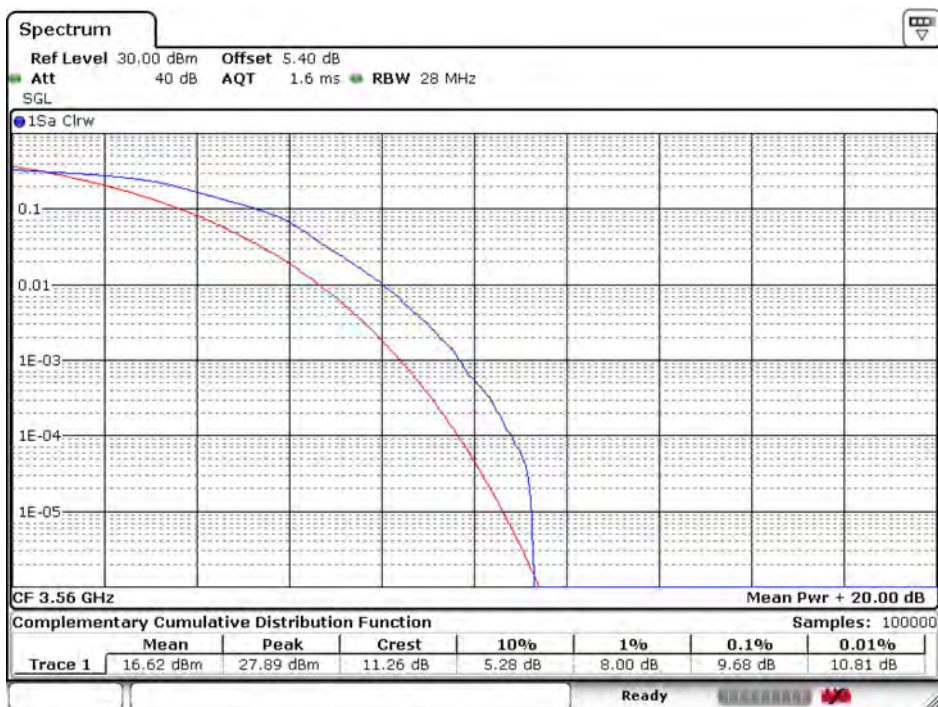


Date: 27.MAY.2021 22:26:26





Band48-20MHz-16QAM-55340-100RB#0

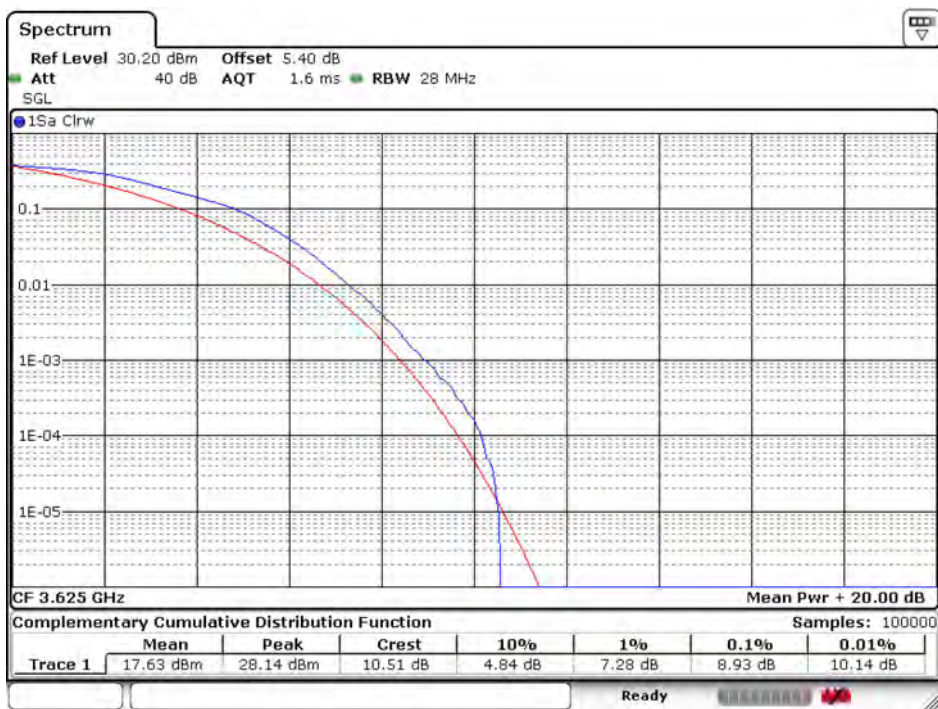


Date: 27.MAY.2021 07:44:19





Band48-20MHz-16QAM-55990-100RB#0



Date: 28.MAY.2021 04:30:02



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

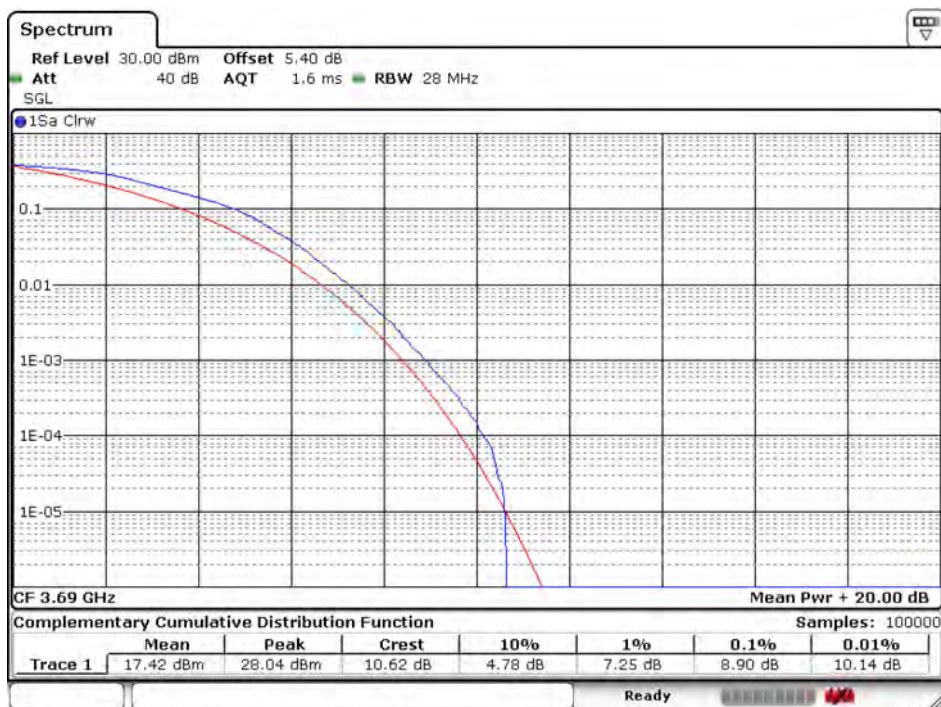
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band48-20MHz-16QAM-56640-100RB#0

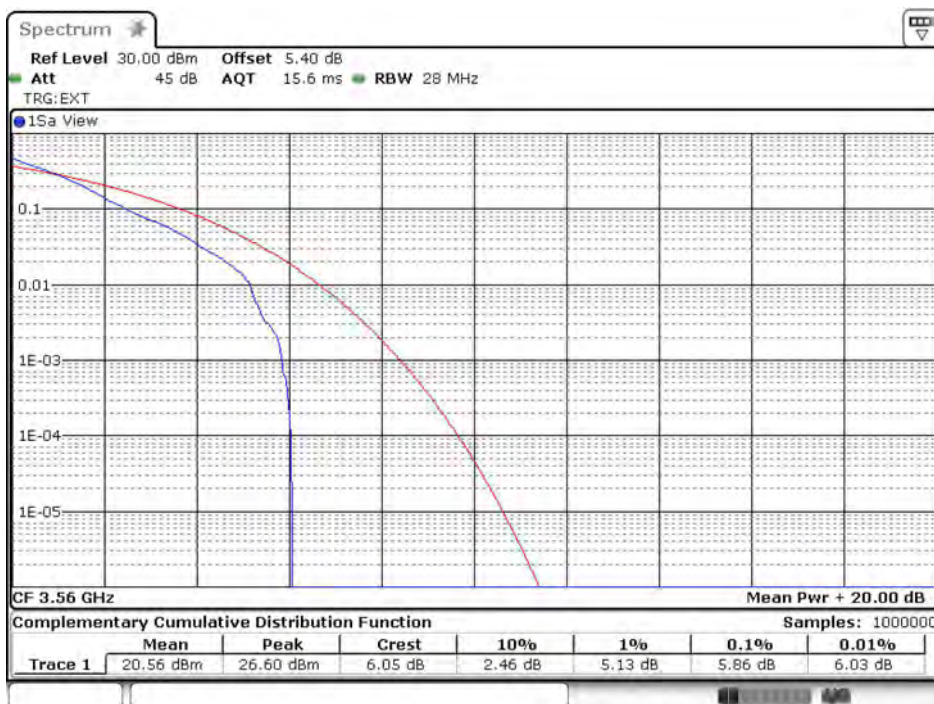


Date: 27.MAY.2021 22:27:02





Band48-20MHz-256QAM-55340-100RB#0

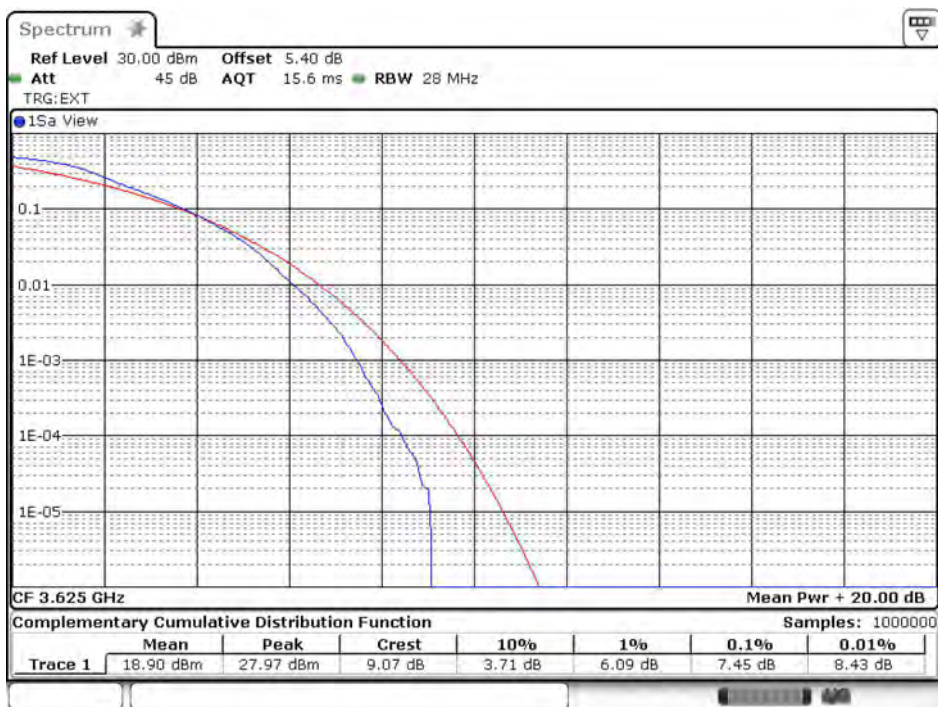


Date: 7 MAY 2021 04:34:13





Band48-20MHz-256QAM-55990-100RB#0

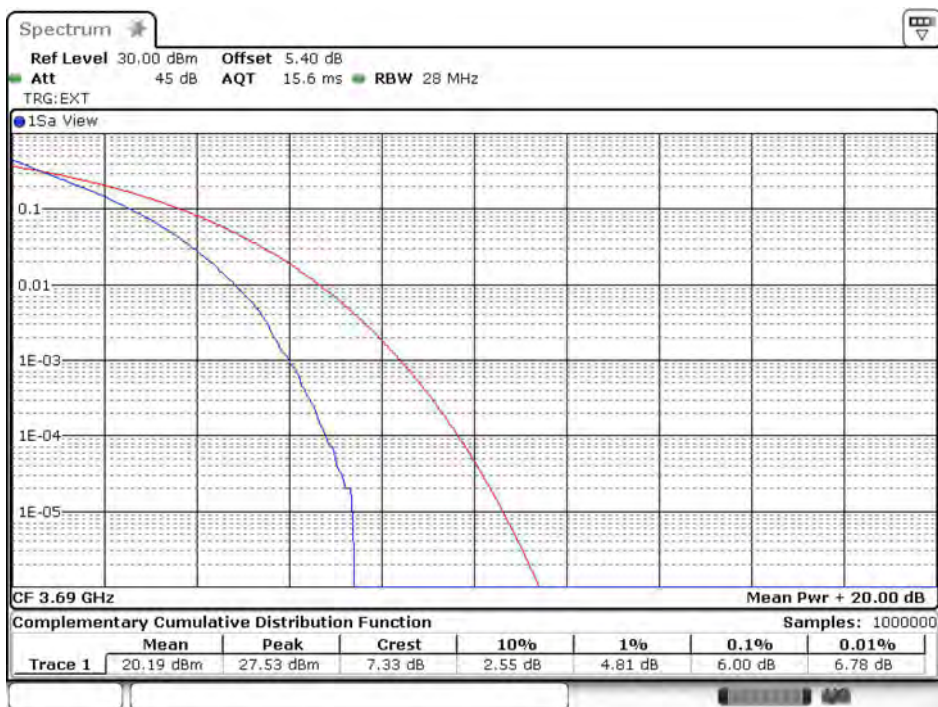


Date: 7 MAY 2021 04:43:27





Band48-20MHz-256QAM-56640-100RB#0



Date: 7 MAY 2021 04:47:20



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

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

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

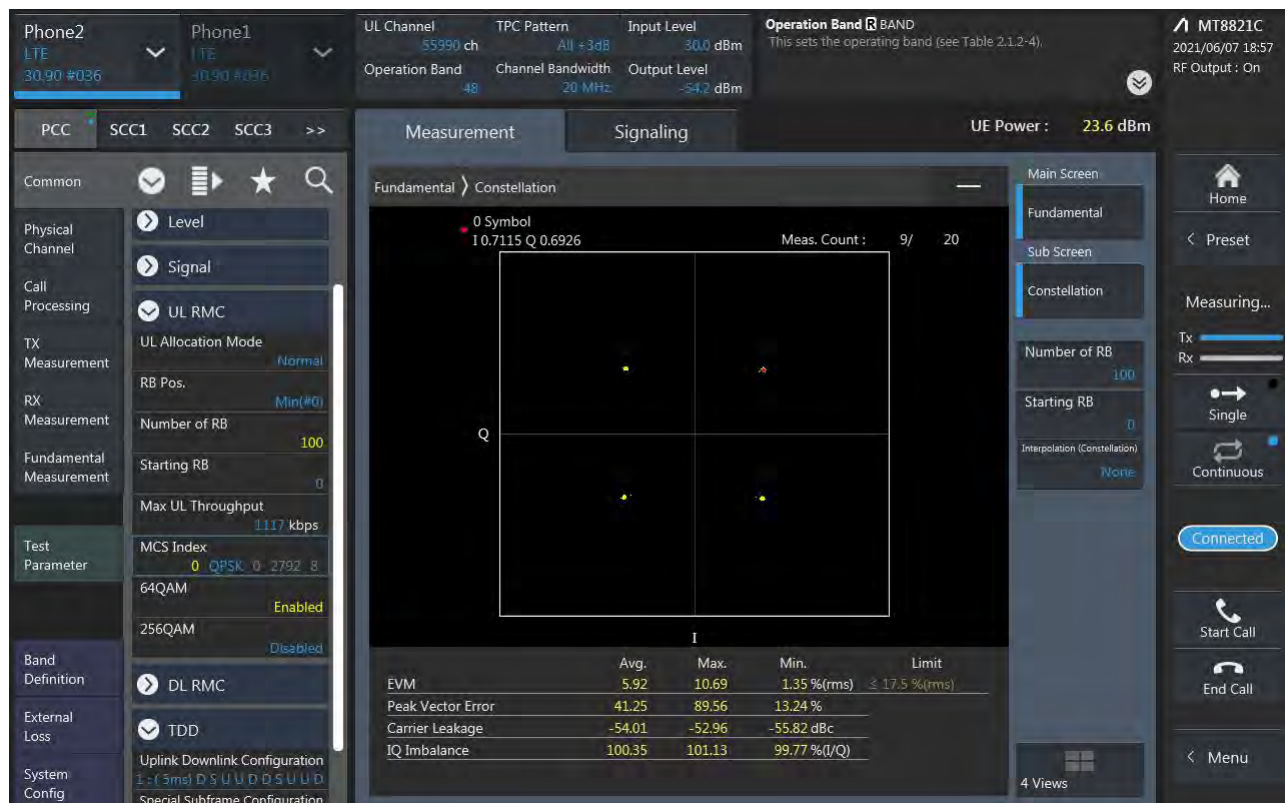
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

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 deemed to have accepted the Terms and Conditions of the Company and to have agreed to follow the instructions of the Client's instructions. If any, The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or expiration date of this document will render it null and void. The results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

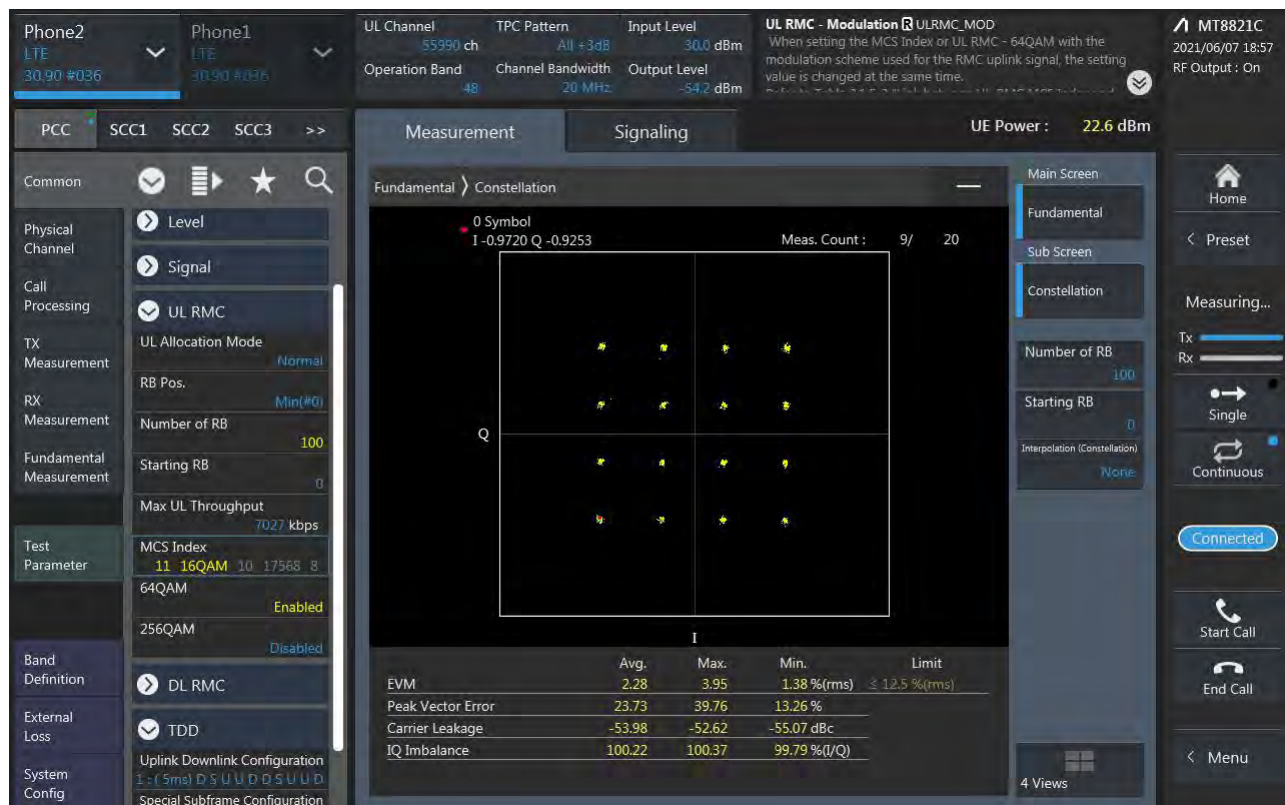
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Shenzhen CEMC Laboratory)

On: 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.ssgsgroup.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

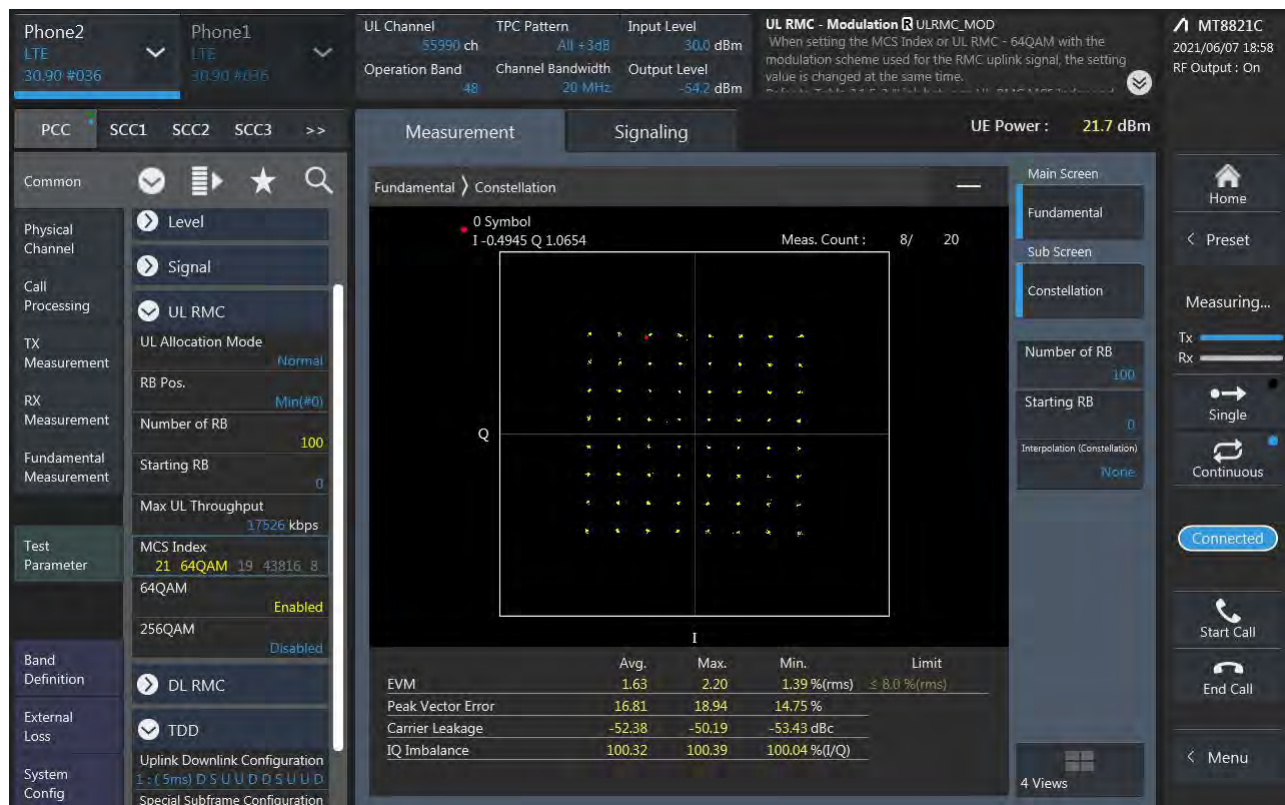
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 20MHz

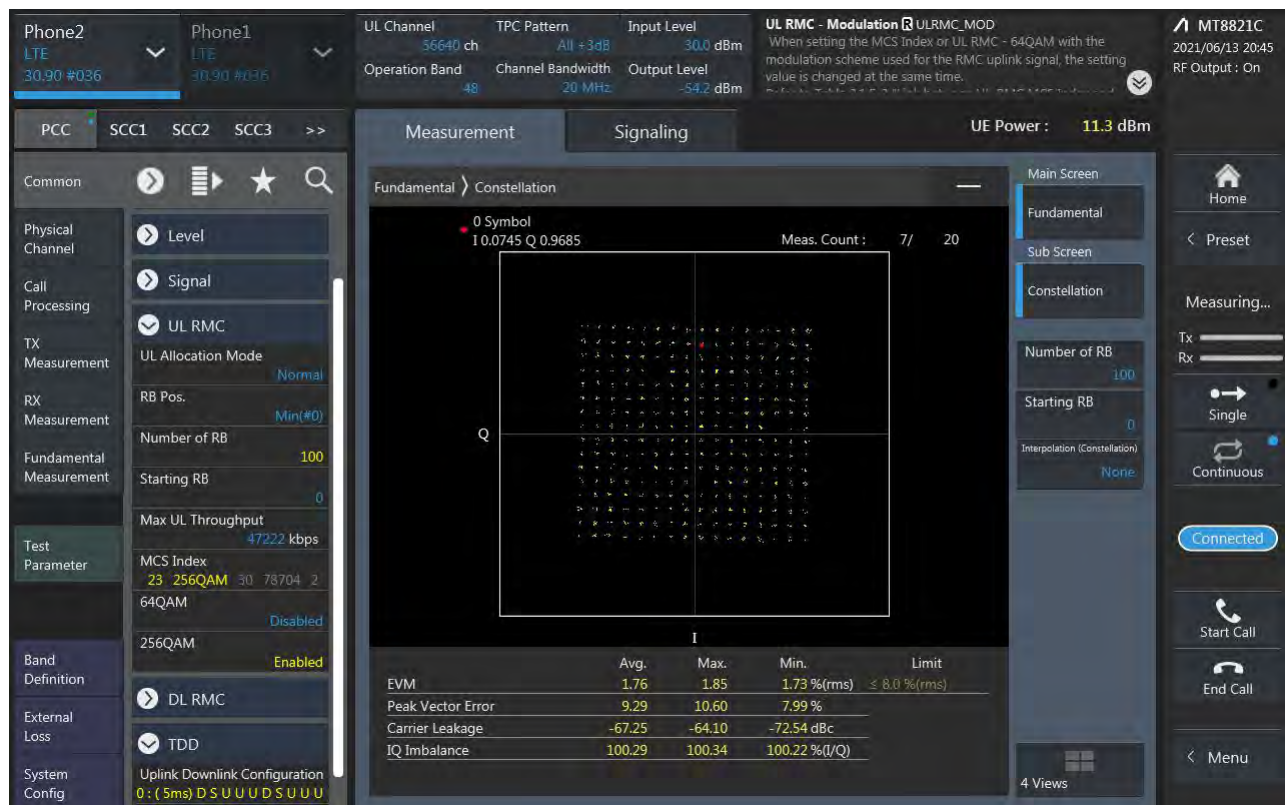
3.3.1. Test Channel = MCH





3.4. Test Mode = LTE /TM4 20MHz

3.4.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band48	5MHz	QPSK	55265	25RB#0	4.49	5.05	PASS
Band48	5MHz	QPSK	55990	25RB#0	4.49	5.05	PASS
Band48	5MHz	QPSK	56715	25RB#0	4.47	5.07	PASS
Band48	5MHz	64QAM	55265	25RB#0	4.49	4.83	PASS
Band48	5MHz	64QAM	55990	25RB#0	4.47	4.89	PASS
Band48	5MHz	64QAM	56715	25RB#0	4.49	4.84	PASS
Band48	5MHz	16QAM	55265	25RB#0	4.47	4.88	PASS
Band48	5MHz	16QAM	55990	25RB#0	4.47	4.89	PASS
Band48	5MHz	16QAM	56715	25RB#0	4.47	4.85	PASS
Band48	5MHz	256QAM	55265	25RB#0	4.46	4.82	PASS
Band48	5MHz	256QAM	55990	25RB#0	4.46	4.84	PASS
Band48	5MHz	256QAM	56715	25RB#0	4.46	4.83	PASS
Band48	10MHz	QPSK	55290	50RB#0	8.94	9.70	PASS
Band48	10MHz	QPSK	55990	50RB#0	8.94	9.61	PASS
Band48	10MHz	QPSK	56690	50RB#0	8.94	9.64	PASS
Band48	10MHz	64QAM	55290	50RB#0	8.94	9.70	PASS
Band48	10MHz	64QAM	55990	50RB#0	8.94	9.70	PASS
Band48	10MHz	64QAM	56690	50RB#0	8.94	9.64	PASS
Band48	10MHz	16QAM	55290	50RB#0	8.91	9.61	PASS
Band48	10MHz	16QAM	55990	50RB#0	8.94	9.55	PASS
Band48	10MHz	16QAM	56690	50RB#0	8.91	9.58	PASS
Band48	10MHz	256QAM	55290	50RB#0	8.95	9.80	PASS
Band48	10MHz	256QAM	55990	50RB#0	8.95	9.80	PASS
Band48	10MHz	256QAM	56690	50RB#0	8.99	9.77	PASS
Band48	15MHz	QPSK	55315	75RB#0	13.46	14.94	PASS
Band48	15MHz	QPSK	55990	75RB#0	13.46	14.99	PASS
Band48	15MHz	QPSK	56665	75RB#0	13.46	14.88	PASS
Band48	15MHz	64QAM	55315	75RB#0	13.46	14.63	PASS
Band48	15MHz	64QAM	55990	75RB#0	13.45	14.65	PASS
Band48	15MHz	64QAM	56665	75RB#0	13.46	14.62	PASS
Band48	15MHz	16QAM	55315	75RB#0	13.46	14.59	PASS



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

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



Band48	15MHz	16QAM	55990	75RB#0	13.46	14.69	PASS
Band48	15MHz	16QAM	56665	75RB#0	13.46	14.66	PASS
Band48	15MHz	256QAM	55315	75RB#0	13.43	14.65	PASS
Band48	15MHz	256QAM	55990	75RB#0	13.43	14.65	PASS
Band48	15MHz	256QAM	56665	75RB#0	13.43	14.65	PASS
Band48	20MHz	QPSK	55340	100RB#0	17.89	19.39	PASS
Band48	20MHz	QPSK	55990	100RB#0	17.89	19.33	PASS
Band48	20MHz	QPSK	56640	100RB#0	17.89	19.44	PASS
Band48	20MHz	64QAM	55340	100RB#0	17.89	19.68	PASS
Band48	20MHz	64QAM	55990	100RB#0	17.95	19.74	PASS
Band48	20MHz	64QAM	56640	100RB#0	17.95	19.78	PASS
Band48	20MHz	16QAM	55340	100RB#0	17.89	19.51	PASS
Band48	20MHz	16QAM	55990	100RB#0	17.89	19.45	PASS
Band48	20MHz	16QAM	56640	100RB#0	17.89	19.49	PASS
Band48	20MHz	256QAM	55340	100RB#0	17.90	19.33	PASS
Band48	20MHz	256QAM	55990	100RB#0	17.90	19.27	PASS
Band48	20MHz	256QAM	56640	100RB#0	17.90	19.27	PASS

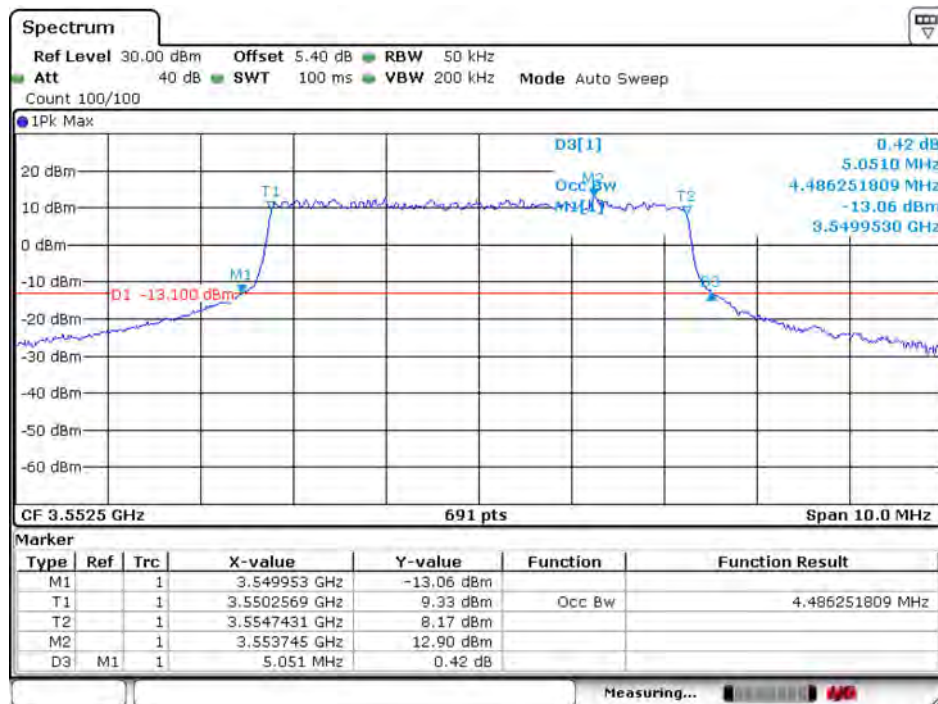


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

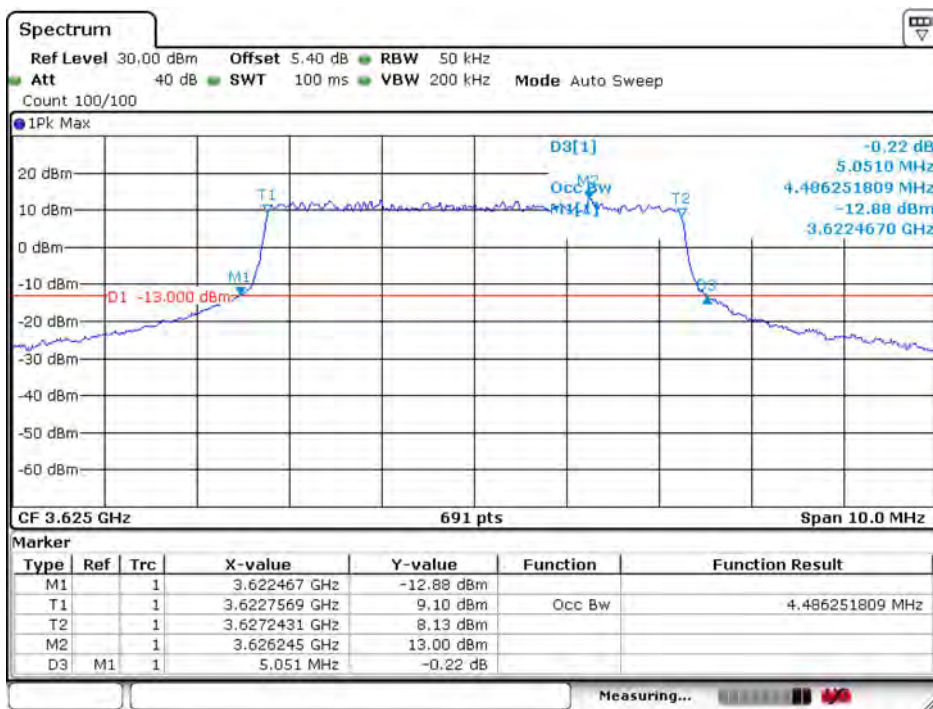
4.2. Test Plots

Band48-5MHz-QPSK-55265-25RB#0



Date: 27.MAY.2021 04:33:42

Band48-5MHz-QPSK-55990-25RB#0



Date: 27.MAY.2021 21:18:13

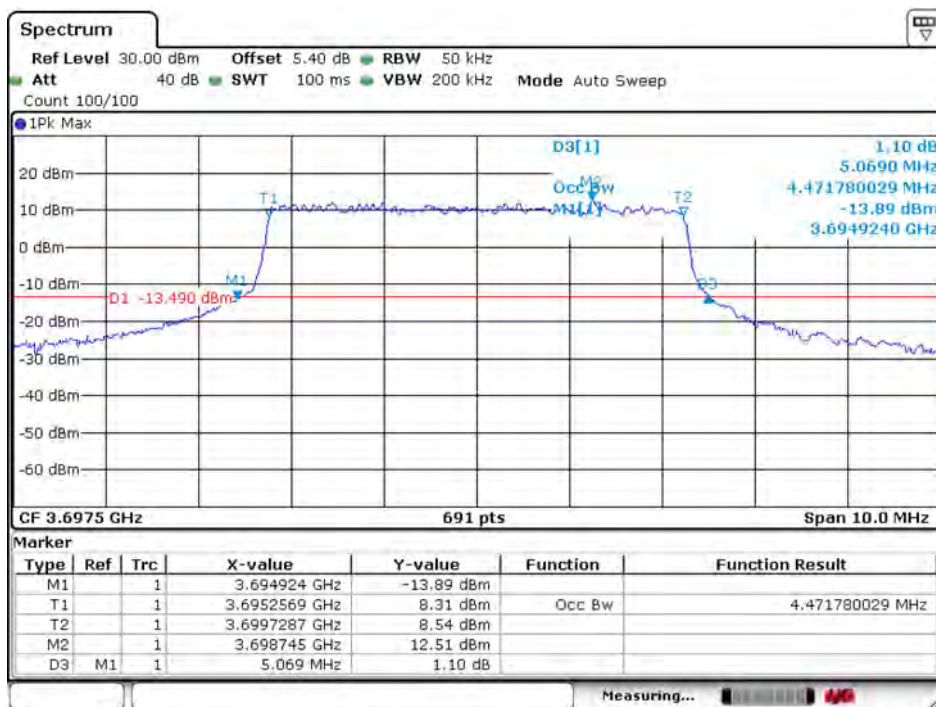


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services

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

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

Band48-5MHz-QPSK-56715-25RB#0



Date: 27.MAY.2021 21:09:25



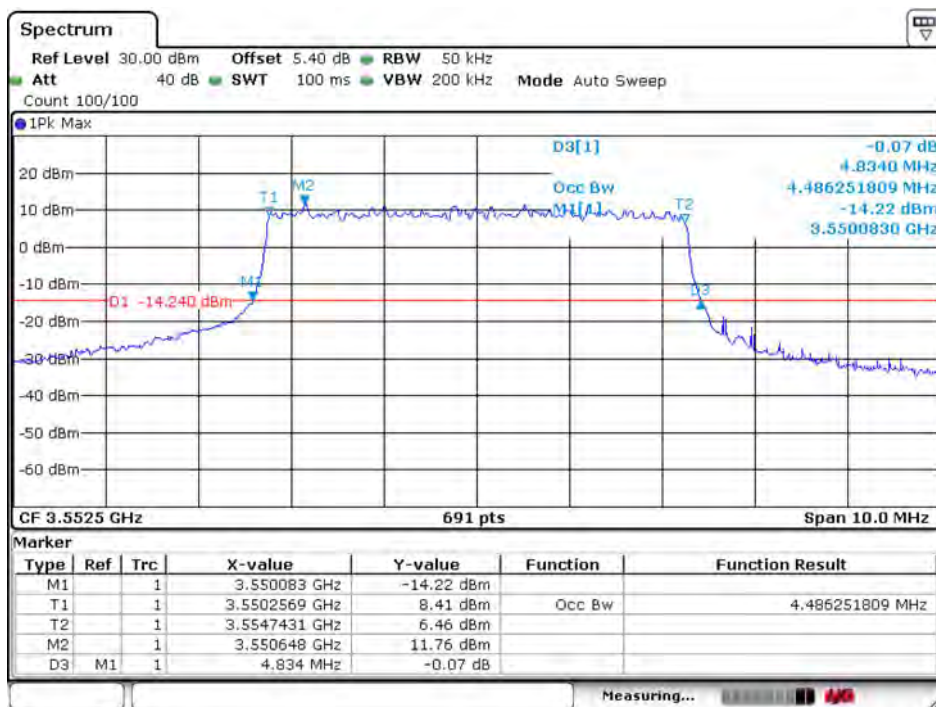
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

Band48-5MHz-64QAM-55265-25RB#0



Date: 27.MAY.2021 04:36:12

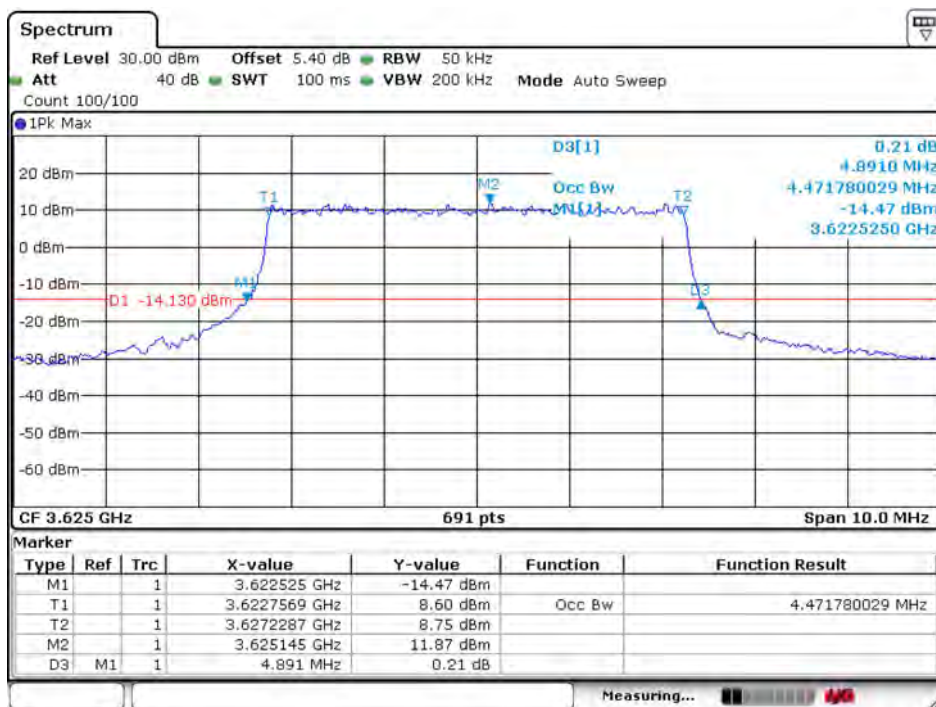


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band48-5MHz-64QAM-55990-25RB#0



Date: 27.MAY.2021 21:21:13



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

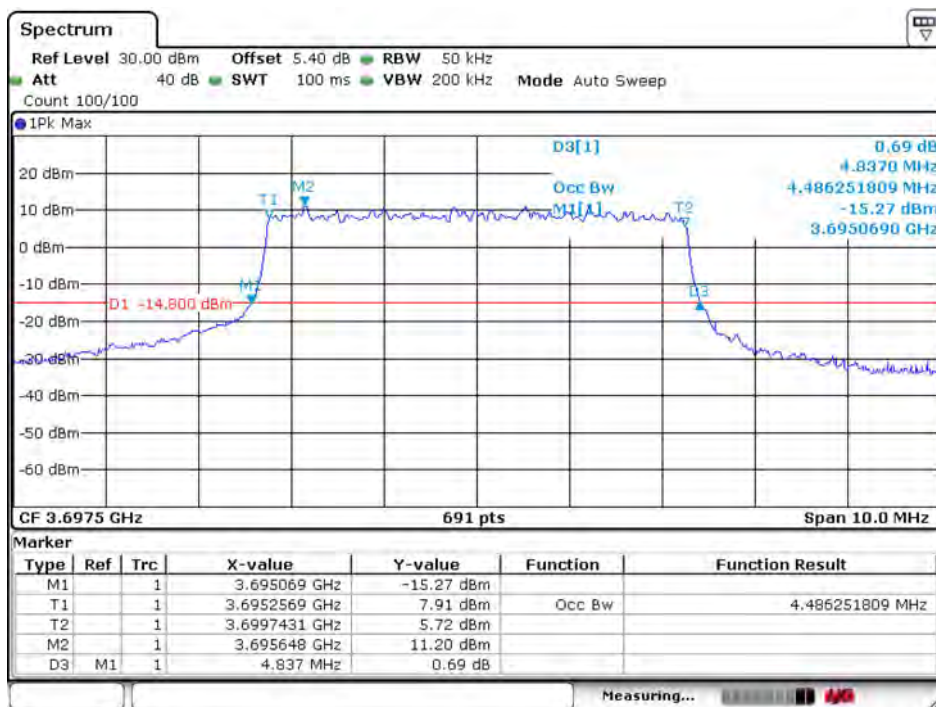
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band48-5MHz-64QAM-56715-25RB#0

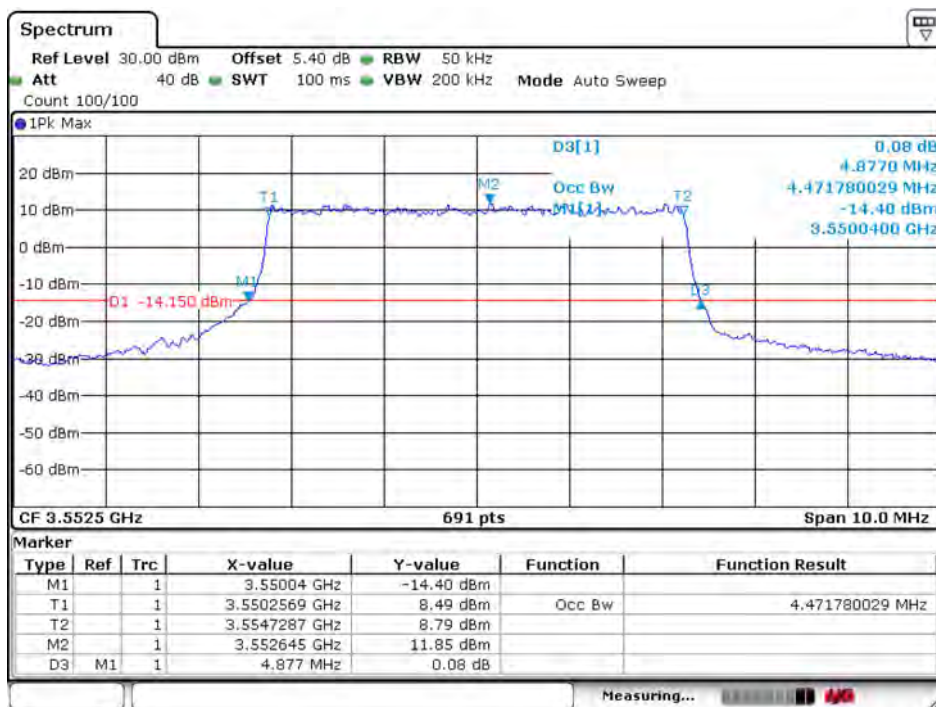


Date: 27.MAY.2021 21:07:50





Band48-5MHz-16QAM-55265-25RB#0

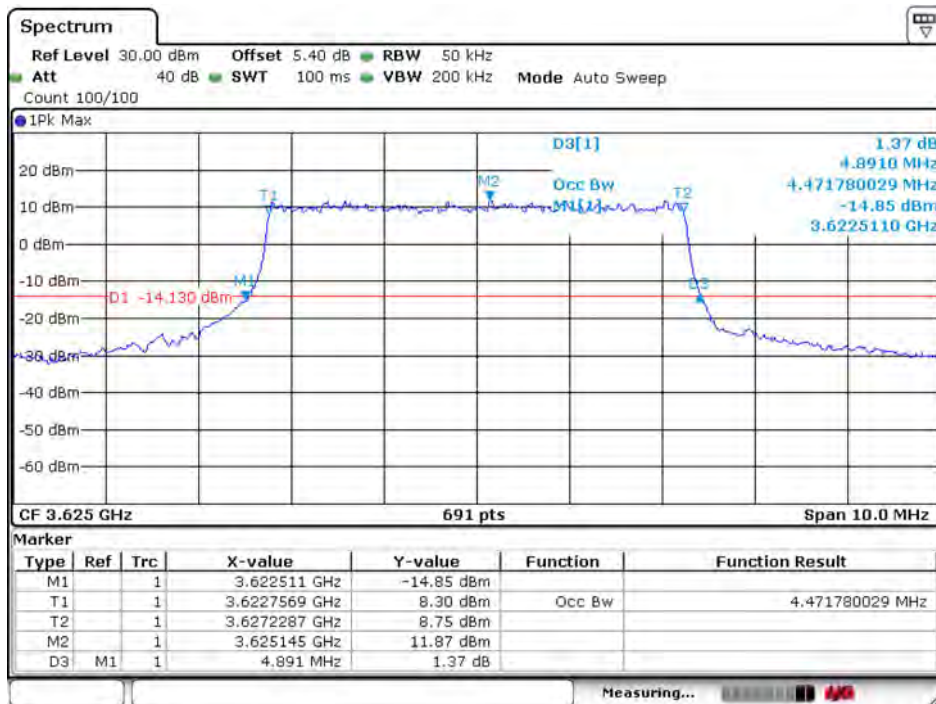


Date: 27.MAY.2021 04:35:17





Band48-5MHz-16QAM-55990-25RB#0

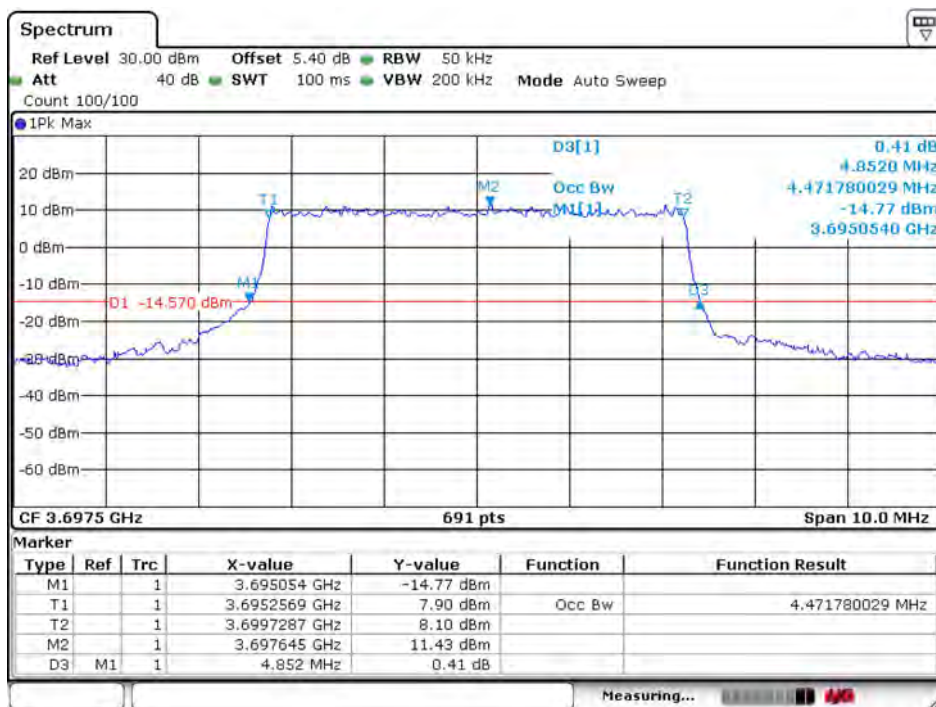


Date: 27.MAY.2021 21:19:42





Band48-5MHz-16QAM-56715-25RB#0



Date: 27.MAY.2021 21:08:38



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

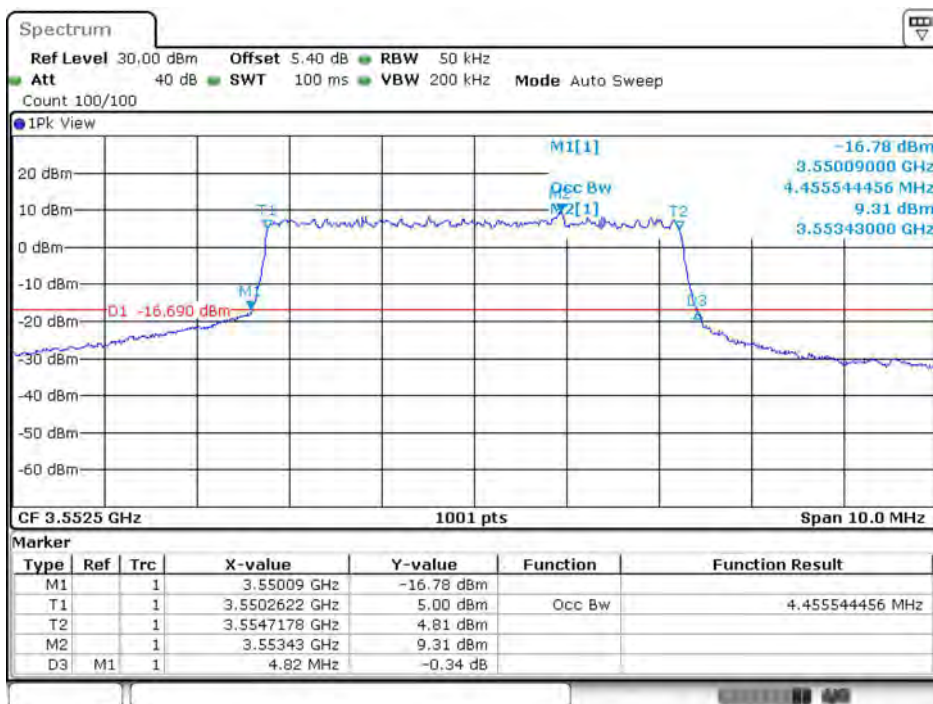
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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



Band48-5MHz-256QAM-55265-25RB#0



Date: 7.MAY 2021 04:15:06



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

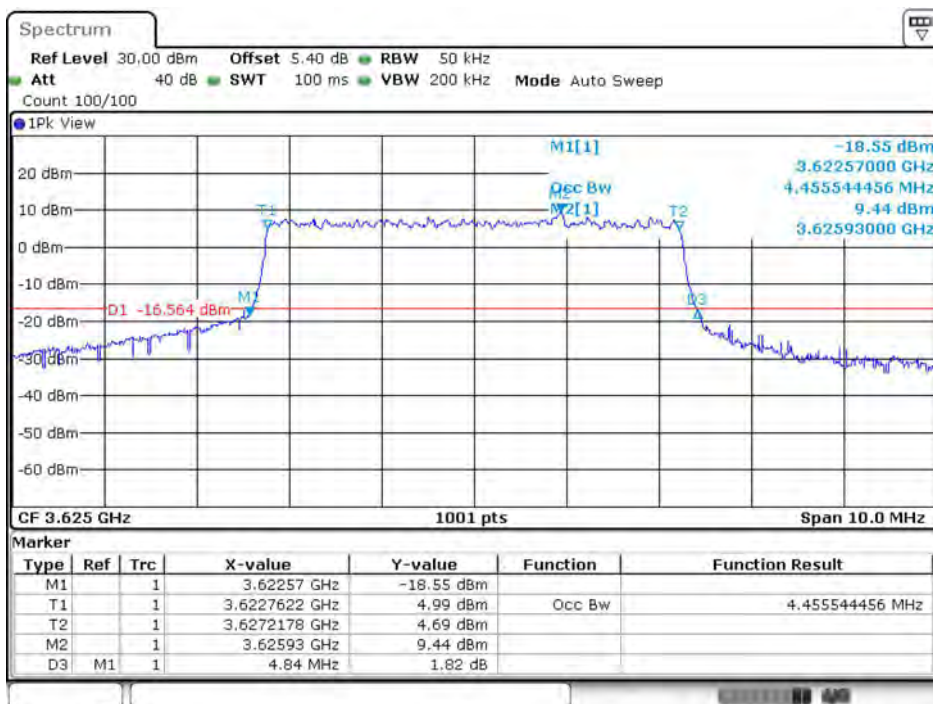
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band48-5MHz-256QAM-55990-25RB#0

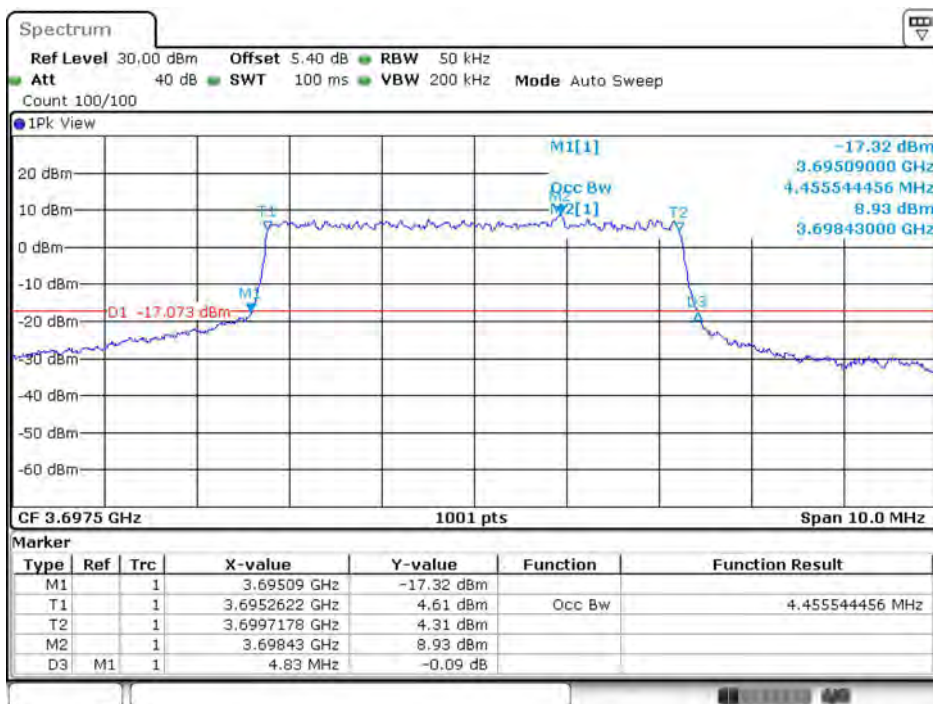


Date: 7.MAY 2021 04:16:07





Band48-5MHz-256QAM-56715-25RB#0

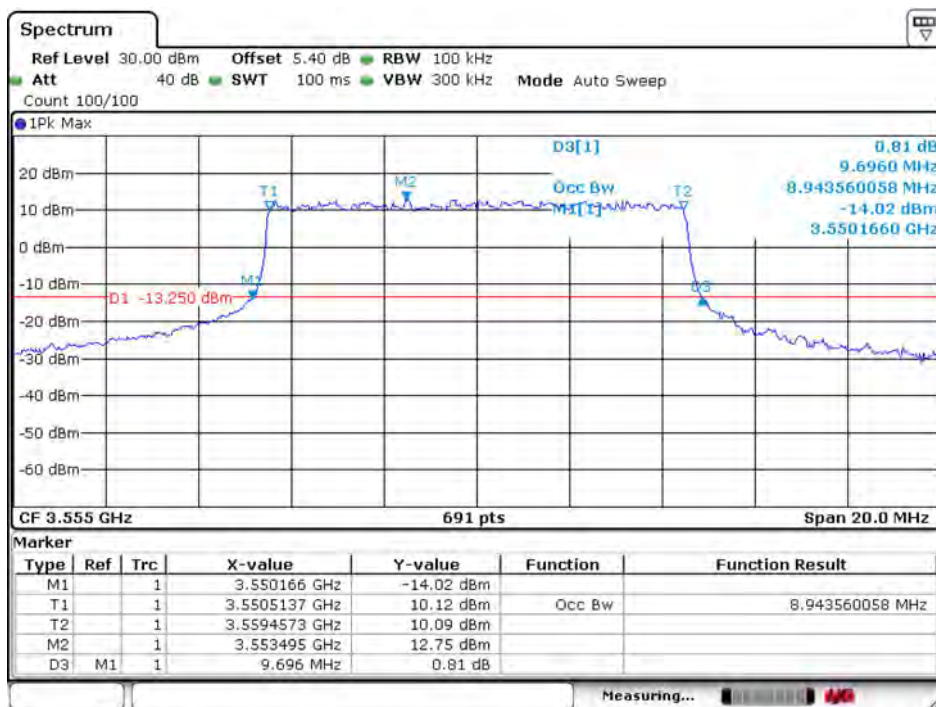


Date: 7.MAY 2021 04:17:30





Band48-10MHz-QPSK-55290-50RB#0



Date: 27.MAY.2021 04:31:15



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

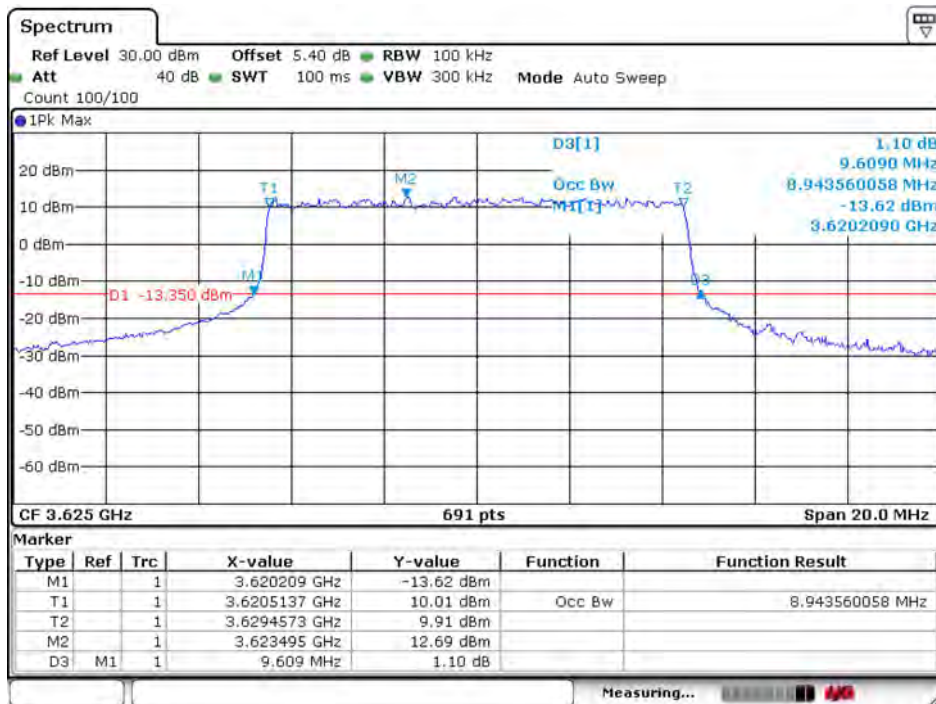
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band48-10MHz-QPSK-55990-50RB#0



Date: 27.MAY.2021 21:23:44



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

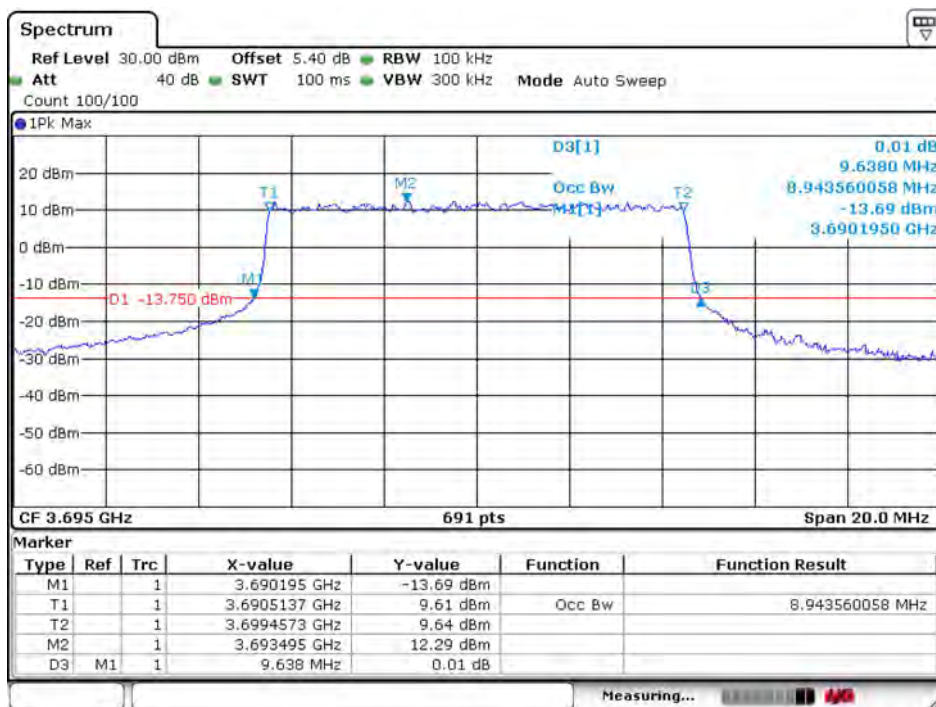
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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



Band48-10MHz-QPSK-56690-50RB#0

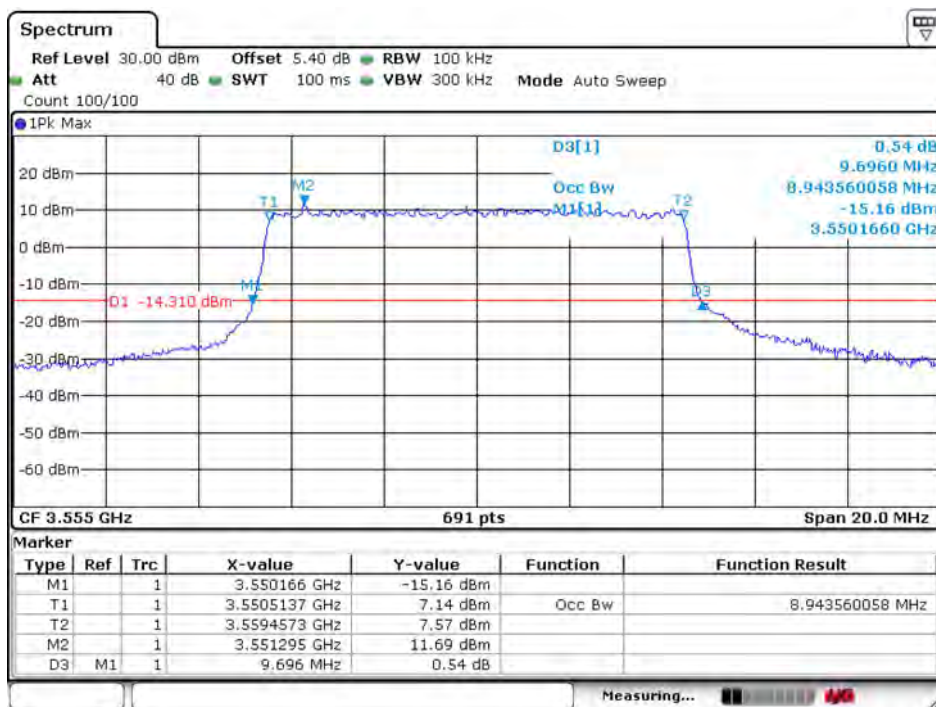


Date: 27.MAY.2021 21:04:14





Band48-10MHz-64QAM-55290-50RB#0



Date: 27.MAY.2021 04:28:59



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

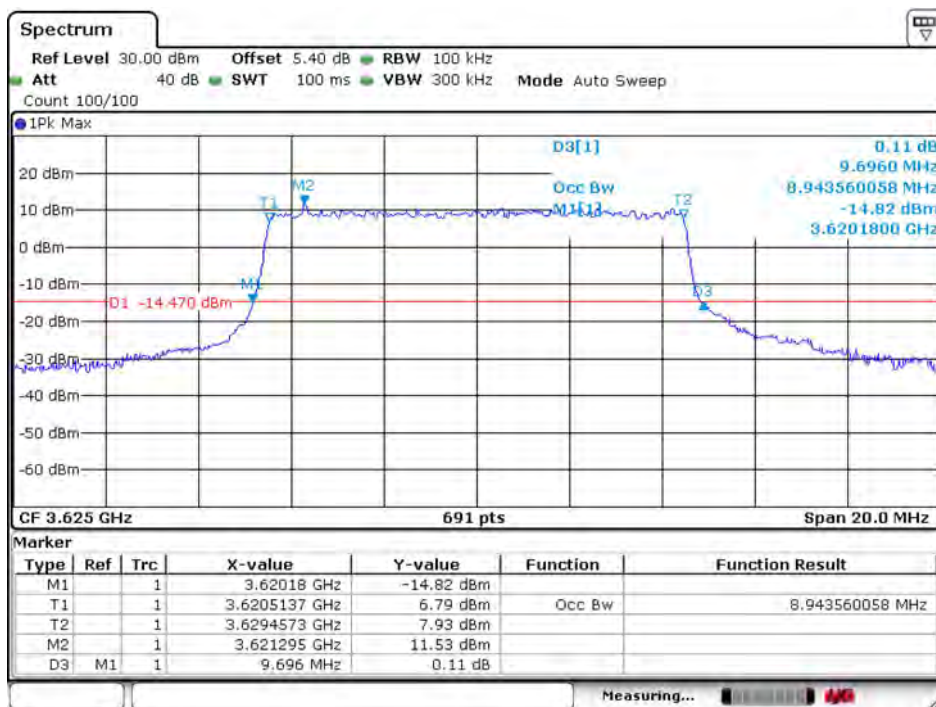
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 83071443, or email: CN.Doccheck@sgs.com

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



Band48-10MHz-64QAM-55990-50RB#0

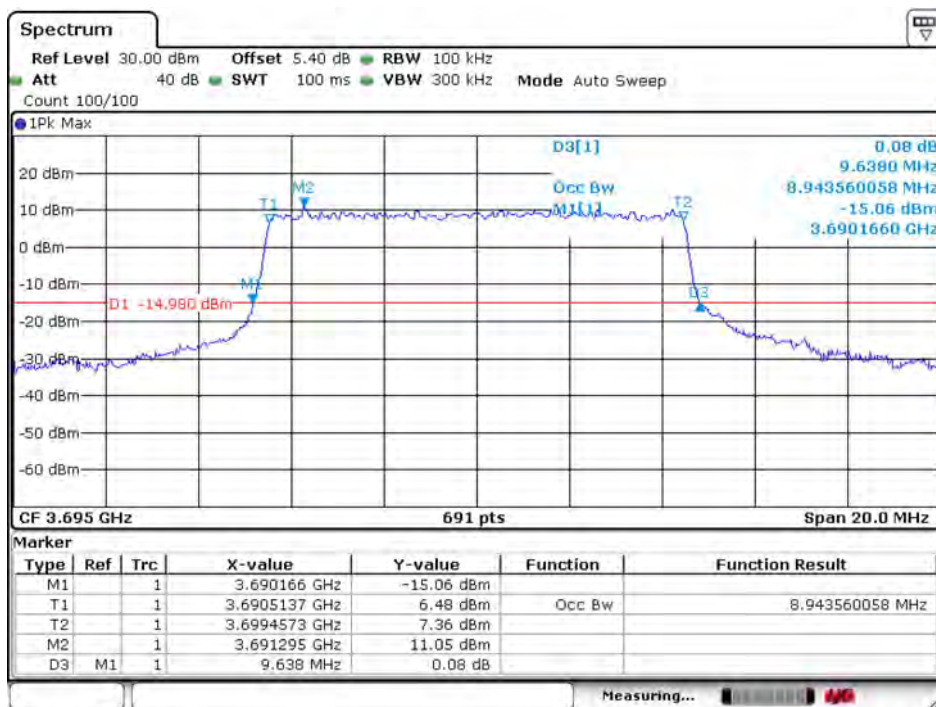


Date: 27.MAY.2021 21:23:03





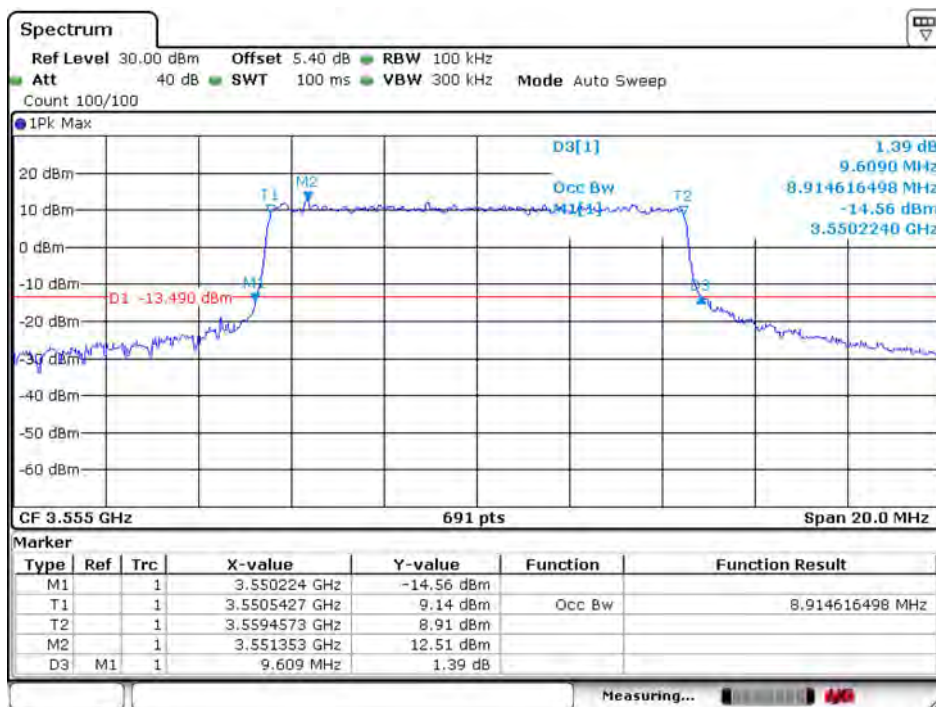
Band48-10MHz-64QAM-56690-50RB#0



Date: 27.MAY.2021 21:05:54



Band48-10MHz-16QAM-55290-50RB#0



Date: 27.MAY.2021 04:30:14

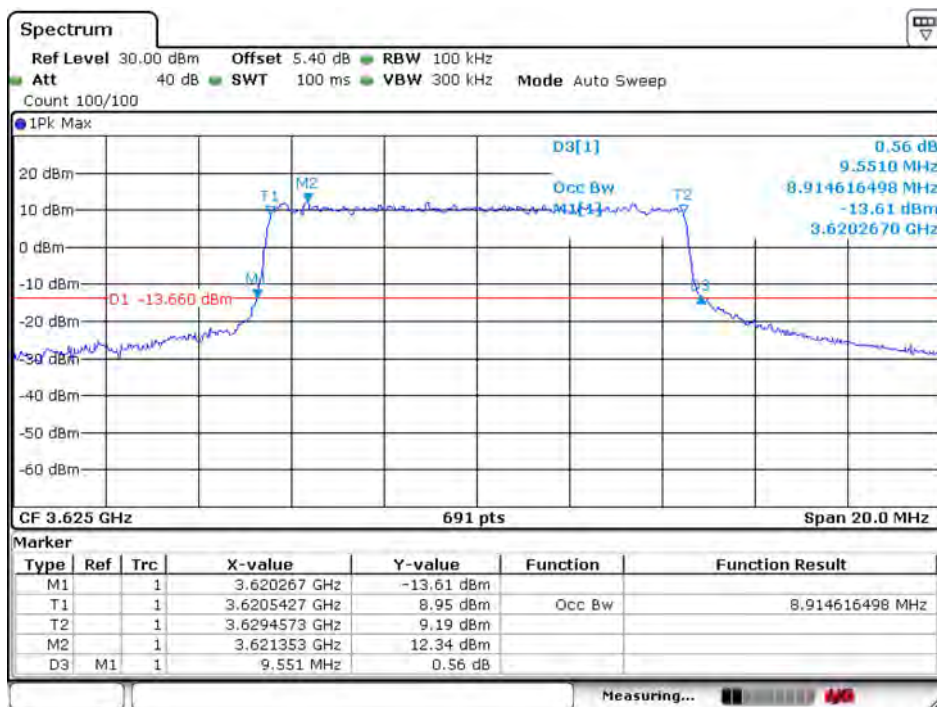


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



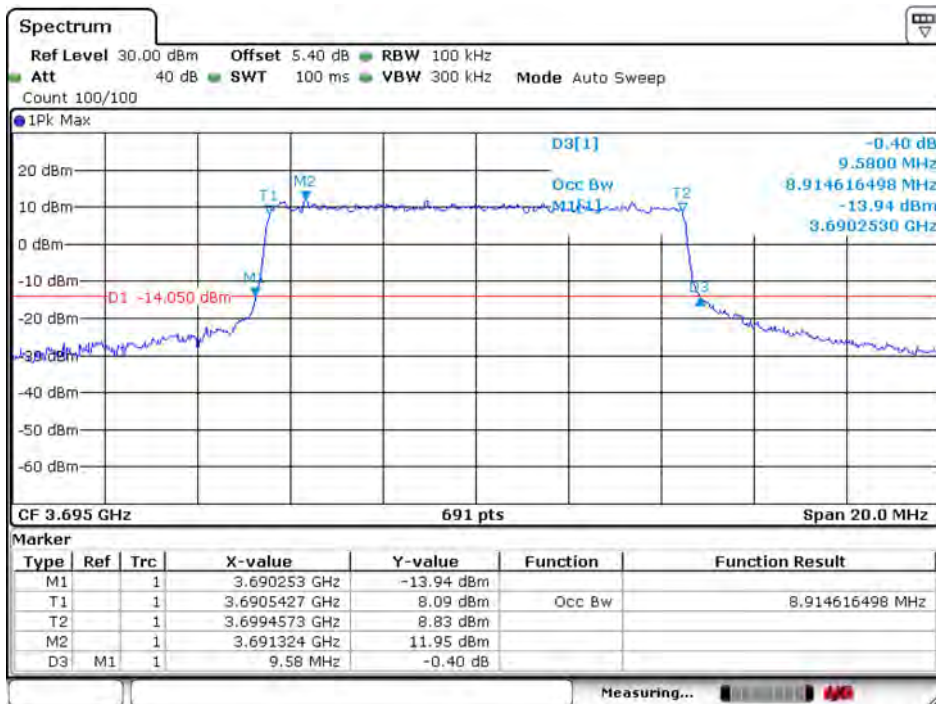
Band48-10MHz-16QAM-55990-50RB#0



Date: 27.MAY.2021 21:22:33



Band48-10MHz-16QAM-56690-50RB#0

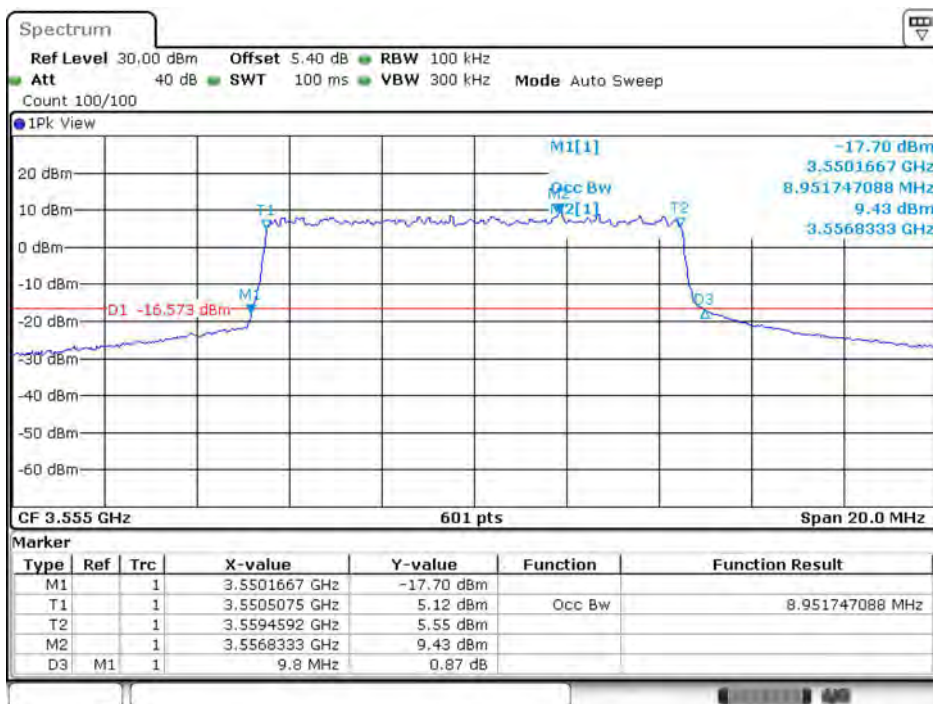


Date: 27.MAY.2021 21:05:07





Band48-10MHz-256QAM-55290-50RB#0



Date: 7.MAY 2021 04:19:40



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.

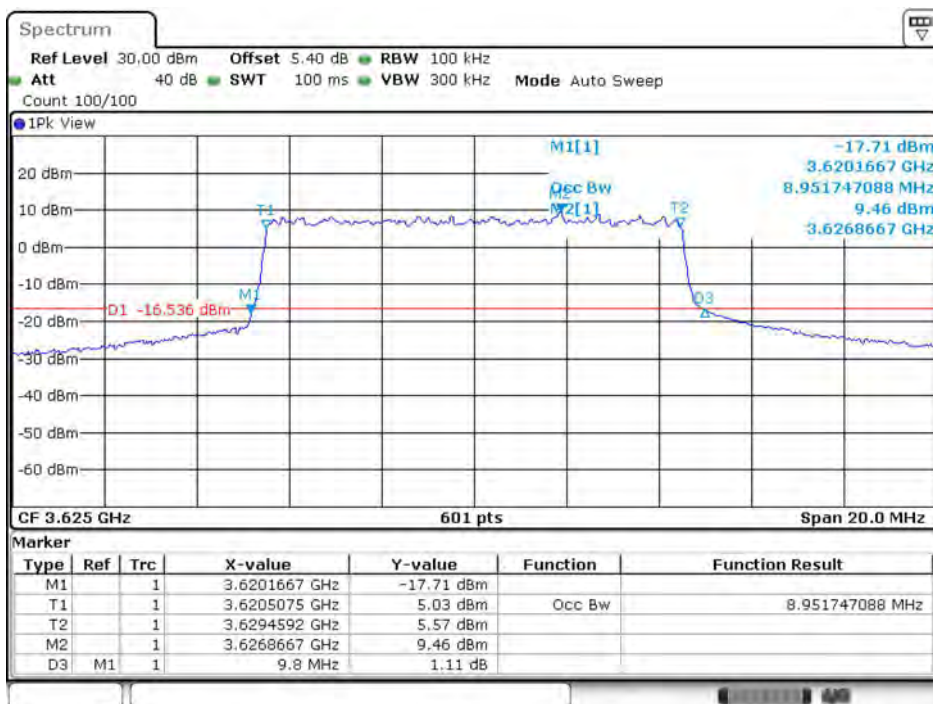
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

Member of the SGS Group (SGS SA)



Band48-10MHz-256QAM-55990-50RB#0



Date: 7.MAY 2021 04:21:25



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

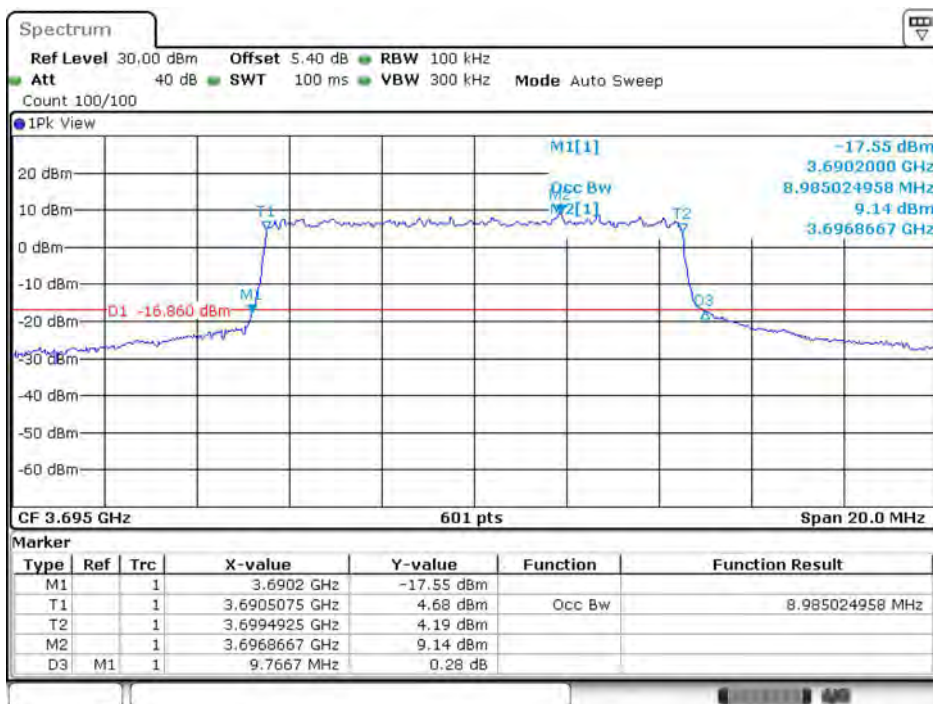
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

Member of the SGS Group (SGS SA)



Band48-10MHz-256QAM-56690-50RB#0



Date: 7.MAY 2021 04:22:24



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

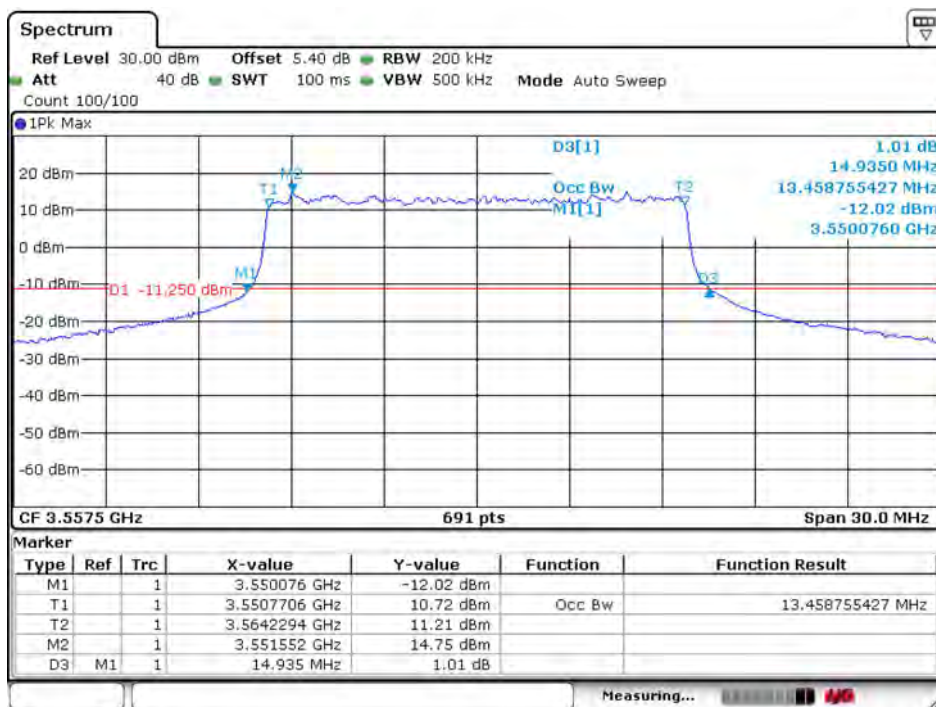
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

Member of the SGS Group (SGS SA)



Band48-15MHz-QPSK-55315-75RB#0



Date: 27.MAY.2021 05:00:57



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

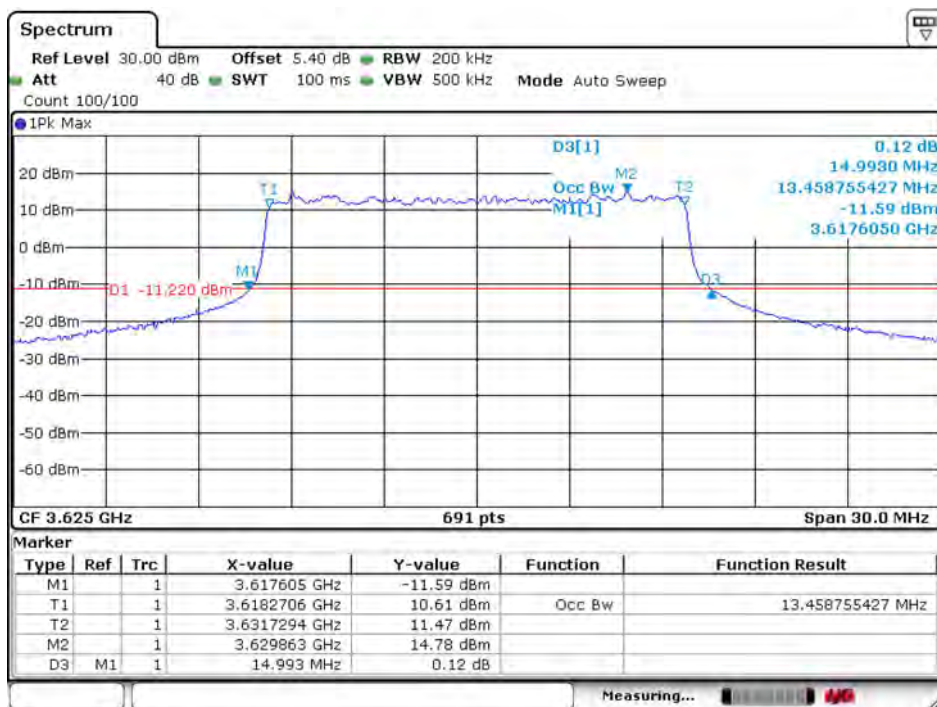
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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



Band48-15MHz-QPSK-55990-75RB#0

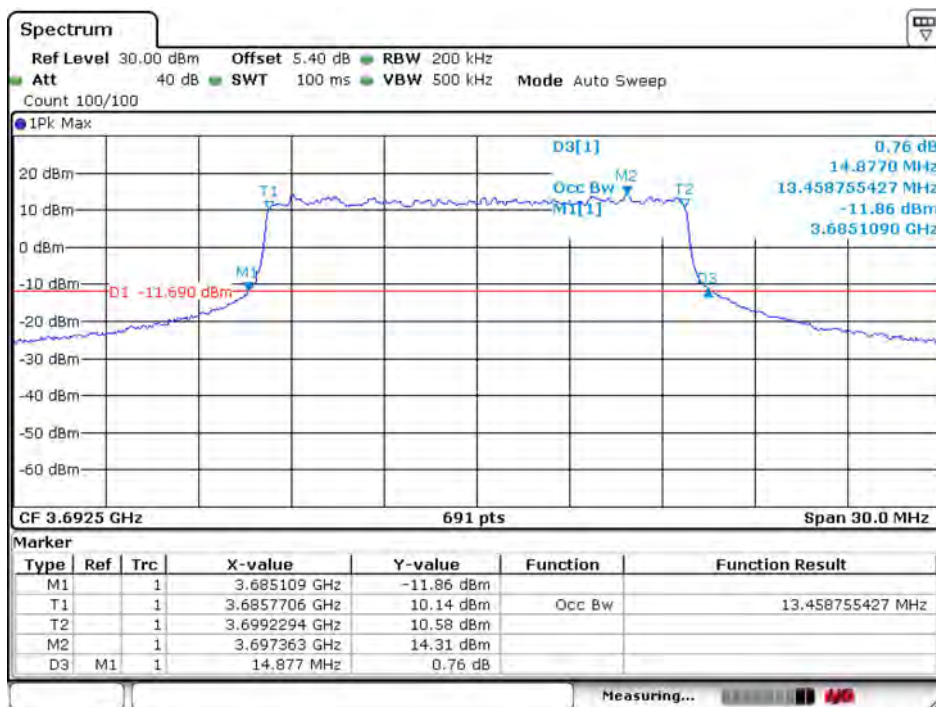


Date: 27.MAY.2021 21:25:09





Band48-15MHz-QPSK-56665-75RB#0



Date: 27.MAY.2021 08:18:46



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

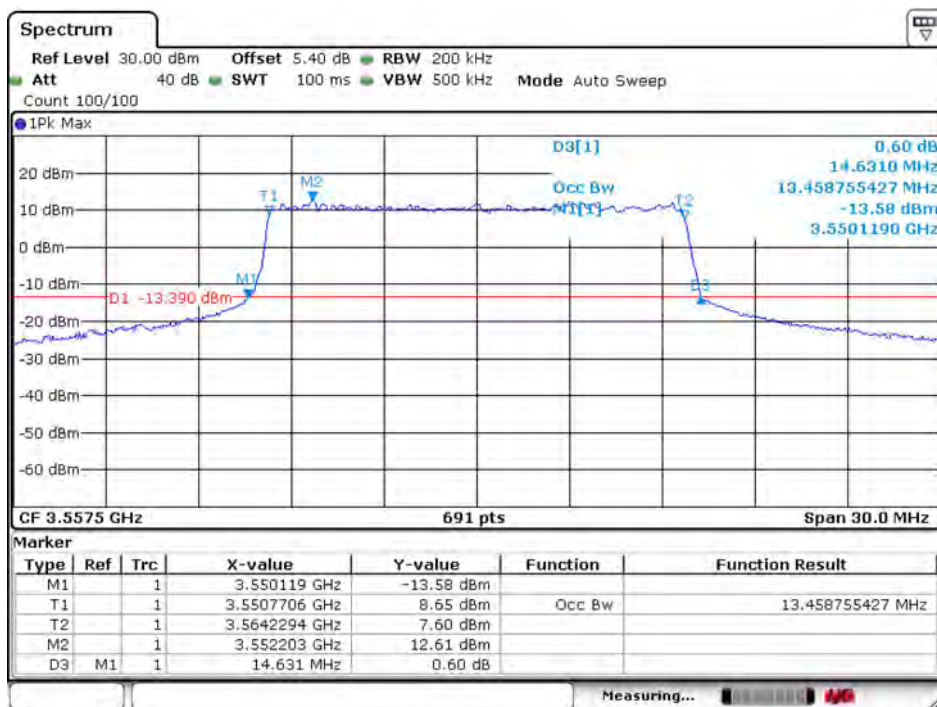
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

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



Band48-15MHz-64QAM-55315-75RB#0



Date: 27.MAY.2021 04:46:34



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

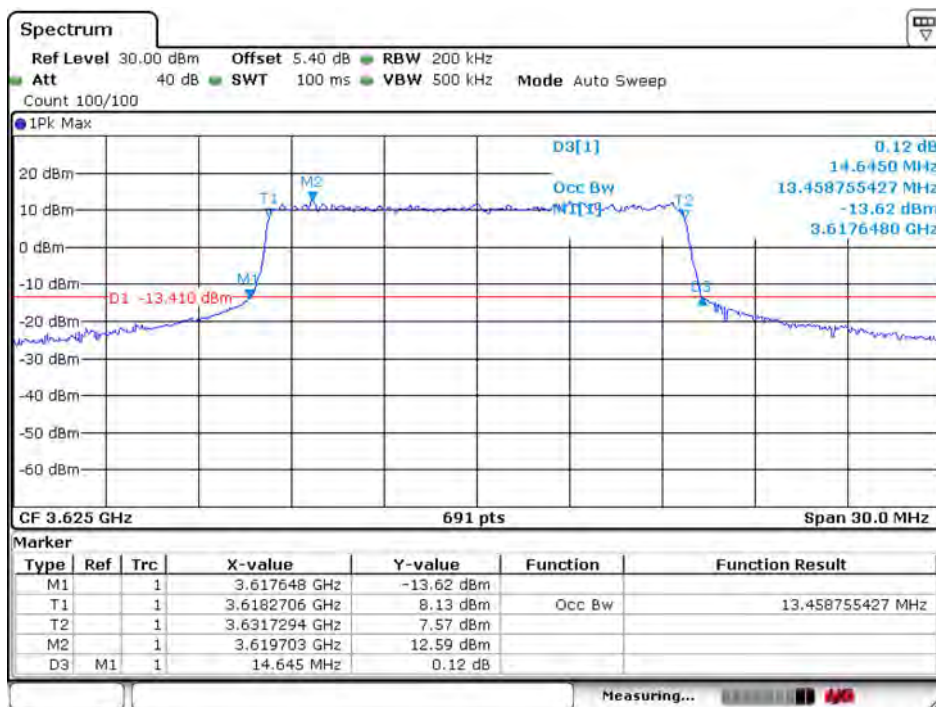
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band48-15MHz-64QAM-55990-75RB#0



Date: 27.MAY.2021 21:26:38



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

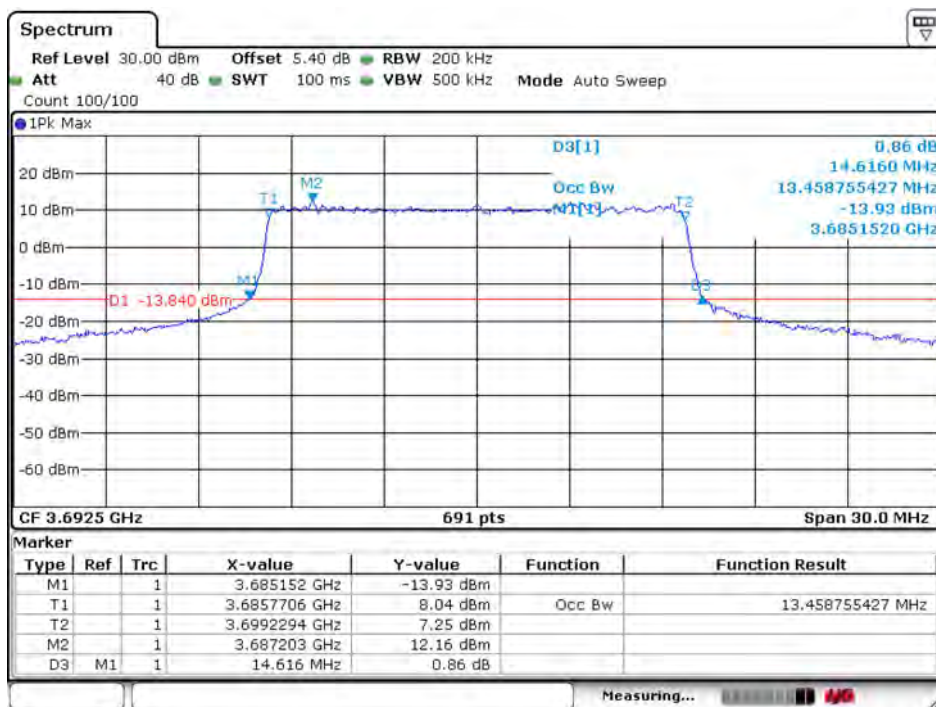
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band48-15MHz-64QAM-56665-75RB#0



Date: 27.MAY.2021 08:14:48



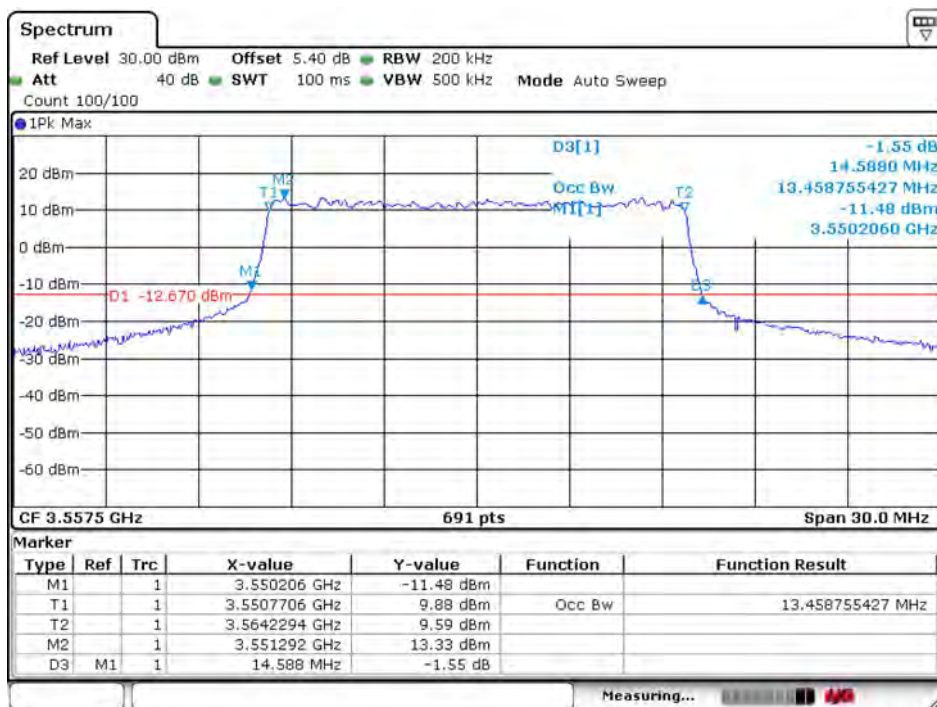
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Laboratory

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

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

Band48-15MHz-16QAM-55315-75RB#0



Date: 27.MAY.2021 04:56:50

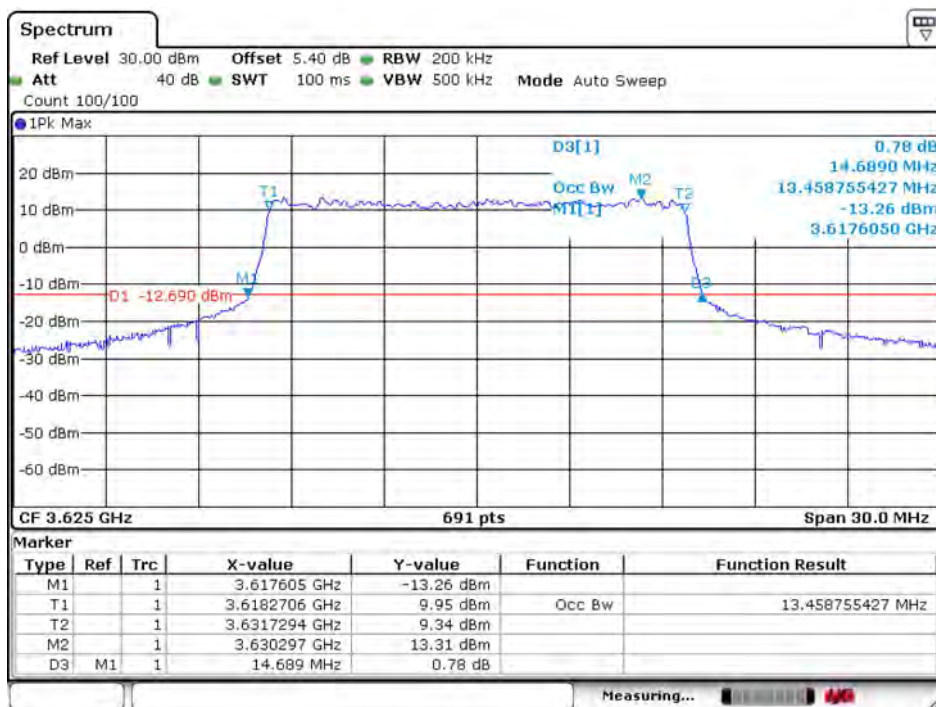


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band48-15MHz-16QAM-55990-75RB#0



Date: 27.MAY.2021 21:25:57



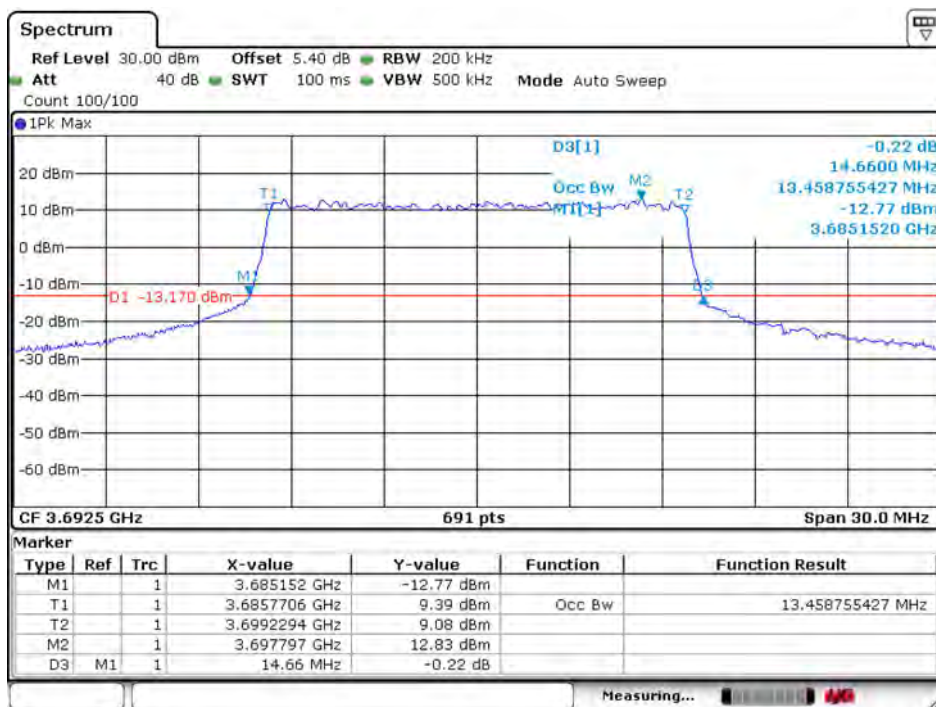
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Laboratory

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

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



Band48-15MHz-16QAM-56665-75RB#0



Date: 27.MAY.2021 08:16:31



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

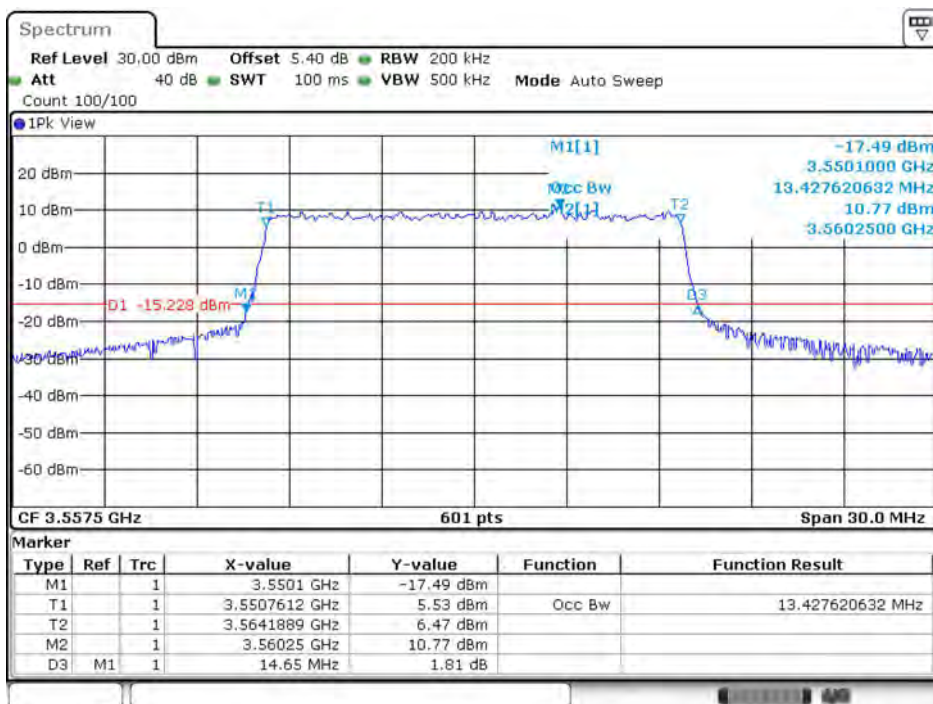
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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



Band48-15MHz-256QAM-55315-75RB#0



Date: 7.MAY 2021 04:23:22



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.

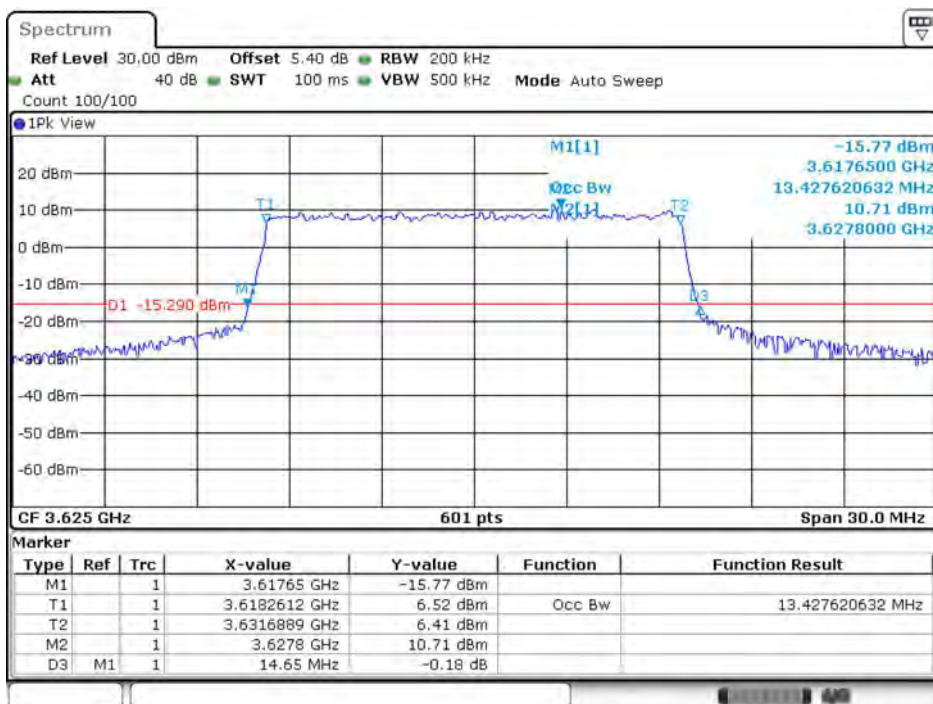
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

Member of the SGS Group (SGS SA)



Band48-15MHz-256QAM-55990-75RB#0



Date: 7.MAY 2021 04:23:48



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

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

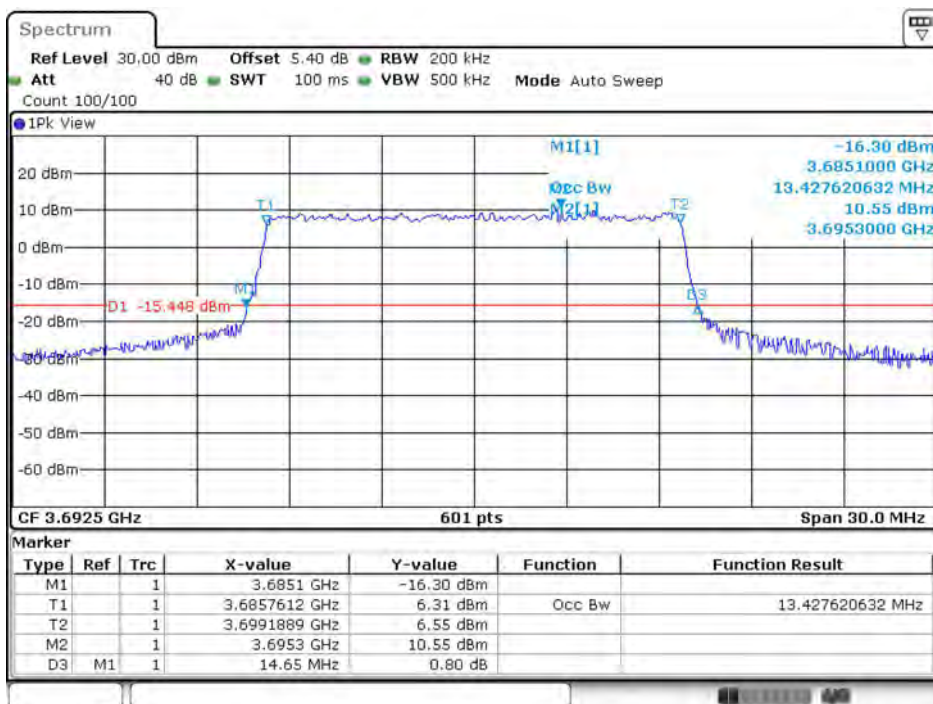
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

Member of the SGS Group (SGS SA)



Band48-15MHz-256QAM-56665-75RB#0



Date: 7.MAY 2021 04:24:13



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

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

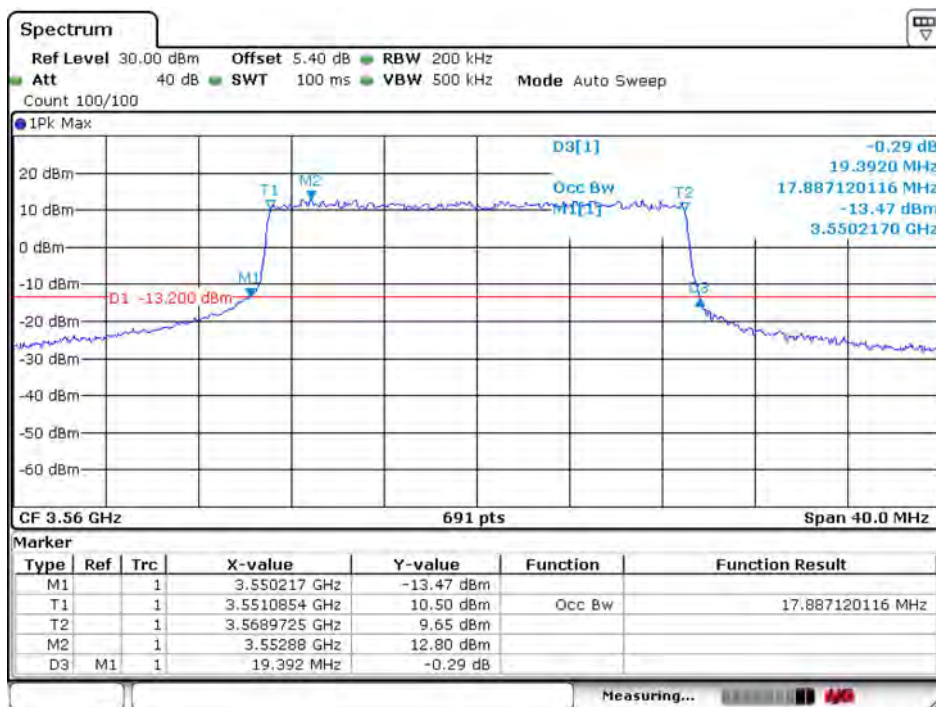
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

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

Member of the SGS Group (SGS SA)



Band48-20MHz-QPSK-55340-100RB#0



Date: 27.MAY.2021 07:41:11



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

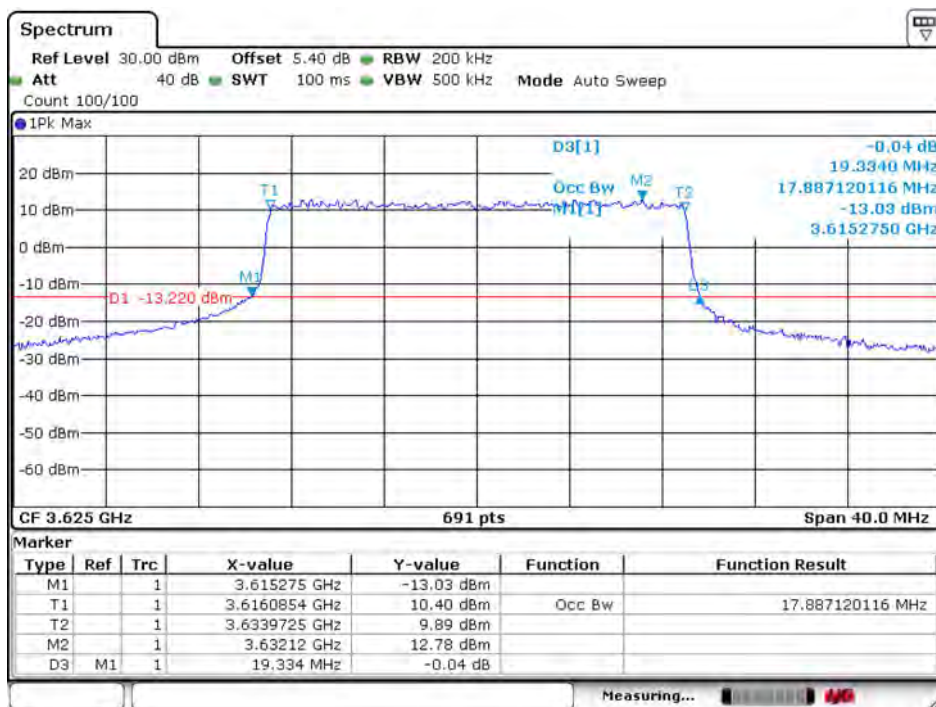
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band48-20MHz-QPSK-55990-100RB#0

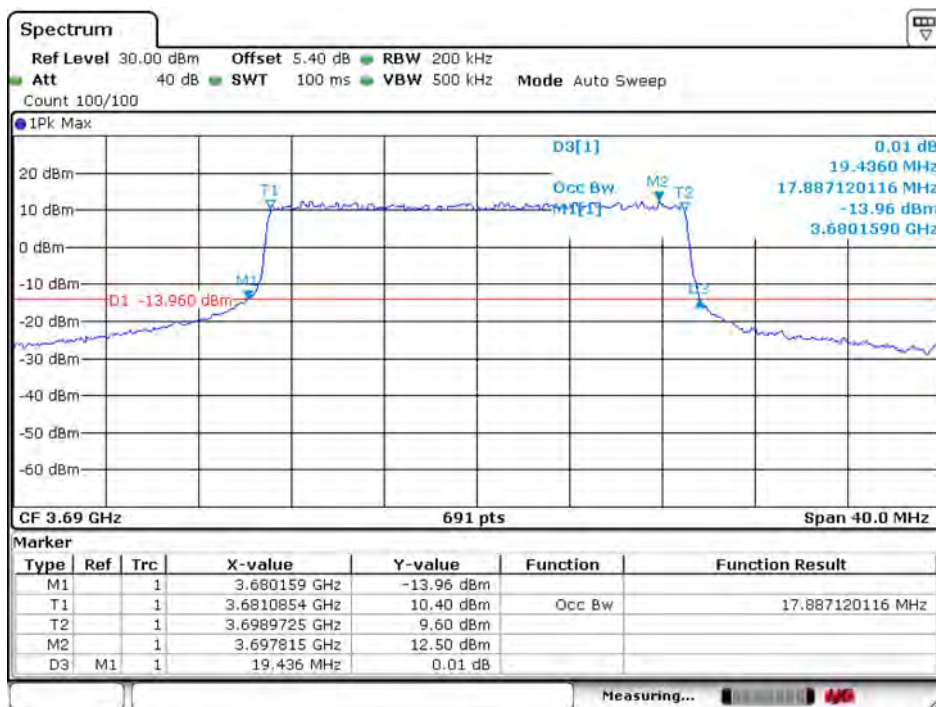


Date: 27.MAY.2021 21:29:32





Band48-20MHz-QPSK-56640-100RB#0

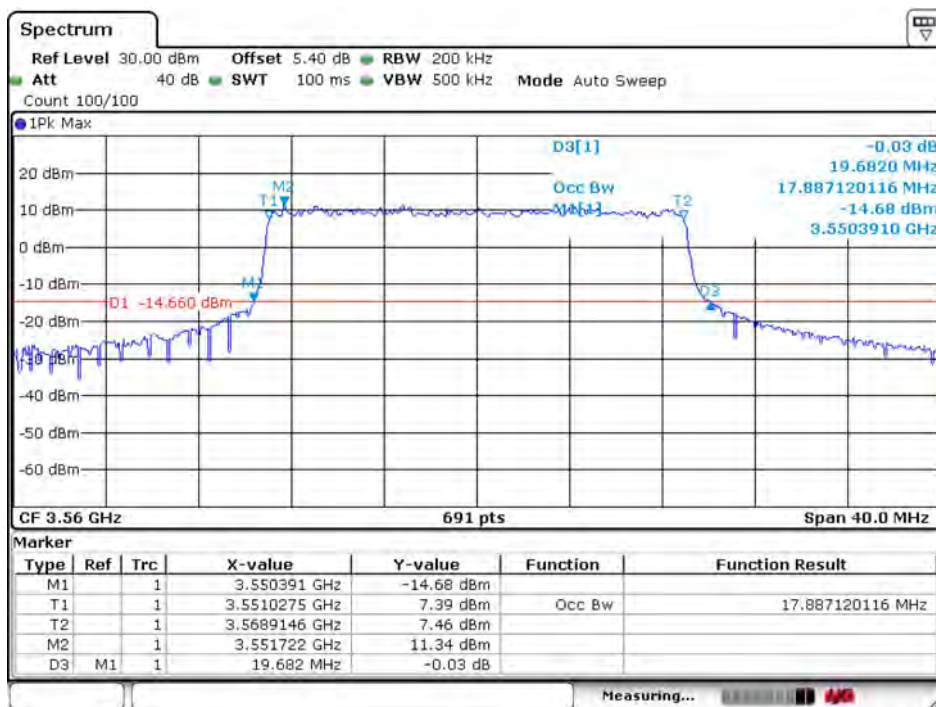


Date: 27.MAY.2021 08:01:00





Band48-20MHz-64QAM-55340-100RB#0



Date: 27.MAY.2021 07:42:49



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

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

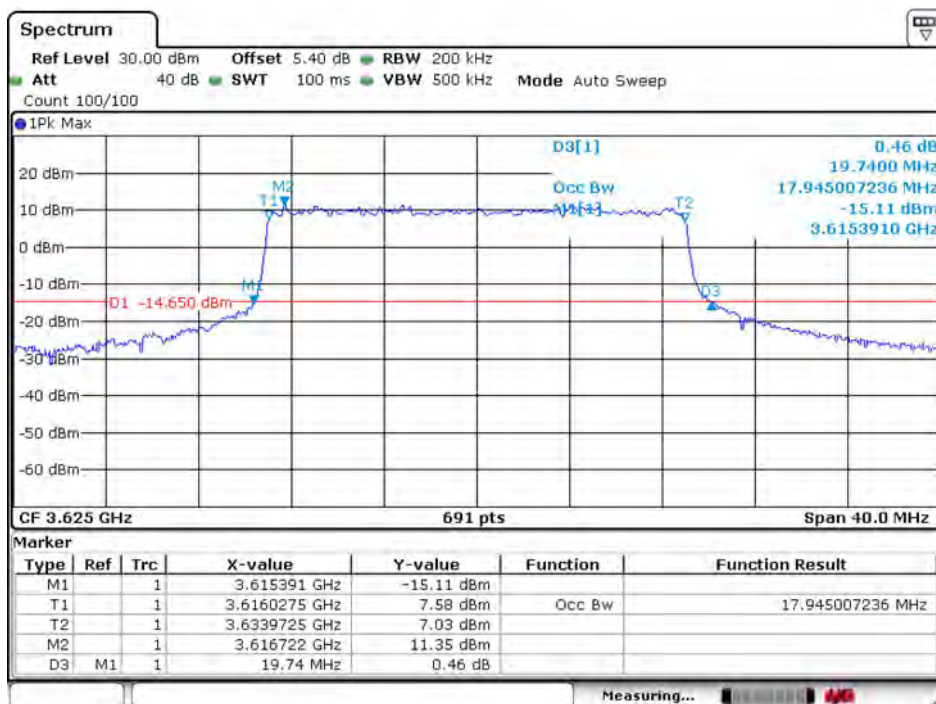
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

Member of the SGS Group (SGS SA)



Band48-20MHz-64QAM-55990-100RB#0



Date: 27.MAY.2021 21:28:00



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

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

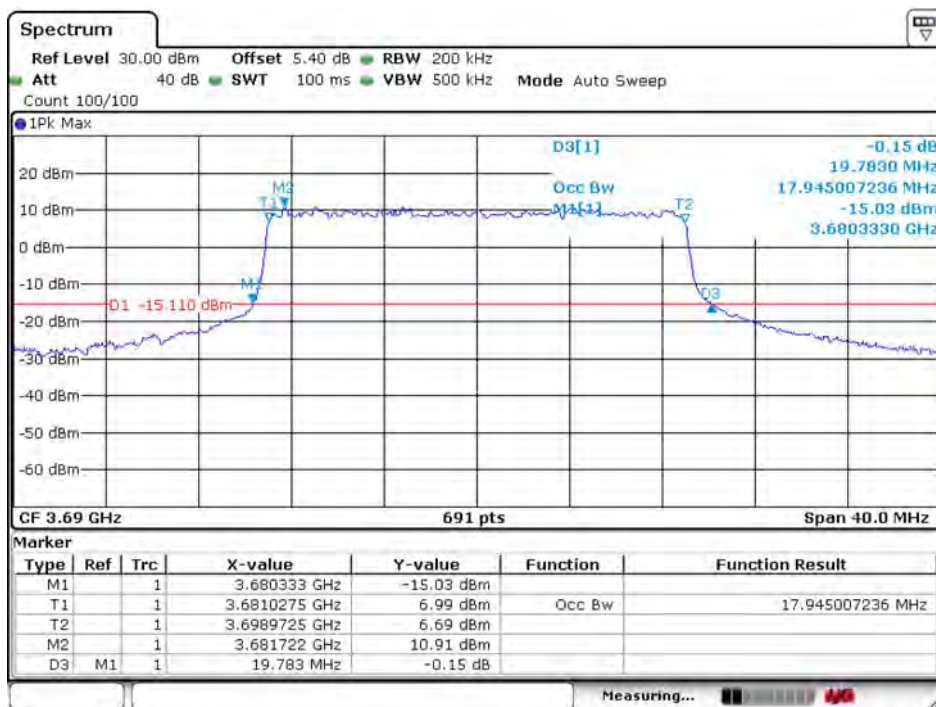
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Laboratory

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

Member of the SGS Group (SGS SA)



Band48-20MHz-64QAM-56640-100RB#0



Date: 27.MAY.2021 08:03:23



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

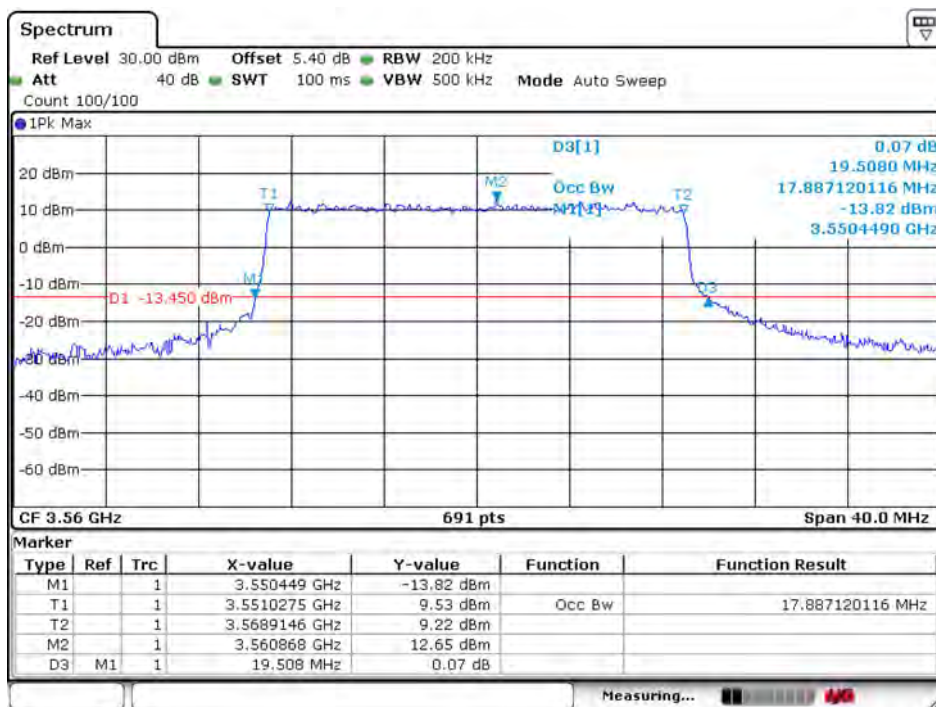
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band48-20MHz-16QAM-55340-100RB#0



Date: 27.MAY.2021 07:42:01



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

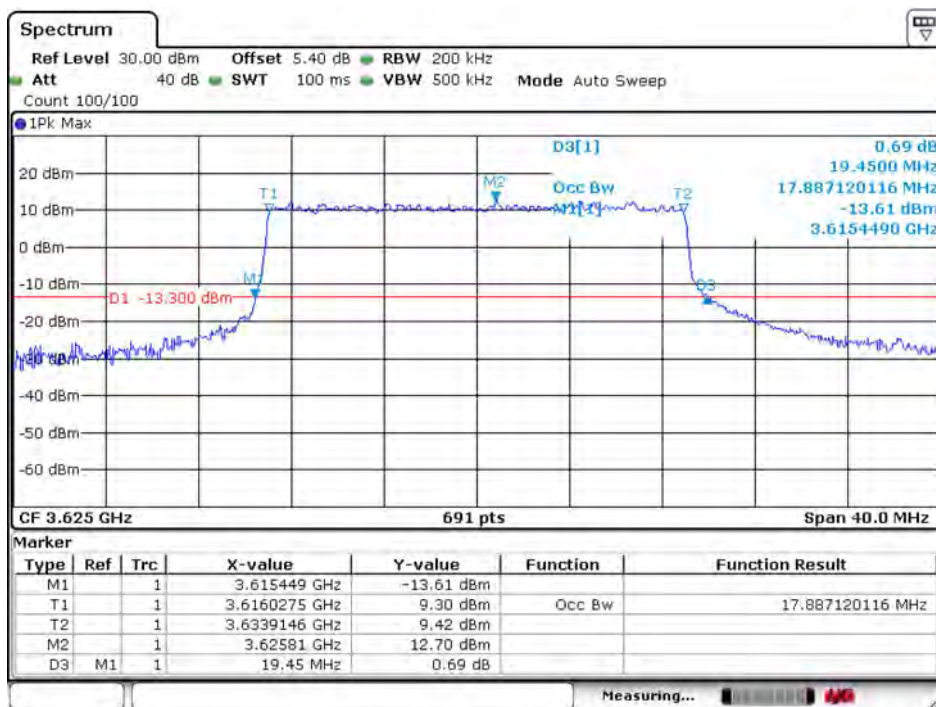
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

Member of the SGS Group (SGS SA)

Band48-20MHz-16QAM-55990-100RB#0



Date: 27.MAY.2021 21:28:49

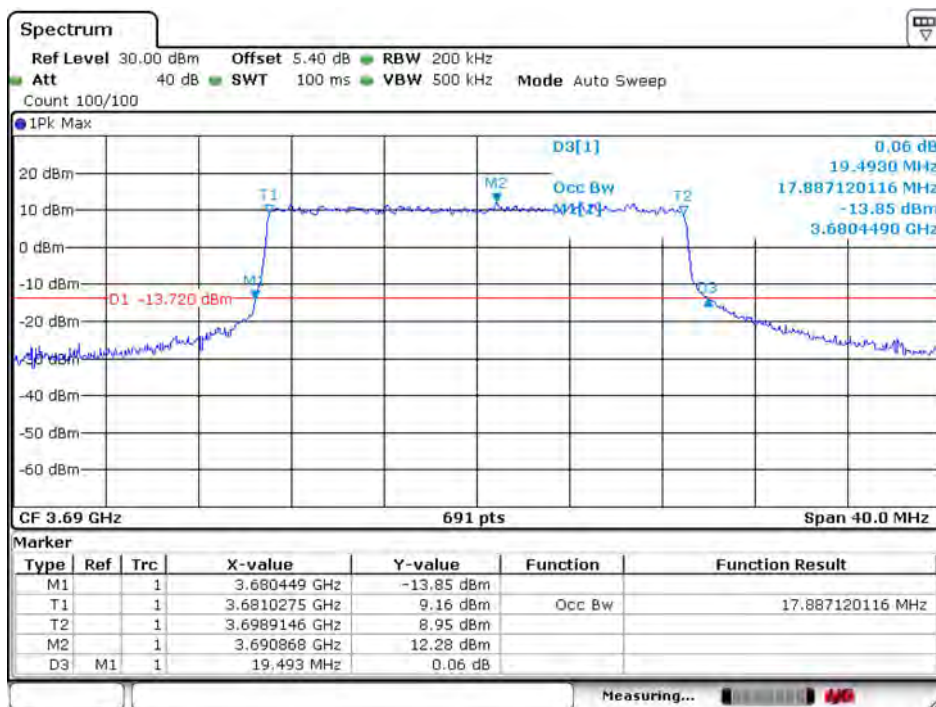


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band48-20MHz-16QAM-56640-100RB#0

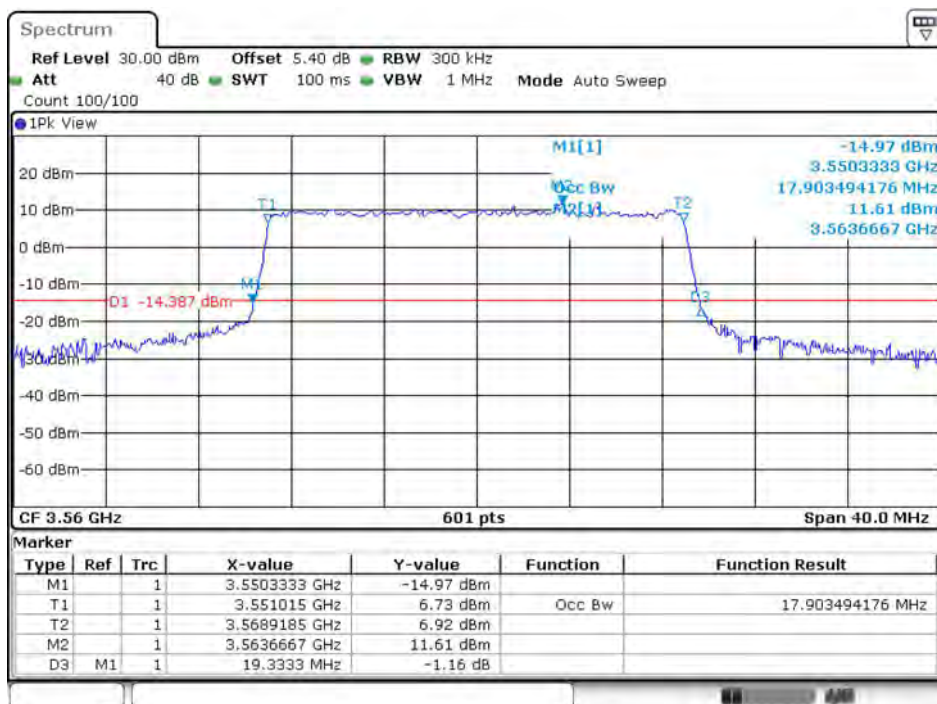


Date: 27.MAY.2021 08:01:59





Band48-20MHz-256QAM-55340-100RB#0



Date: 7 MAY 2021 04:25:11



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

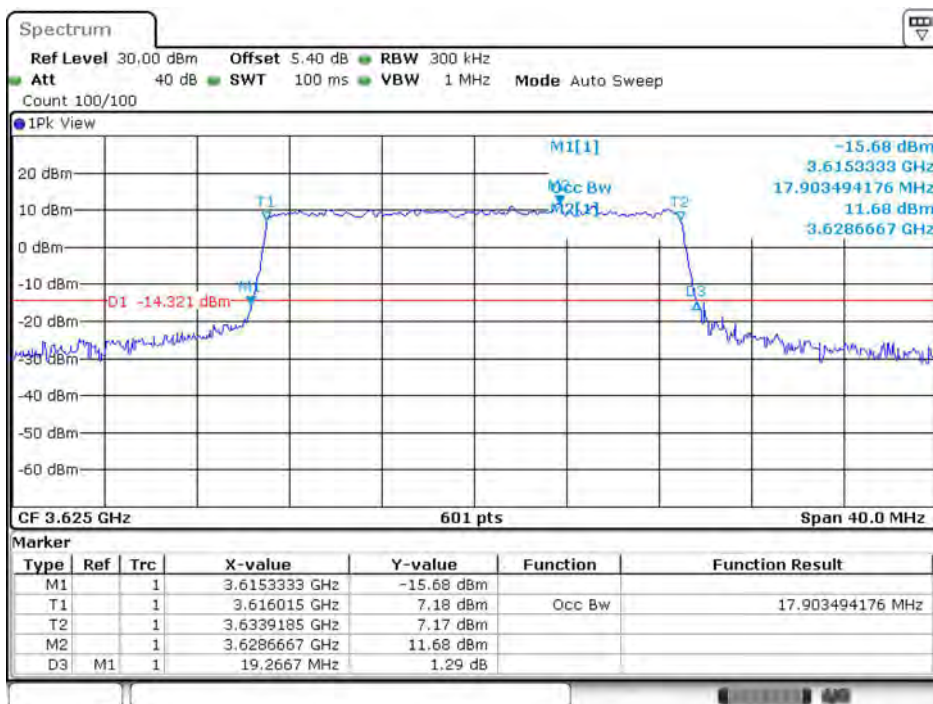
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band48-20MHz-256QAM-55990-100RB#0



Date: 7.MAY 2021 04:25:39



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

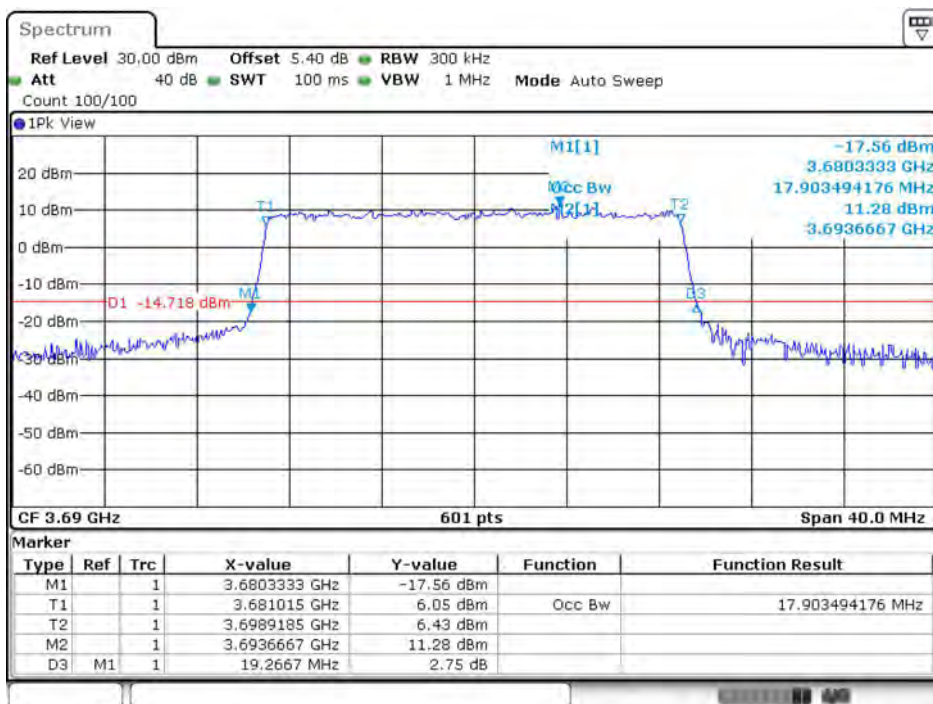
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band48-20MHz-256QAM-56640-100RB#0



Date: 7.MAY 2021 04:26:10



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

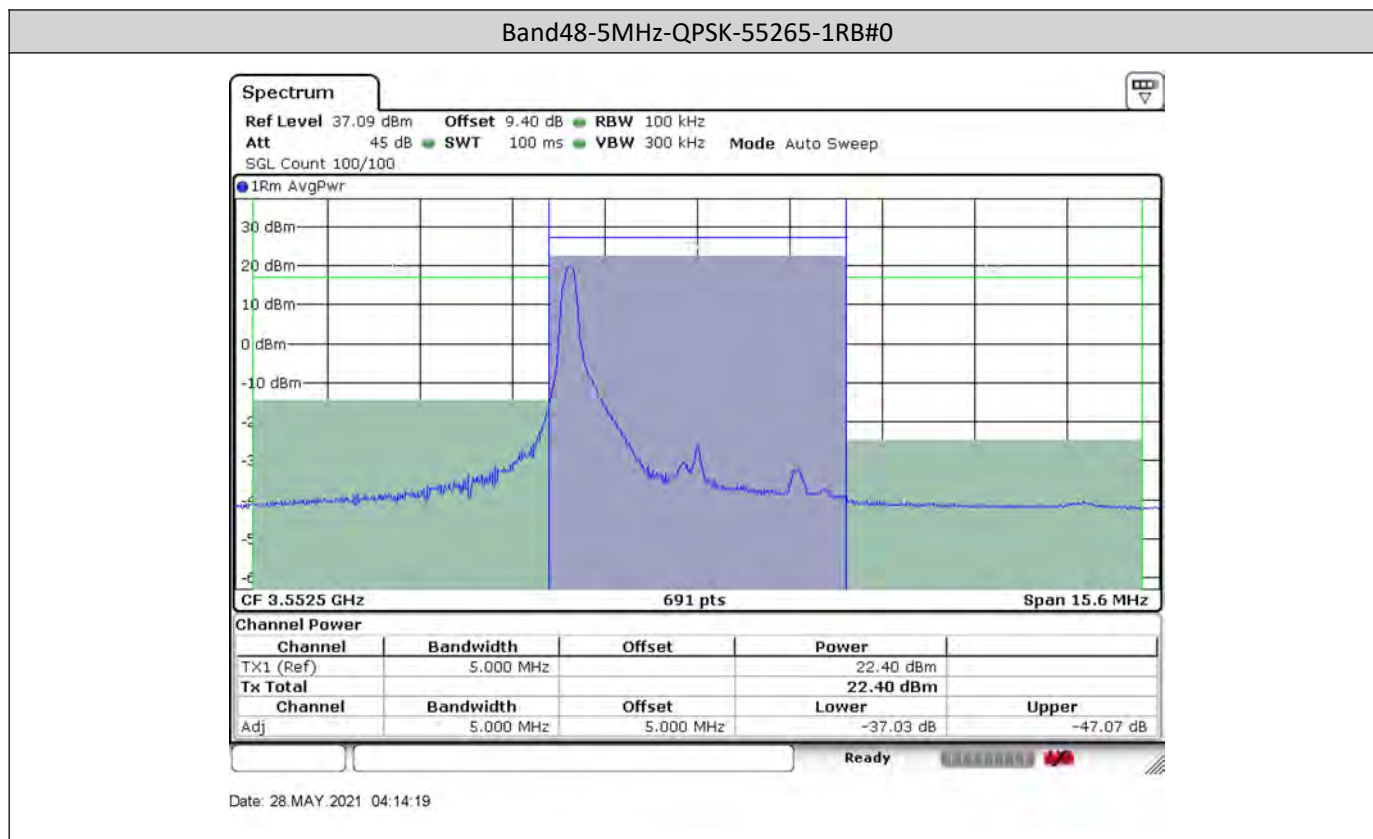
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

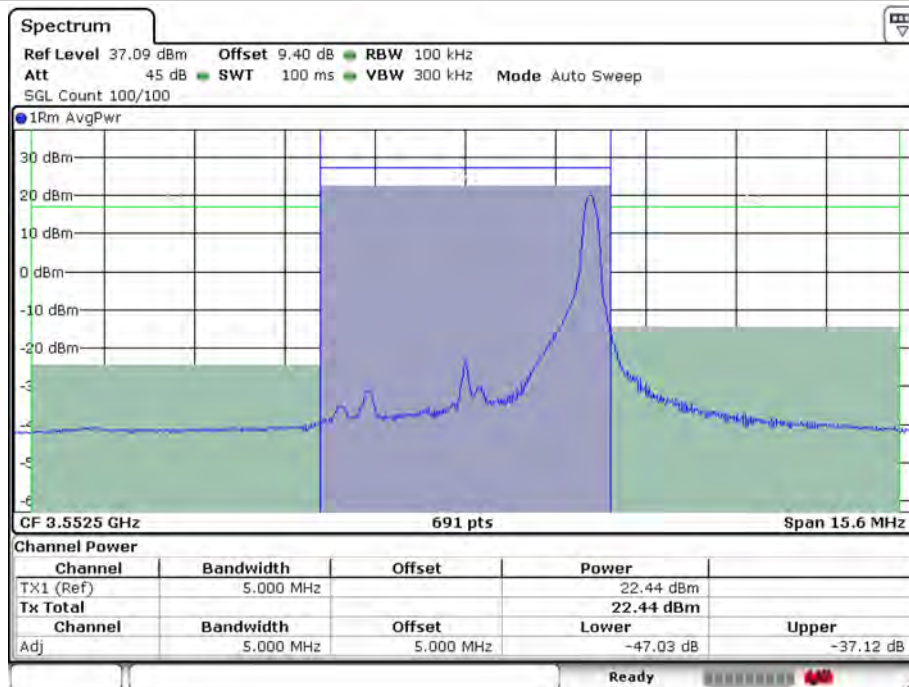
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

5. Adjacent Channel Leakage Power

5.1. Test Plots

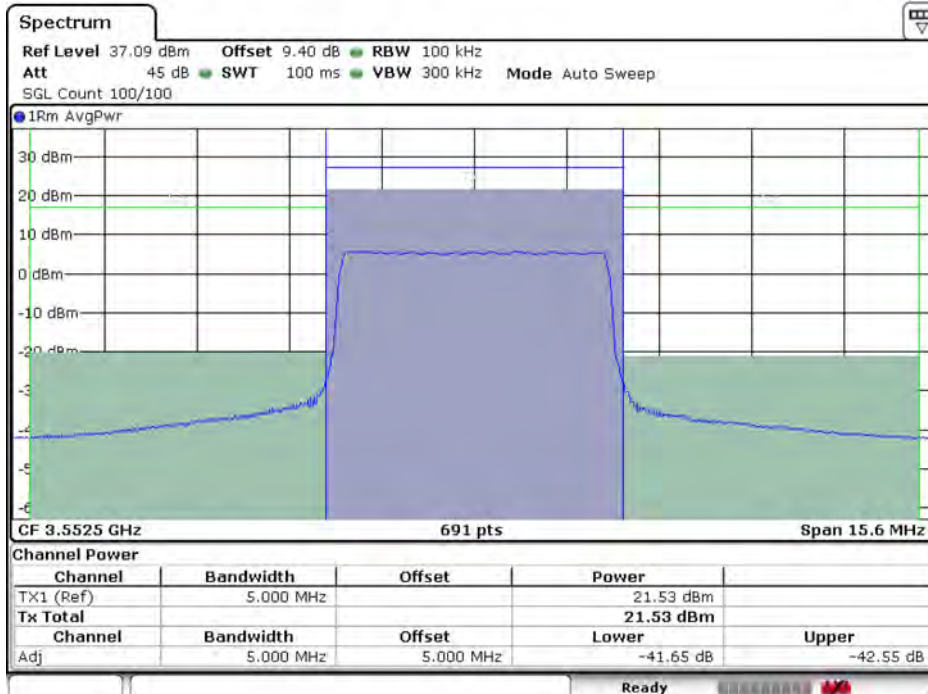


Band48-5MHz-QPSK-55265-1RB#24



Date: 28.MAY.2021 04:13:51

Band48-5MHz-QPSK-55265-25RB#0



Date: 28.MAY.2021 04:14:44

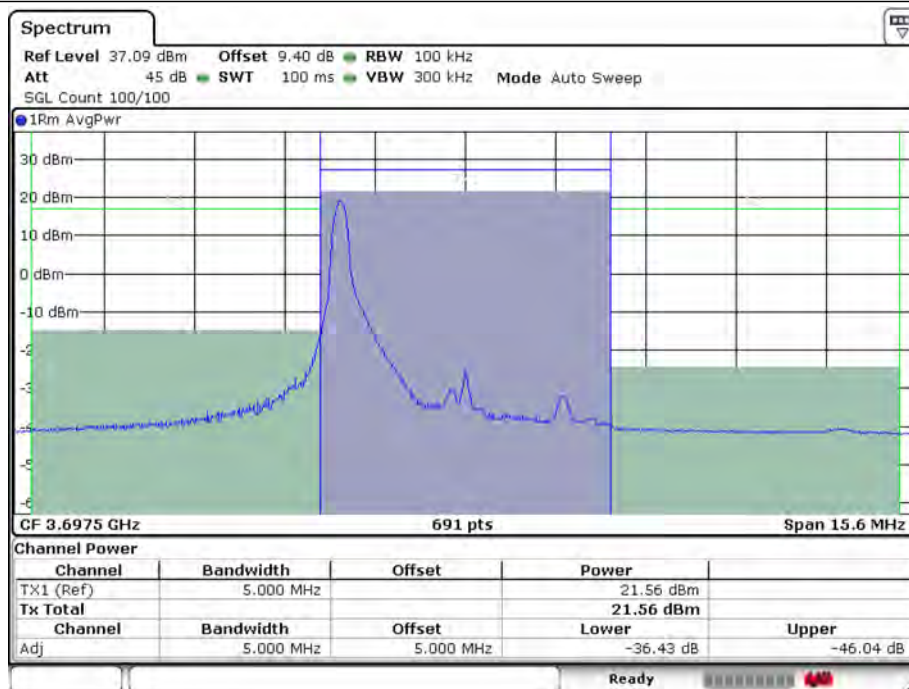


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

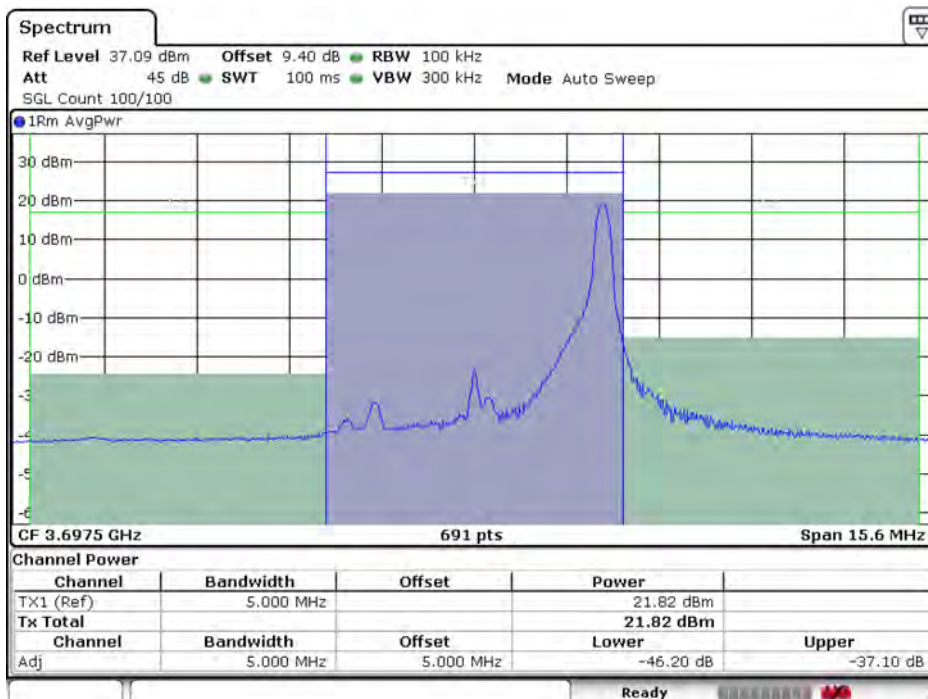
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band48-5MHz-QPSK-56715-1RB#0



Date: 28.MAY.2021 04:12:34

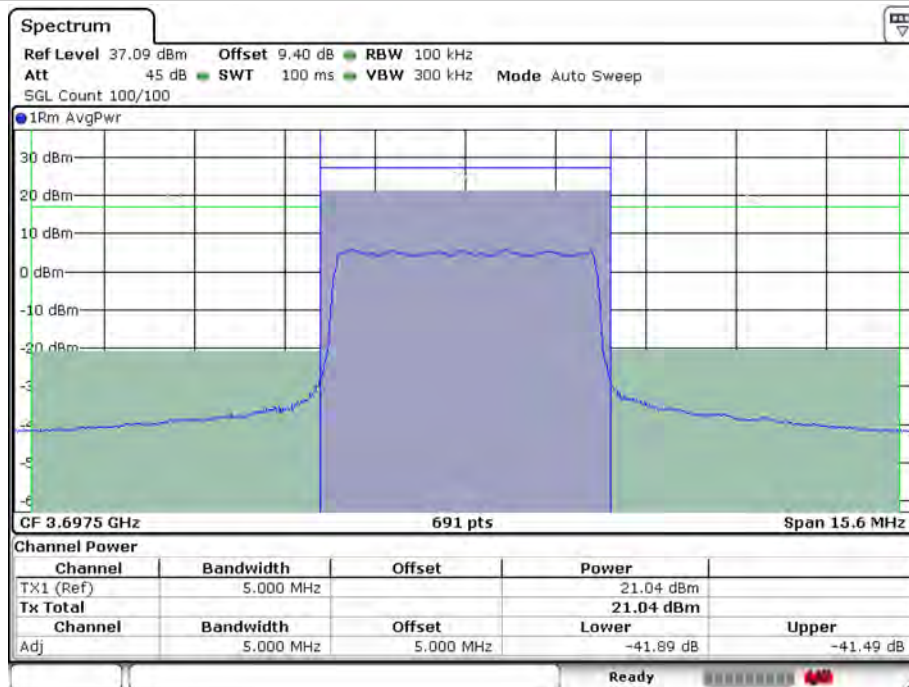
Band48-5MHz-QPSK-56715-1RB#24



Date: 28.MAY.2021 04:13:18

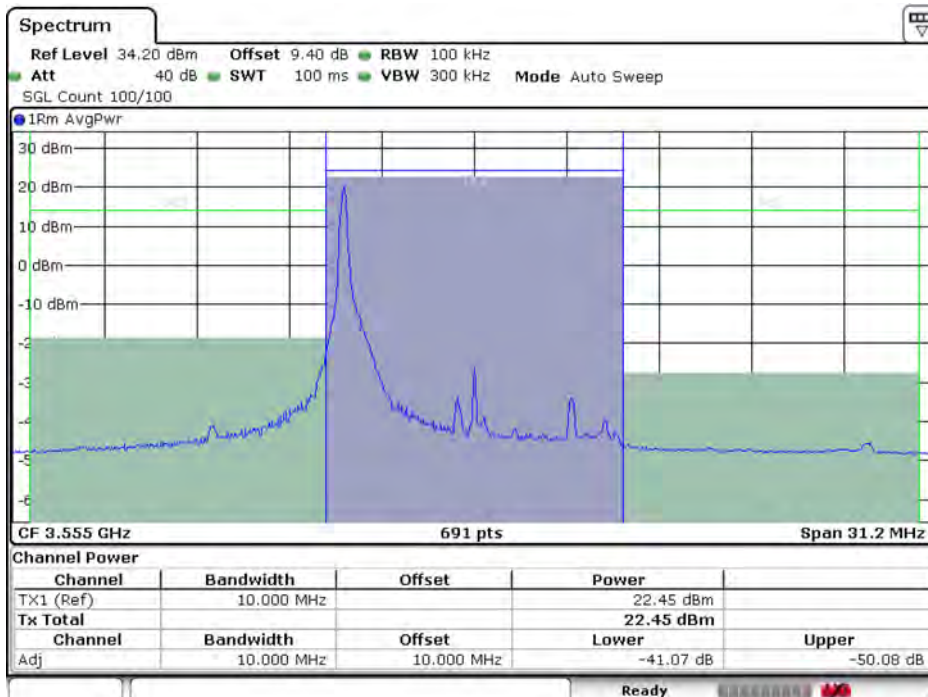


Band48-5MHz-QPSK-56715-25RB#0



Date: 28.MAY.2021 04:12:55

Band48-10MHz-QPSK-55290-1RB#0



Date: 28.MAY.2021 04:16:46

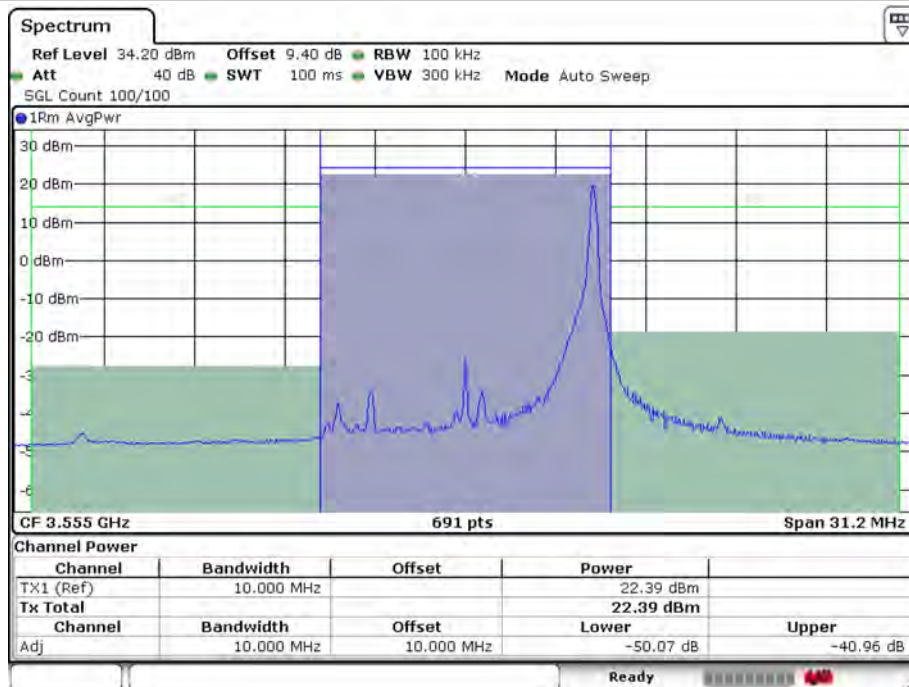


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

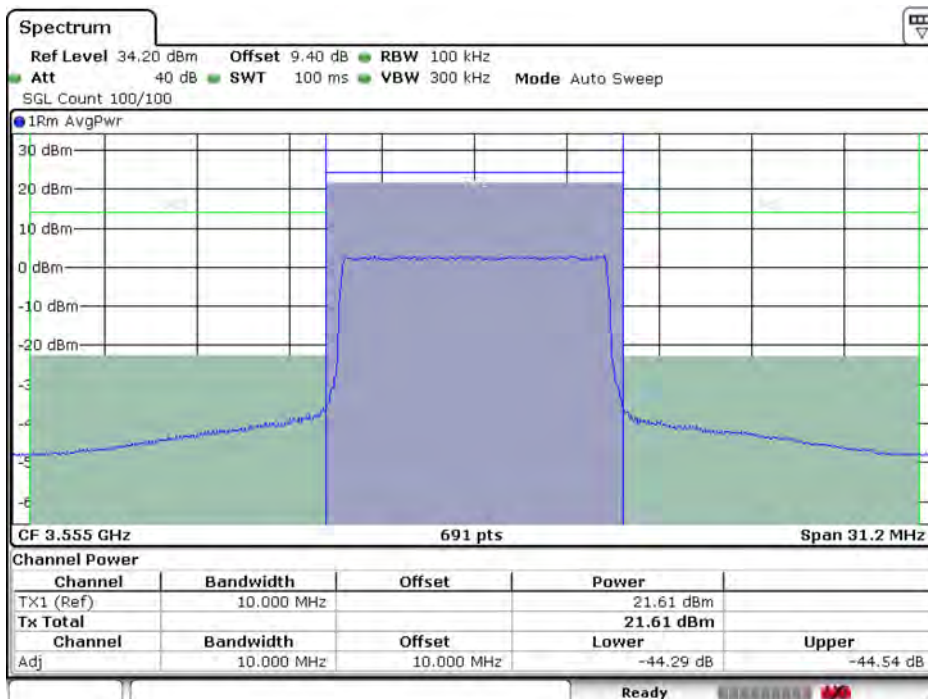
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band48-10MHz-QPSK-55290-1RB#49



Date: 28.MAY.2021 04:17:09

Band48-10MHz-QPSK-55290-50RB#0



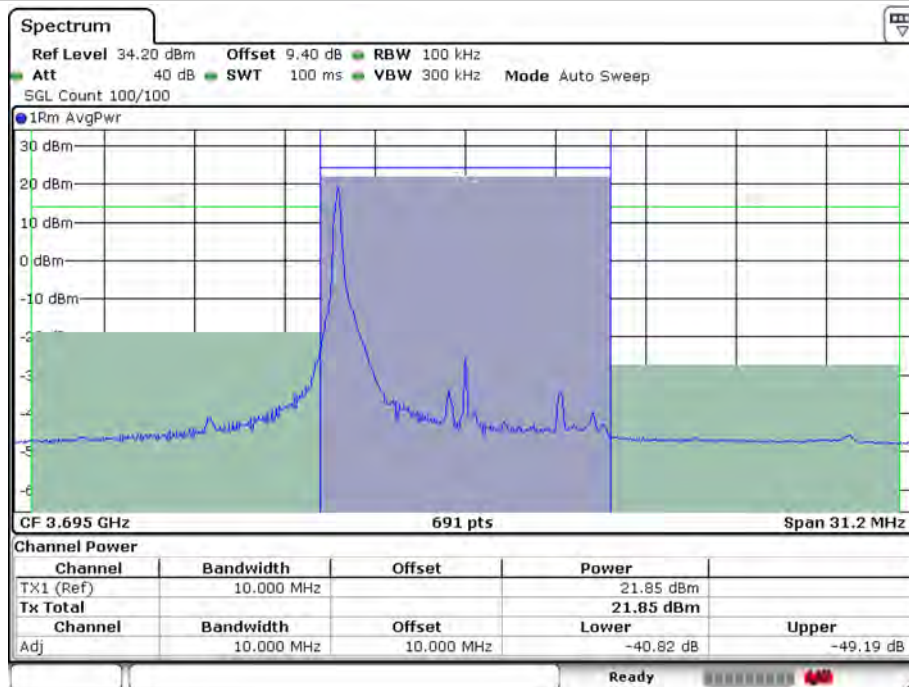
Date: 28.MAY.2021 04:15:36



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

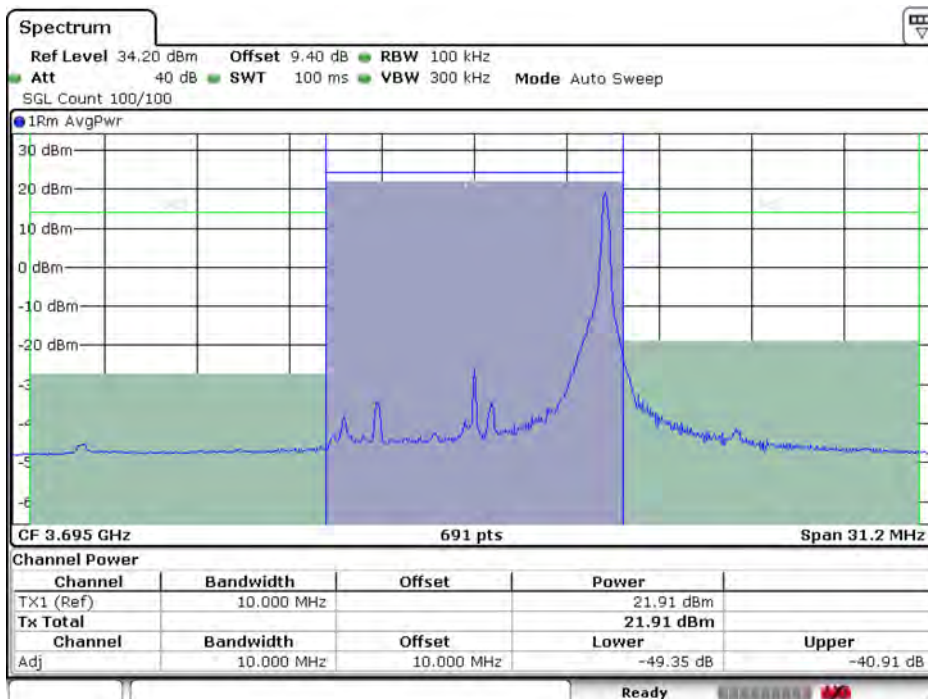
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band48-10MHz-QPSK-56690-1RB#0



Date: 28.MAY.2021 04:18:02

Band48-10MHz-QPSK-56690-1RB#49



Date: 28.MAY.2021 04:17:40

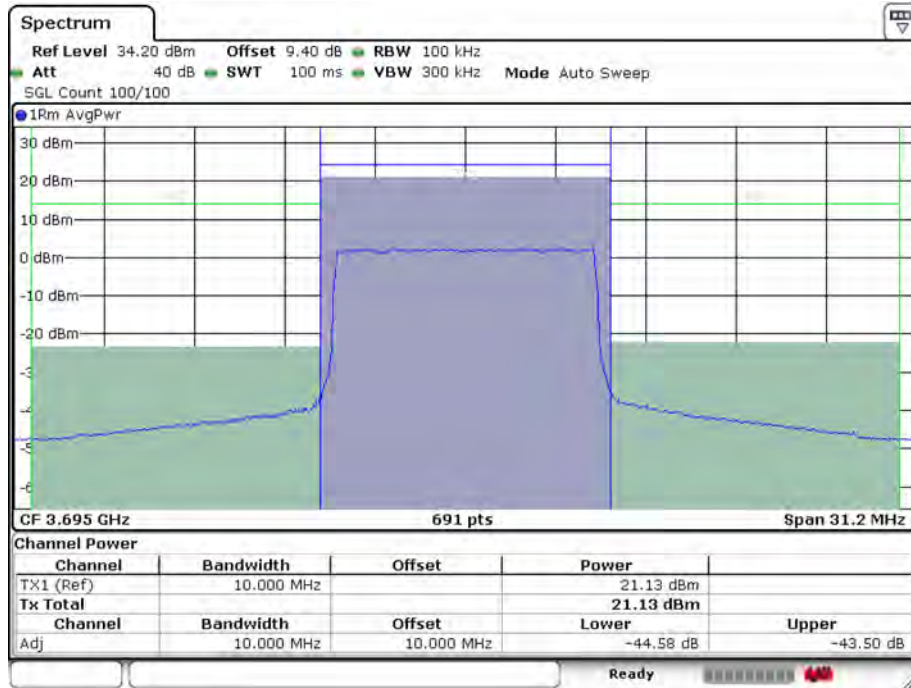


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

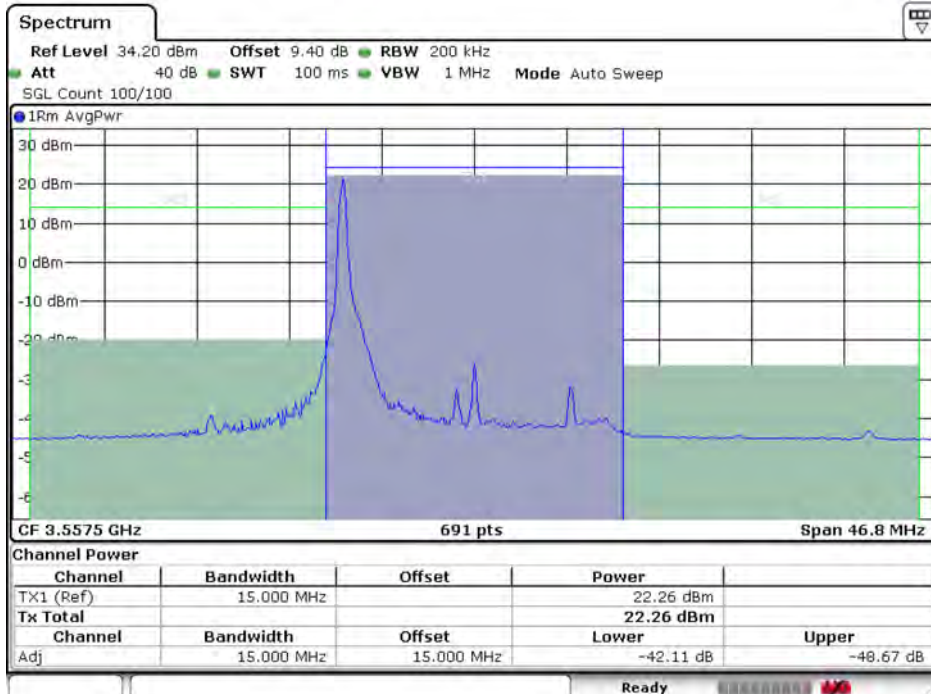
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band48-10MHz-QPSK-56690-50RB#0



Date: 28.MAY.2021 04:18:27

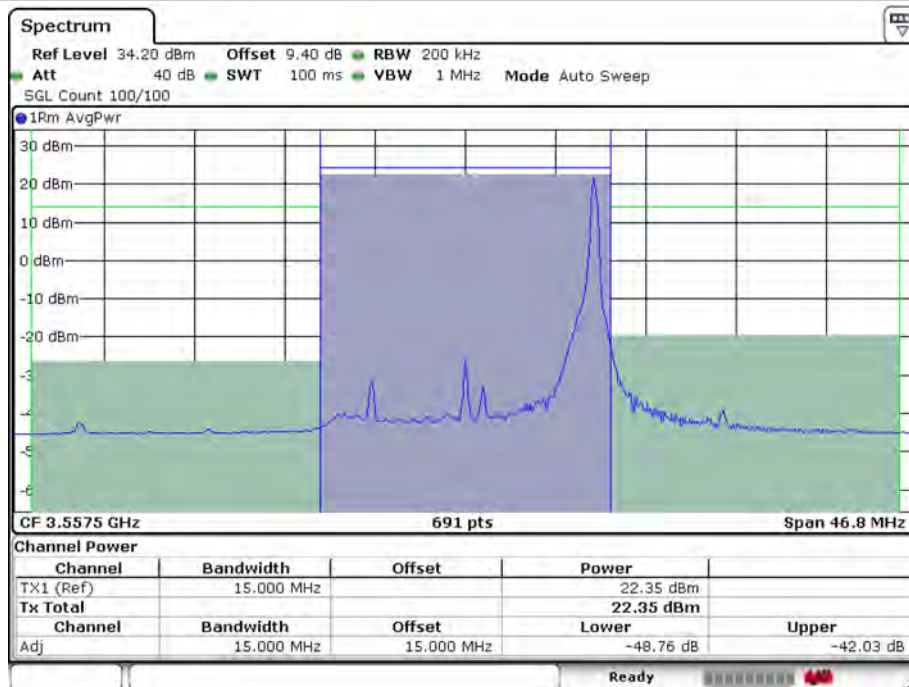
Band48-15MHz-QPSK-55315-1RB#0



Date: 28.MAY.2021 04:20:39

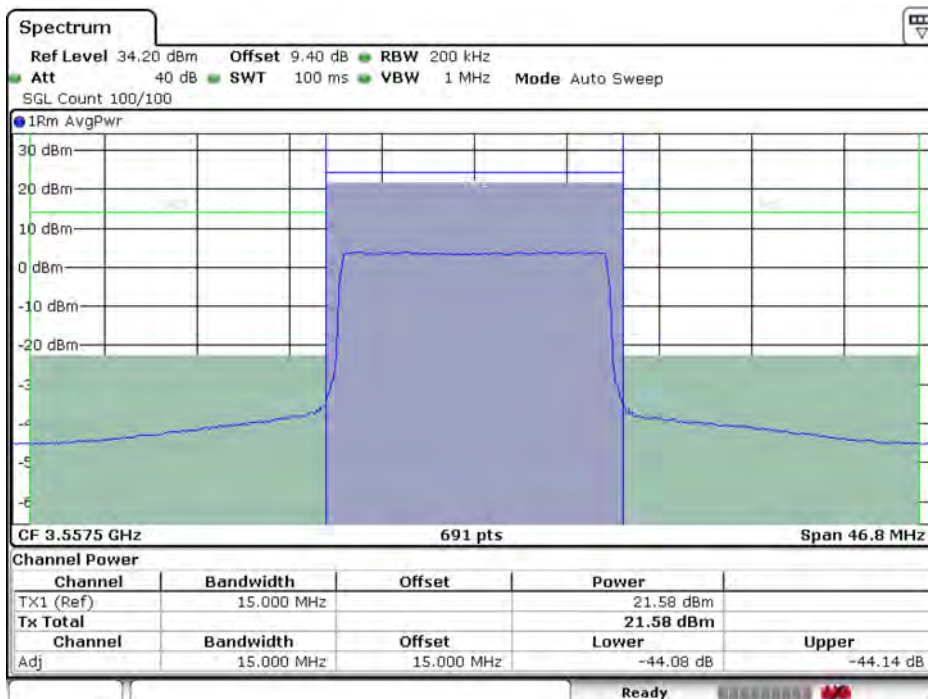


Band48-15MHz-QPSK-55315-1RB#74



Date: 28.MAY.2021 04:21:16

Band48-15MHz-QPSK-55315-75RB#0



Date: 28.MAY.2021 04:19:47

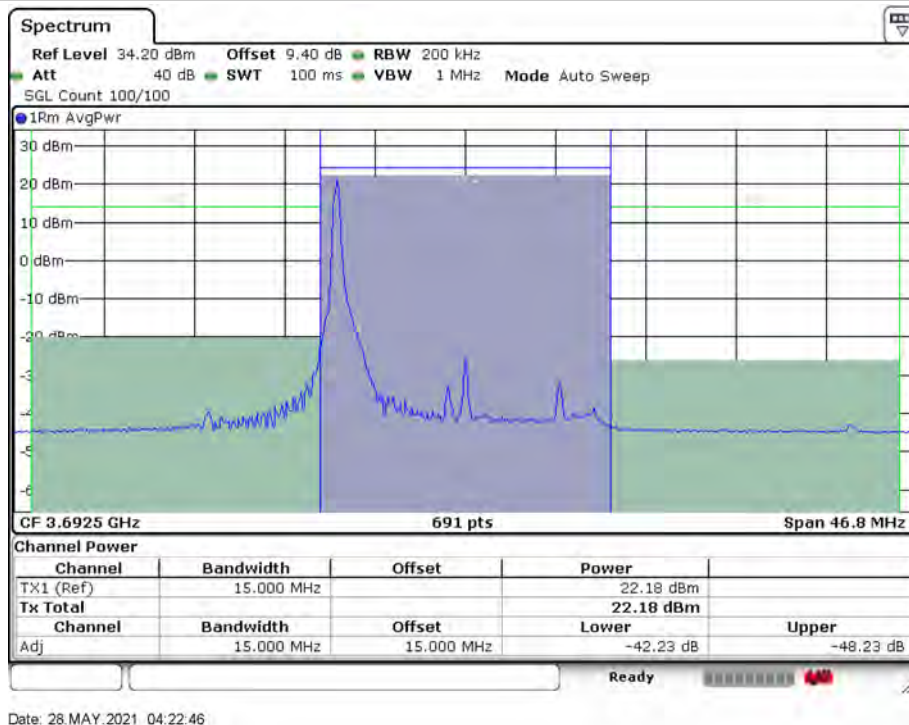


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

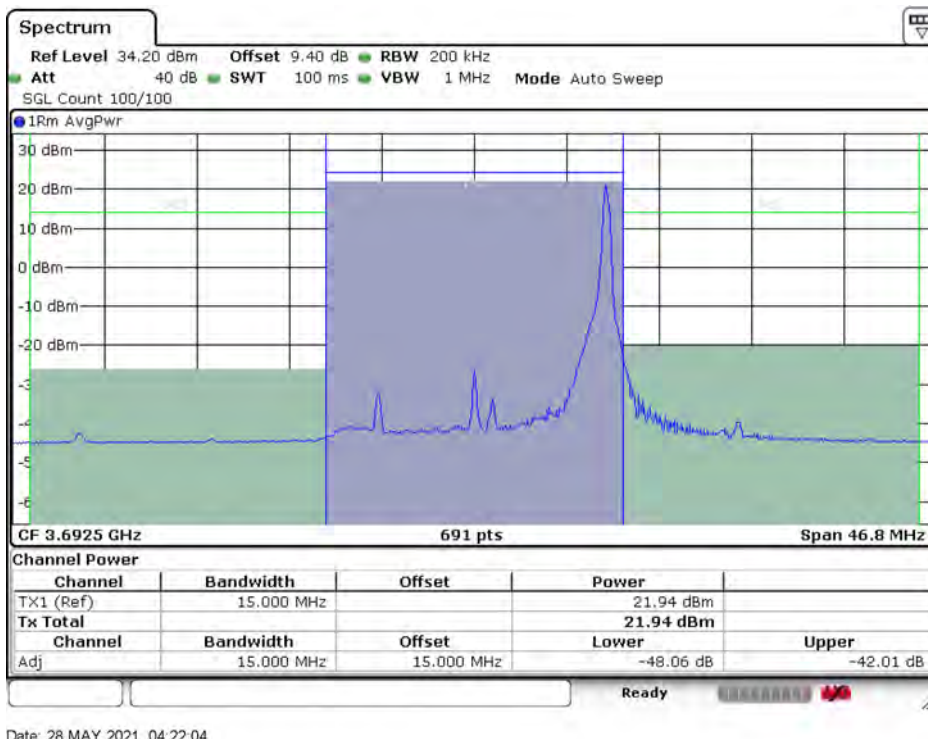
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



Band48-15MHz-QPSK-56665-1RB#0



Band48-15MHz-QPSK-56665-1RB#74

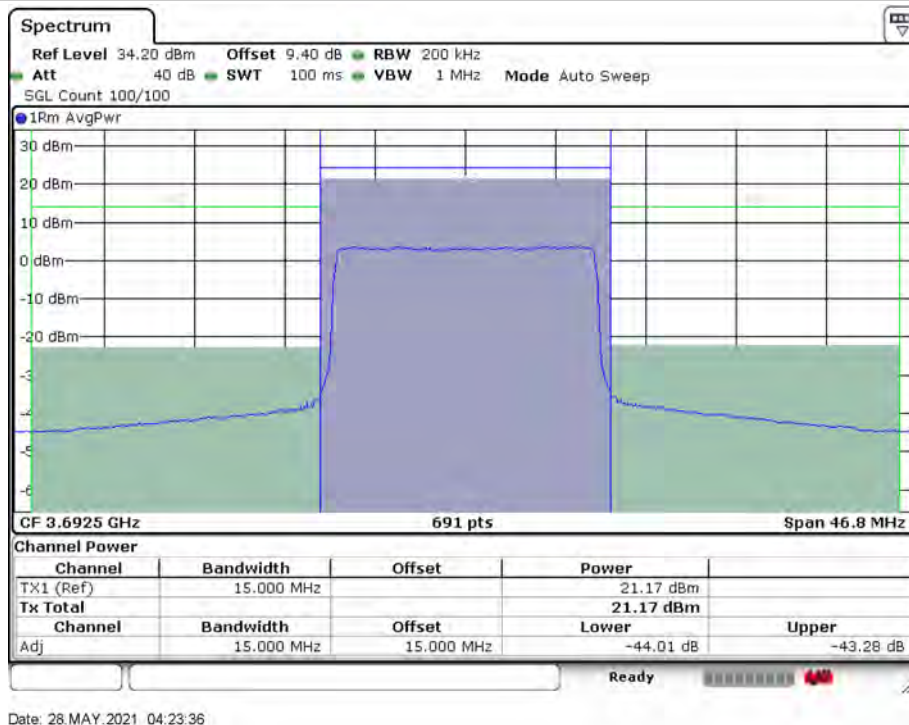


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

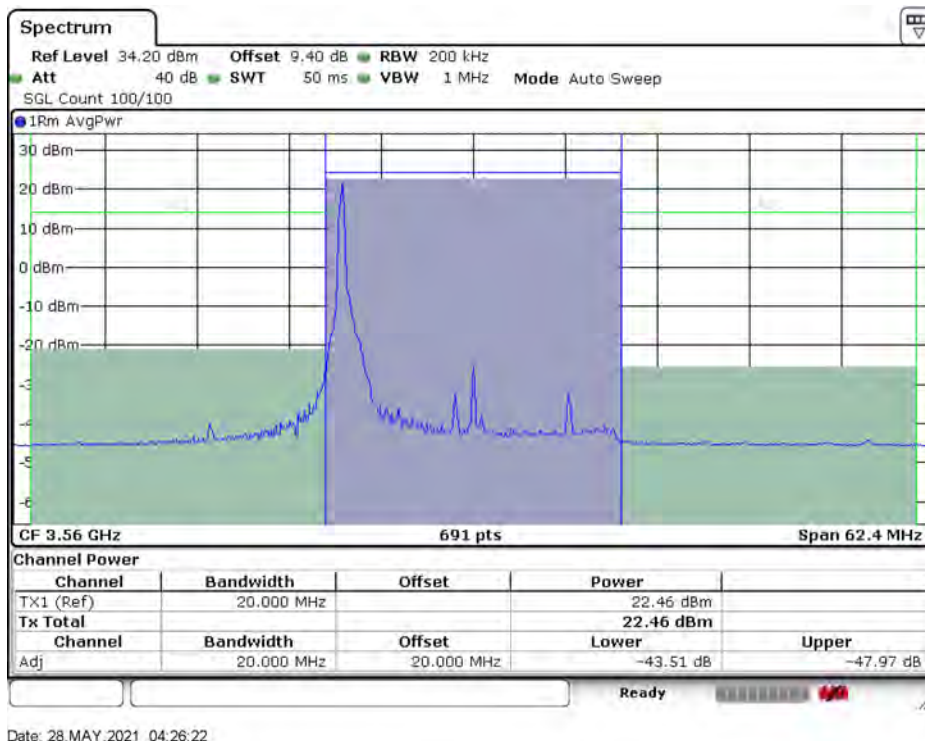
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

Band48-15MHz-QPSK-56665-75RB#0



Band48-20MHz-QPSK-55340-1RB#0

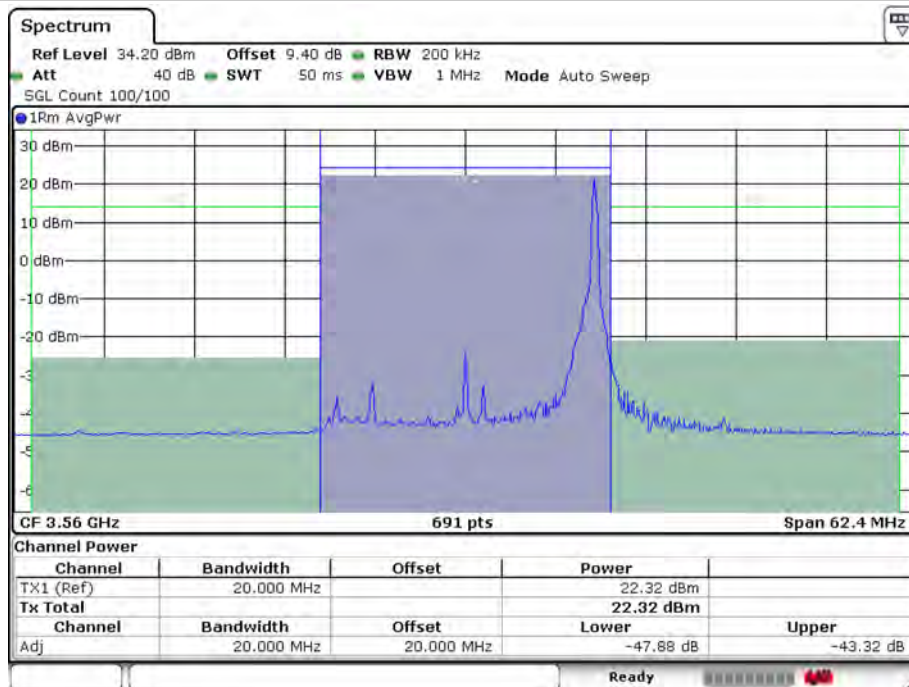


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

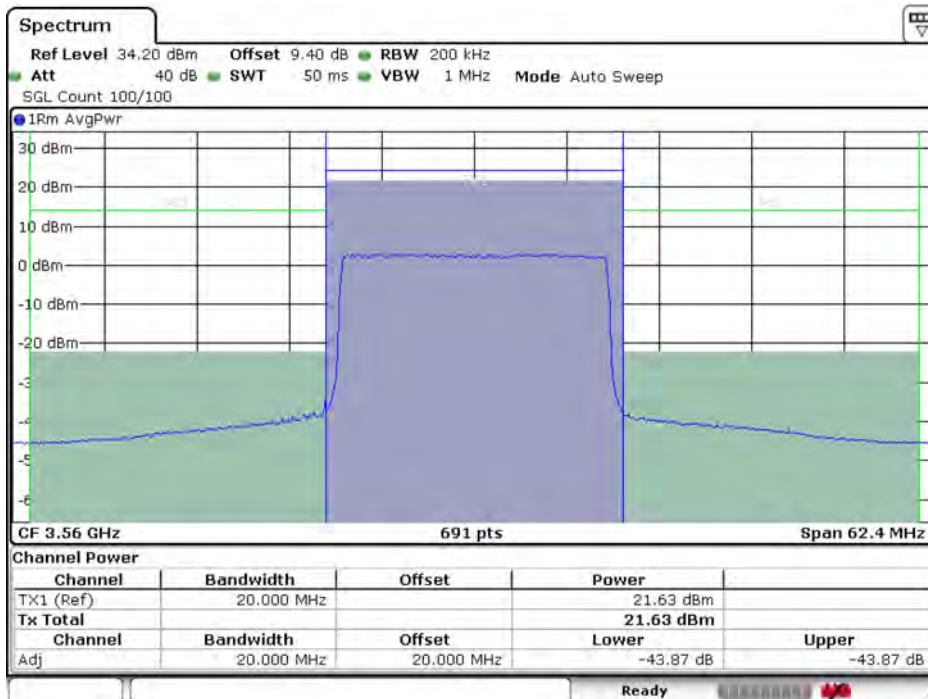
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band48-20MHz-QPSK-55340-1RB#99



Date: 28.MAY.2021 04:27:26

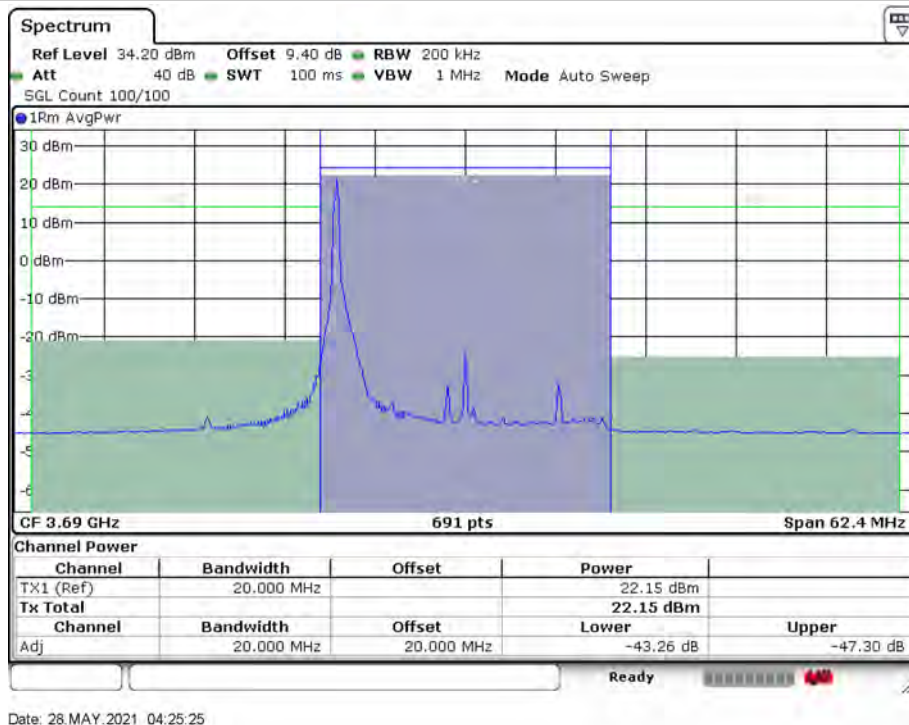
Band48-20MHz-QPSK-55340-100RB#0



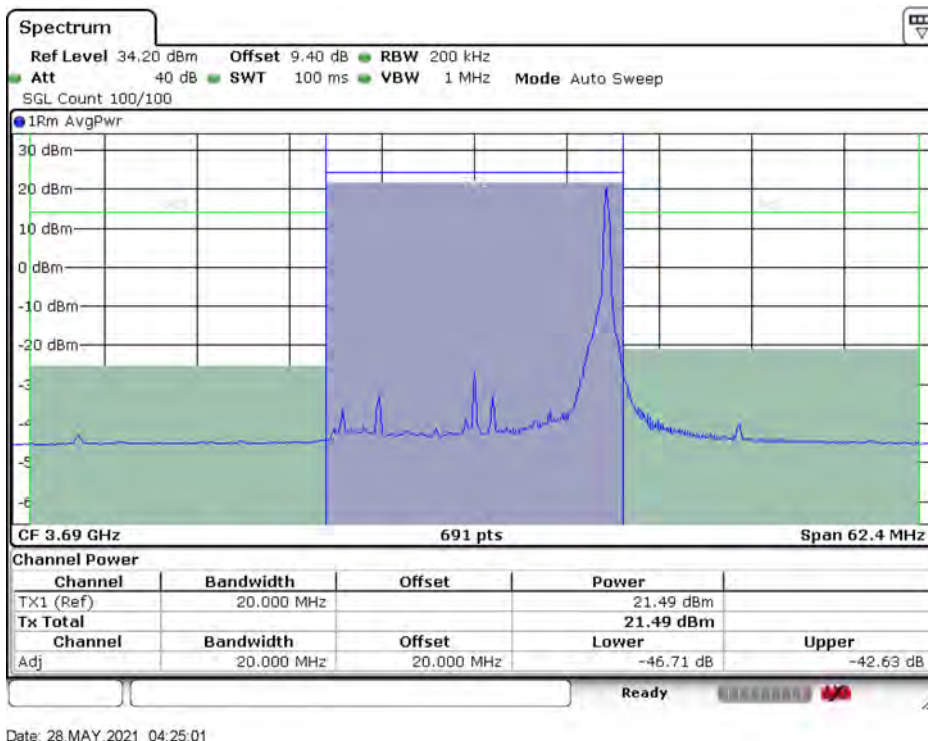
Date: 28.MAY.2021 04:27:56



Band48-20MHz- QPSK -56640-1RB#0

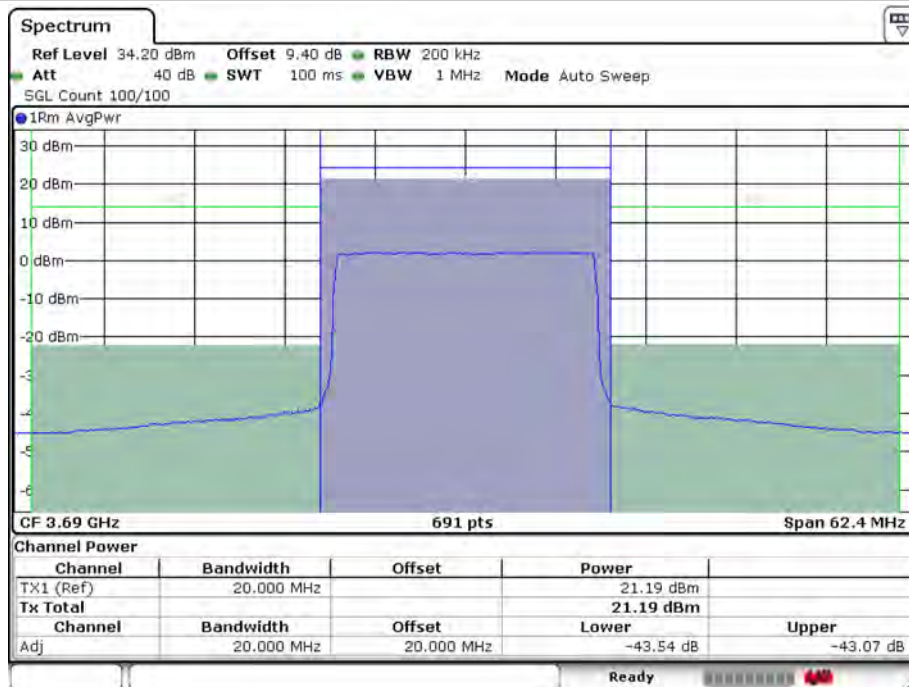


Band48-20MHz- QPSK -56640-1RB#99





Band48-20MHz- QPSK -56640-100RB#0



Date: 28.MAY.2021 04:24:34



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

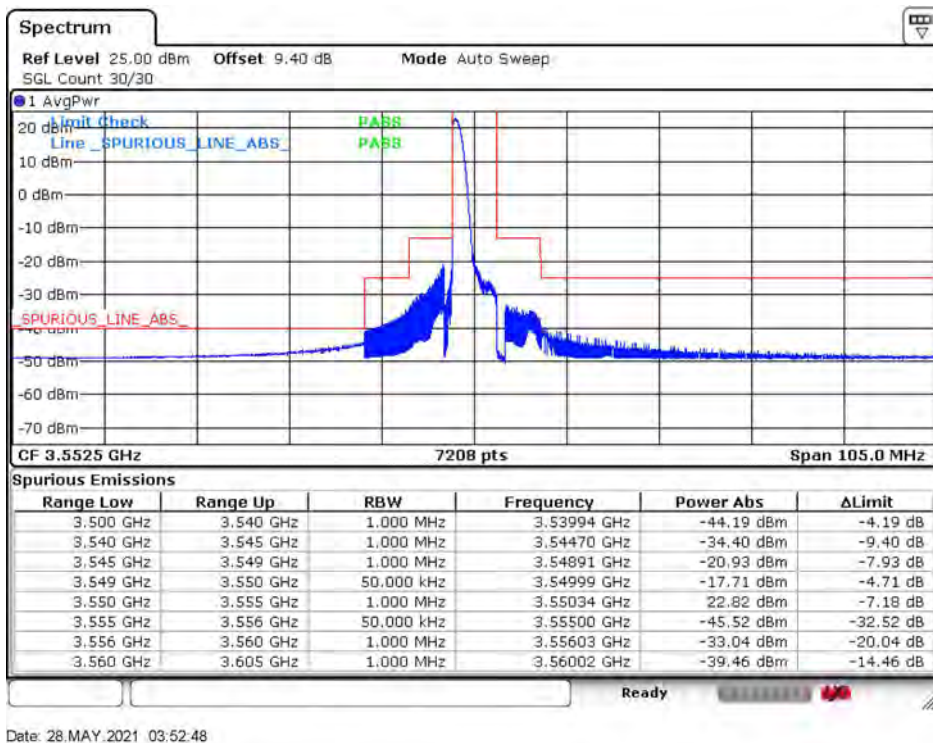
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

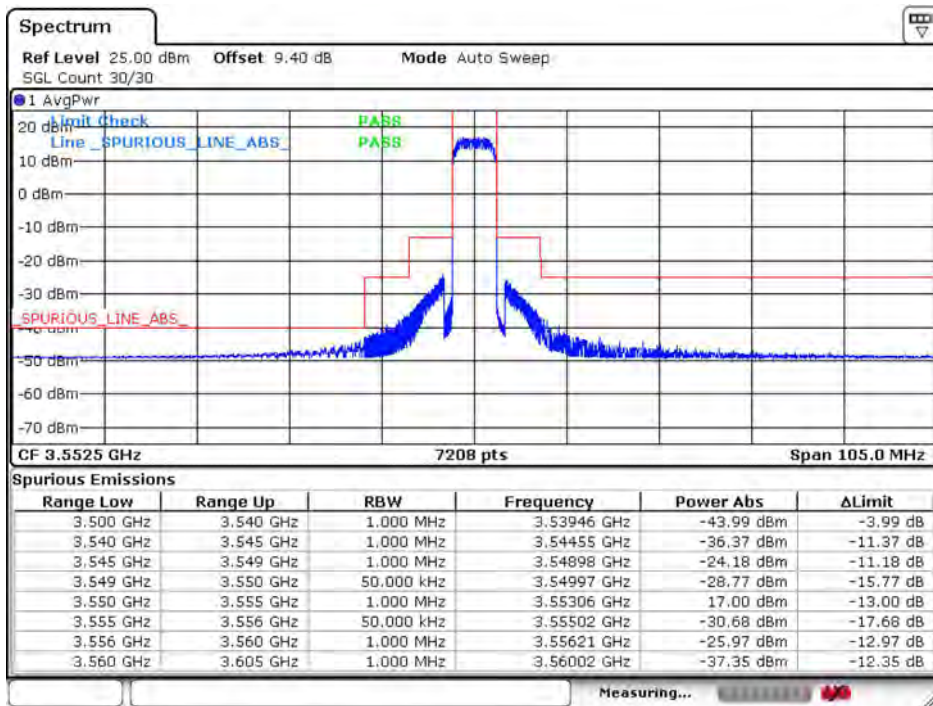
6. Band Edge Compliance

6.1. Test Plots

Band48-5MHz-QPSK-55265-1RB#0



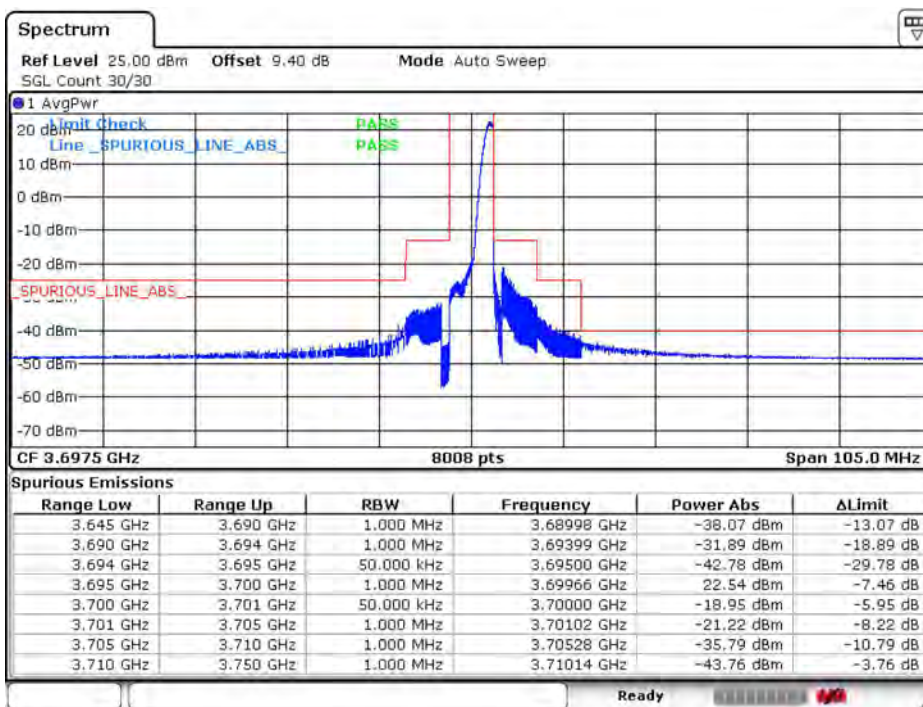
Band48-5MHz-QPSK-55265-25RB#0



Date: 28.MAY.2021 03:51:22



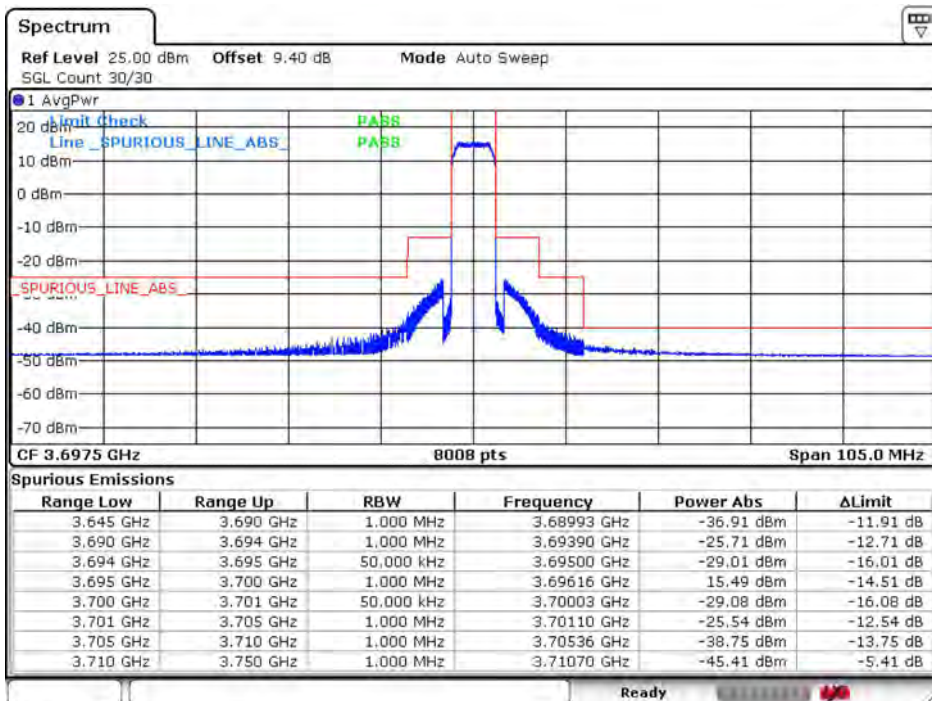
Band48-5MHz-QPSK-56715-1RB#24



Date: 28.MAY.2021 04:00:26



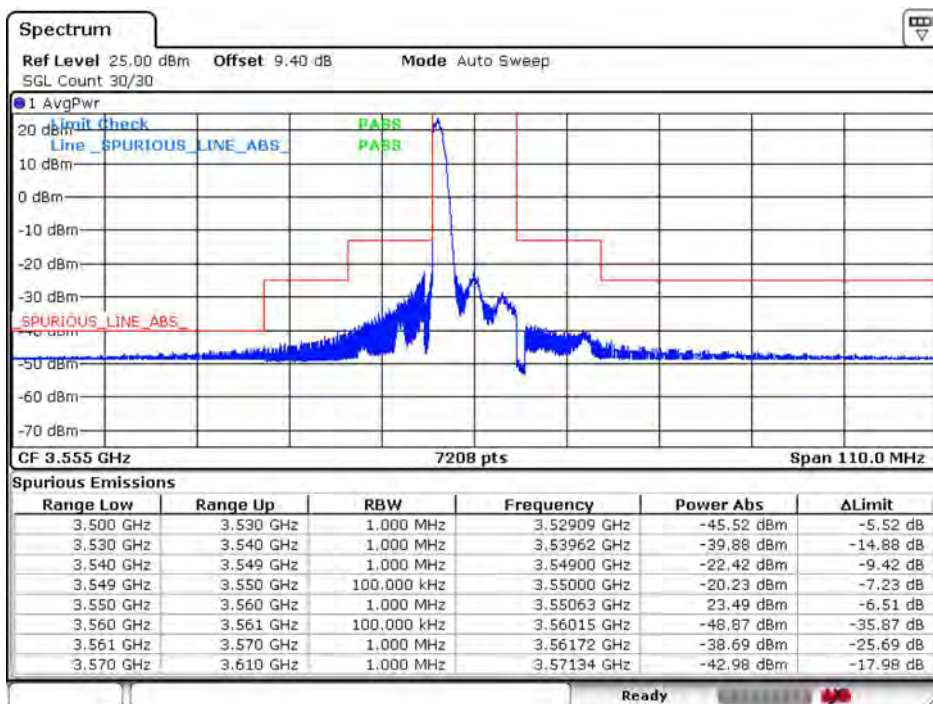
Band48-5MHz-QPSK-56715-25RB#0



Date: 28.MAY.2021 04:06:46



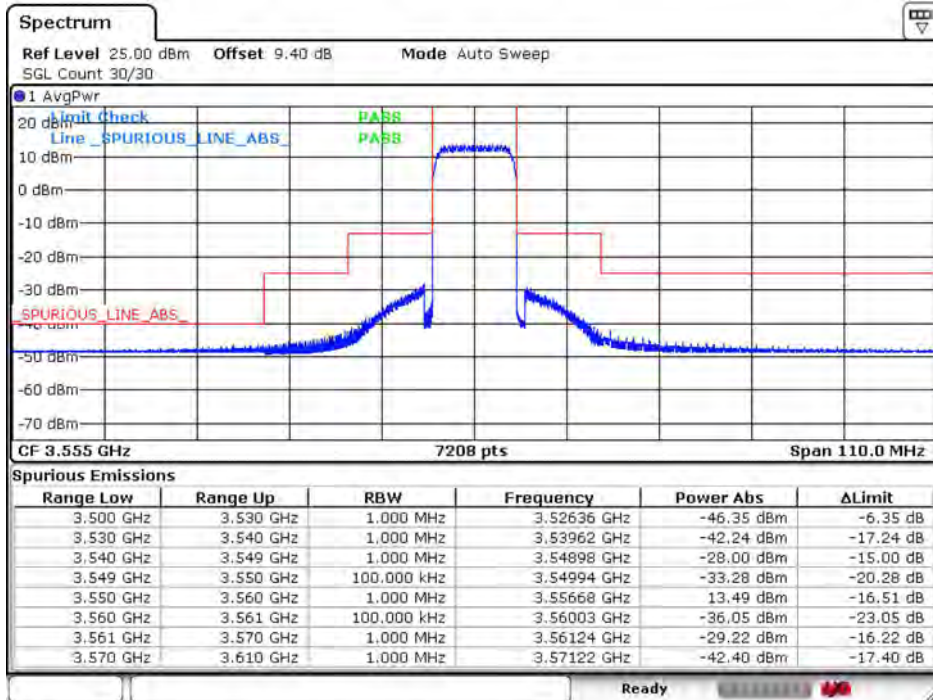
Band48-10MHz-QPSK-55290-1RB#0



Date: 28.MAY.2021 03:31:57



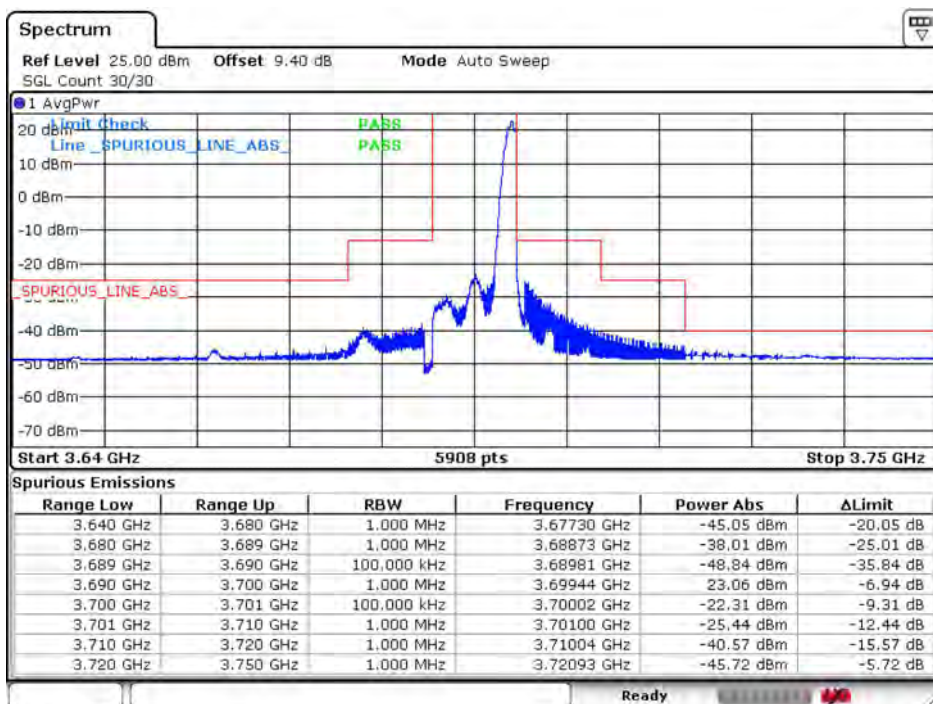
Band48-10MHz-QPSK-55290-50RB#0



Date: 28.MAY.2021 03:28:38



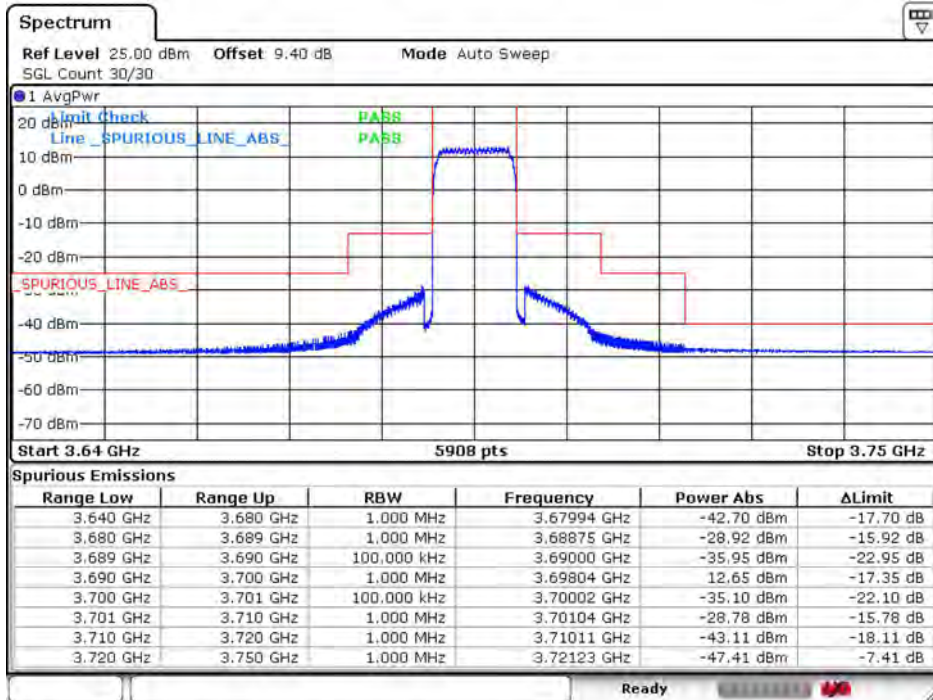
Band48-10MHz-QPSK-56690-1RB#49



Date: 28.MAY.2021 03:40:16



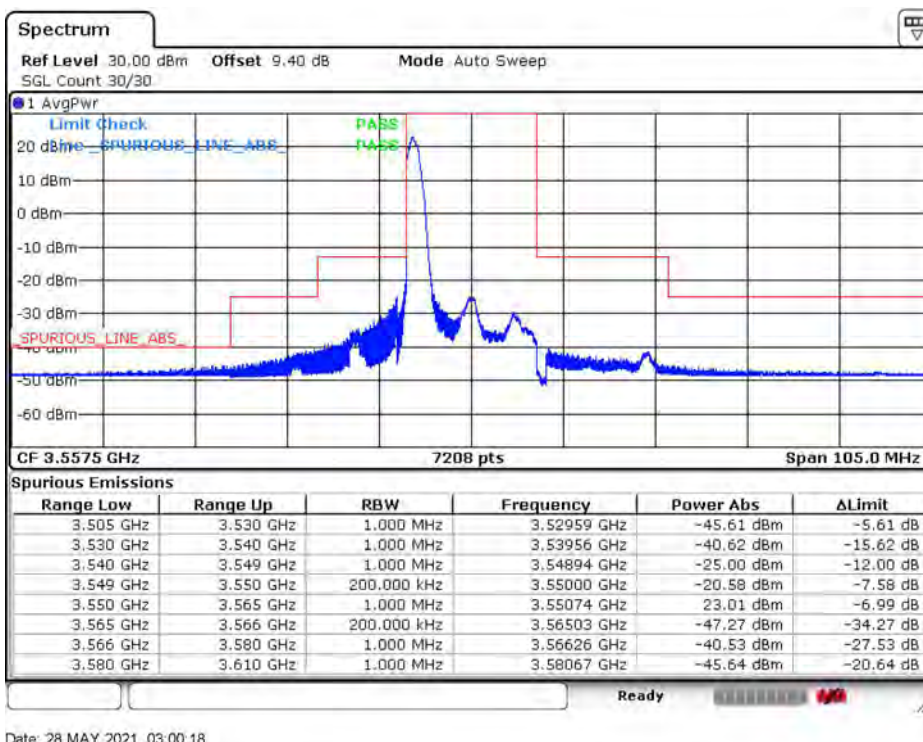
Band48-10MHz-QPSK-56690-50RB#0



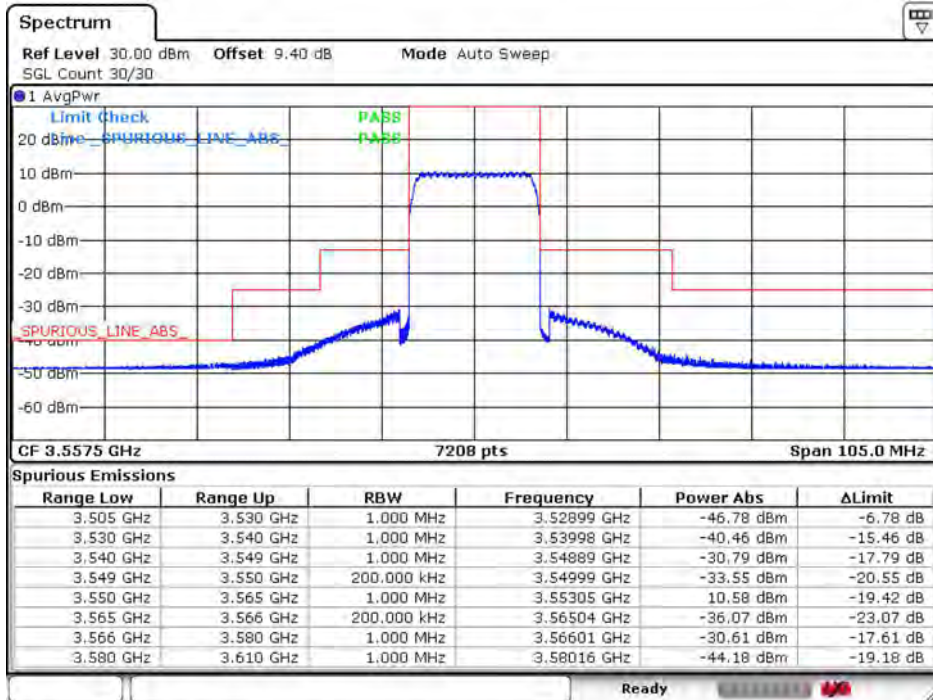
Date: 28.MAY.2021 03:44:55



Band48-15MHz-QPSK-55315-1RB#0



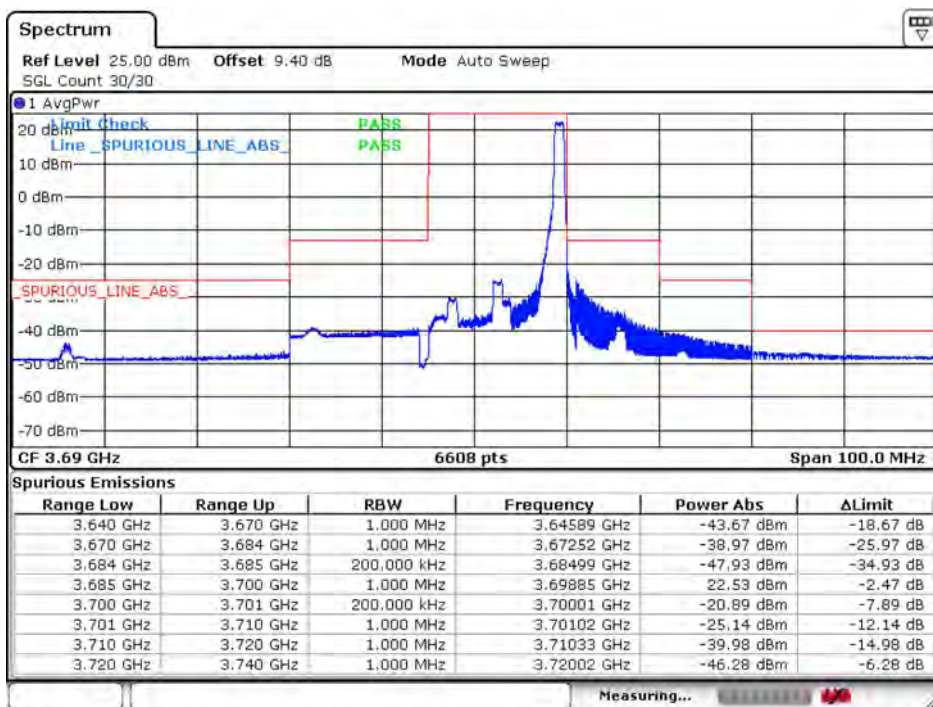
Band48-15MHz-QPSK-55315-75RB#0



Date: 28.MAY.2021 02:57:00



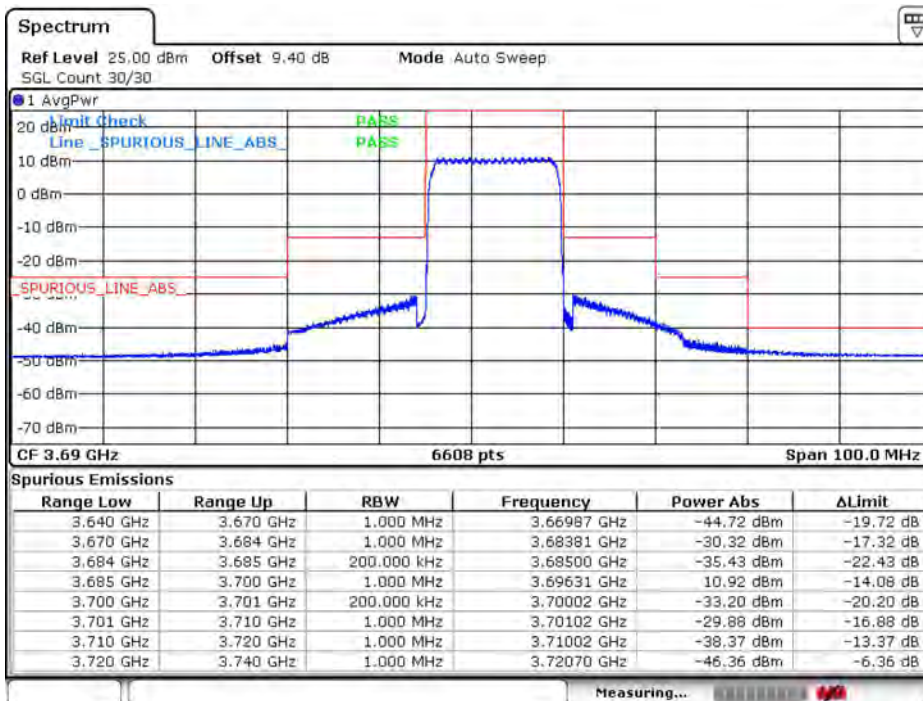
Band48-15MHz-QPSK-56665-1RB#74



Date: 28.MAY.2021 03:09:19



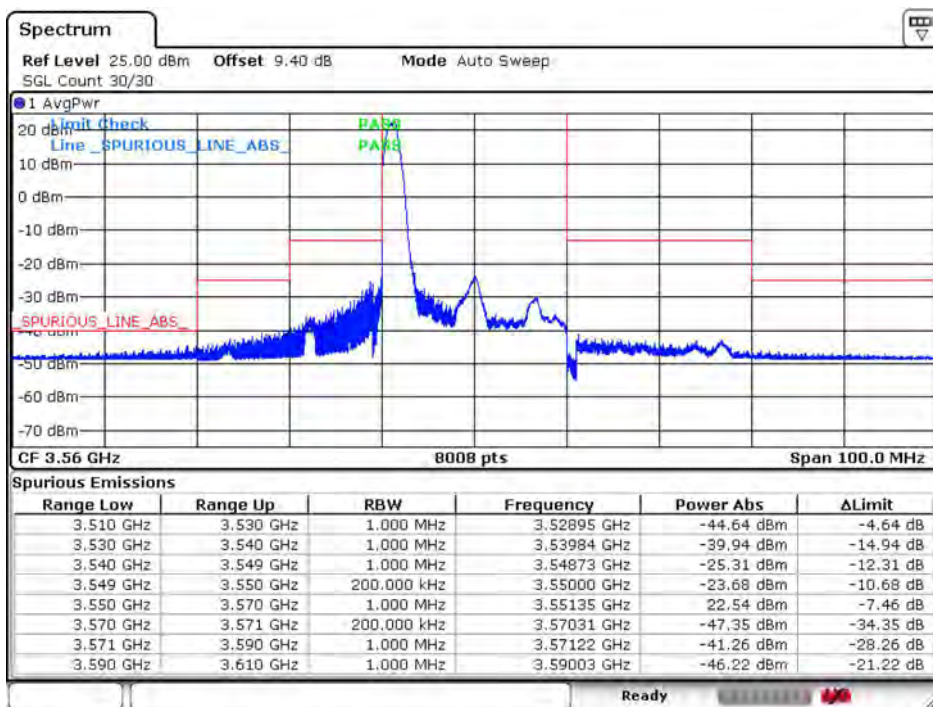
Band48-15MHz-QPSK-56665-75RB#0



Date: 28.MAY.2021 03:13:36



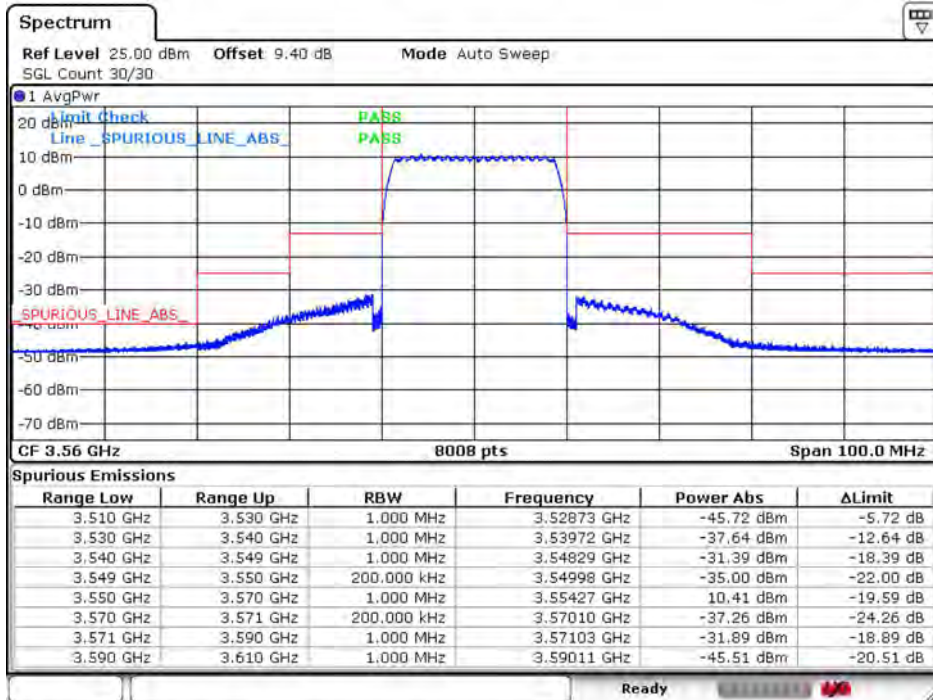
Band48-20MHz-QPSK-55340-1RB#0



Date: 28.MAY.2021 03:22:19



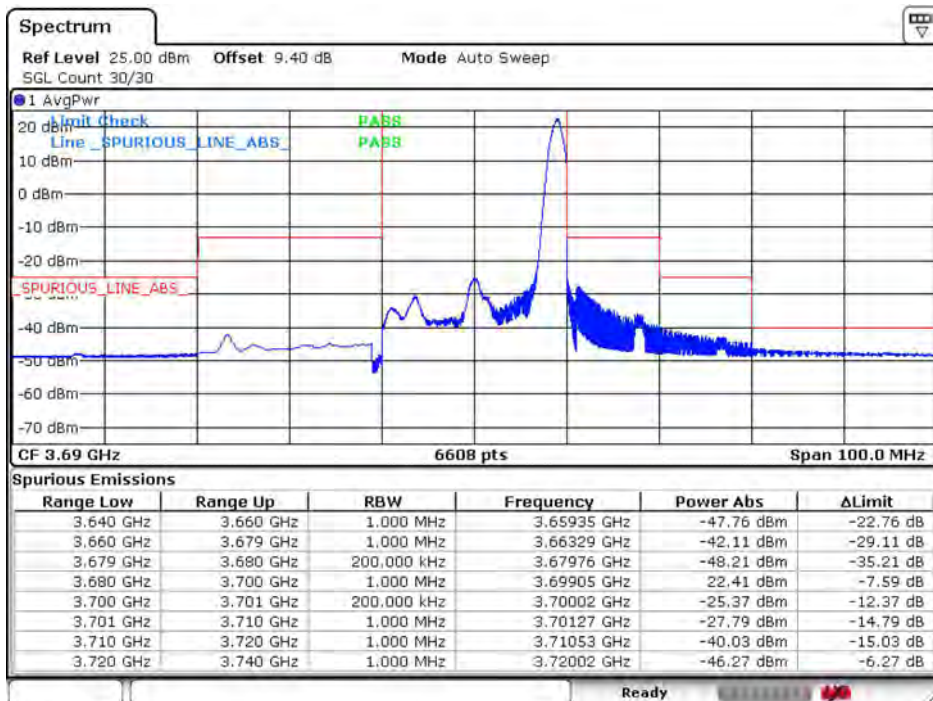
Band48-20MHz-QPSK-55340-100RB#0



Date: 28.MAY.2021 03:26:09



Band48-20MHz-QPSK-56640-1RB#99



Date: 28.MAY.2021 03:18:03



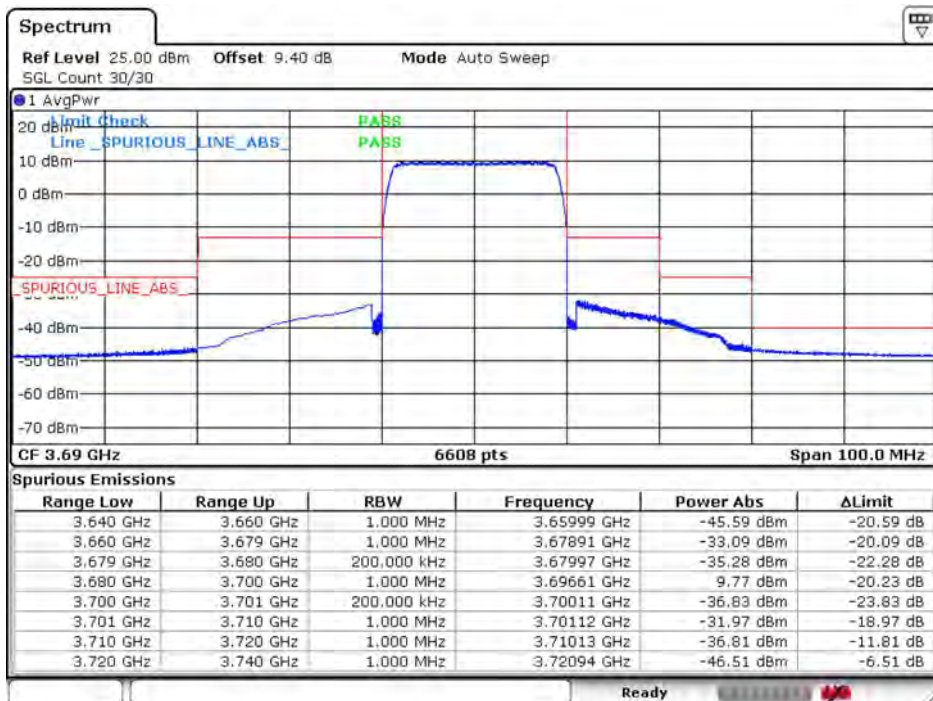
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

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

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

Band48-20MHz-QPSK-56640-100RB#0



Date: 28.MAY.2021 03:15:04



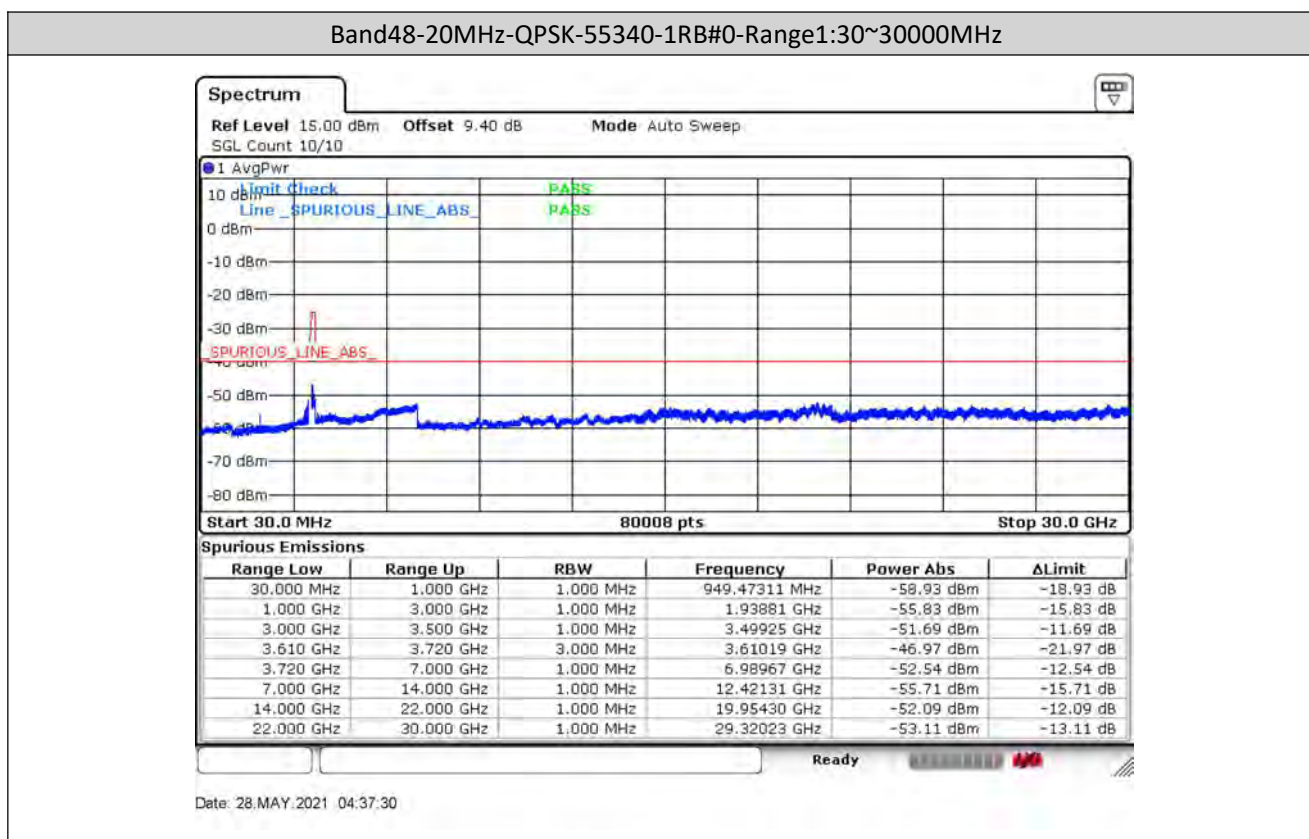


7. Spurious Emission at Antenna Terminal

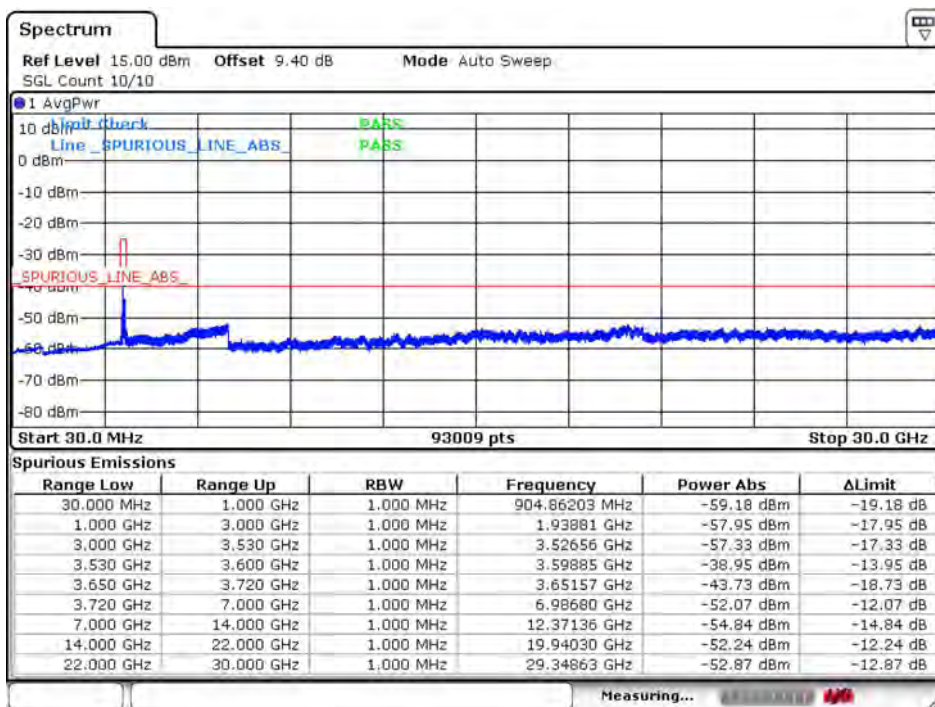
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

7.1. Test Plots



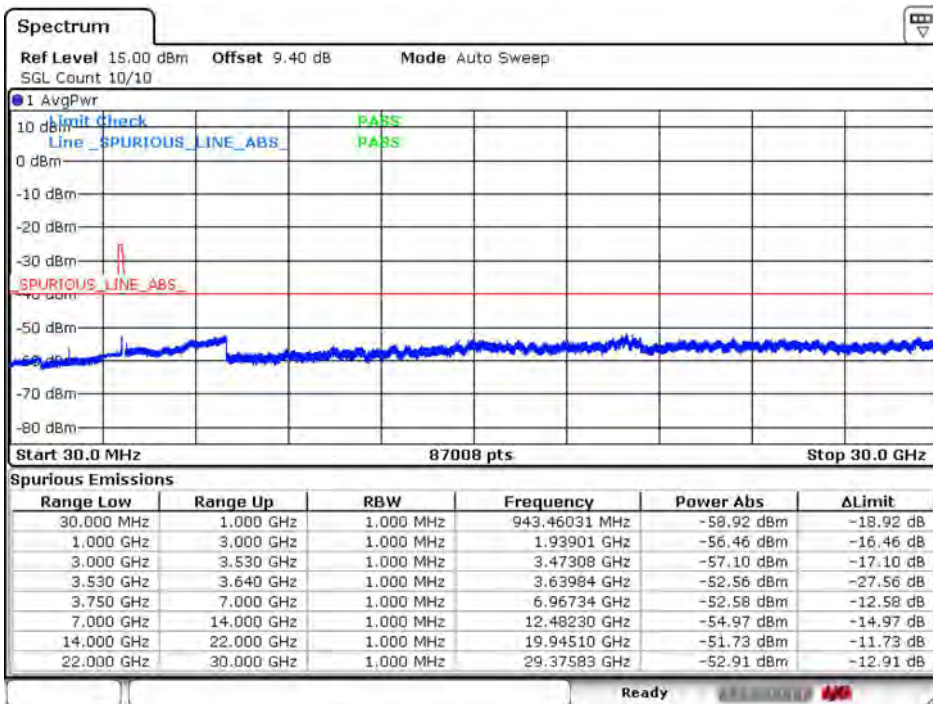
Band48-20MHz-QPSK-55990-1RB#0-Range1:30~30000MHz



Date: 28.MAY.2021 04:35:24



Band48-20MHz-QPSK-56640-1RB#0-Range1:30~30000MHz



Date: 28.MAY.2021 04:40:39





8. Field Strength of Spurious Radiation

8.1. Test Band = Band 48

8.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1084.0042	21.73	-48.49	-25.00	23.49	Horizontal
2	2299.6650	22.20	-45.44	-25.00	20.44	Horizontal
3	3014.9007	21.77	-42.72	-25.00	17.72	Horizontal
4	5608.2304	20.02	-36.39	-25.00	11.39	Horizontal
5	6936.9969	20.04	-33.76	-25.00	8.76	Horizontal
6	17410.920	46.09	-48.03	-25.00	23.03	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, Testing Center, EEC Laboratory

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



8.2. Test Band = Band 48

8.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1084.3042	21.57	-48.66	-25.00	23.66	Vertical
2	2022.7511	21.79	-46.91	-25.00	21.91	Vertical
3	4855.1928	19.64	-39.53	-25.00	14.53	Vertical
4	6761.1881	19.64	-34.02	-25.00	9.02	Vertical
5	11226.9613	46.13	-49.84	-25.00	24.84	Vertical
6	17335.566	45.82	-48.45	-25.00	23.45	Vertical



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

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

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

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



8.3. Test Band = Band 48

8.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1168.6084	21.49	-48.77	-25.00	23.77	Horizontal
2	3203.9102	21.77	-42.16	-25.00	17.16	Horizontal
3	5158.8079	19.88	-38.27	-25.00	13.27	Horizontal
4	6855.6928	20.45	-33.43	-25.00	8.43	Horizontal
5	12261.563	44.47	-49.65	-25.00	24.65	Horizontal
6	17336.1168	46.18	-48.08	-25.00	23.08	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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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



8.4. Test Band = Band 48

8.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1108.9054	21.63	-48.75	-25.00	23.75	Vertical
2	2511.7756	22.42	-44.23	-25.00	19.23	Vertical
3	5389.8195	19.21	-38.17	-25.00	13.17	Vertical
4	6850.5925	20.31	-33.60	-25.00	8.60	Vertical
5	9513.6257	46.18	-52.20	-25.00	27.20	Vertical
6	13374.268	44.41	-48.43	-25.00	23.43	Vertical



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

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



8.5. Test Band = Band 48

8.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1148.5074	22.09	-48.18	-25.00	23.18	Horizontal
2	2318.5659	22.13	-45.36	-25.00	20.36	Horizontal
3	4452.2726	20.30	-39.92	-25.00	14.92	Horizontal
4	6842.4921	19.72	-34.07	-25.00	9.07	Horizontal
5	8845.3423	47.38	-52.11	-25.00	27.11	Horizontal
6	17190.359	46.18	-48.91	-25.00	23.91	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, Testing Center, EEC Laboratory

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



8.6. Test Band = Band 48

8.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1147.9074	22.12	-48.19	-25.00	23.19	Vertical
2	2876.8938	21.72	-43.61	-25.00	18.61	Vertical
3	4535.3768	19.91	-40.61	-25.00	15.61	Vertical
4	6898.2949	19.52	-34.28	-25.00	9.28	Vertical
5	9051.0526	46.48	-52.18	-25.00	27.18	Vertical
6	16336.166	45.49	-49.11	-25.00	24.11	Vertical

Remark:

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



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

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



9. Frequency Stability

9.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band48	20MHz	QPSK	55340	100RB#0	VL	NT	0.52	0.00015	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	VN	NT	-5.89	-0.00166	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	VH	NT	-12.59	-0.00354	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	VL	NT	-11.60	-0.00320	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	VN	NT	11.26	0.00311	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	VH	NT	4.34	0.00120	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	VL	NT	5.83	0.00158	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	VN	NT	1.34	0.00036	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	VH	NT	1.62	0.00044	±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, 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



9.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band48	20MHz	QPSK	55340	100RB#0	NV	-30	1.20	0.00034	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	-20	3.42	0.00096	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	-10	-11.24	-0.00316	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	0	-7.76	-0.00218	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	10	-10.76	-0.00302	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	20	13.13	0.00369	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	30	1.73	0.00049	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	40	-3.88	-0.00109	±2.5	PASS
Band48	20MHz	QPSK	55340	100RB#0	NV	50	12.80	0.00360	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-30	10.99	0.00309	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-20	9.58	0.00269	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-10	0.08	0.00002	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	0	2.49	0.00070	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	10	10.35	0.00291	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	20	-7.83	-0.00220	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	30	-1.34	-0.00038	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	40	12.72	0.00357	±2.5	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	50	12.17	0.00342	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	-30	-0.92	-0.00026	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	-20	-13.48	-0.00379	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	-10	4.17	0.00117	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	0	-3.71	-0.00104	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	10	8.07	0.00227	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	20	9.75	0.00274	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	30	-12.11	-0.00340	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	40	9.73	0.00273	±2.5	PASS
Band48	20MHz	QPSK	56640	100RB#0	NV	50	-5.44	-0.00153	±2.5	PASS

The End



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)