



Appendix B

E-UTRA Band 5



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

CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER.....	4
1.1	TEST RESULT	4
2	PEAK-TO-AVERAGE RATIO (CCDF)	11
2.1	TEST RESULT	11
2.2	TEST PLOTS	11
3	MODULATION CHARACTERISTICS	16
3.1	TEST MODE = LTE /TM1 10MHz	16
3.1.1	TEST CHANNEL = MCH	16
3.2	TEST MODE = LTE /TM2 10MHz	17
3.2.1	TEST CHANNEL = MCH	17
3.3	TEST MODE = LTE /TM3 10MHz	18
3.3.1	TEST CHANNEL = MCH	18
4	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	19
4.1	TEST RESULT	19
4.2	TEST PLOTS	20
5	BAND EDGE COMPLIANCE	39
5.1	TEST PLOTS	39
6	SPURIOUS EMISSION AT ANTENNA TERMINAL	64
6.1	TEST PLOTS	64
7	FIELD STRENGTH OF SPURIOUS RADIATION	74
7.1	Test Band = LTE_5_TM1	74
7.1.1	Test Channel = Low Channel	74
7.2	Test Band = LTE_5_TM1	75
7.2.1	Test Channel = Low Channel	75
7.3	Test Band = LTE_5_TM1	76
7.3.1	Test Channel = Middle Channel	76
7.4	Test Band = LTE_5_TM1	77
7.4.1	Test Channel = Middle Channel	77
7.5	Test Band = LTE_5_TM1	78
7.5.1	Test Channel = High Channel	78



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

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



7.6	Test Band = LTE_5_TM1	79
7.6.1	Test Channel = High Channel	79
8	FREQUENCY STABILITY	80
8.1	FREQUENCY VS VOLTAGE	80
8.2	FREQUENCY VS TEMPERATURE	81



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



1 Effective (Isotropic) Radiated Power

1.1 Test Result

Band	Bandwidth h	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.51	19.45	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.34	19.28	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.15	19.09	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.64	19.58	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.49	19.43	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.62	19.56	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.43	18.37	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.31	19.25	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.35	19.29	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.14	19.08	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.46	19.40	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.49	19.43	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.58	19.52	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.42	18.36	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.35	19.29	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.39	19.33	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.16	19.10	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.43	19.37	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.35	19.29	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.34	19.28	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.43	18.37	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.68	18.62	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.37	18.31	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.42	18.36	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.38	18.32	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.43	18.37	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.36	18.30	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.25	17.19	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.55	18.49	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.58	18.52	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.46	18.40	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.41	18.35	38.45	PASS



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

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



Band5	1.4MHz	16QAM	20525	3RB#1	22.34	18.28	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.24	18.18	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.15	17.09	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.09	18.03	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.97	17.91	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.52	18.46	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.28	18.22	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.24	18.18	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.26	18.20	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.18	17.12	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.49	17.43	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.26	17.20	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21.08	17.02	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#0	21.54	17.48	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#1	21.49	17.43	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#3	21.59	17.53	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	20.38	16.32	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.22	17.16	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.33	17.27	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.12	17.06	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#0	21.42	17.36	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#1	21.43	17.37	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#3	21.50	17.44	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.34	16.28	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.29	17.23	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.31	17.25	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.08	17.02	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#0	21.35	17.29	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#1	21.32	17.26	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#3	21.25	17.19	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.42	16.36	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.58	19.52	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.74	19.68	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.46	19.40	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.42	18.36	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.46	18.40	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.50	18.44	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.47	18.41	38.45	PASS



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

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



Band5	3MHz	QPSK	20525	1RB#0	23.36	19.30	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.19	19.13	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.13	19.07	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.39	18.33	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.30	18.24	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.30	18.24	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.44	18.38	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.41	19.35	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.33	19.27	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.12	19.06	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.37	18.31	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.46	18.40	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.42	18.36	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.44	18.38	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.38	18.32	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.19	18.13	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.88	17.82	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.61	17.55	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.20	17.14	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.43	17.37	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.66	17.60	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.19	18.13	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.97	17.91	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.67	18.61	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.14	17.08	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.37	17.31	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.32	17.26	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.45	17.39	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.47	18.41	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.07	18.01	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.47	18.41	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.29	17.23	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.43	17.37	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.26	17.20	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.53	17.47	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.50	17.44	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	21.65	17.59	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	21.42	17.36	38.45	PASS



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

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

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

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



Band5	3MHz	64QAM	20415	8RB#0	20.41	16.35	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#4	20.46	16.40	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#7	20.41	16.35	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.40	16.34	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.31	17.25	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.14	17.08	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.06	17.00	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#0	20.38	16.32	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#4	20.29	16.23	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#7	20.29	16.23	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.35	16.29	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.40	17.34	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.28	17.22	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.03	16.97	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#0	20.29	16.23	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#4	20.41	16.35	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#7	20.42	16.36	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.37	16.31	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.47	19.41	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.29	19.23	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.18	19.12	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.42	18.36	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.54	18.48	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.43	18.37	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.53	18.47	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.28	19.22	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.16	19.10	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.18	19.12	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.34	18.28	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.31	18.25	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.24	18.18	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.29	18.23	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.08	19.02	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.00	18.94	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.09	19.03	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.40	18.34	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.38	18.32	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.42	18.36	38.45	PASS





Band5	5MHz	QPSK	20625	25RB#0	22.41	18.35	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.16	18.10	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.24	18.18	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.77	17.71	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.25	17.19	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.36	17.30	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.37	17.31	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.55	17.49	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.97	17.91	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.76	17.70	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.76	17.70	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.14	17.08	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.10	17.04	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.11	17.05	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.35	17.29	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.56	18.50	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.13	18.07	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.24	18.18	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.22	17.16	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.22	17.16	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.59	17.53	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.59	17.53	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.43	17.37	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.27	17.21	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.12	17.06	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#0	20.41	16.35	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#6	20.45	16.39	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#13	20.36	16.30	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.51	16.45	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.22	17.16	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.09	17.03	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.10	17.04	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#0	20.31	16.25	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#6	20.25	16.19	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#13	20.19	16.13	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.20	16.14	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.05	16.99	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	20.94	16.88	38.45	PASS



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

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

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

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



Band5	5MHz	64QAM	20625	1RB#24	21.00	16.94	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#0	20.31	16.25	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#6	20.35	16.29	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#13	20.40	16.34	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.33	16.27	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.38	19.32	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.32	19.26	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.28	19.22	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.56	18.50	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.40	18.34	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.47	18.41	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.41	18.35	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.21	19.15	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.30	19.24	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.23	19.17	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.28	18.22	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.23	18.17	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.33	18.27	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.27	18.21	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.47	19.41	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.52	19.46	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.46	19.40	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.47	18.41	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.32	18.26	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.48	18.42	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.56	18.50	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.26	18.20	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.93	17.87	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.54	18.48	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.49	17.43	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.45	17.39	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.45	17.39	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.43	17.37	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.30	18.24	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.82	17.76	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.02	17.96	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.48	17.42	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.30	17.24	38.45	PASS



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

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

Band5	10MHz	16QAM	20525	25RB#25	21.44	17.38	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.25	17.19	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.01	17.95	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.98	17.92	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.17	18.11	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.22	17.16	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.42	17.36	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.55	17.49	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.32	17.26	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.34	17.28	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.23	17.17	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.26	17.20	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#0	20.47	16.41	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#12	20.33	16.27	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#25	20.45	16.39	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.39	16.33	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.20	17.14	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.22	17.16	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.18	17.12	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#0	20.23	16.17	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#12	20.14	16.08	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#25	20.23	16.17	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.25	16.19	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.39	17.33	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.43	17.37	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.39	17.33	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#0	20.38	16.32	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#12	20.32	16.26	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#25	20.39	16.33	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.51	16.45	38.45	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 [dBi]

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



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

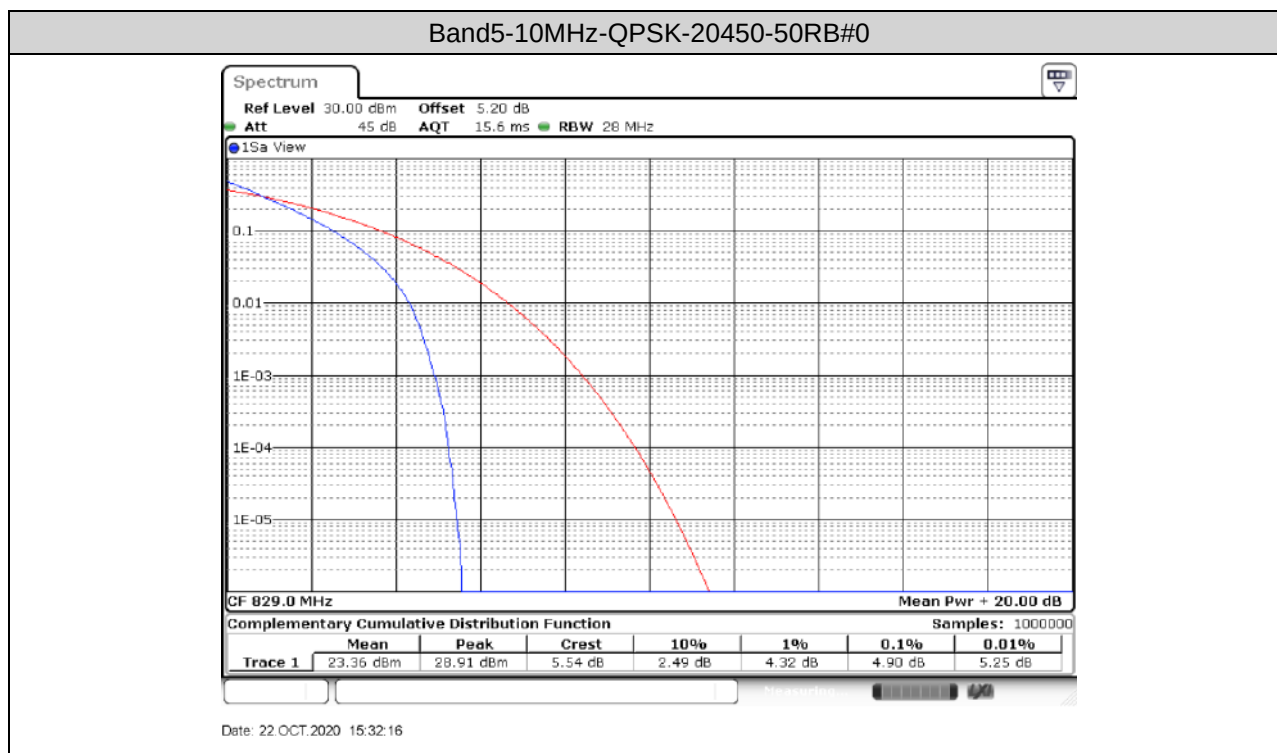
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

2 Peak-to-Average Ratio (CCDF)

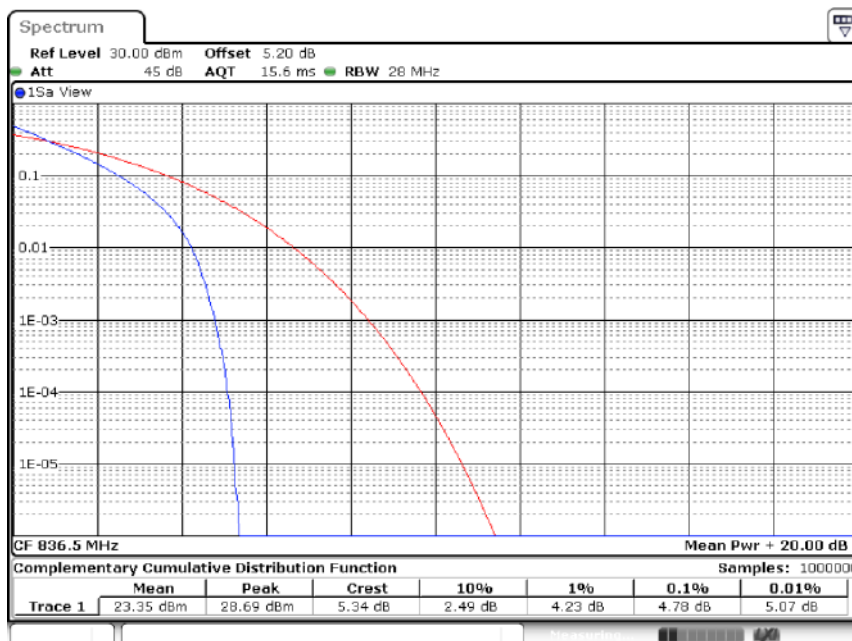
2.1 Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.90	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.78	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.04	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.77	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.57	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.88	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.55	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.38	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.61	13	PASS

2.2 Test Plots

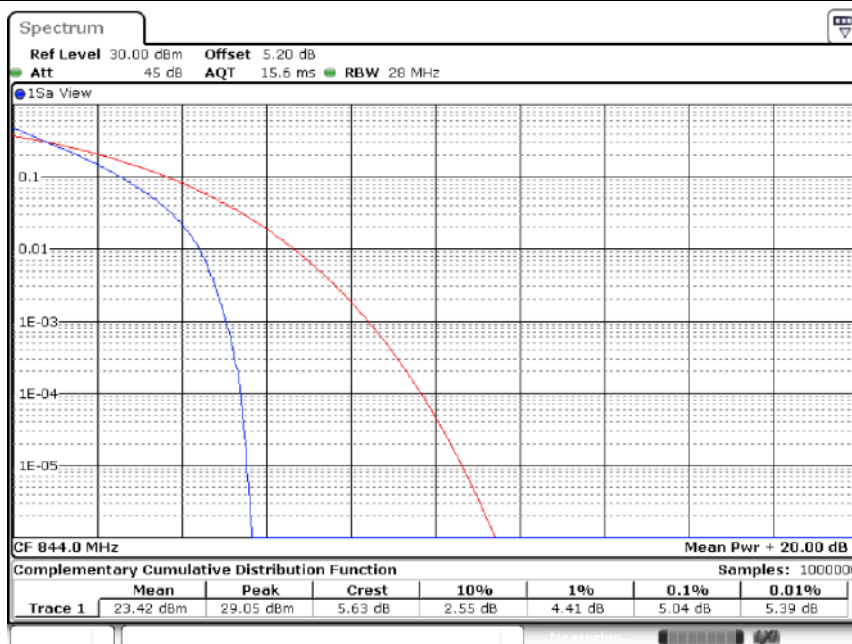


Band5-10MHz-QPSK-20525-50RB#0



Date: 22.OCT.2020 15:32:44

Band5-10MHz-QPSK-20600-50RB#0



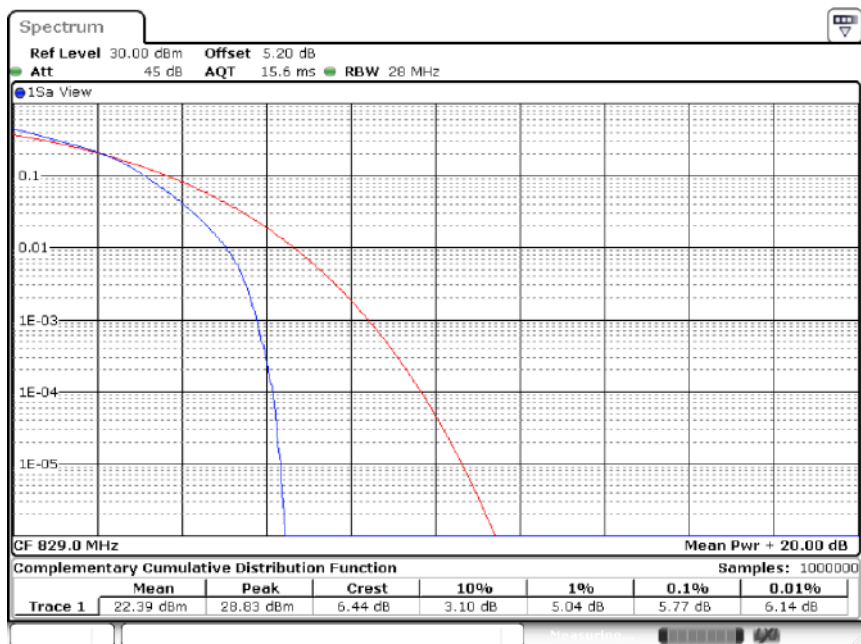
Date: 22.OCT.2020 15:33:13



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

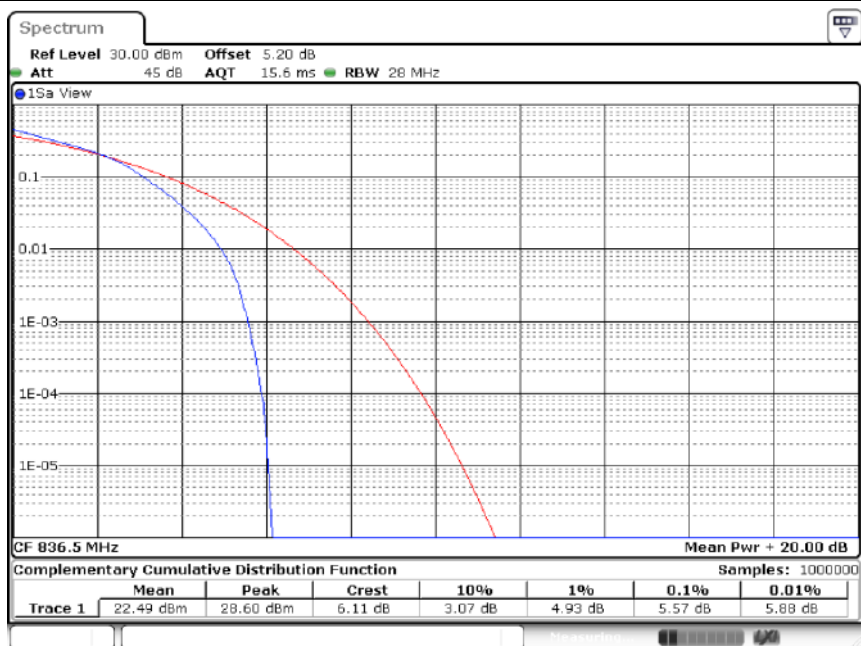
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band5-10MHz-16QAM-20450-50RB#0



Date: 22 OCT.2020 15:32:30

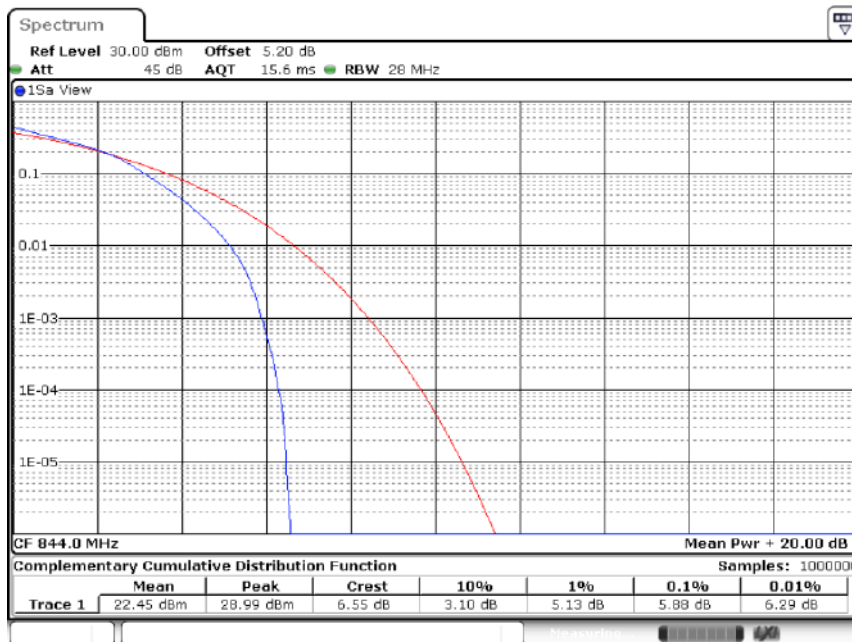
Band5-10MHz-16QAM-20525-50RB#0



Date: 22 OCT.2020 15:32:58

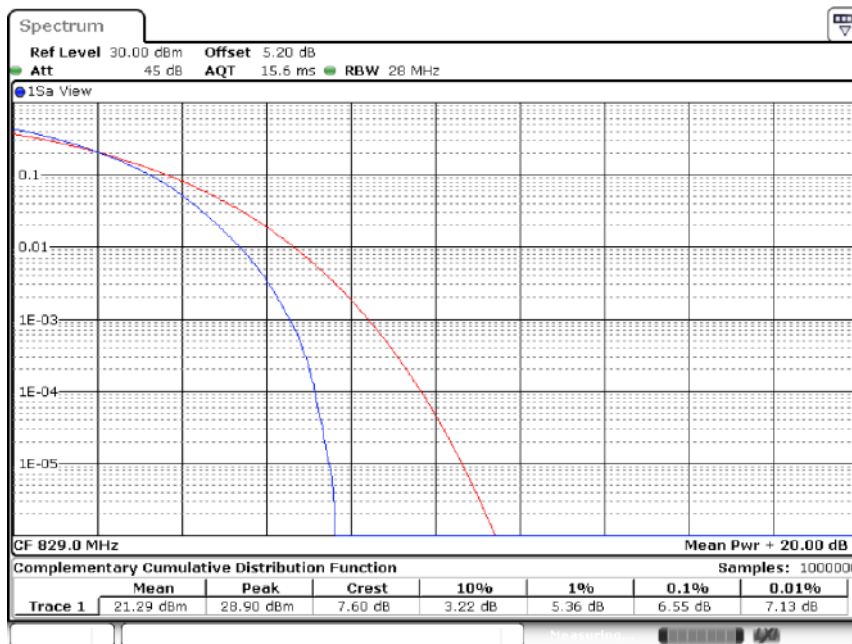


Band5-10MHz-16QAM-20600-50RB#0



Date: 22.OCT.2020 15:33:28

Band5-10MHz-64QAM-20450-50RB#0



Date: 22.OCT.2020 17:06:23



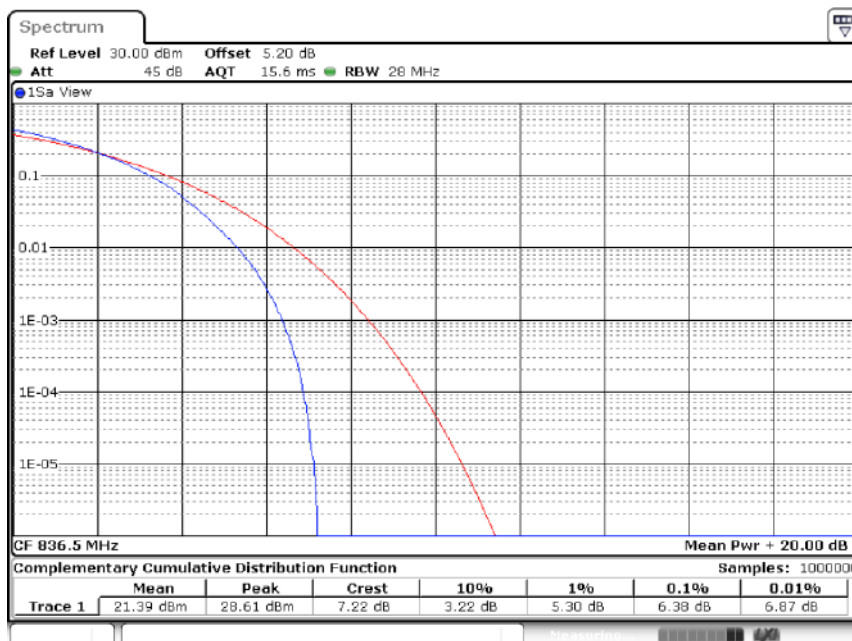
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

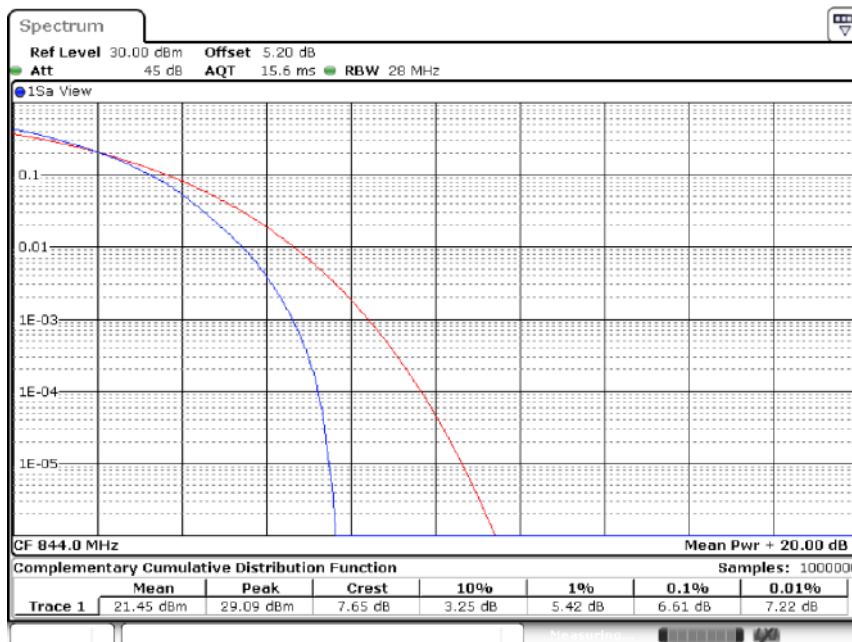
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-10MHz-64QAM-20525-50RB#0



Date: 22.OCT.2020 17:06:37

Band5-10MHz-64QAM-20600-50RB#0



Date: 22.OCT.2020 17:06:52



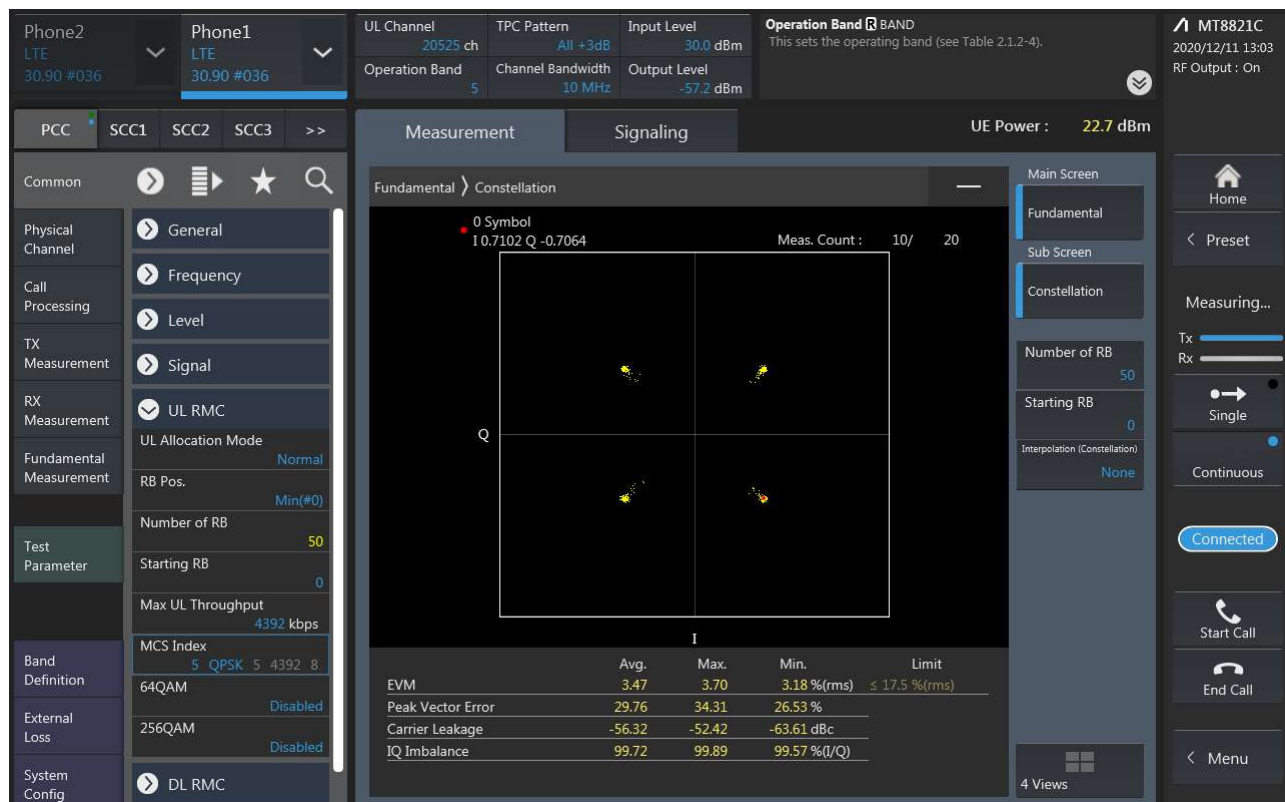
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 10MHz

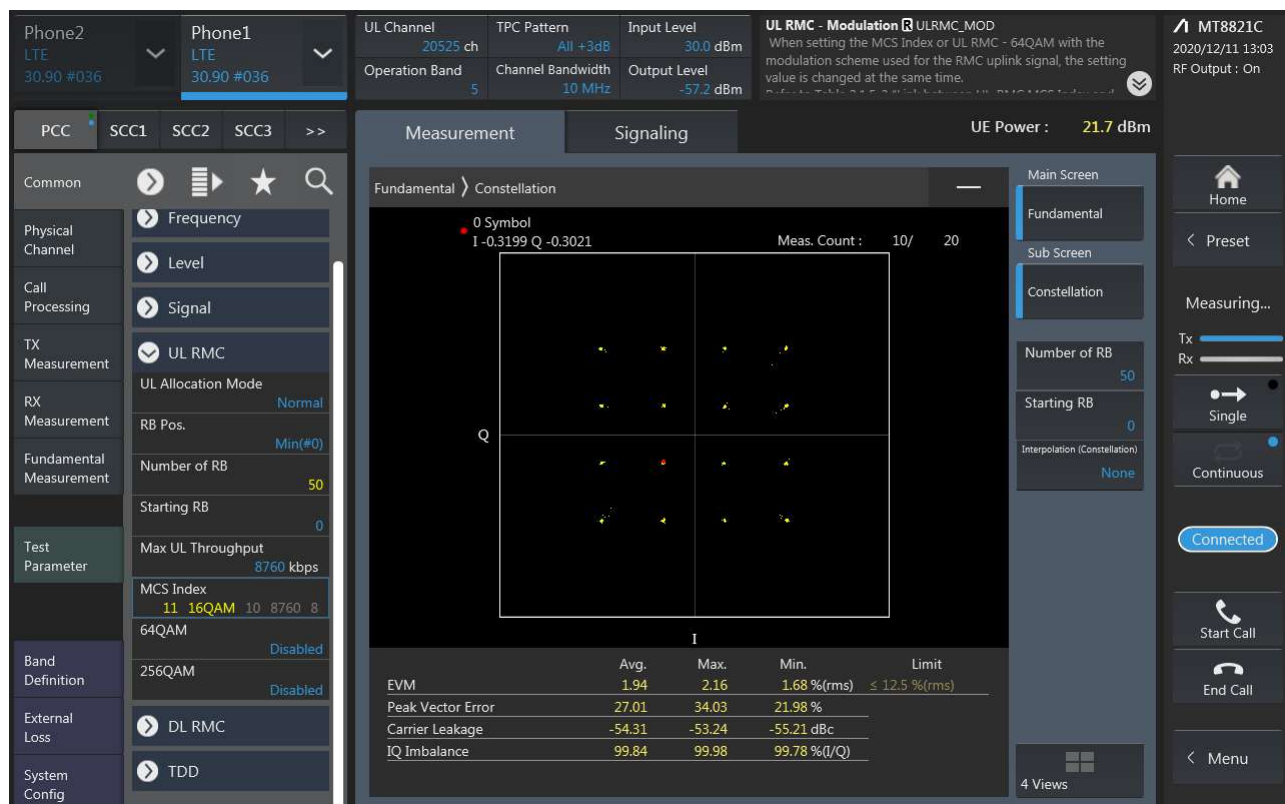
3.1.1 Test Channel = MCH





3.2 Test Mode = LTE /TM2 10MHz

3.2.1 Test Channel = MCH



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

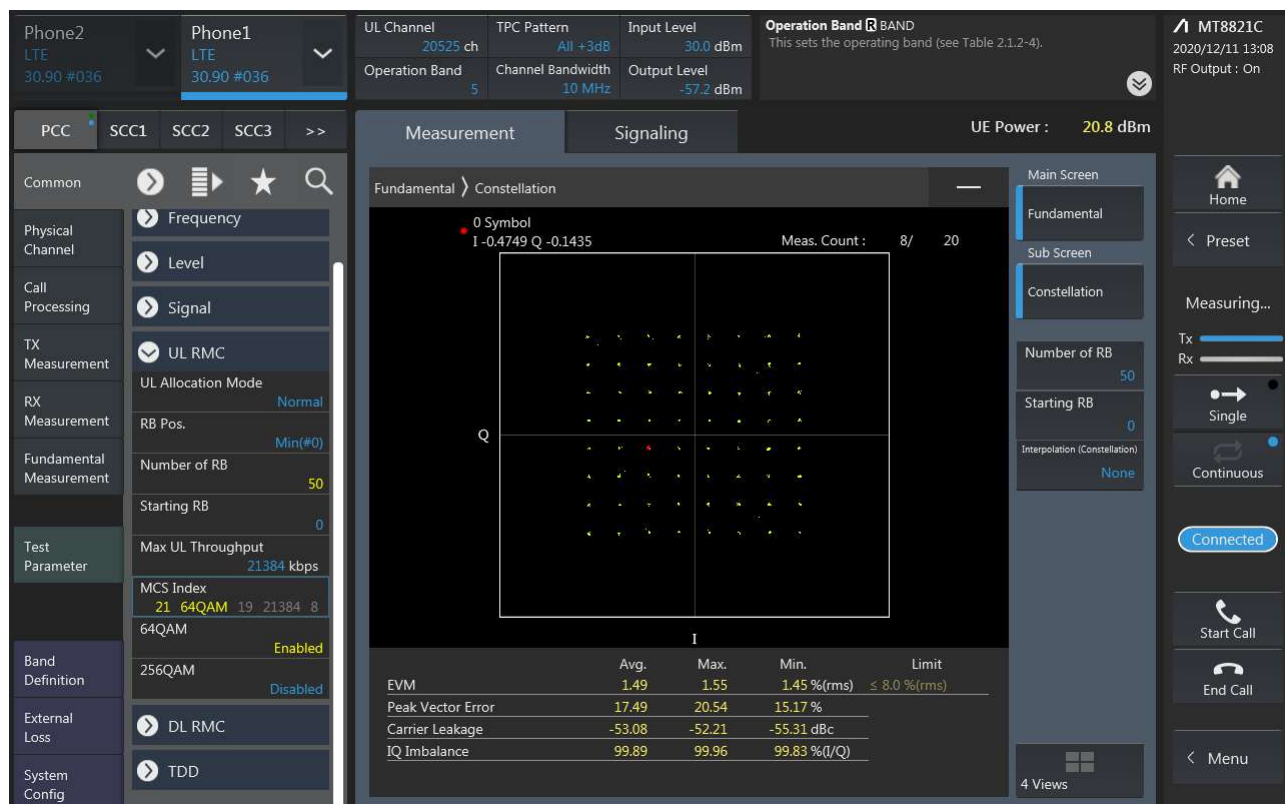
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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



3.3 Test Mode = LTE /TM3 10MHz

3.3.1 Test Channel = MCH





4 26dB Bandwidth and Occupied Bandwidth

4.1 Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.094	1.299	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.094	1.293	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.278	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.281	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.281	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.097	1.290	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.097	1.293	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.097	1.296	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	3.000	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.000	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.703	3.000	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.976	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.964	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.685	2.964	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.691	2.976	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.691	2.976	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.691	2.976	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.920	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.920	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.940	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.970	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.496	4.960	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.960	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.466	4.920	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.476	4.920	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.476	4.920	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.700	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.640	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.780	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.720	PASS



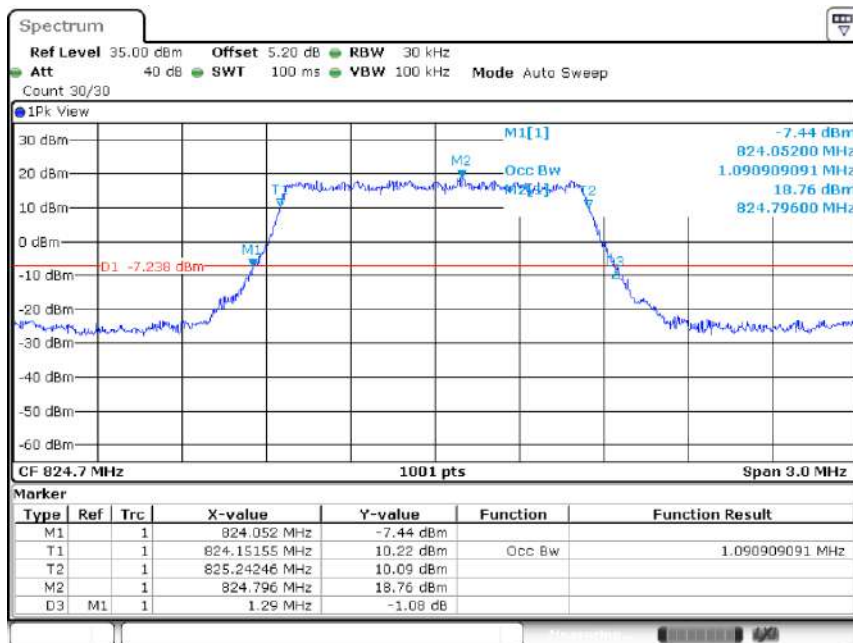
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Band5	10MHz	16QAM	20525	50RB#0	8.911	9.720	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.931	9.740	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.911	9.680	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.911	9.620	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.931	9.740	PASS

4.2 Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.091



Date: 22 OCT 2020 15:01:55

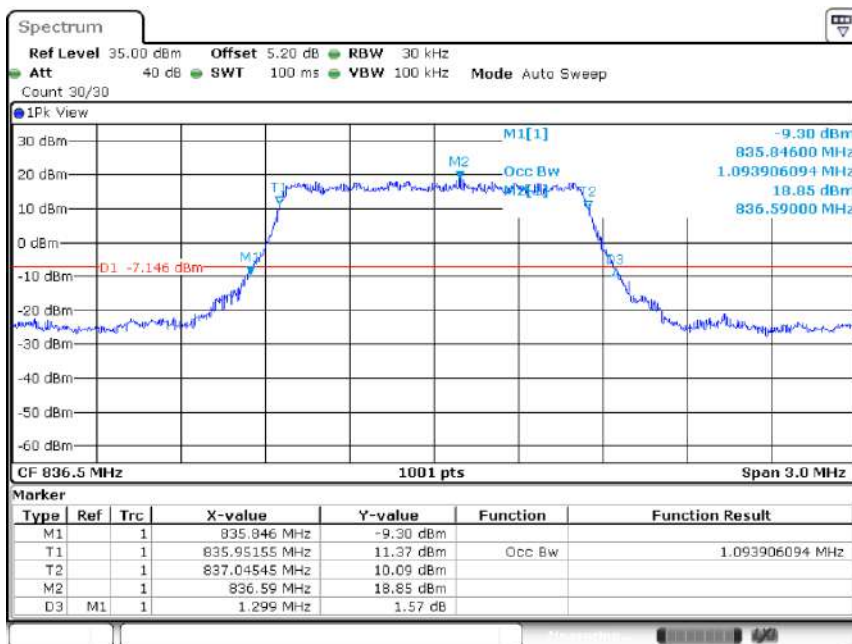


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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.

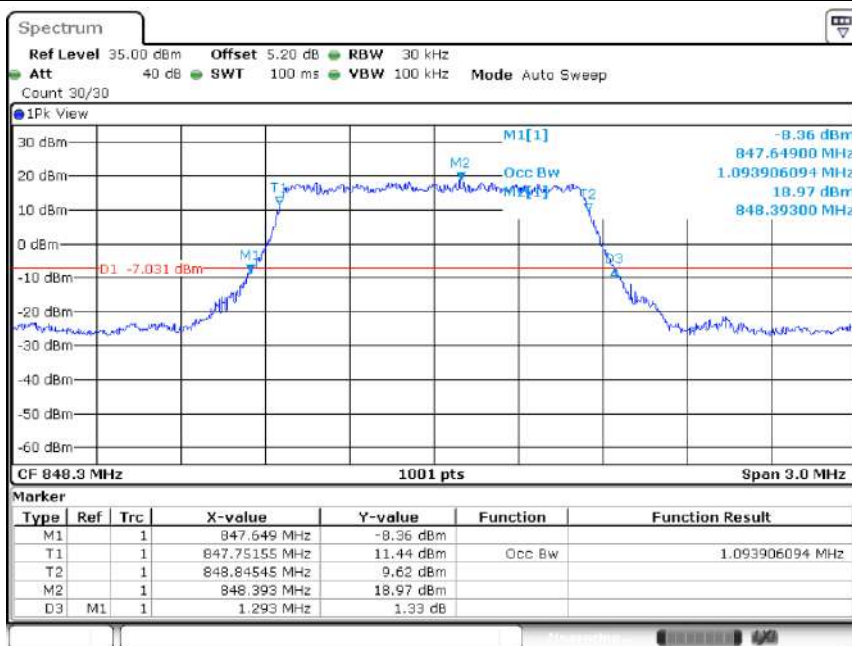
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band5-1.4MHz-QPSK-20525-6RB#0-1.094



Date: 22.OCT.2020 15:02:27

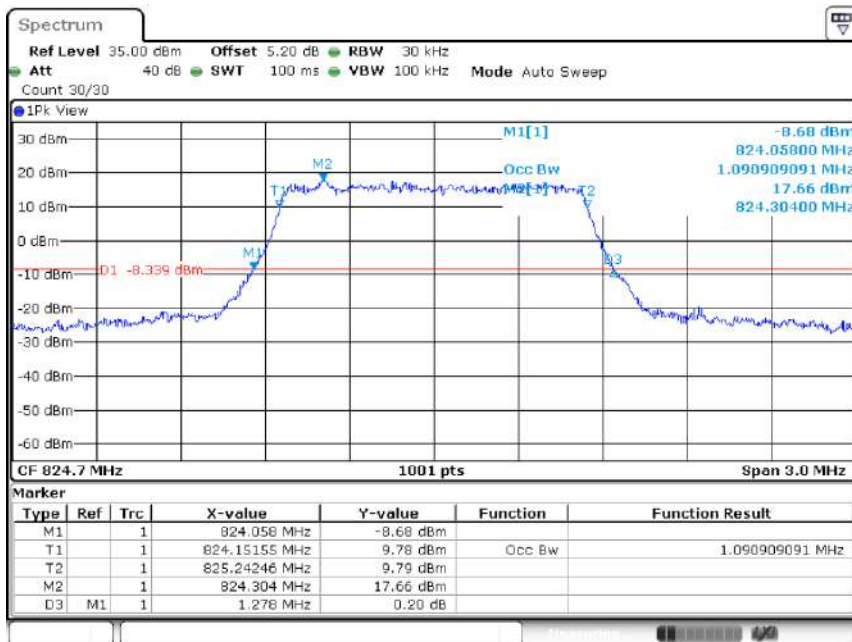
Band5-1.4MHz-QPSK-20643-6RB#0-1.094



Date: 22.OCT.2020 15:02:59

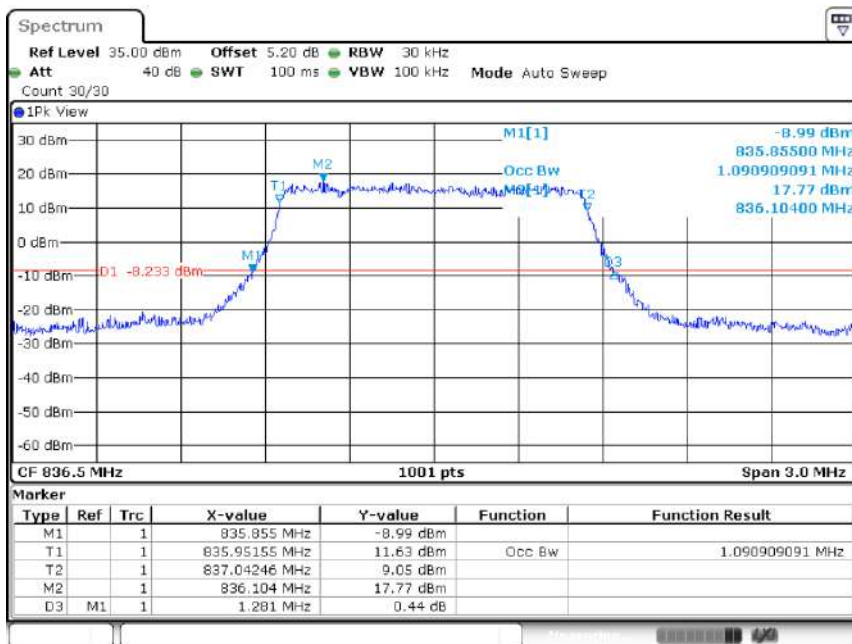


Band5-1.4MHz-16QAM-20407-6RB#0-1.091



Date: 22.OCT.2020 15:02:11

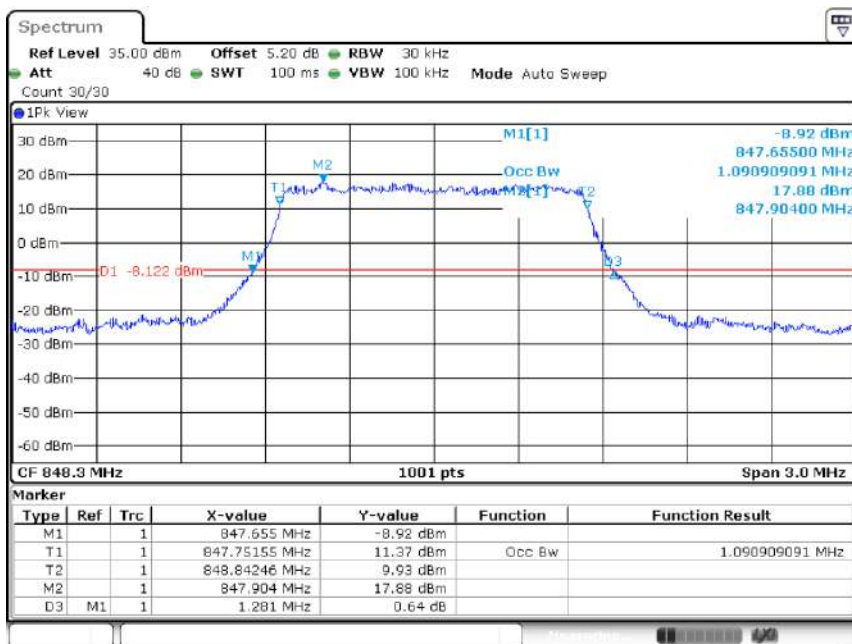
Band5-1.4MHz-16QAM-20525-6RB#0-1.091



Date: 22.OCT.2020 15:02:43

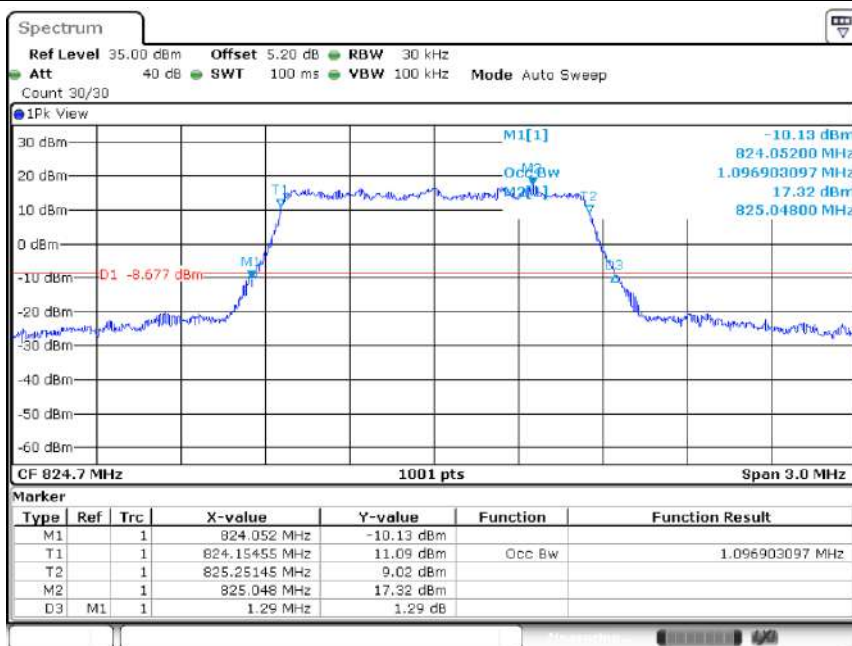


Band5-1.4MHz-16QAM-20643-6RB#0-1.091



Date: 22.OCT.2020 15:03:15

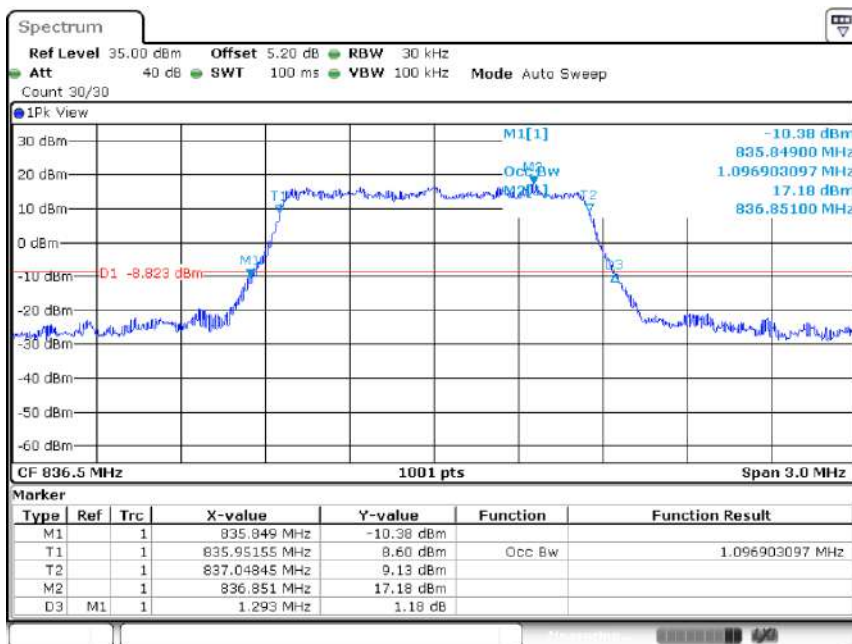
Band5-1.4MHz-64QAM-20407-6RB#0-1.097



Date: 22.OCT.2020 16:50:14

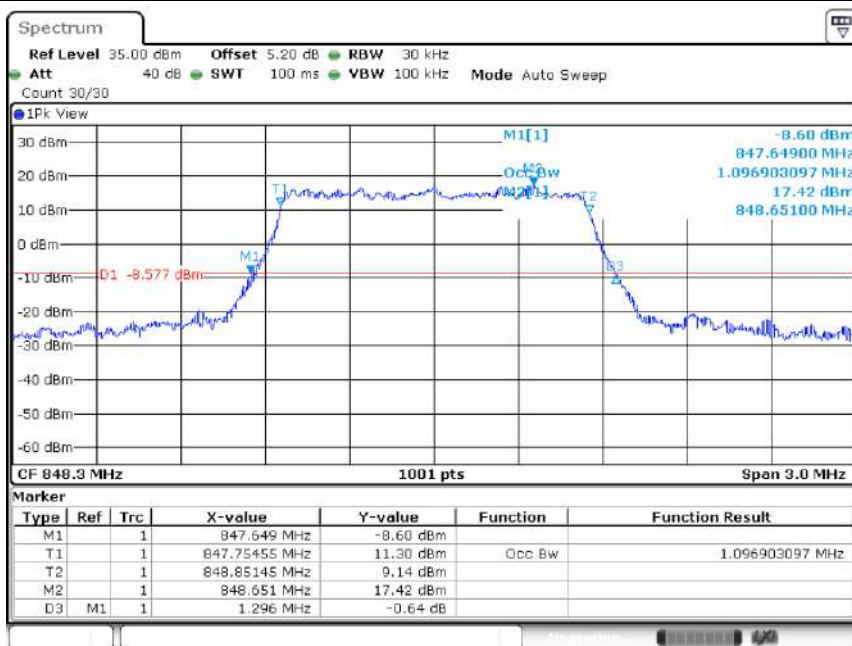


Band5-1.4MHz-64QAM-20525-6RB#0-1.097



Date: 22.OCT.2020 16:50:30

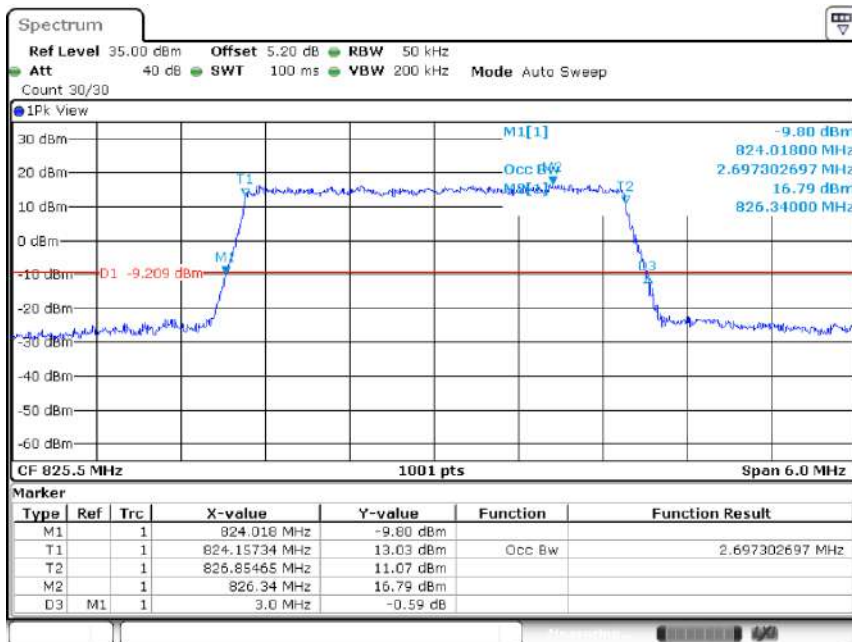
Band5-1.4MHz-64QAM-20643-6RB#0-1.097



Date: 22.OCT.2020 16:50:46

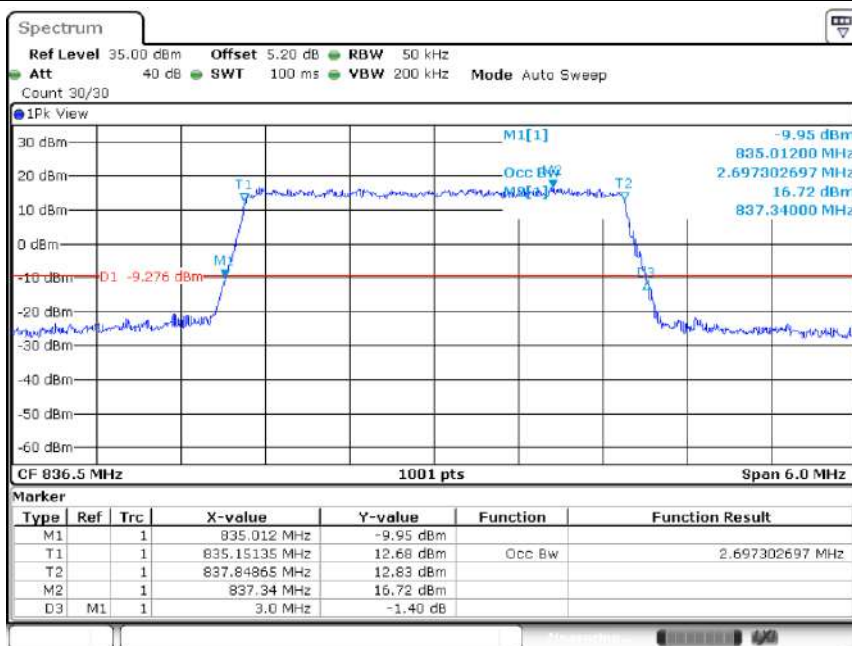


Band5-3MHz-QPSK-20415-15RB#0-2.697



Date: 22.OCT.2020 15:03:38

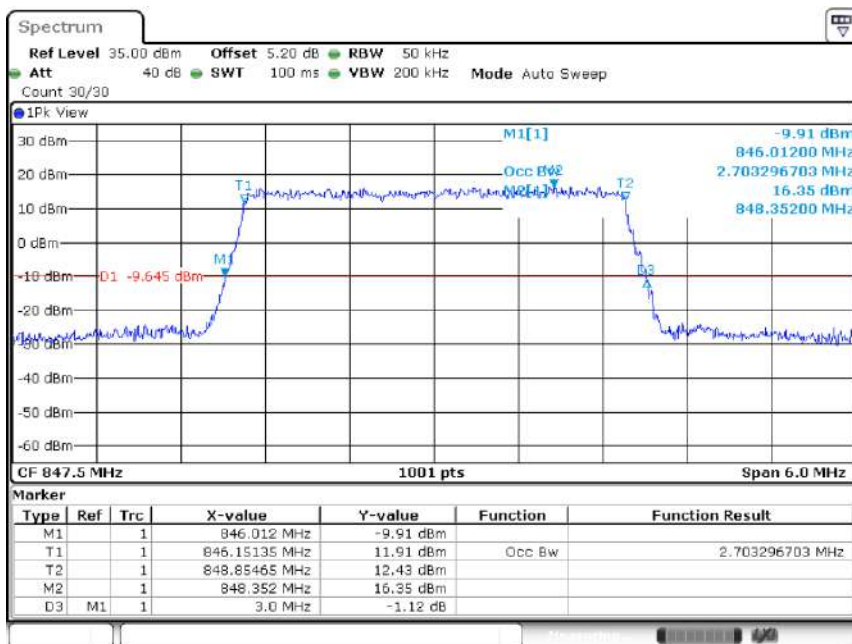
Band5-3MHz-QPSK-20525-15RB#0-2.697



Date: 22.OCT.2020 15:04:10

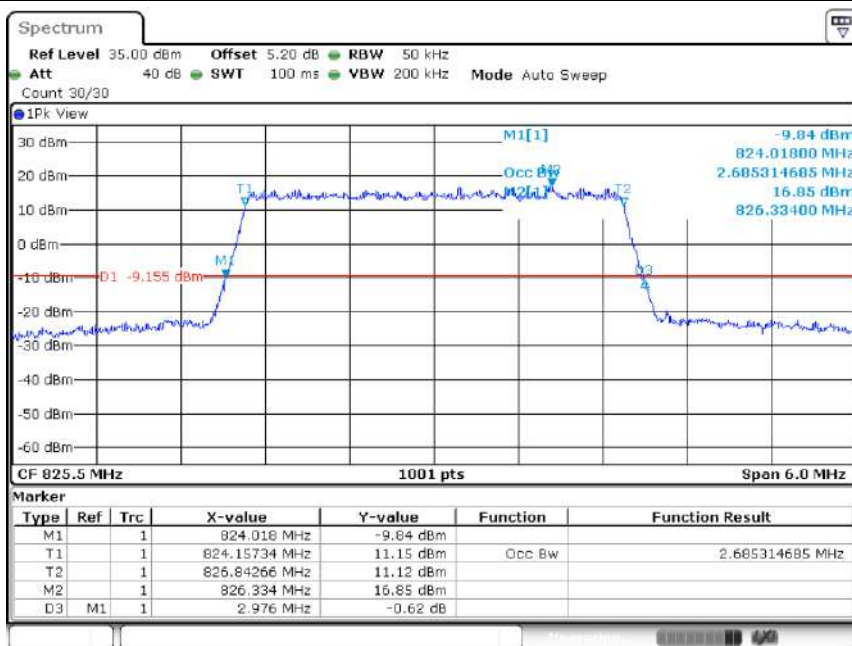


Band5-3MHz-QPSK-20635-15RB#0-2.703



Date: 22.OCT.2020 15:04:41

Band5-3MHz-16QAM-20415-15RB#0-2.685



Date: 22.OCT.2020 15:03:53



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

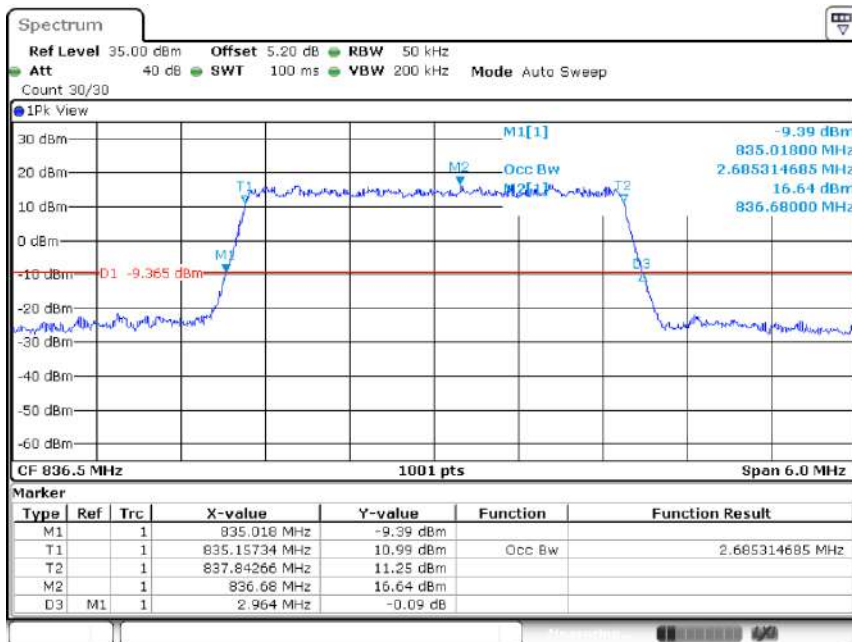
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

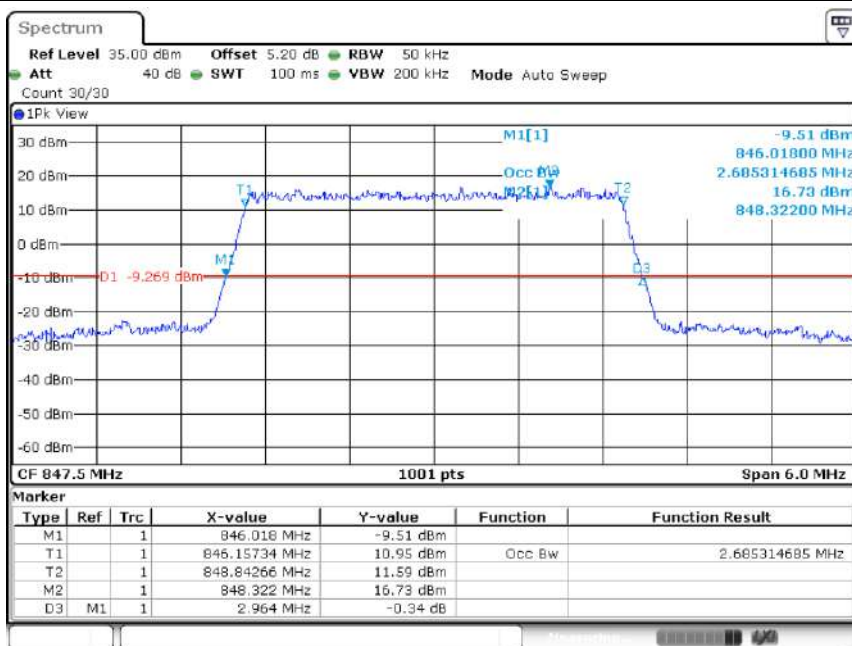
Member of the SGS Group (SGS SA)

Band5-3MHz-16QAM-20525-15RB#0-2.685



Date: 22.OCT.2020 15:04:25

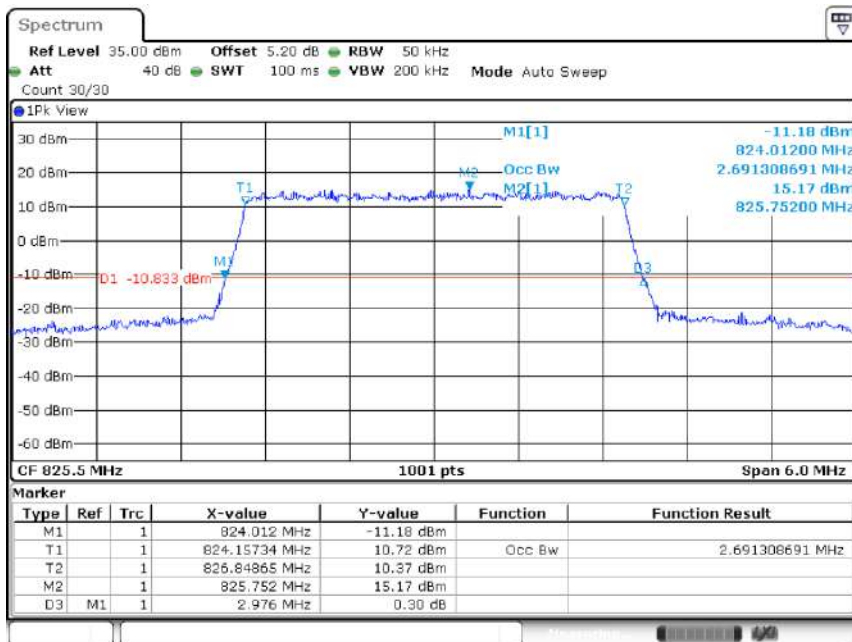
Band5-3MHz-16QAM-20635-15RB#0-2.685



Date: 22.OCT.2020 15:04:57

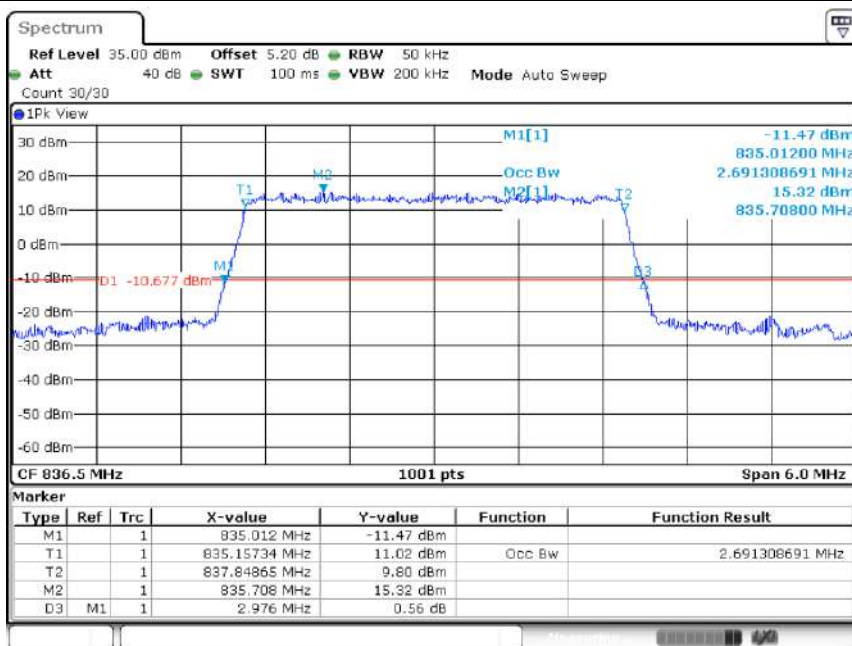


Band5-3MHz-64QAM-20415-15RB#0-2.691



Date: 22.OCT.2020 16:51:09

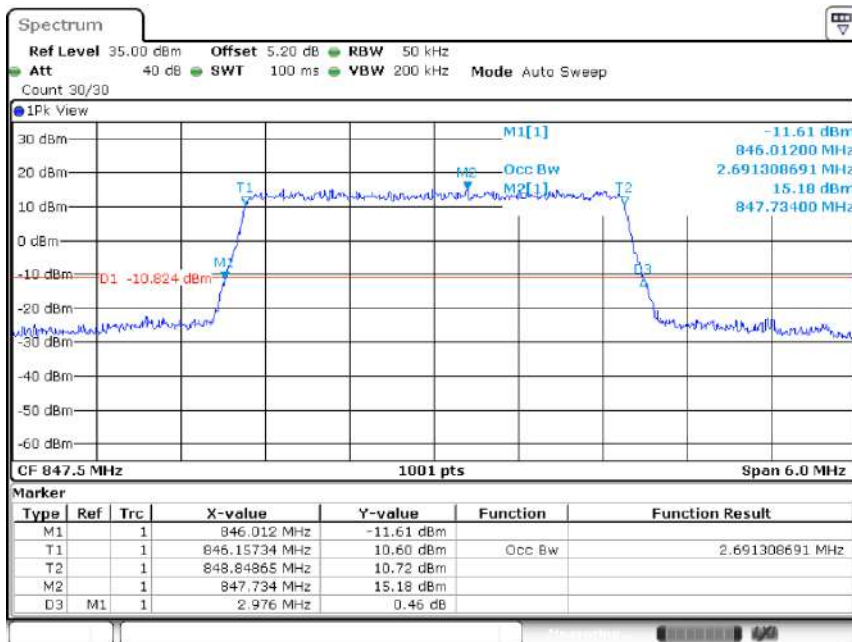
Band5-3MHz-64QAM-20525-15RB#0-2.691



Date: 22.OCT.2020 16:51:25

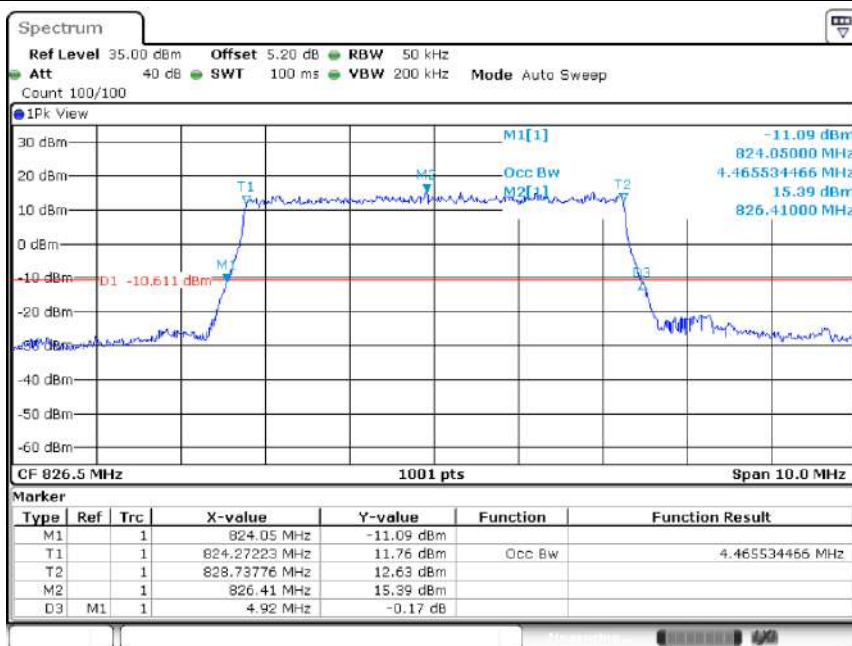


Band5-3MHz-64QAM-20635-15RB#0-2.691



Date: 22.OCT.2020 16:51:41

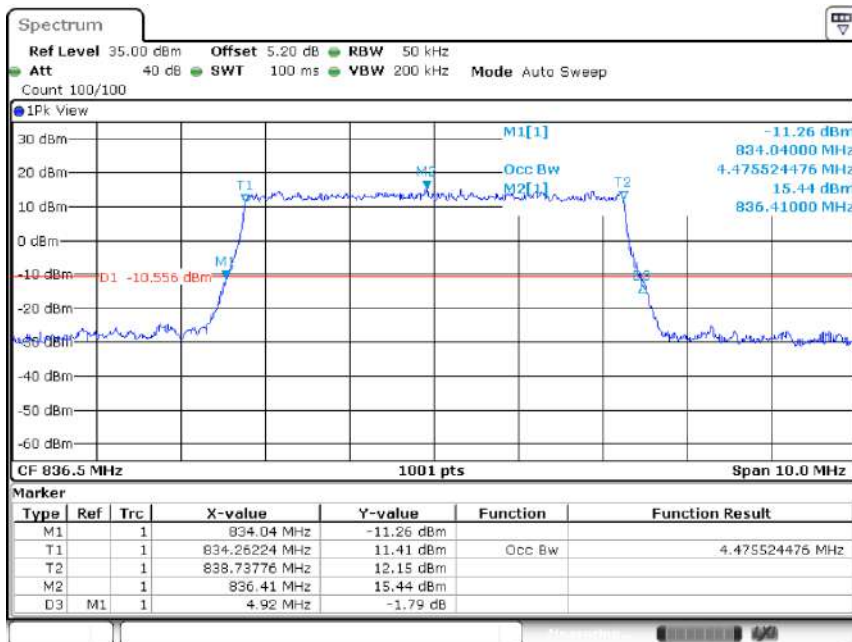
Band5-5MHz-QPSK-20425-25RB#0-4.466



Date: 22.OCT.2020 15:05:26

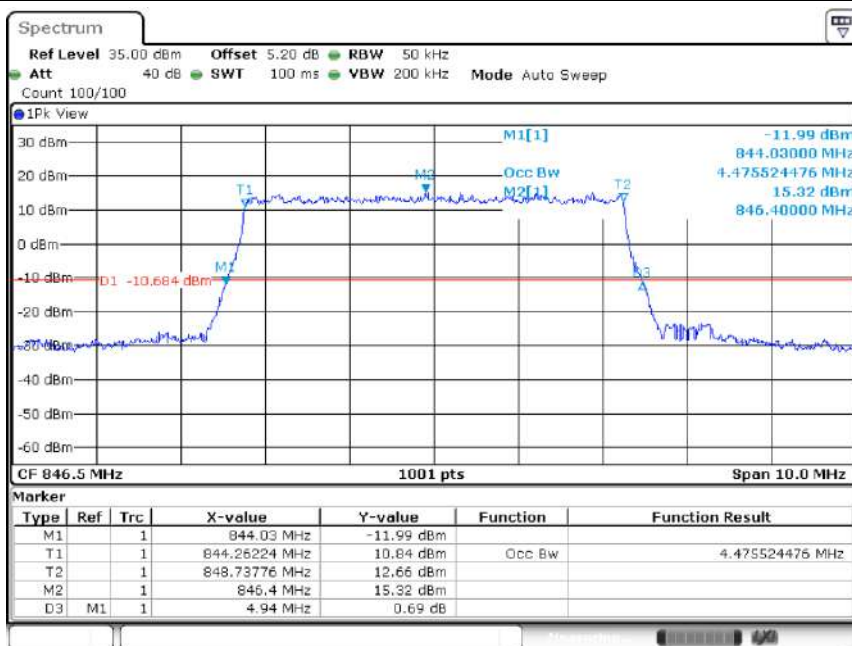


Band5-5MHz-QPSK-20525-25RB#0-4.476



Date: 22.OCT.2020 15:06:12

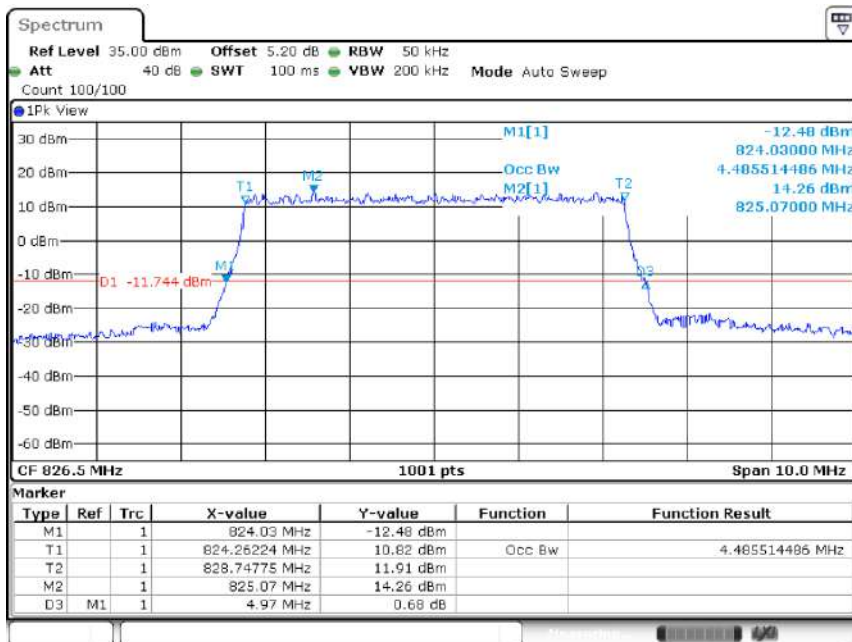
Band5-5MHz-QPSK-20625-25RB#0-4.476



Date: 22.OCT.2020 15:06:59

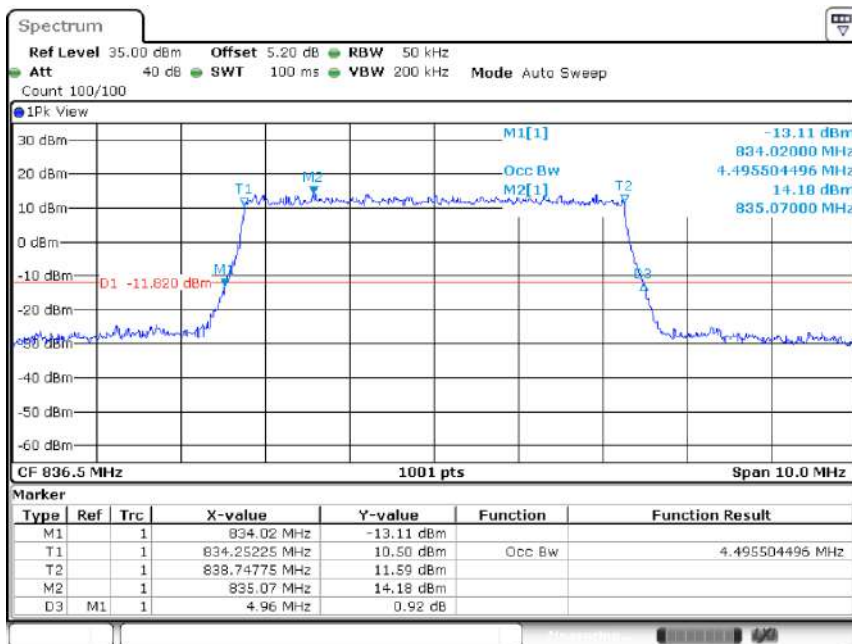


Band5-5MHz-16QAM-20425-25RB#0-4.486



Date: 22.OCT.2020 15:05:49

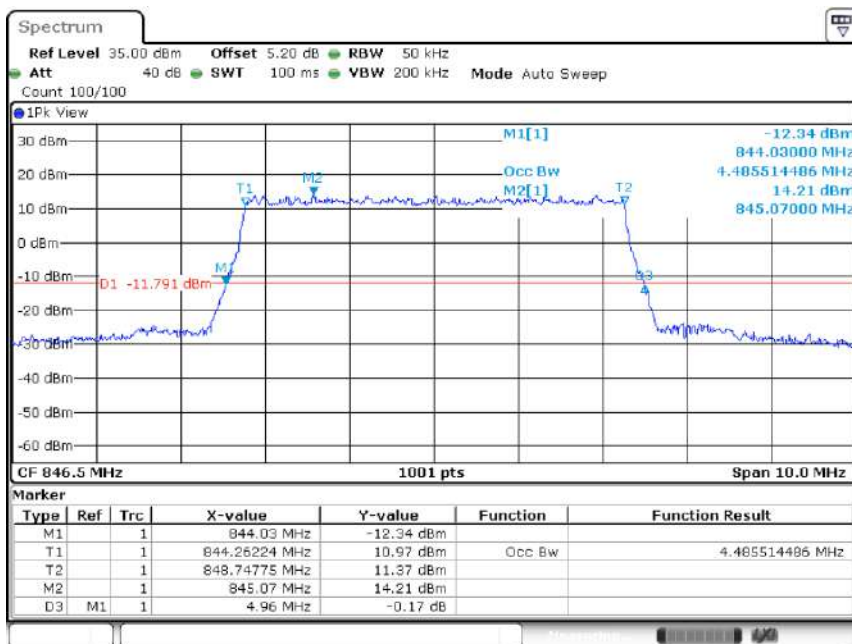
Band5-5MHz-16QAM-20525-25RB#0-4.496



Date: 22.OCT.2020 15:06:35

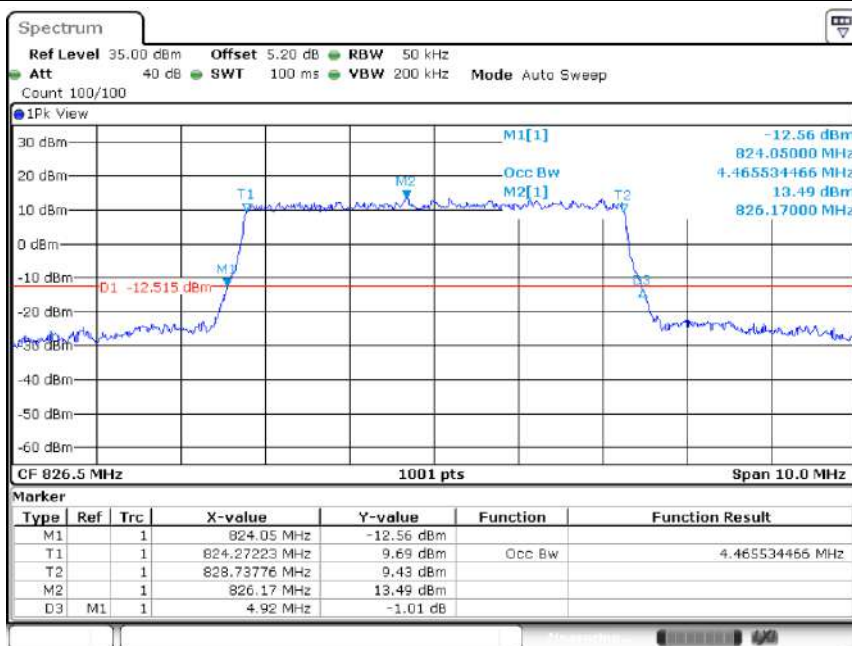


Band5-5MHz-16QAM-20625-25RB#0-4.486



Date: 22.OCT.2020 15:07:21

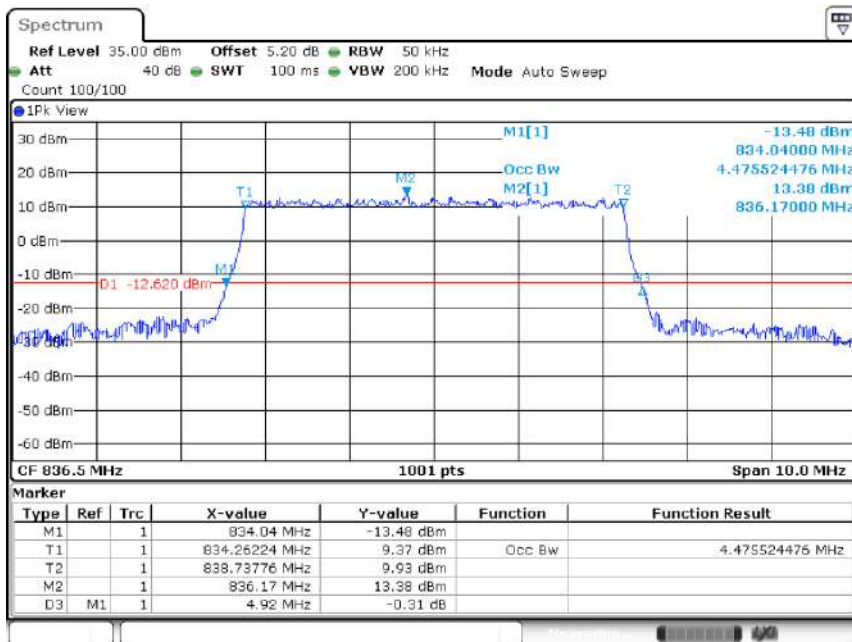
Band5-5MHz-64QAM-20425-25RB#0-4.466



Date: 22.OCT.2020 16:52:11

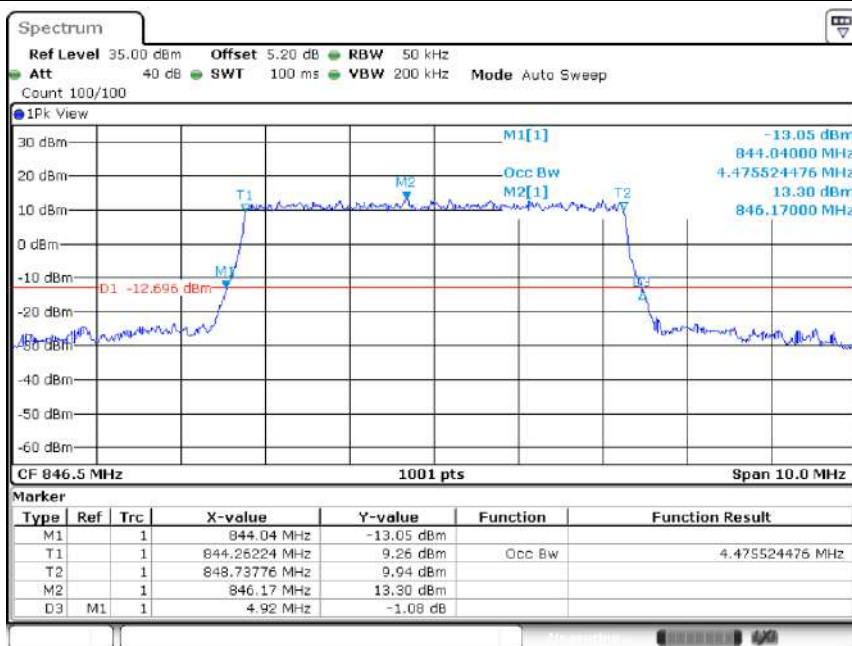


Band5-5MHz-64QAM-20525-25RB#0-4.476



Date: 22.OCT.2020 16:52:34

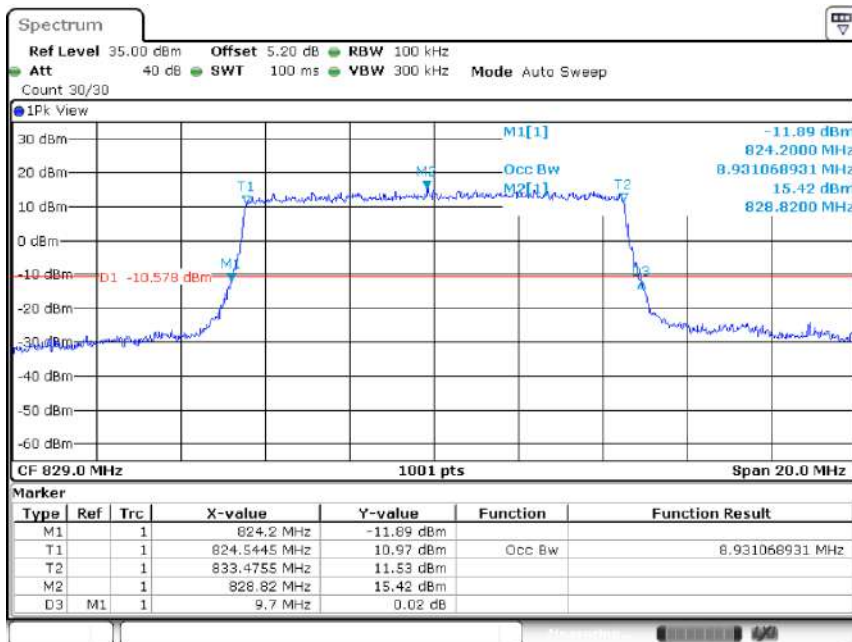
Band5-5MHz-64QAM-20625-25RB#0-4.476



Date: 22.OCT.2020 16:52:58

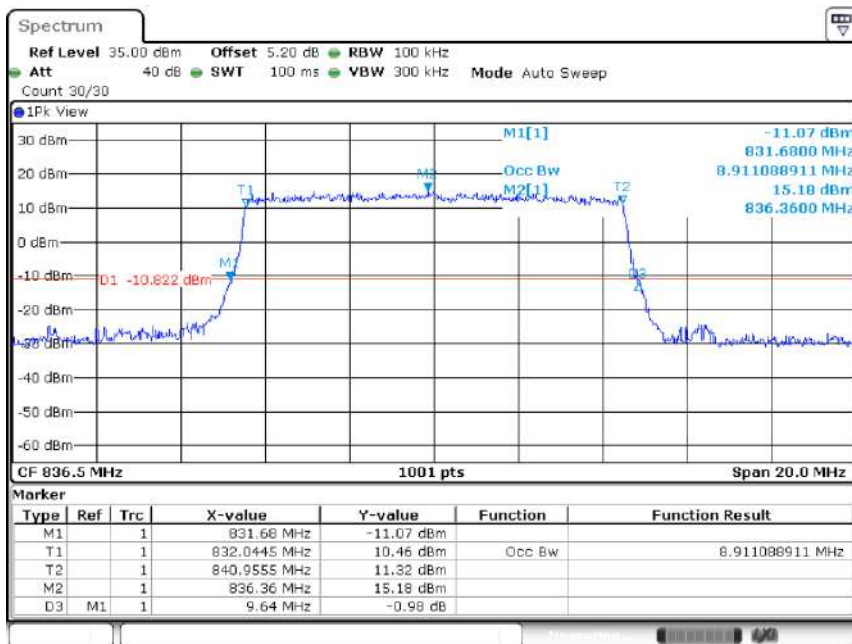


Band5-10MHz-QPSK-20450-50RB#0-8.931



Date: 22.OCT.2020 15:07:43

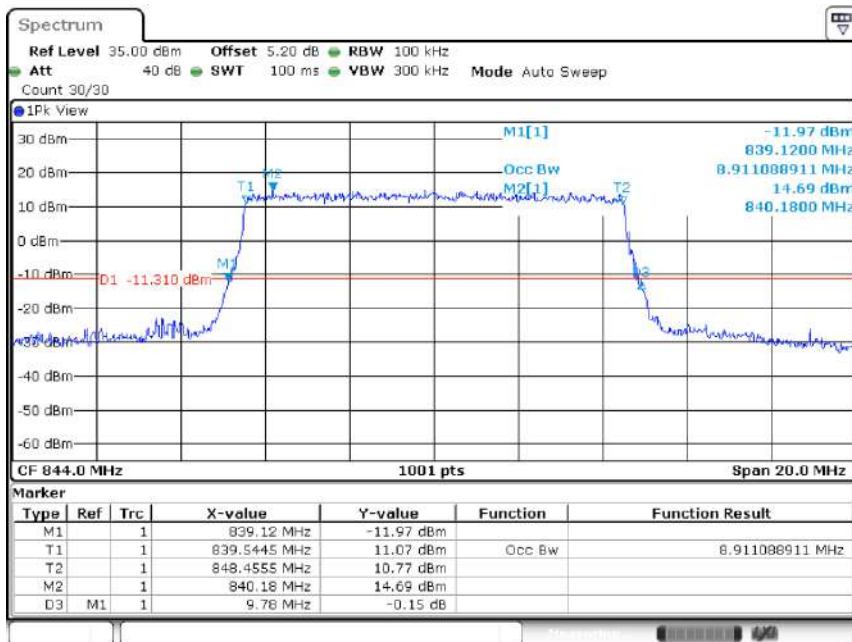
Band5-10MHz-QPSK-20525-50RB#0-8.911



Date: 22.OCT.2020 15:08:15

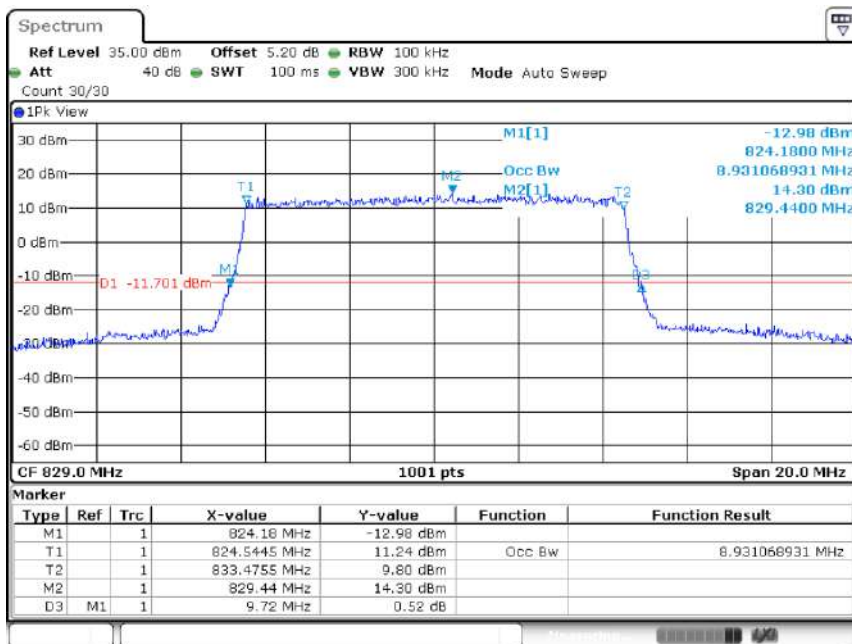


Band5-10MHz-QPSK-20600-50RB#0-8.911



Date: 22.OCT.2020 15:08:48

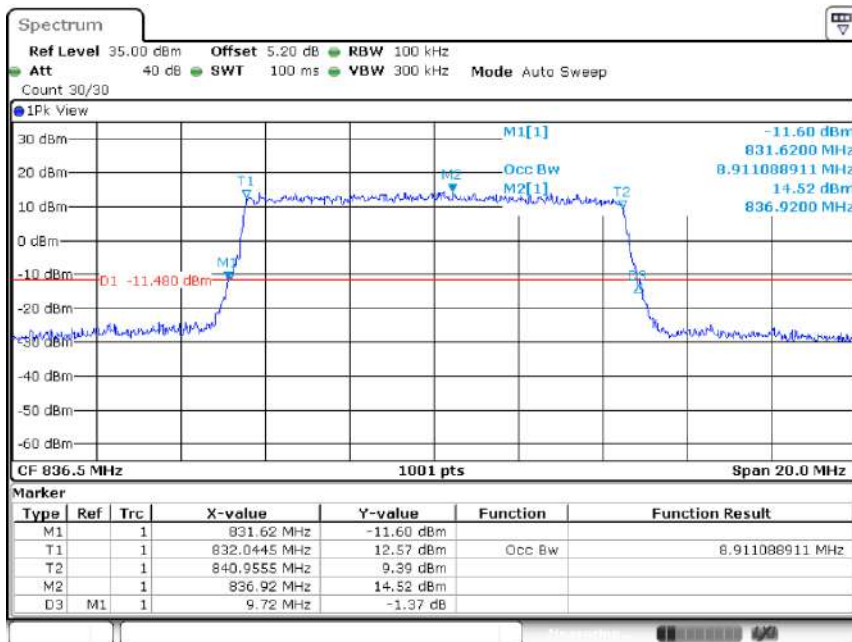
Band5-10MHz-16QAM-20450-50RB#0-8.931



Date: 22.OCT.2020 15:07:59

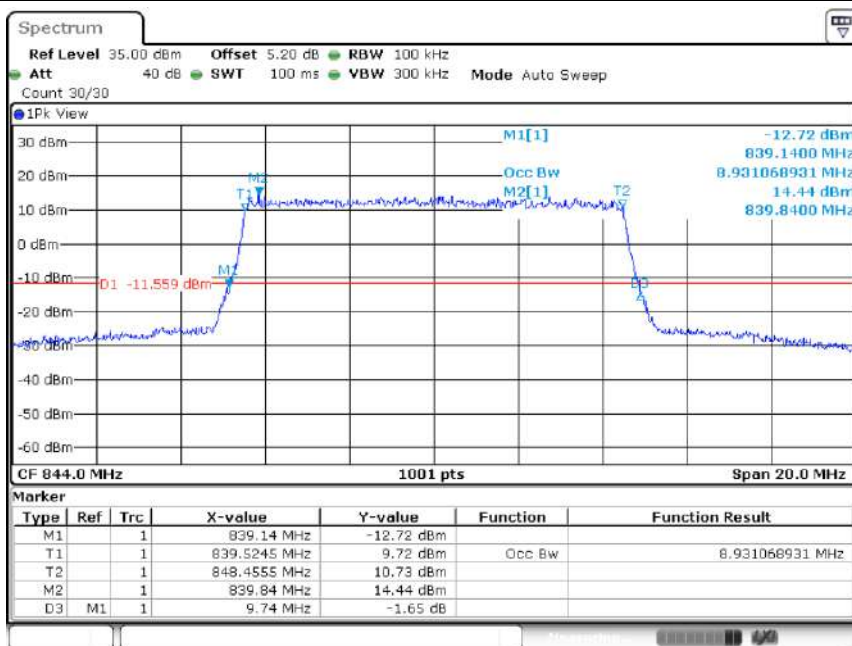


Band5-10MHz-16QAM-20525-50RB#0-8.911



Date: 22.OCT.2020 15:08:32

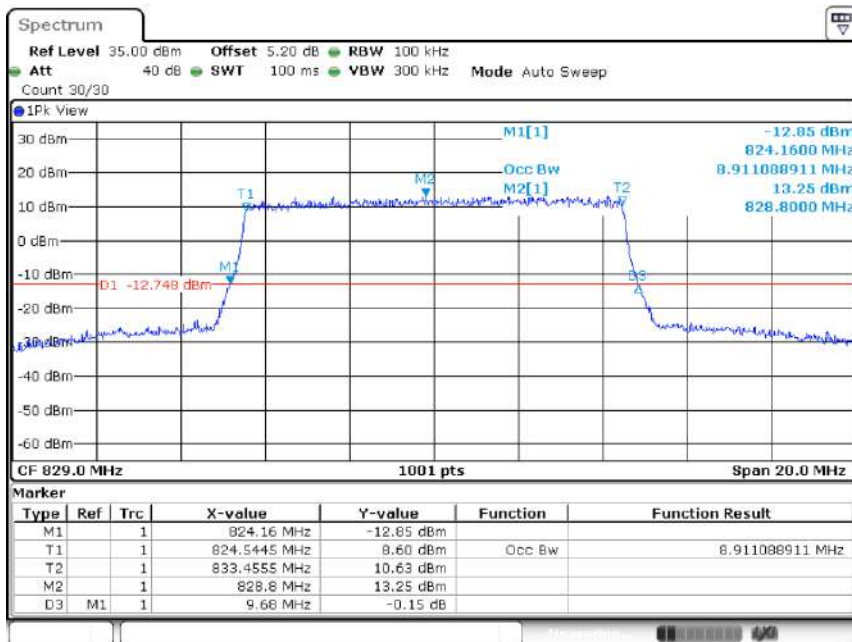
Band5-10MHz-16QAM-20600-50RB#0-8.931



Date: 22.OCT.2020 15:09:03

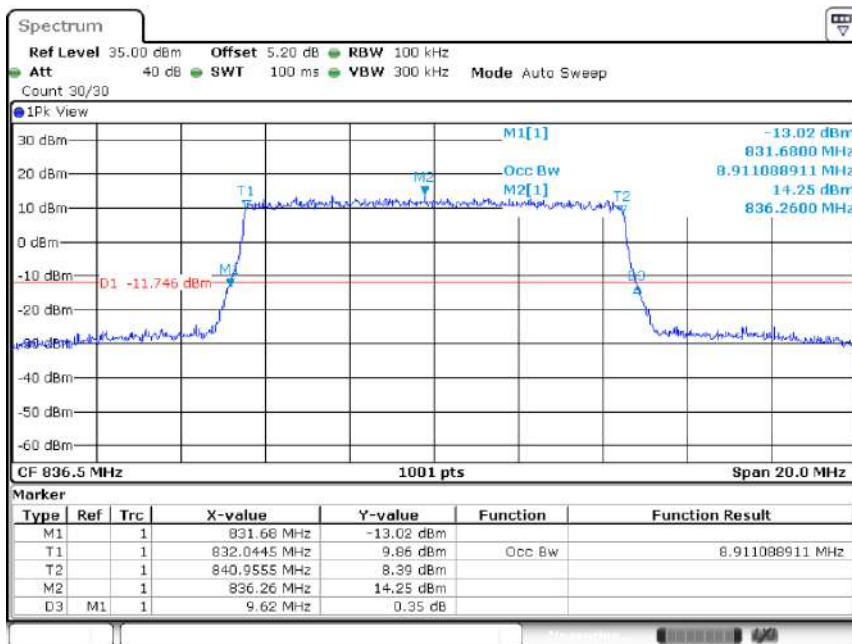


Band5-10MHz-64QAM-20450-50RB#0-8.911



Date: 22.OCT.2020 16:53:20

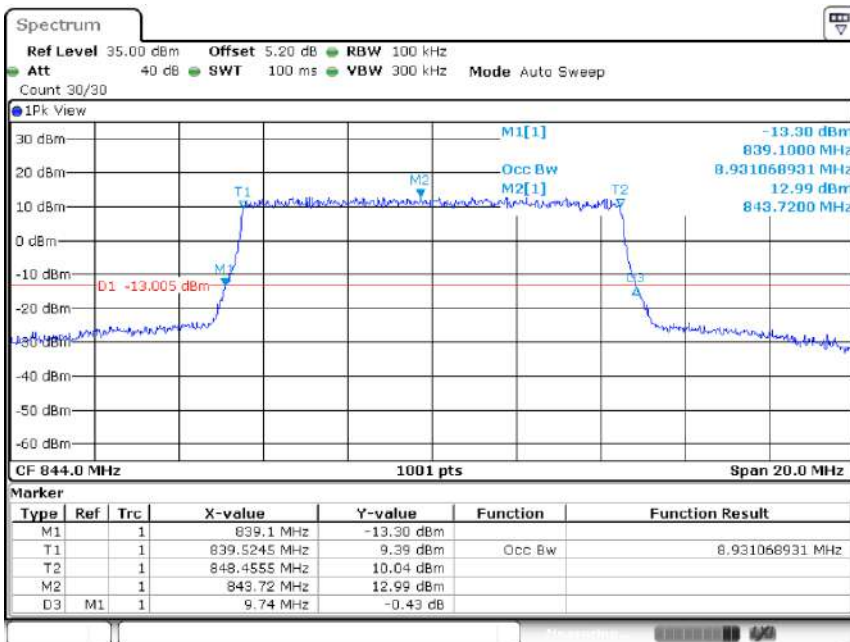
Band5-10MHz-64QAM-20525-50RB#0-8.911



Date: 22.OCT.2020 16:53:36



Band5-10MHz-64QAM-20600-50RB#0-8.931



Date: 22.OCT.2020 16:53:52

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

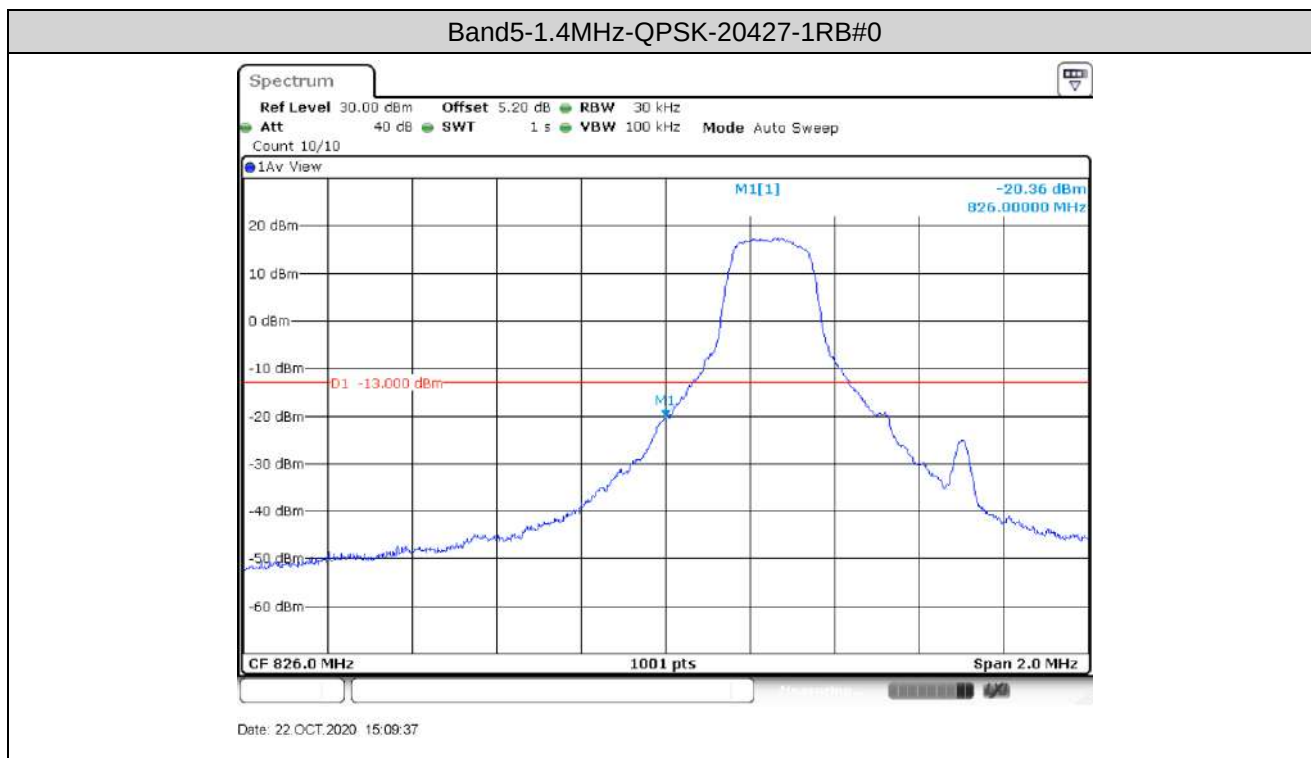
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

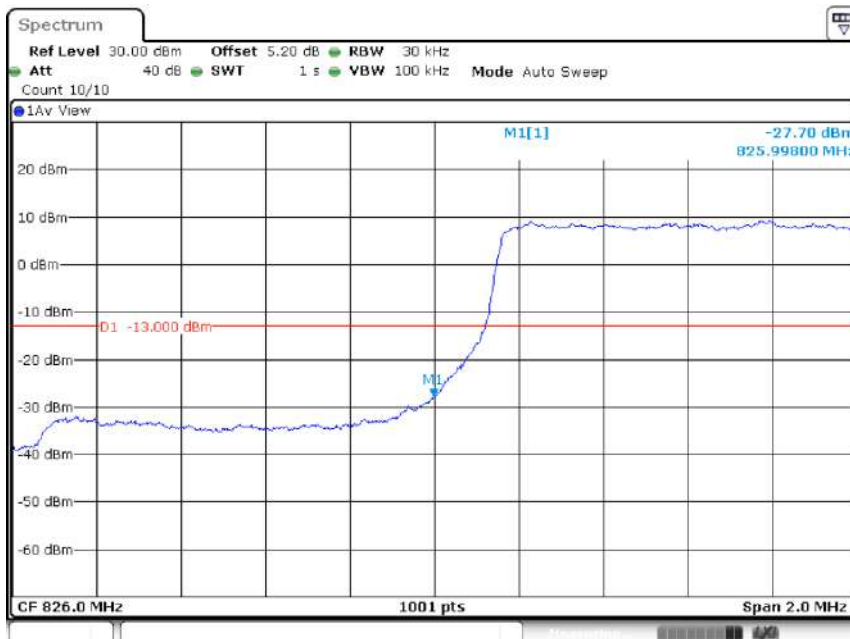
5.1 Test Plots



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

Band5-1.4MHz-QPSK-20427-6RB#0



Date: 22.OCT.2020 15:10:24

Band5-1.4MHz-QPSK-20643-1RB#5



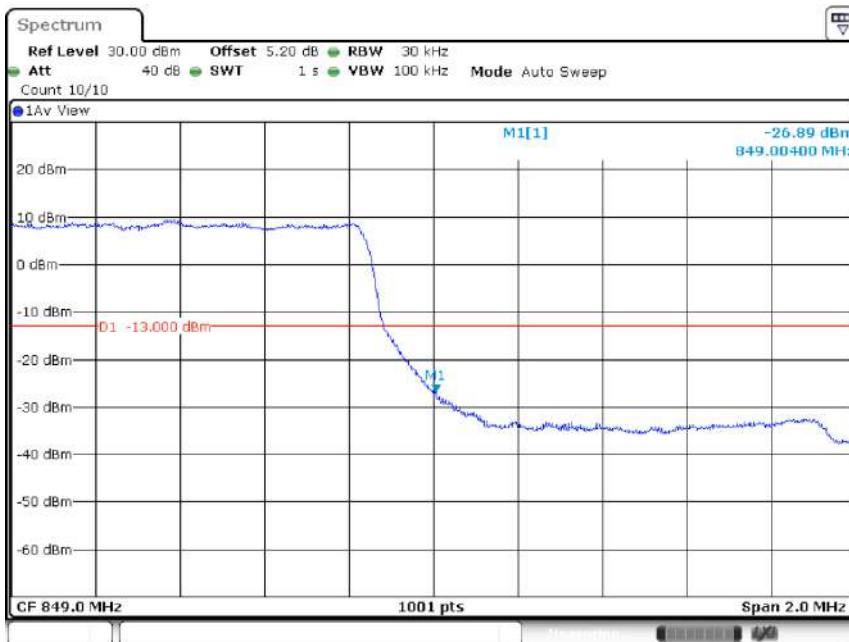
Date: 22.OCT.2020 15:11:19



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.

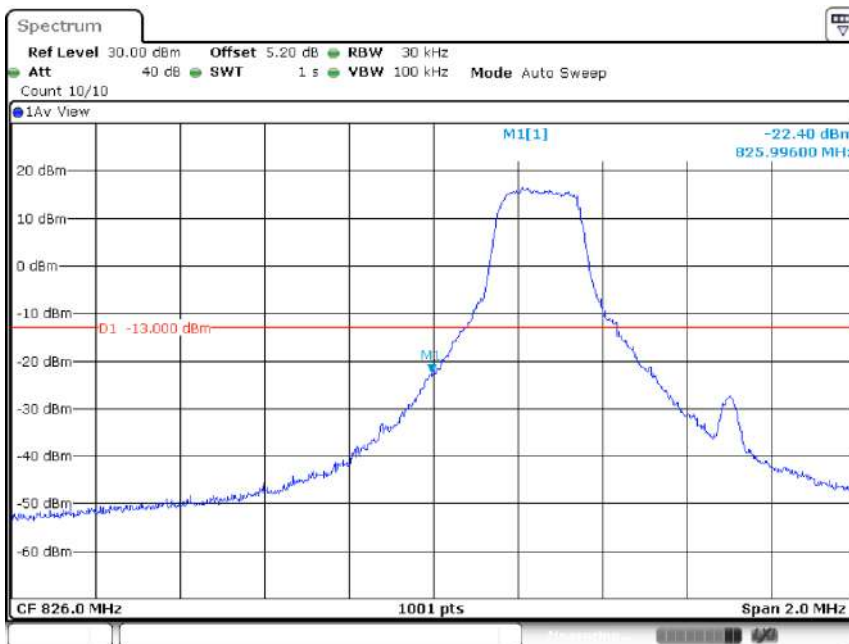
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-1.4MHz-QPSK-20643-6RB#0



Date: 22.OCT.2020 15:12:06

Band5-1.4MHz-16QAM-20427-1RB#0



Date: 22.OCT.2020 15:10:00



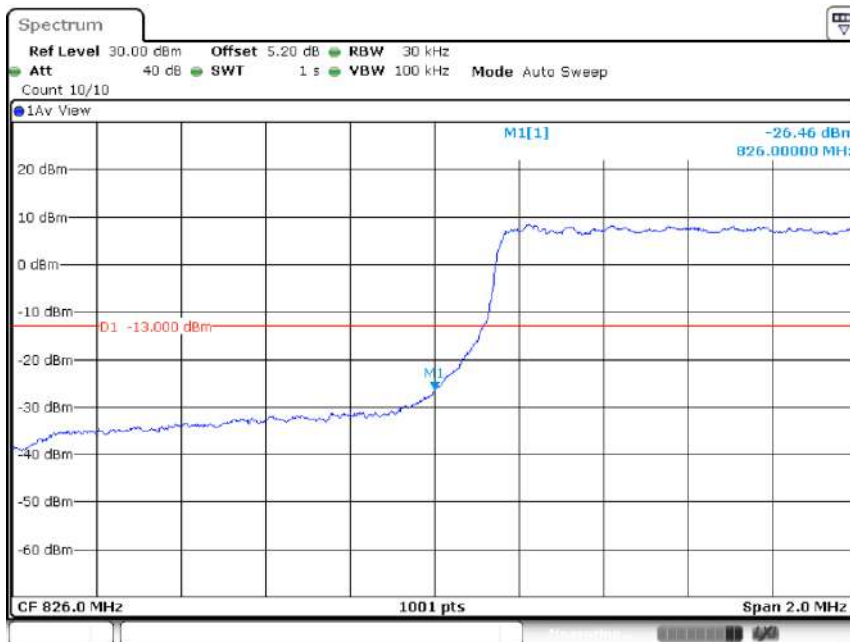
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

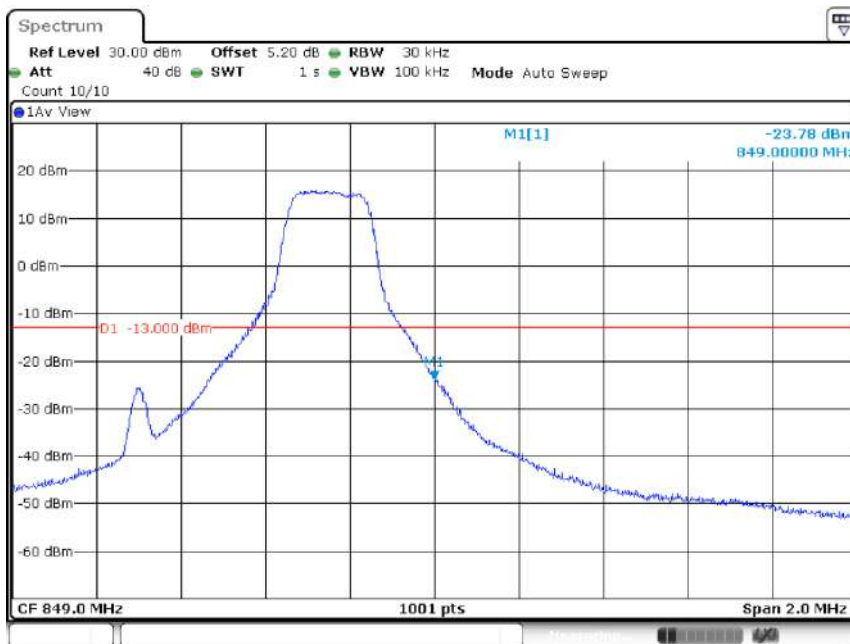
Member of the SGS Group (SGS SA)

Band5-1.4MHz-16QAM-20427-6RB#0



Date: 22.OCT.2020 15:10:47

Band5-1.4MHz-16QAM-20643-1RB#5



Date: 22.OCT.2020 15:11:42



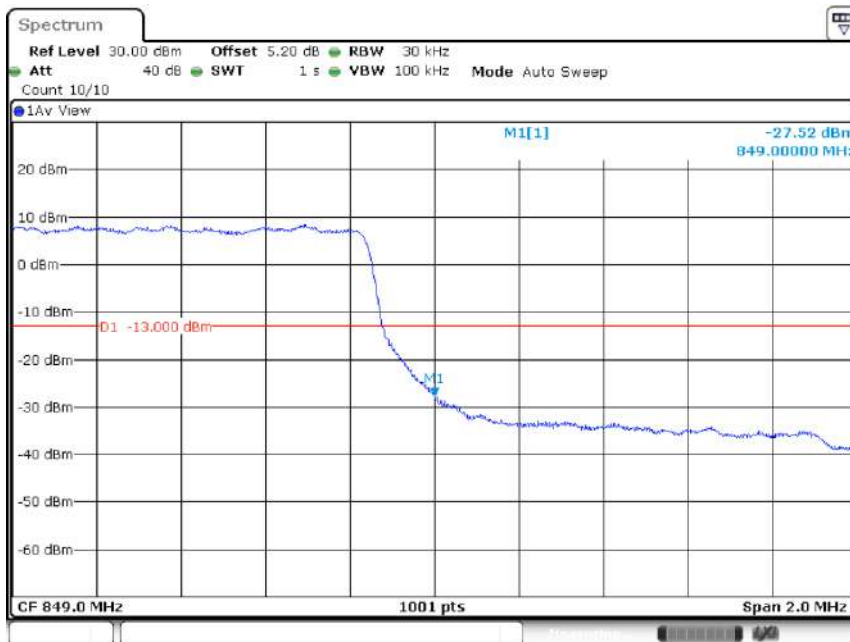
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

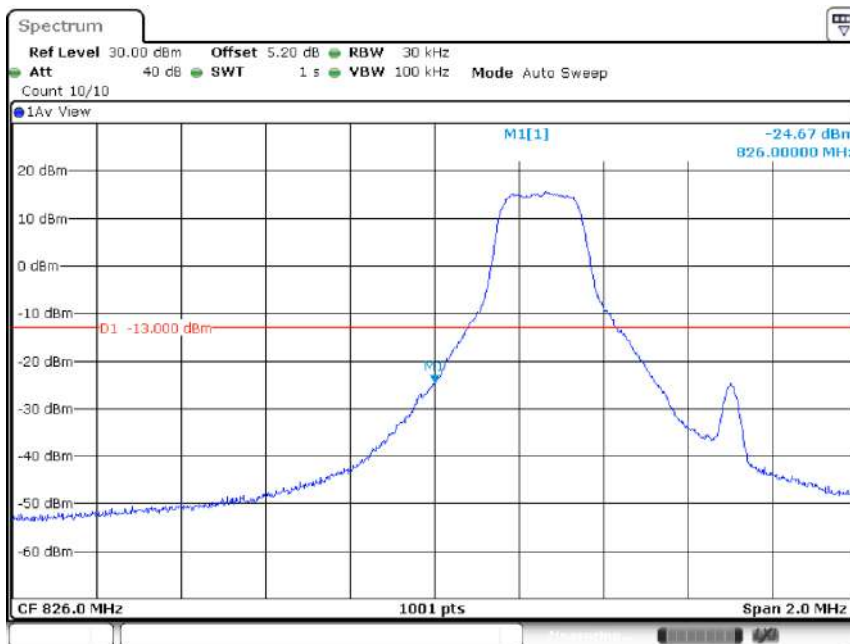
Member of the SGS Group (SGS SA)

Band5-1.4MHz-16QAM-20643-6RB#0



Date: 22.OCT.2020 15:12:30

Band5-1.4MHz-64QAM-20427-1RB#0



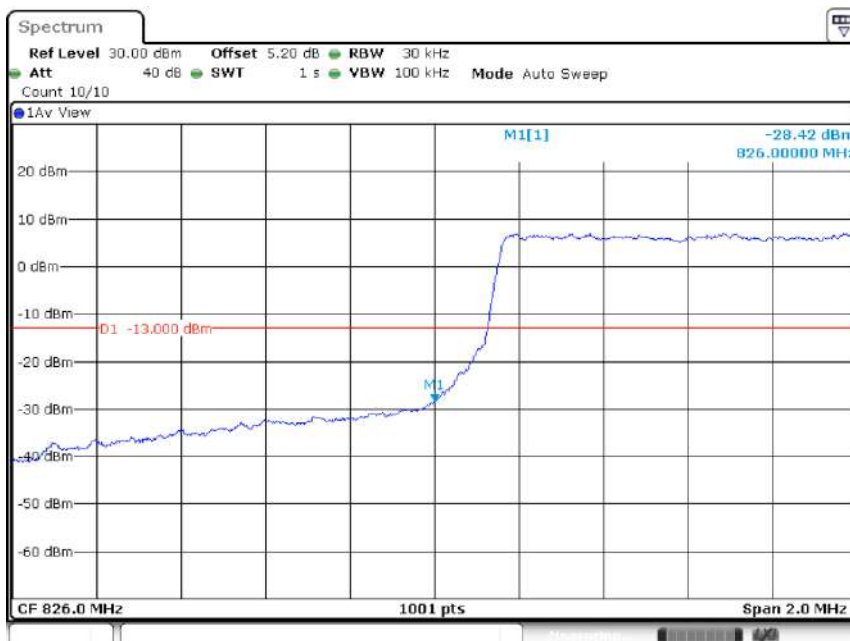
Date: 22.OCT.2020 16:54:26



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

Band5-1.4MHz-64QAM-20427-6RB#0



Date: 22.OCT.2020 16:54:50

Band5-1.4MHz-64QAM-20643-1RB#5



Date: 22.OCT.2020 16:55:22

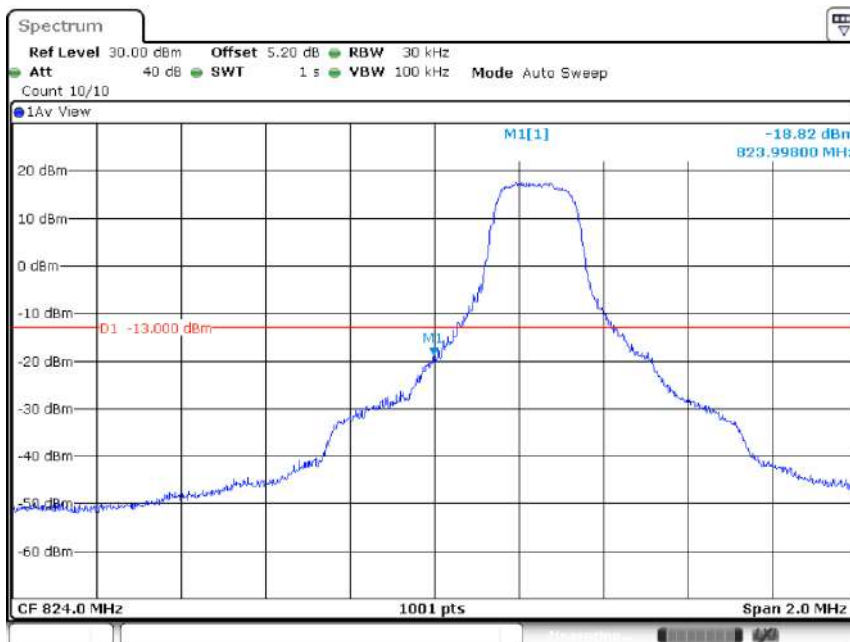


Band5-1.4MHz-64QAM-20643-6RB#0



Date: 22.OCT.2020 16:55:45

Band5-3MHz-QPSK-20415-1RB#0



Date: 22.OCT.2020 15:13:03

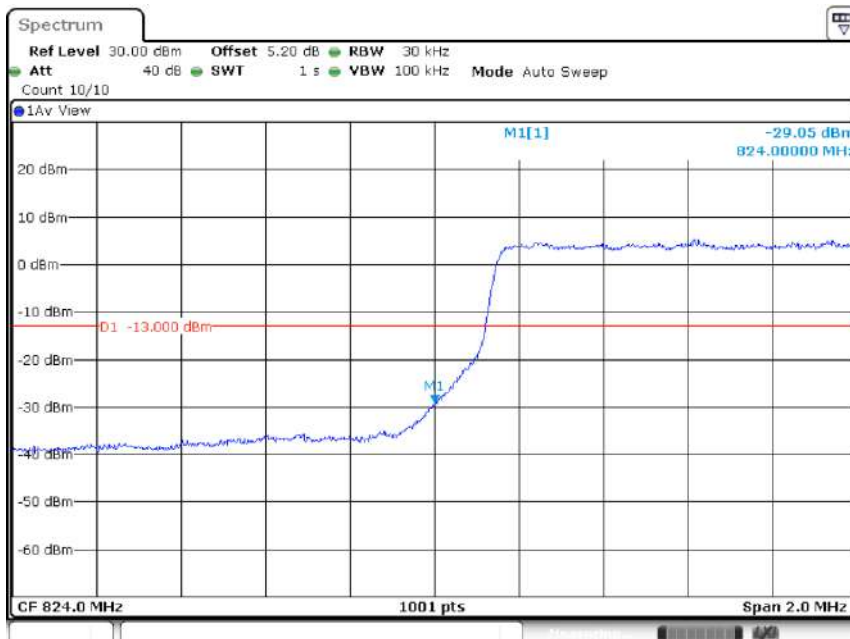


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

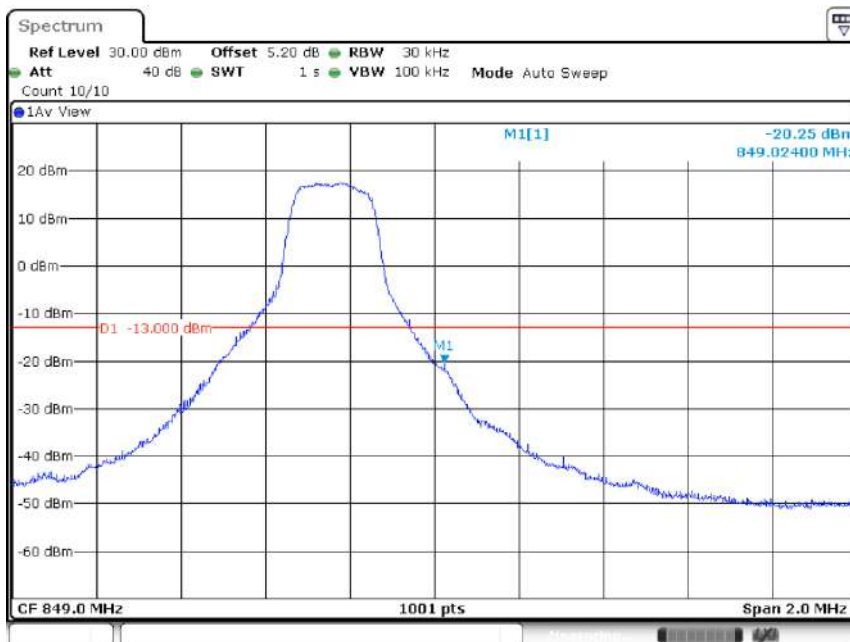
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-3MHz-QPSK-20415-15RB#0



Date: 22.OCT.2020 15:13:50

Band5-3MHz-QPSK-20635-1RB#14



Date: 22.OCT.2020 15:14:45



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

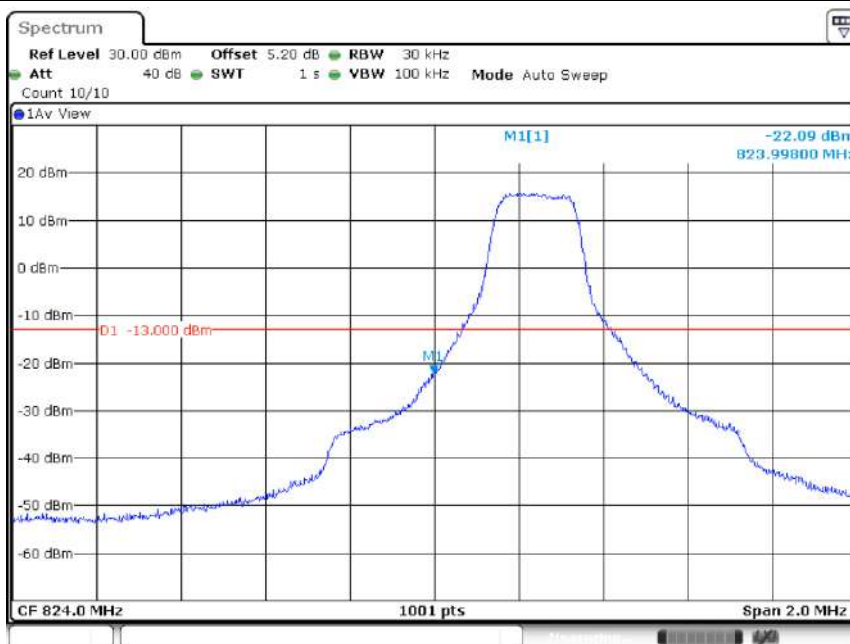
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn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

Band5-3MHz-QPSK-20635-15RB#0



Date: 22.OCT.2020 15:15:32

Band5-3MHz-16QAM-20415-1RB#0



Date: 22.OCT.2020 15:13:26



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

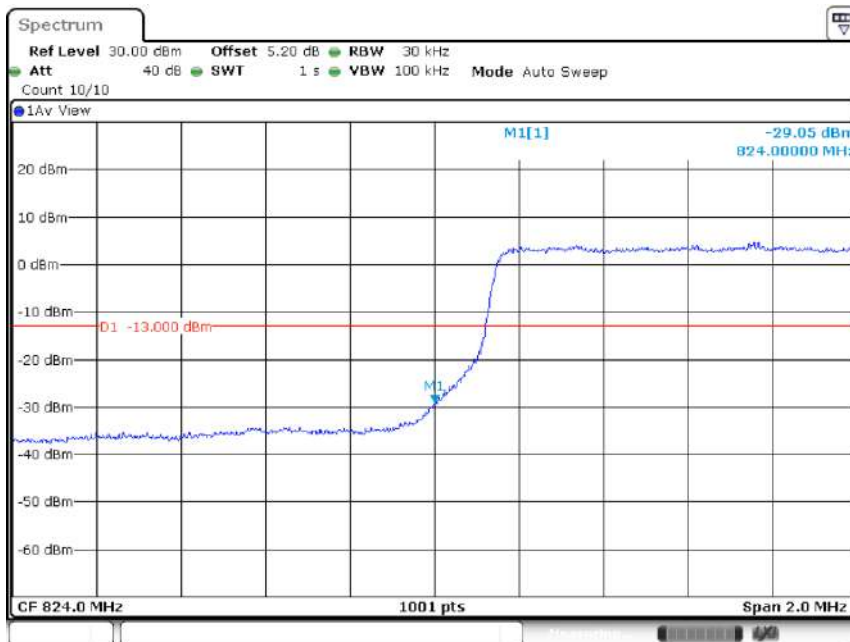
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

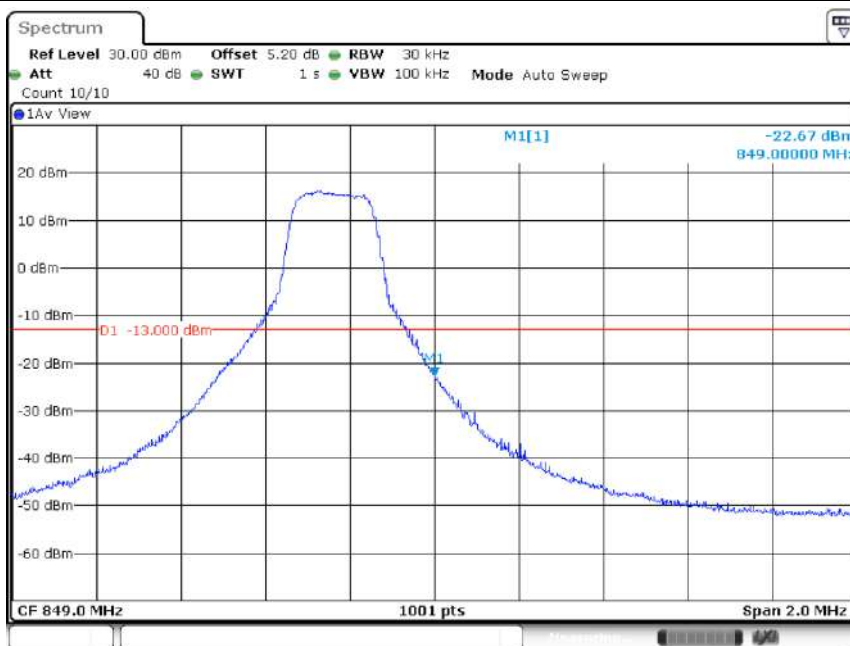
Member of the SGS Group (SGS SA)

Band5-3MHz-16QAM-20415-15RB#0



Date: 22.OCT.2020 15:14:13

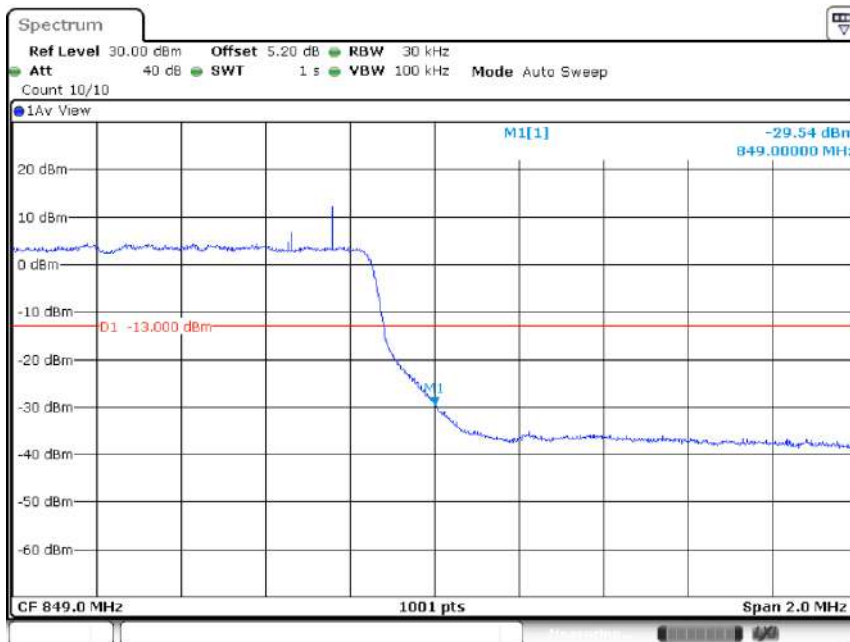
Band5-3MHz-16QAM-20635-1RB#14



Date: 22.OCT.2020 15:15:08

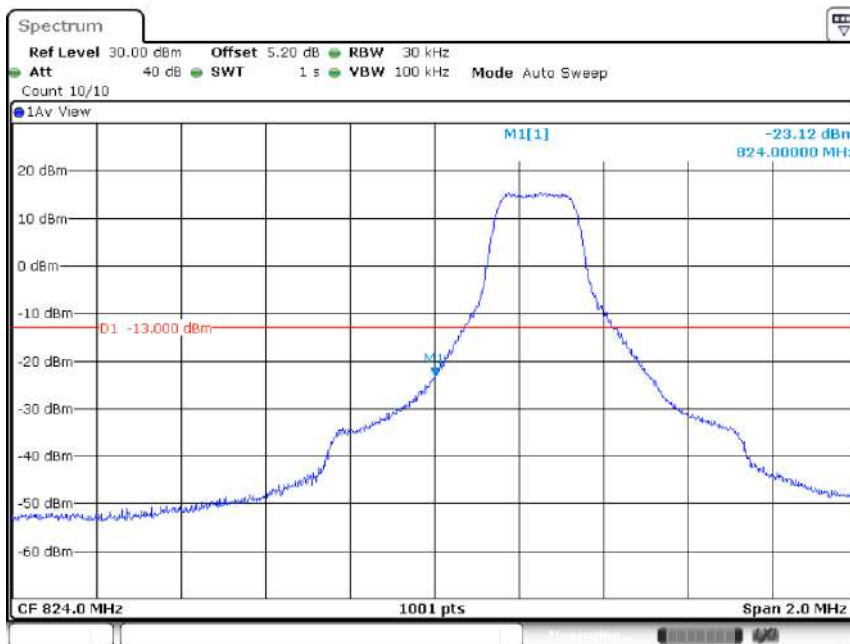


Band5-3MHz-16QAM-20635-15RB#0



Date: 22.OCT.2020 15:15:55

Band5-3MHz-64QAM-20415-1RB#0



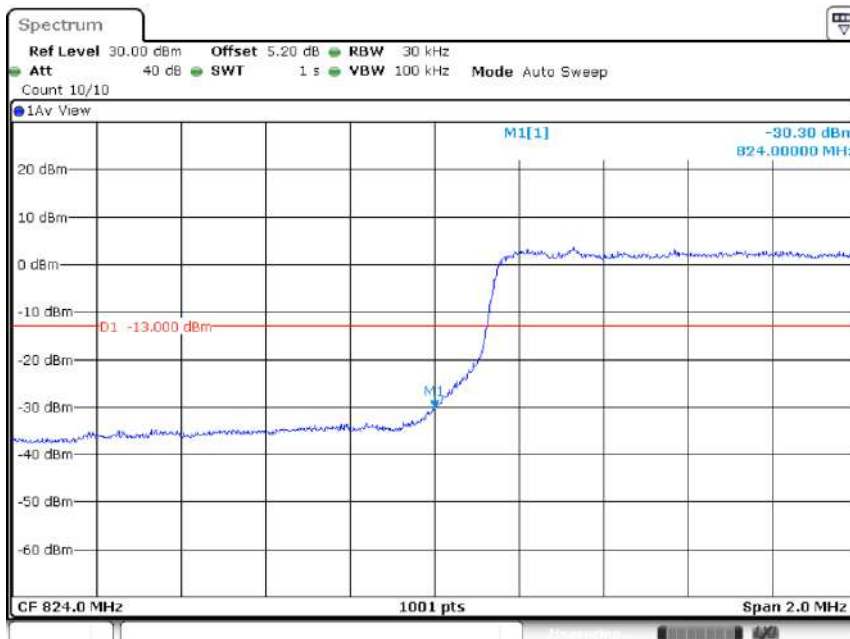
Date: 22.OCT.2020 16:56:19



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

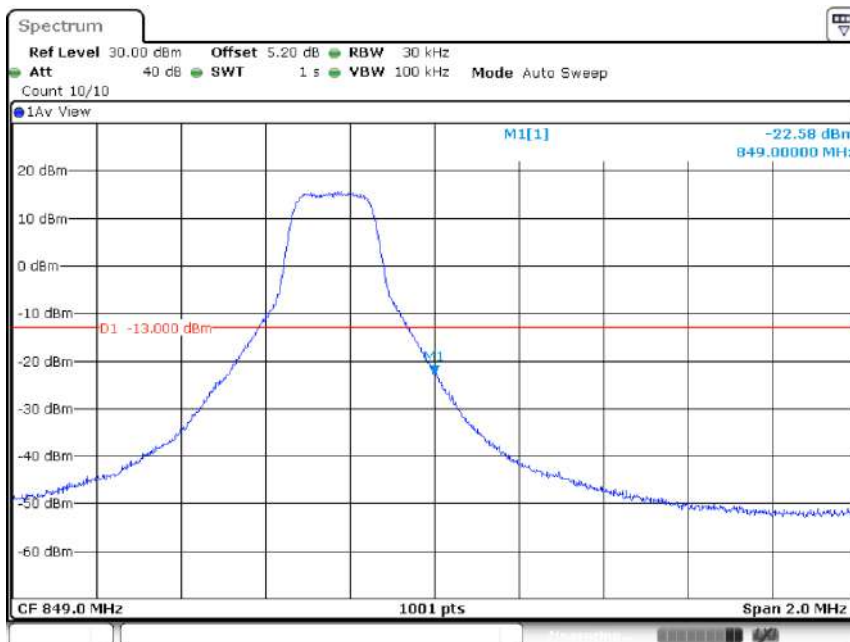
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn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

Band5-3MHz-64QAM-20415-15RB#0



Date: 22.OCT.2020 16:56:43

Band5-3MHz-64QAM-20635-1RB#14



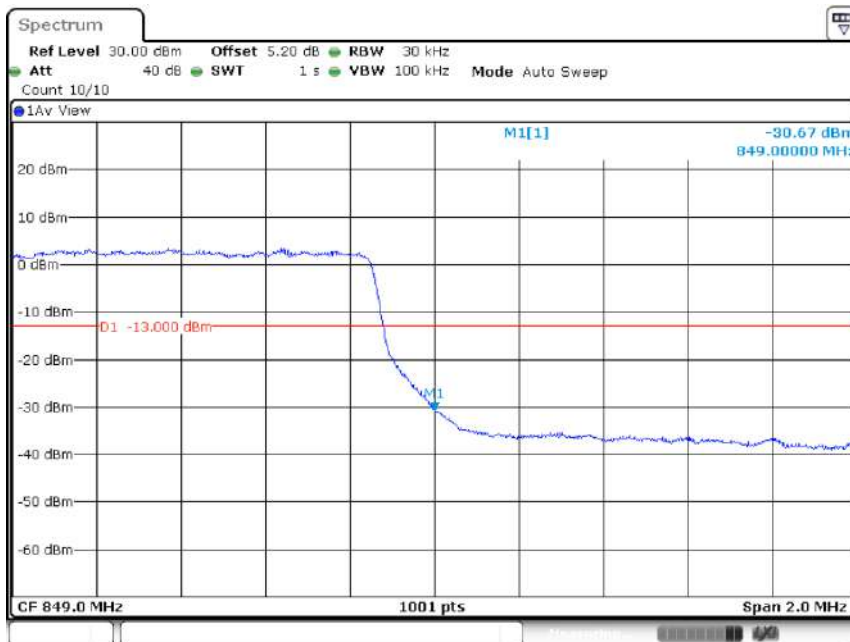
Date: 22.OCT.2020 16:57:15



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

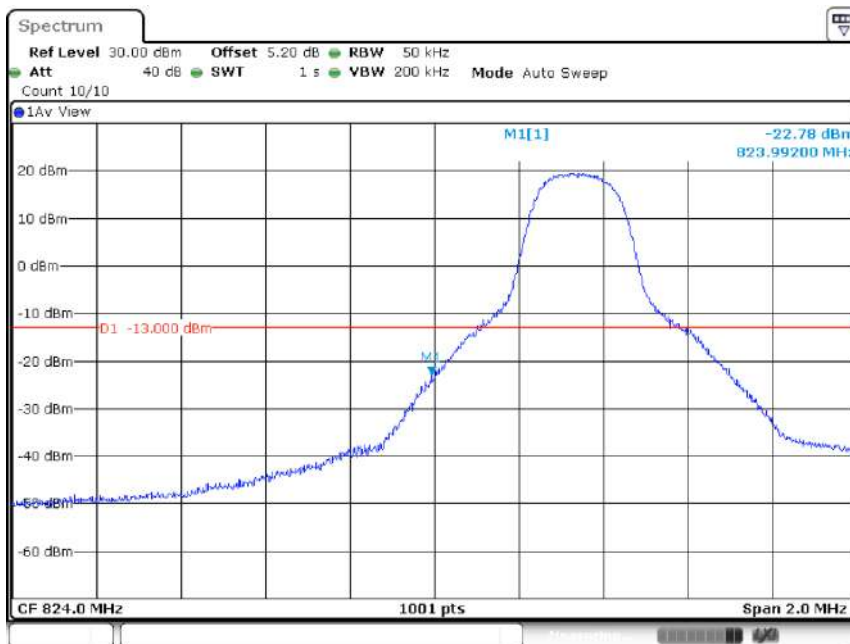
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn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

Band5-3MHz-64QAM-20635-15RB#0



Date: 22.OCT.2020 16:57:38

Band5-5MHz-QPSK-20425-1RB#0



Date: 22.OCT.2020 15:16:28



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

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

Band5-5MHz-QPSK-20425-25RB#0



Date: 22.OCT.2020 15:17:15

Band5-5MHz-QPSK-20625-1RB#24



Date: 22.OCT.2020 15:18:10

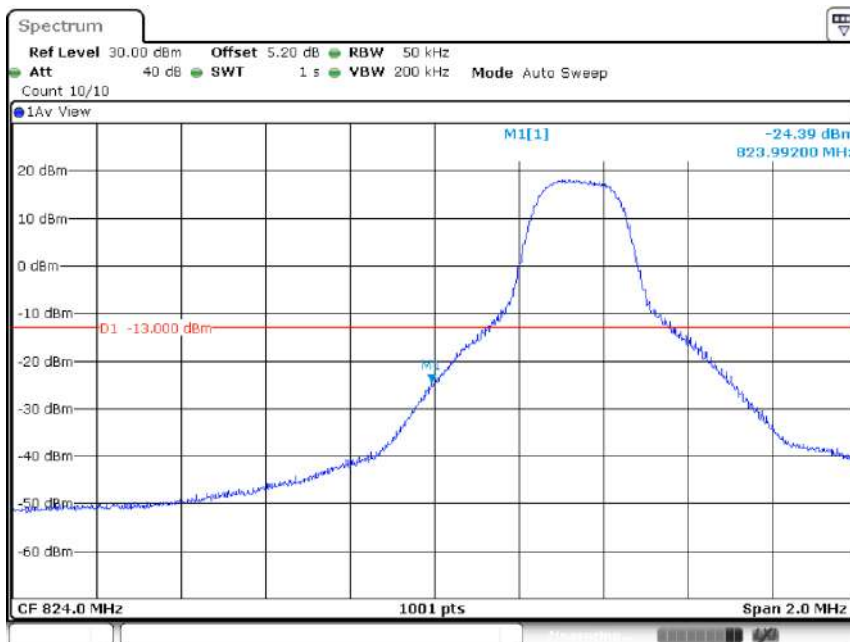


Band5-5MHz-QPSK-20625-25RB#0



Date: 22.OCT.2020 15:18:57

Band5-5MHz-16QAM-20425-1RB#0



Date: 22.OCT.2020 15:16:51



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

Band5-5MHz-16QAM-20425-25RB#0



Date: 22.OCT.2020 15:17:38

Band5-5MHz-16QAM-20625-1RB#24



Date: 22.OCT.2020 15:18:33

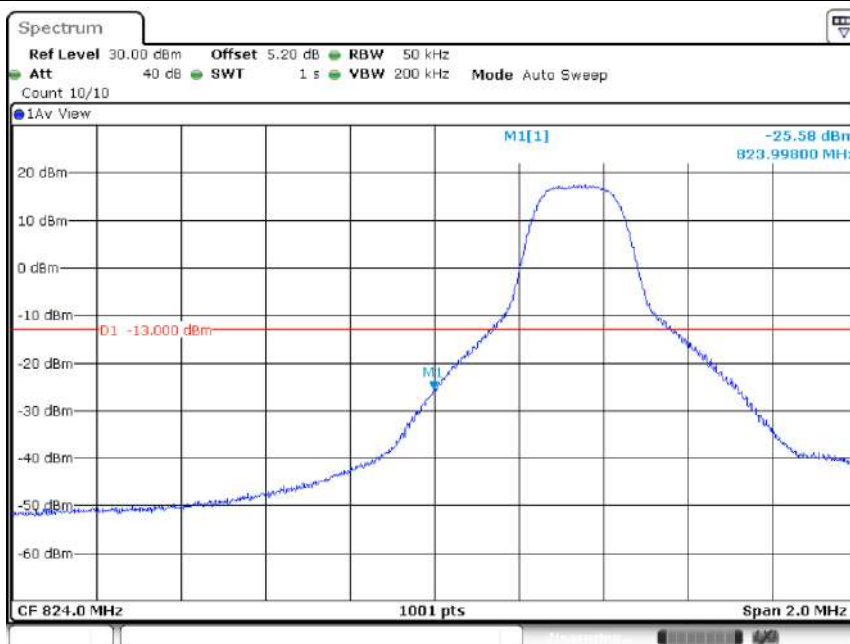


Band5-5MHz-16QAM-20625-25RB#0



Date: 22.OCT.2020 15:19:20

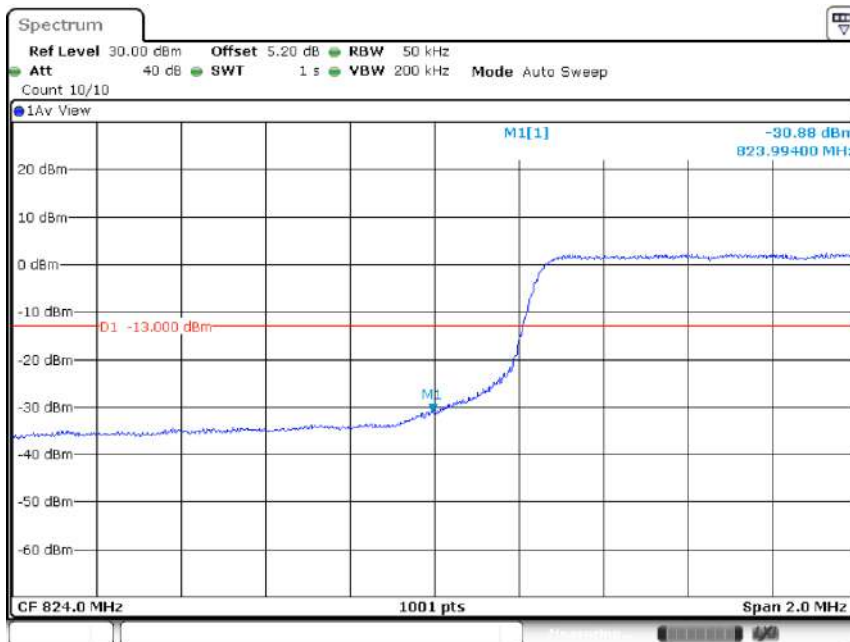
Band5-5MHz-64QAM-20425-1RB#0



Date: 22.OCT.2020 16:58:12

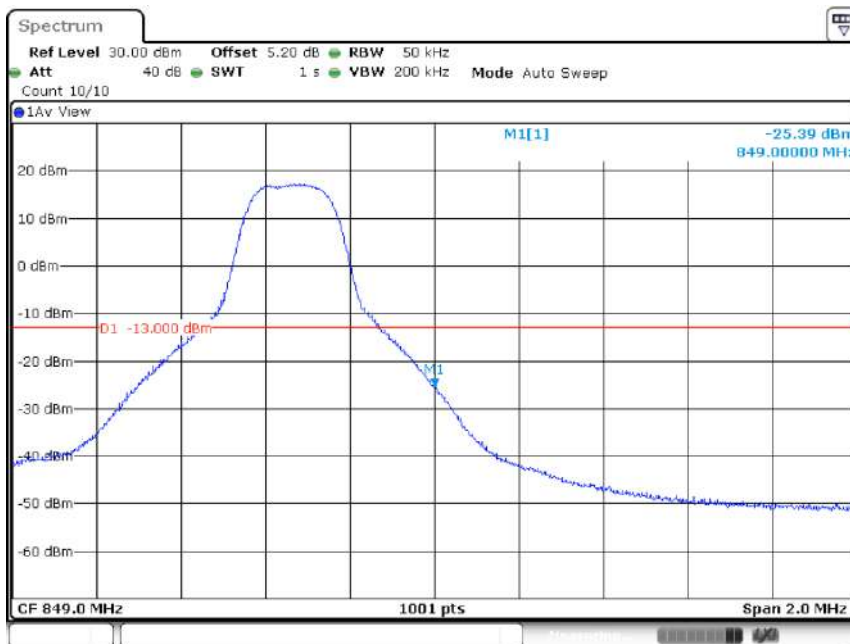


Band5-5MHz-64QAM-20425-25RB#0



Date: 22.OCT.2020 16:58:36

Band5-5MHz-64QAM-20625-1RB#24



Date: 22.OCT.2020 16:59:08



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

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

Band5-5MHz-64QAM-20625-25RB#0



Date: 22.OCT.2020 16:59:31

Band5-10MHz-QPSK-20450-1RB#0



Date: 22.OCT.2020 15:19:53



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

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

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

Band5-10MHz-QPSK-20450-50RB#0



Date: 22.OCT.2020 15:20:41

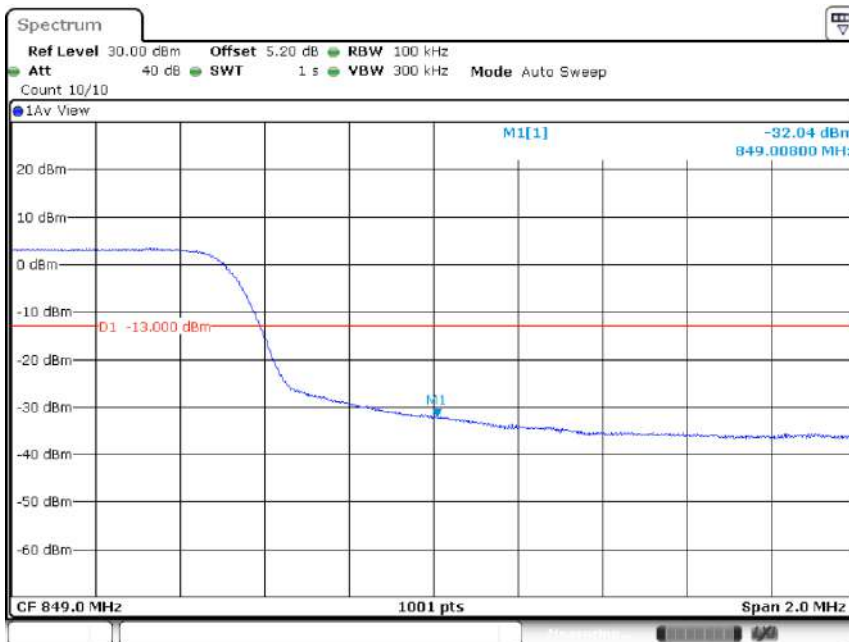
Band5-10MHz-QPSK-20600-1RB#49



Date: 22.OCT.2020 15:21:35



Band5-10MHz-QPSK-20600-50RB#0



Date: 22.OCT.2020 15:22:23

Band5-10MHz-16QAM-20450-1RB#0



Date: 22.OCT.2020 15:20:17



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

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

Band5-10MHz-16QAM-20450-50RB#0



Date: 22.OCT.2020 15:21:04

Band5-10MHz-16QAM-20600-1RB#49



Date: 22.OCT.2020 15:21:59

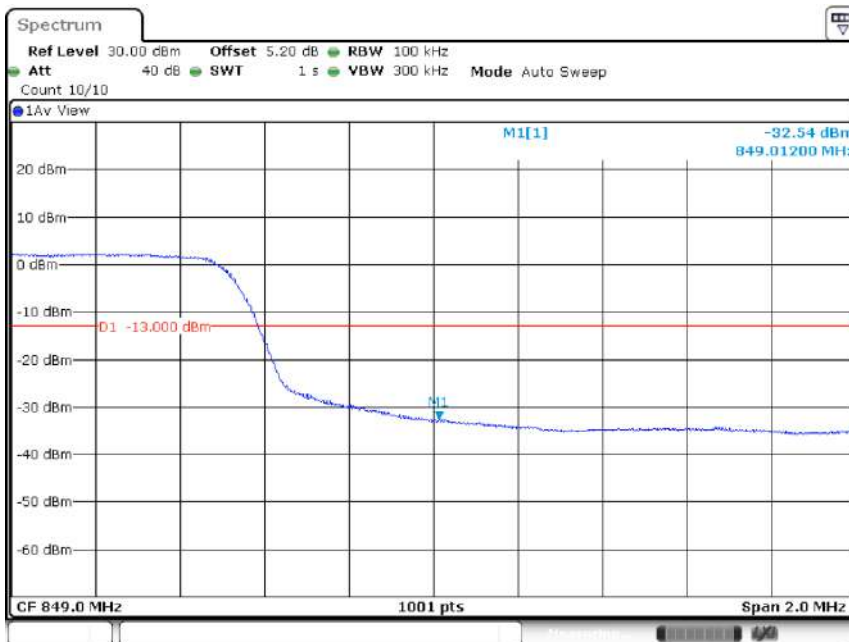


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

Band5-10MHz-16QAM-20600-50RB#0



Date: 22.OCT.2020 15:22:46

Band5-10MHz-64QAM-20450-1RB#0



Date: 22.OCT.2020 17:00:05



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

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

Band5-10MHz-64QAM-20450-50RB#0



Date: 22.OCT.2020 17:00:29

Band5-10MHz-64QAM-20600-1RB#49



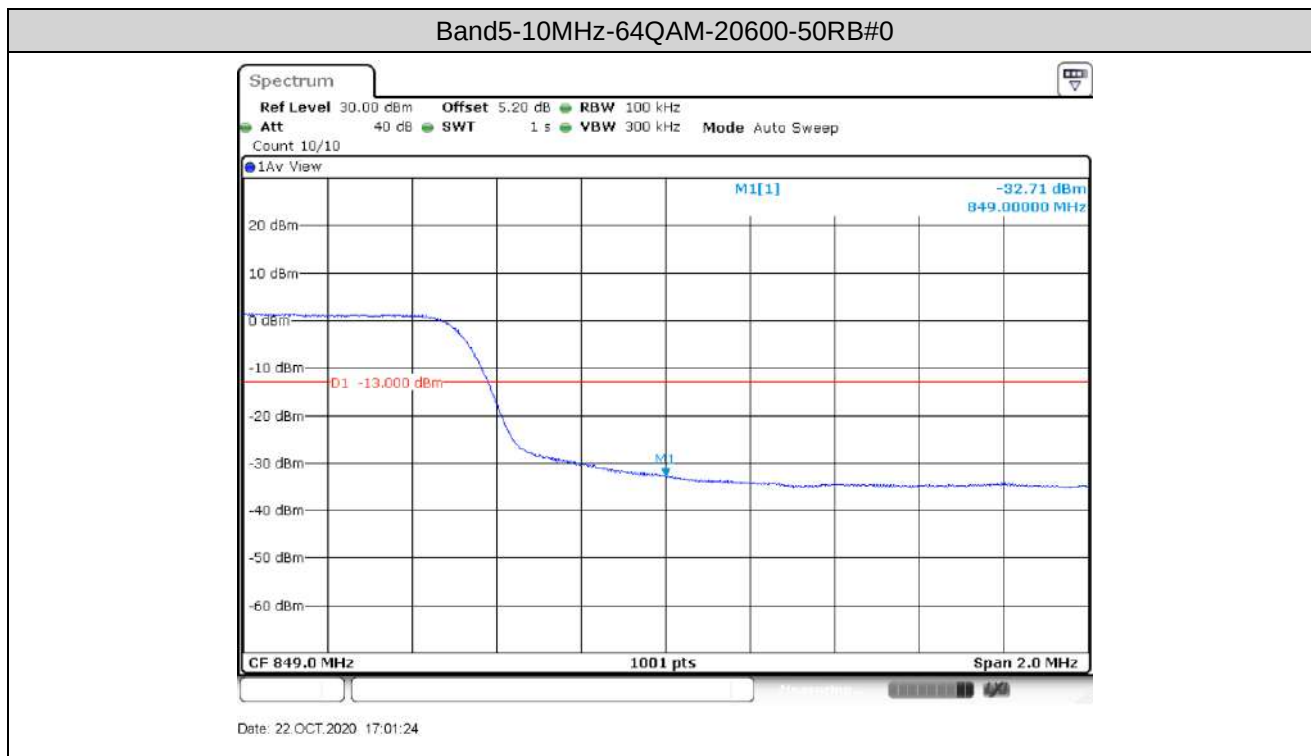
Date: 22.OCT.2020 17:01:01



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

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

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



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.

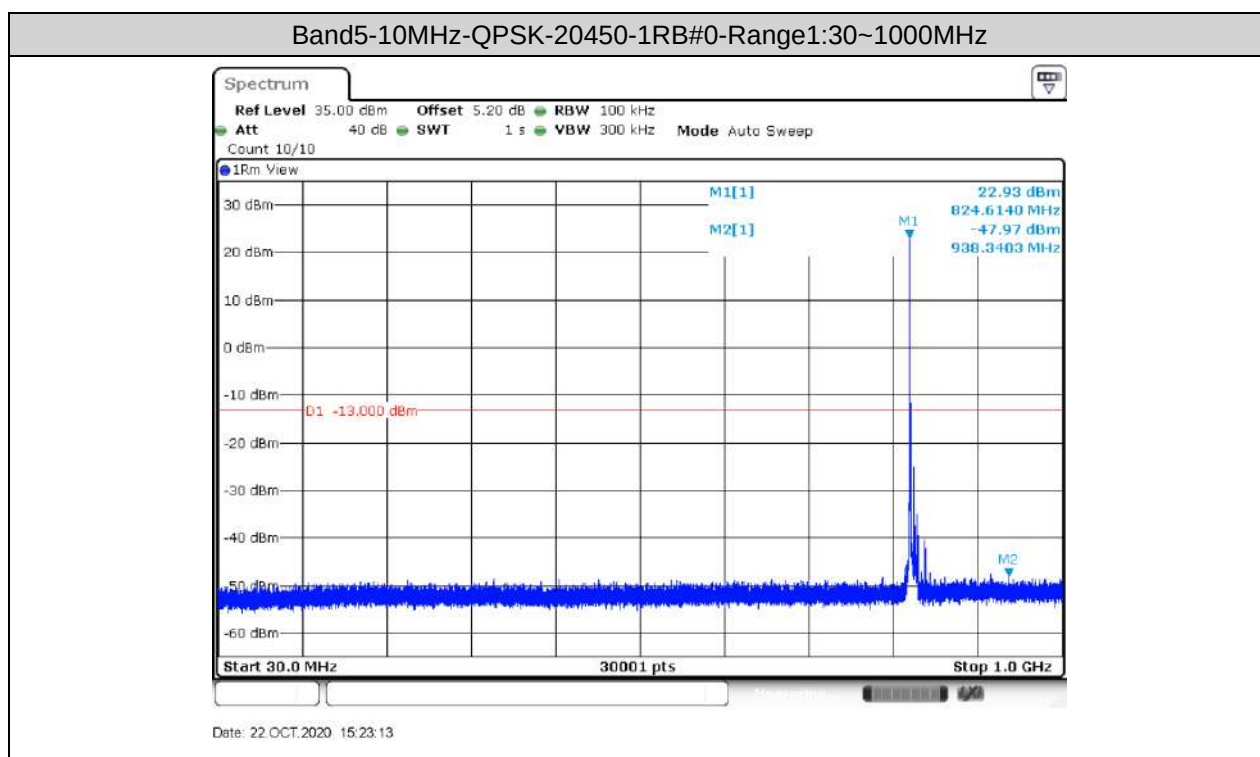
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

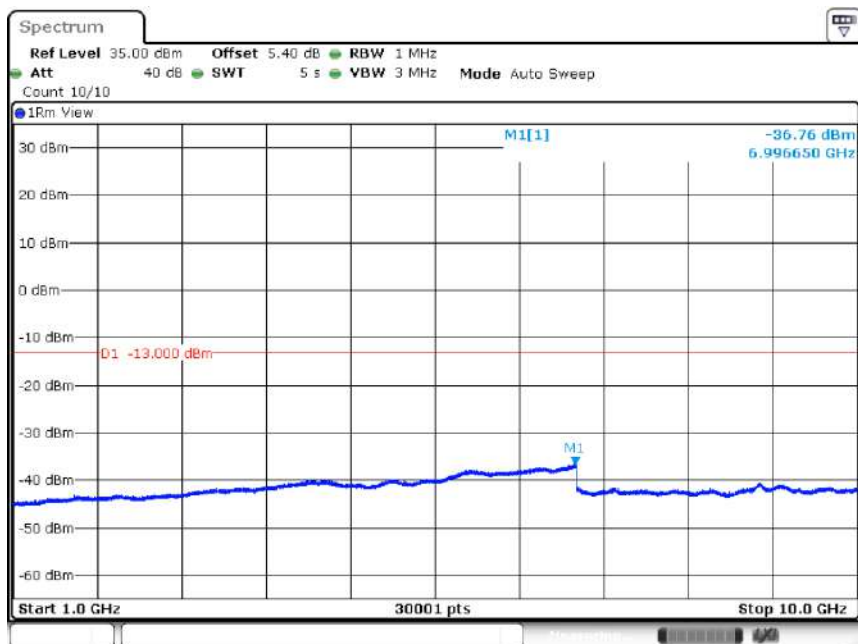
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

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

6.1 Test Plots

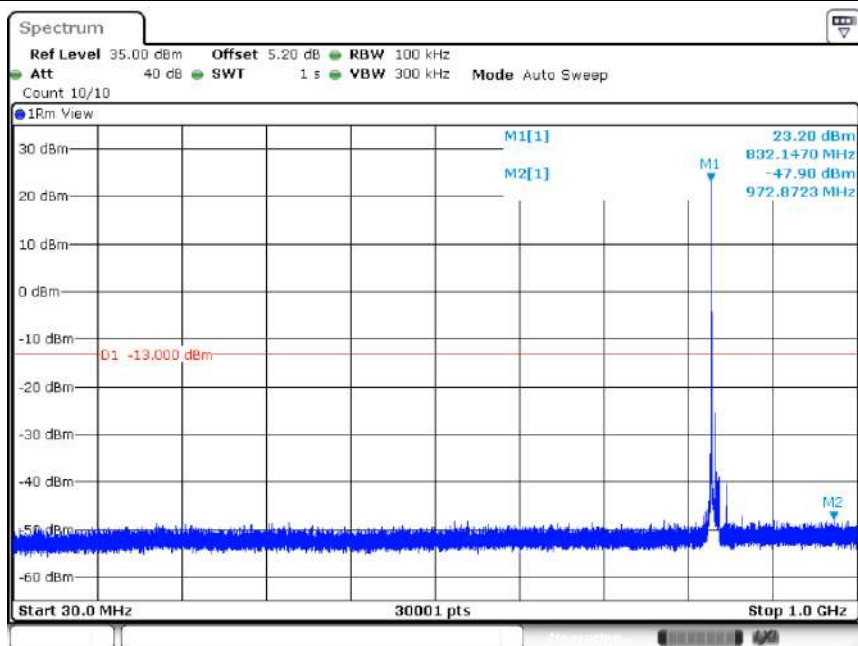


Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 15:24:22

Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 15:26:16

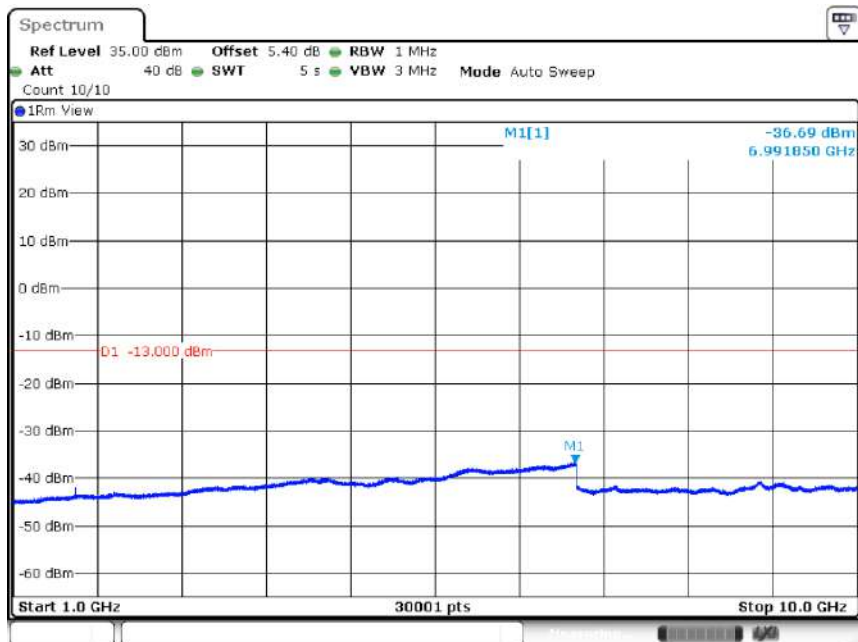


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

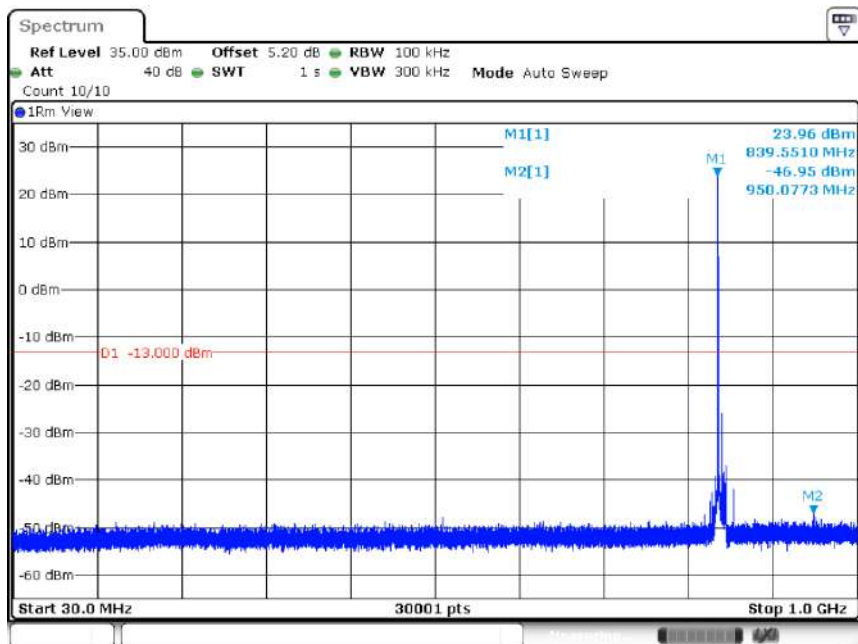
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 15:27:24

Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 15:29:18

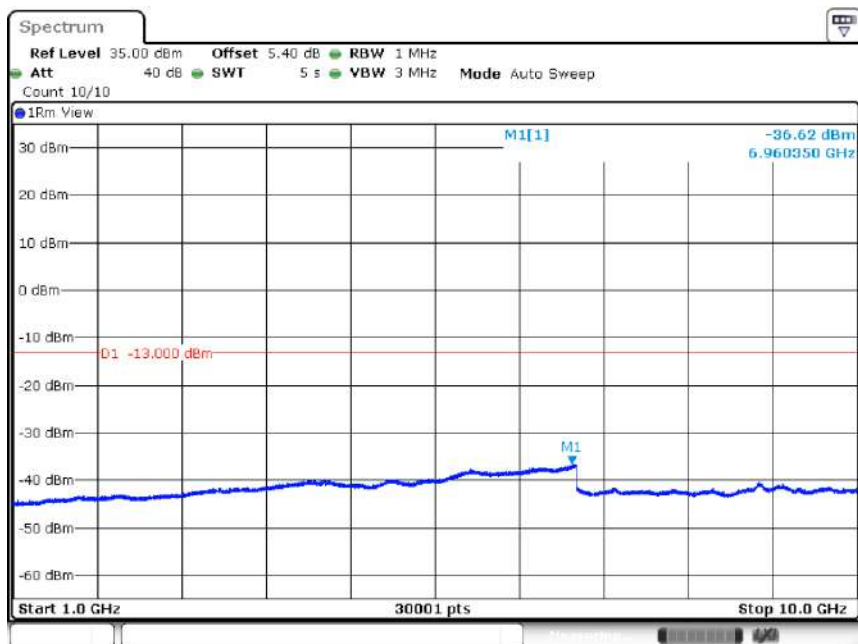


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

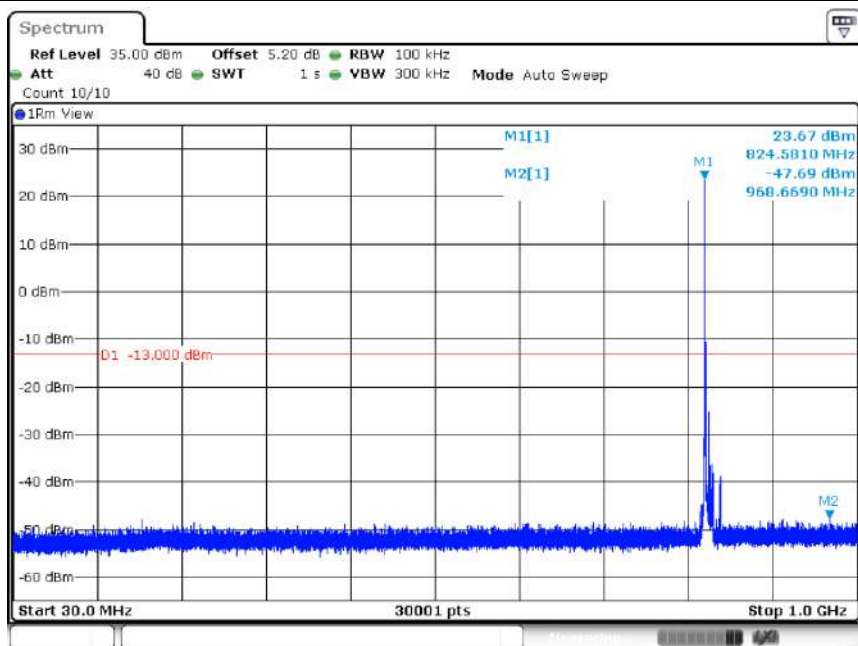
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 15:30:26

Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 15:24:44



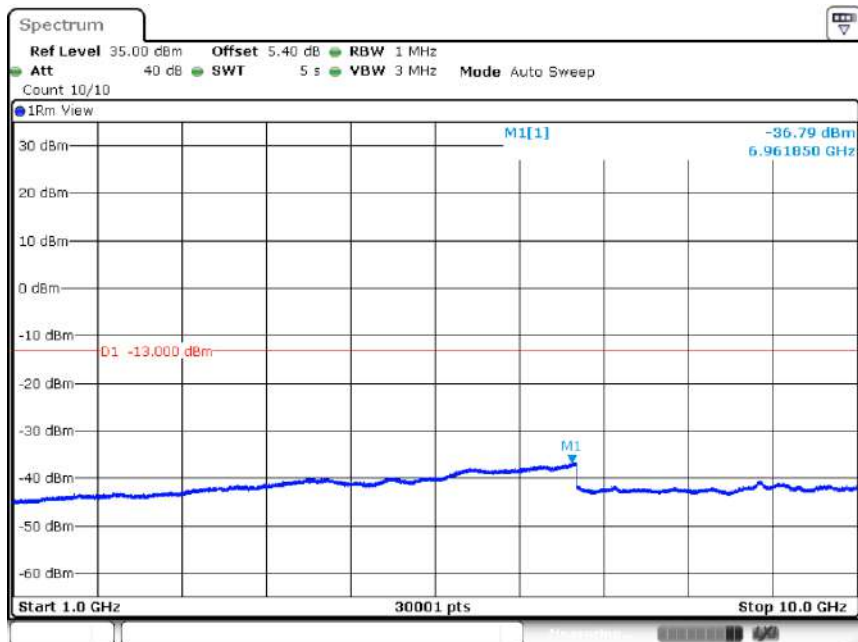
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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

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

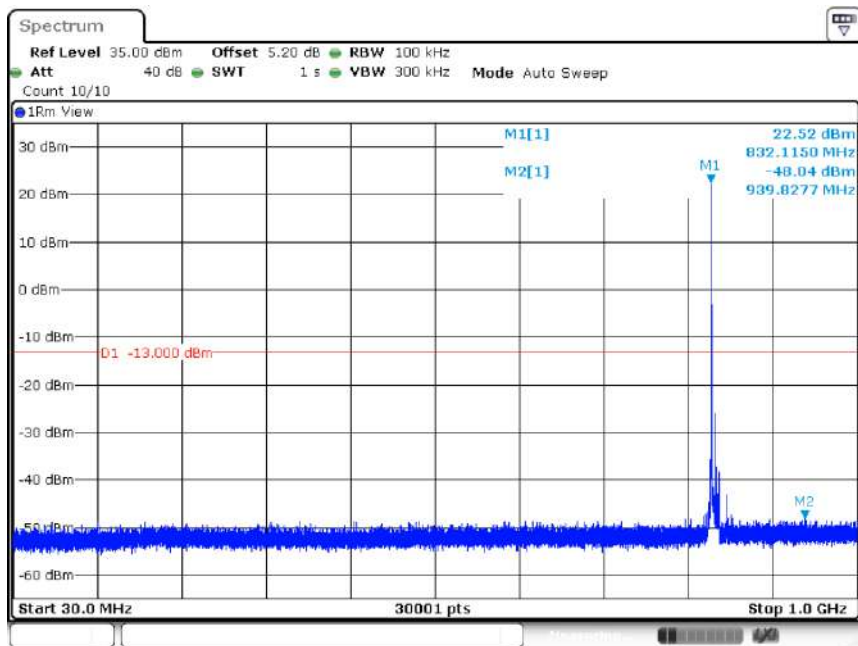
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 15:25:53

Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 15:27:47

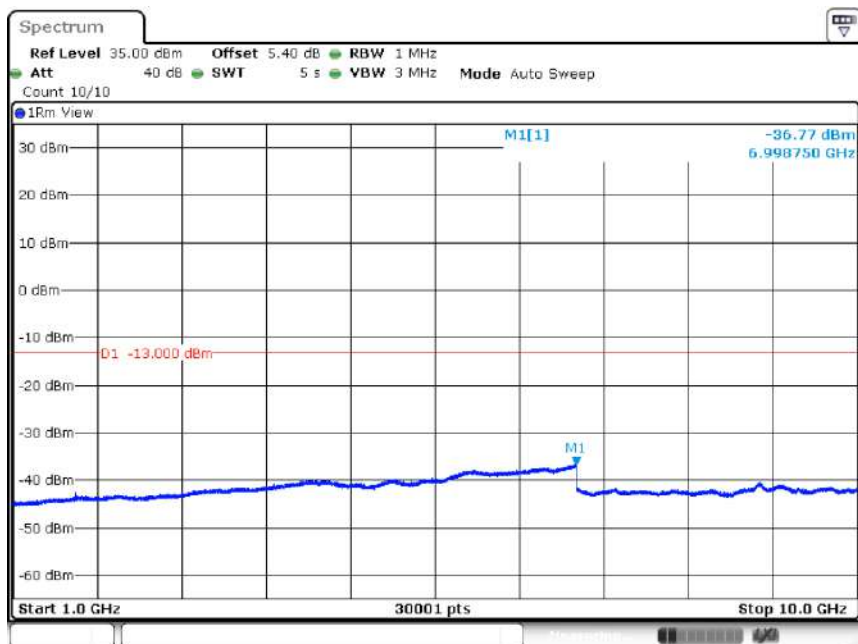


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

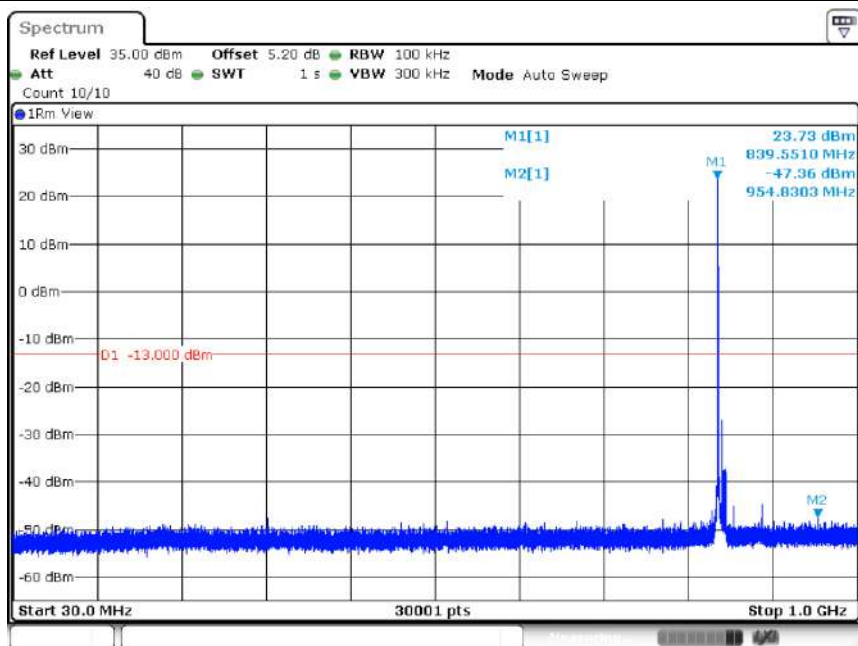
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 15:28:55

Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 15:30:48

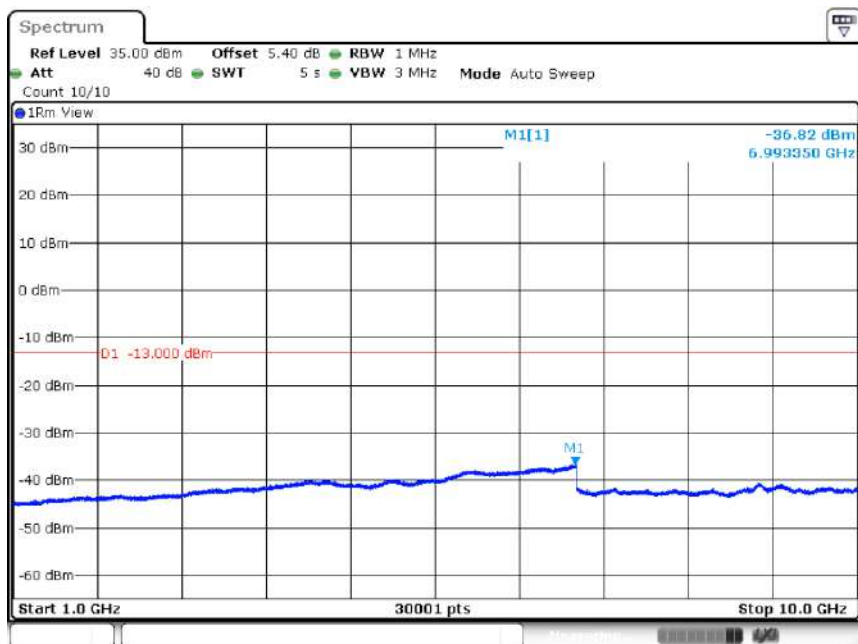


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

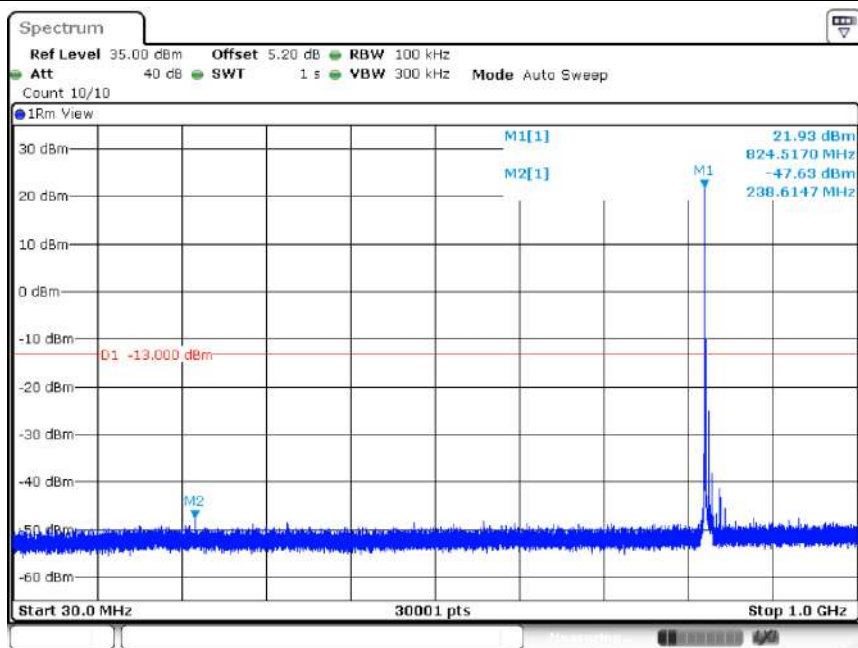
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 15:31:57

Band5-10MHz-64QAM-20450-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 17:01:52

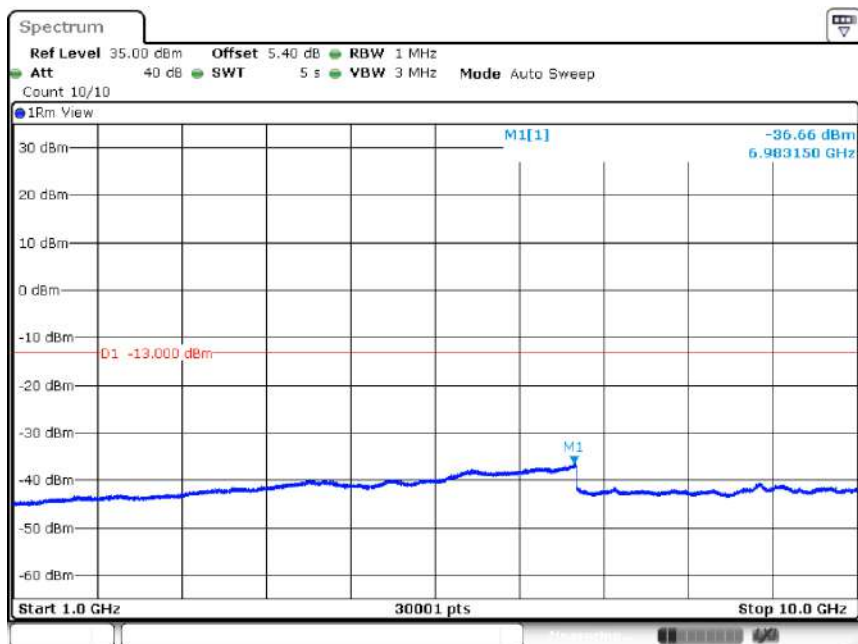


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

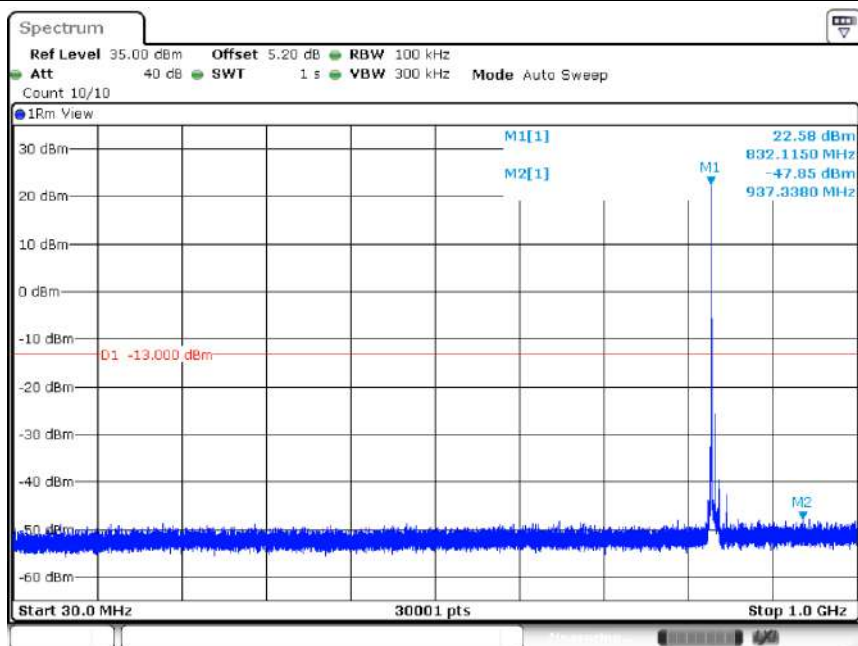
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-10MHz-64QAM-20450-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 17:03:01

Band5-10MHz-64QAM-20525-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 17:03:23

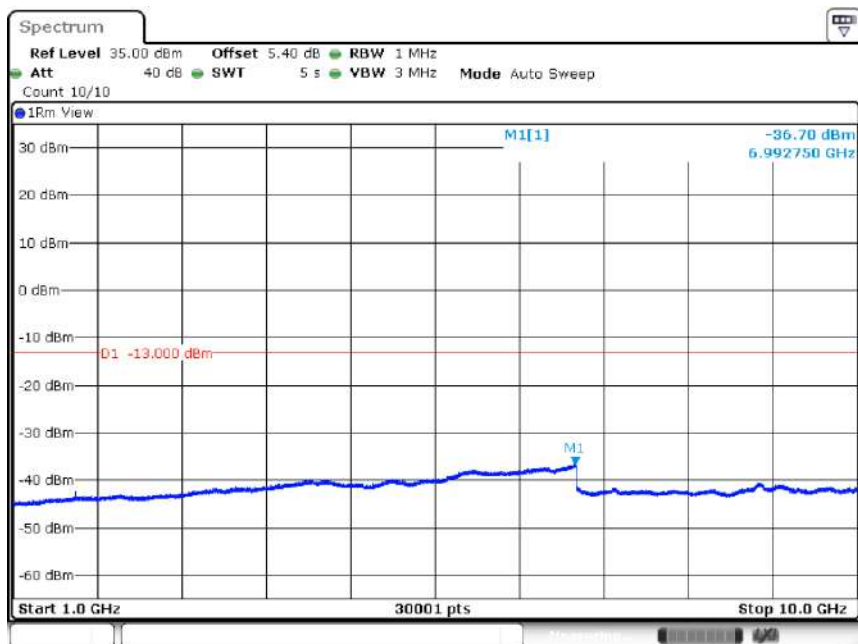


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

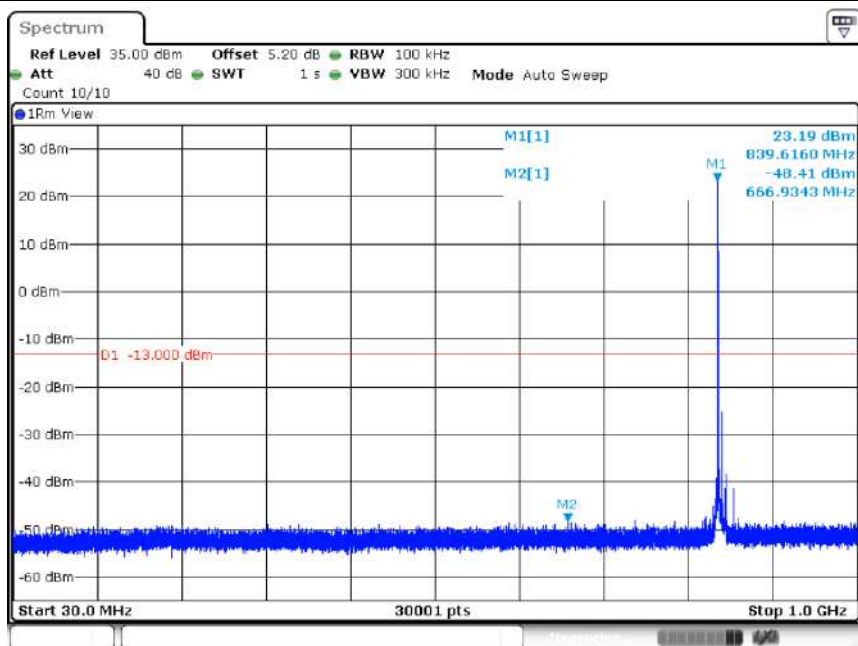
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-10MHz-64QAM-20525-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 17:04:32

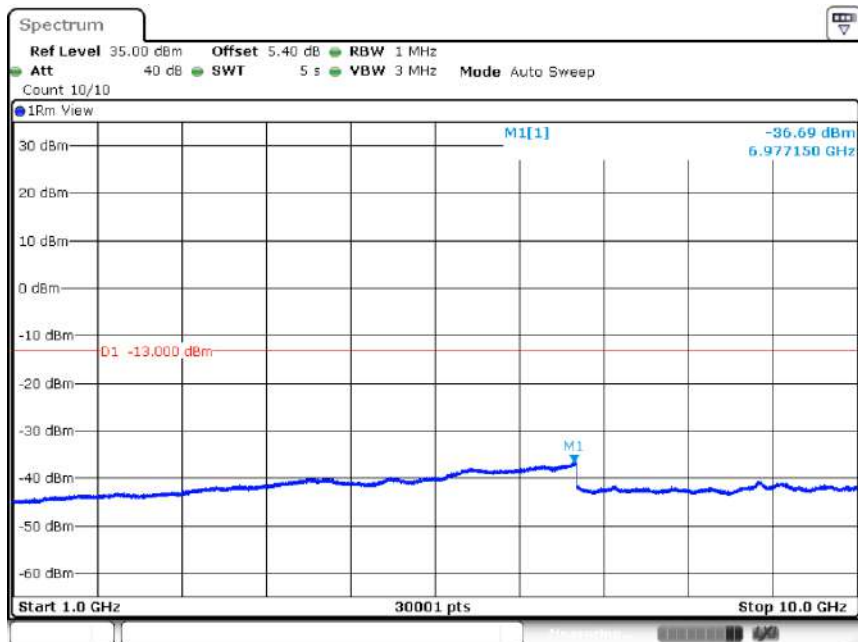
Band5-10MHz-64QAM-20600-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 17:04:54



Band5-10MHz-64QAM-20600-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 17:06:03



7 Field Strength of Spurious Radiation

7.1 Test Band = LTE_5_TM1

7.1.1 Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.2825	-68.67	-61.90	-13.00	48.90	174	230	Horizontal
2	102.4626	-67.57	-72.21	-13.00	59.21	185	261	Horizontal
3	232.3036	-67.33	-64.51	-13.00	51.51	196	40	Horizontal
4	1649.3299	-61.23	-57.18	-13.00	44.18	321	148	Horizontal
5	2473.8948	-57.32	-46.49	-13.00	33.49	215	327	Horizontal
6	4123.0708	-49.11	-58.27	-13.00	45.27	151	166	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-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

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

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

7.2 Test Band = LTE_5_TM1

7.2.1 Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.6790	-65.53	-70.35	-13.00	57.35	212	262	Vertical
2	115.1218	-67.82	-61.86	-13.00	48.86	258	9	Vertical
3	367.4799	-67.25	-64.69	-13.00	51.69	296	40	Vertical
4	1648.9298	-62.51	-57.83	-13.00	44.83	231	114	Vertical
5	2473.8948	-58.31	-48.90	-13.00	35.90	158	336	Vertical
6	4122.6041	-46.46	-56.23	-13.00	43.23	199	40	Vertical



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

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

7.3 Test Band = LTE_5_TM1

7.3.1 Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.4580	-68.42	-61.84	-13.00	48.84	258	135	Horizontal
2	231.8186	-67.71	-64.89	-13.00	51.89	274	135	Horizontal
3	1664.1328	-63.98	-60.08	-13.00	47.08	159	317	Horizontal
4	2496.2993	-62.99	-51.68	-13.00	38.68	196	333	Horizontal
5	4160.4053	-46.60	-55.70	-13.00	42.70	321	135	Horizontal
6	8320.6440	-51.66	-51.16	-13.00	38.16	215	40	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-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

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

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

7.4 Test Band = LTE_5_TM1

7.4.1 Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.8131	-62.96	-69.88	-13.00	56.88	174	72	Vertical
2	109.9320	-68.54	-62.15	-13.00	49.15	185	135	Vertical
3	381.0606	-67.96	-64.70	-13.00	51.70	196	72	Vertical
4	1664.1328	-66.46	-61.73	-13.00	48.73	321	235	Vertical
5	2496.2993	-59.92	-50.39	-13.00	37.39	215	165	Vertical
6	4160.1720	-43.15	-52.90	-13.00	39.90	168	199	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-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

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

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

7.5 Test Band = LTE_5_TM1

7.5.1 Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.3125	-68.25	-61.72	-13.00	48.72	188	230	Horizontal
2	233.8072	-66.54	-63.73	-13.00	50.73	213	72	Horizontal
3	1679.3359	-62.27	-58.52	-13.00	45.52	151	129	Horizontal
4	2518.7037	-59.44	-48.29	-13.00	35.29	191	324	Horizontal
5	4197.7399	-51.13	-60.16	-13.00	47.16	235	167	Horizontal
6	9318.4106	-58.43	-52.66	-13.00	39.66	218	8	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-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

7.6 Test Band = LTE_5_TM1

7.6.1 Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.5221	-61.86	-68.50	-13.00	55.50	158	40	Vertical
2	112.2116	-68.66	-62.44	-13.00	49.44	174	325	Vertical
3	334.1102	-68.10	-65.87	-13.00	52.87	185	230	Vertical
4	1678.9358	-62.51	-57.73	-13.00	44.73	191	114	Vertical
5	2518.7037	-60.19	-50.59	-13.00	37.59	211	354	Vertical
6	4197.7399	-50.90	-60.63	-13.00	47.63	254	230	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-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

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

8.1 Frequency Vs Voltage

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-1.80	-0.002171	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-2.00	-0.002370	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	0.20	0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-2.00	-0.002370	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	-1.90	-0.002251	±2.5	PASS



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

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

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

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



8.2 Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-1.20	-0.001448	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	0.70	0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	0.20	0.000241	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	0.10	0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.60	0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-1.60	-0.001896	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	0.10	0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-0.90	-0.001086	±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

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



Band5	10MHz	16QAM	20450	50RB#0	NV	30	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	0.20	0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	0.90	0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.60	0.000717	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-2.00	-0.002370	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-1.60	-0.001896	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-10	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	0.10	0.000121	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-10	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	0.70	0.000844	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	40	0.40	0.000483	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	0.20	0.000241	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-10	0.40	0.000478	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	0.10	0.000120	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	0.50	0.000598	±2.5	PASS



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

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

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

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



Band5	10MHz	64QAM	20525	50RB#0	NV	40	0.50	0.000598	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	0.50	0.000598	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-10	0.50	0.000592	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	10	-1.50	-0.001777	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	20	-1.70	-0.002014	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	40	0.30	0.000355	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	50	-1.50	-0.001777	±2.5	PASS

The End



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

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

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

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