



Appendix B

E-UTRA Band 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



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	3
1.1.	TEST RESULT	3
2.	PEAK-TO-AVERAGE RATIO (CCDF)	9
2.1.	TEST RESULT	9
2.2.	TEST PLOTS.....	9
3.	MODULATION CHARACTERISTICS	11
3.1.	TEST MODE = LTE /TM1 10MHZ.....	11
3.1.1.	TEST CHANNEL = MCH.....	11
3.2.	TEST MODE = LTE /TM2 10MHZ.....	12
3.2.1.	TEST CHANNEL = MCH.....	12
3.3.	TEST MODE = LTE /TM3 10MHZ.....	13
3.3.1.	TEST CHANNEL = MCH.....	13
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	14
4.1.	TEST RESULT	14
4.2.	TEST PLOTS.....	15
5.	BAND EDGE COMPLIANCE	21
5.1.	TEST PLOTS.....	21
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	32
6.1.	TEST PLOTS.....	32
7.	FIELD STRENGTH OF SPURIOUS RADIATION	35
7.1.	TEST MODE =LTE/TM1 10MHz(ANT1).....	35
7.1.1.	TEST CHANNEL = MCH.....	35
7.2.	TEST MODE =LTE/TM1 10MHz(ANT0).....	35
7.2.1.	TEST CHANNEL = MCH.....	35
8.	FREQUENCY STABILITY.....	37
8.1.	FREQUENCY VS VOLTAGE	37
8.2.	FREQUENCY VS TEMPERATURE	37





1 Effective (Isotropic) Radiated Power

1.1. Test Result

ANT1:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.84	17.99	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.73	17.88	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.86	18.01	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.86	17.01	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.95	17.10	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.94	17.09	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.90	17.05	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.81	17.96	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.74	17.89	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.74	17.89	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.95	17.10	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.84	16.99	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.86	17.01	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.89	17.04	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.74	17.89	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.85	18.00	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.77	17.92	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.87	17.02	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	21.89	17.04	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.86	17.01	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.83	16.98	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.05	17.20	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.95	17.10	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.08	17.23	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.92	16.07	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.96	16.11	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.94	16.09	34.77	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



Band13	5MHz	16QAM	23205	25RB#0	21.02	16.17	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.94	17.09	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.46	17.61	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.39	17.54	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	20.98	16.13	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	20.89	16.04	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.94	16.09	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.84	15.99	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.42	17.57	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.00	17.15	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.04	17.19	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.97	16.12	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.83	15.98	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.91	16.06	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.78	15.93	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	20.89	16.04	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	20.95	16.10	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	20.74	15.89	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	20.07	15.22	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	19.99	15.14	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	20.04	15.19	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	19.98	15.13	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	20.87	16.02	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	20.81	15.96	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	20.97	16.12	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	19.98	15.13	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	20.00	15.15	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	20.05	15.20	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.06	15.21	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	20.99	16.14	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	20.96	16.11	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	20.75	15.90	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#13	20.07	15.22	34.77	PASS



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

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

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



Band13	5MHz	64QAM	23255	12RB#0	20.01	15.16	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#6	19.97	15.12	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.08	15.23	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.76	17.91	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.68	17.83	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.74	17.89	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.88	17.03	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.92	17.07	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.85	17.00	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.85	17.00	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.14	17.29	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.24	17.39	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.94	17.09	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.96	16.11	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.72	15.87	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.85	16.00	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.87	16.02	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	20.74	15.89	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	20.95	16.10	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	20.85	16.00	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	20.02	15.17	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	20.05	15.20	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	19.94	15.09	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.00	15.15	34.77	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 / 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



ANT0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.52	13.47	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.54	13.49	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.60	13.55	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.56	12.51	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.66	12.61	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.67	12.62	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.71	12.66	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.56	13.51	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.62	13.57	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.58	13.53	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.69	12.64	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.62	12.57	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.65	12.60	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.69	12.64	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.51	13.46	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.62	13.57	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.60	13.55	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.69	12.64	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	21.66	12.61	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.67	12.62	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.68	12.63	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.81	12.76	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.12	13.07	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.88	12.83	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.62	11.57	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.76	11.71	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.75	11.70	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.61	11.56	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.96	12.91	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.92	12.87	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.81	12.76	34.77	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



Band13	5MHz	16QAM	23230	12RB#0	20.73	11.68	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	20.69	11.64	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.75	11.70	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.62	11.57	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.11	13.06	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.88	12.83	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.17	13.12	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.68	11.63	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.60	11.55	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.65	11.60	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.70	11.65	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	20.77	11.72	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	20.80	11.75	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	20.74	11.69	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	20.11	11.06	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	20.11	11.06	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	20.03	10.98	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.04	10.99	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	20.79	11.74	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	20.59	11.54	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	20.72	11.67	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	20.05	11.00	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	20.03	10.98	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	20.11	11.06	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.00	10.95	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	20.71	11.66	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	20.71	11.66	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	20.63	11.58	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#13	20.03	10.98	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#0	20.04	10.99	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#6	20.08	11.03	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.06	11.01	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.54	13.49	34.77	PASS



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

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

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

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

Band13	10MHz	QPSK	23230	1RB#24	22.55	13.50	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.47	13.42	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.65	12.60	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.68	12.63	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.71	12.66	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.59	12.54	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.23	13.18	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.80	12.75	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.18	13.13	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.64	11.59	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.55	11.50	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.59	11.54	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.69	11.64	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	20.62	11.57	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	20.56	11.51	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	20.79	11.74	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	20.07	11.02	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	20.12	11.07	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	20.03	10.98	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.11	11.06	34.77	PASS

Remark:

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

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

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



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

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

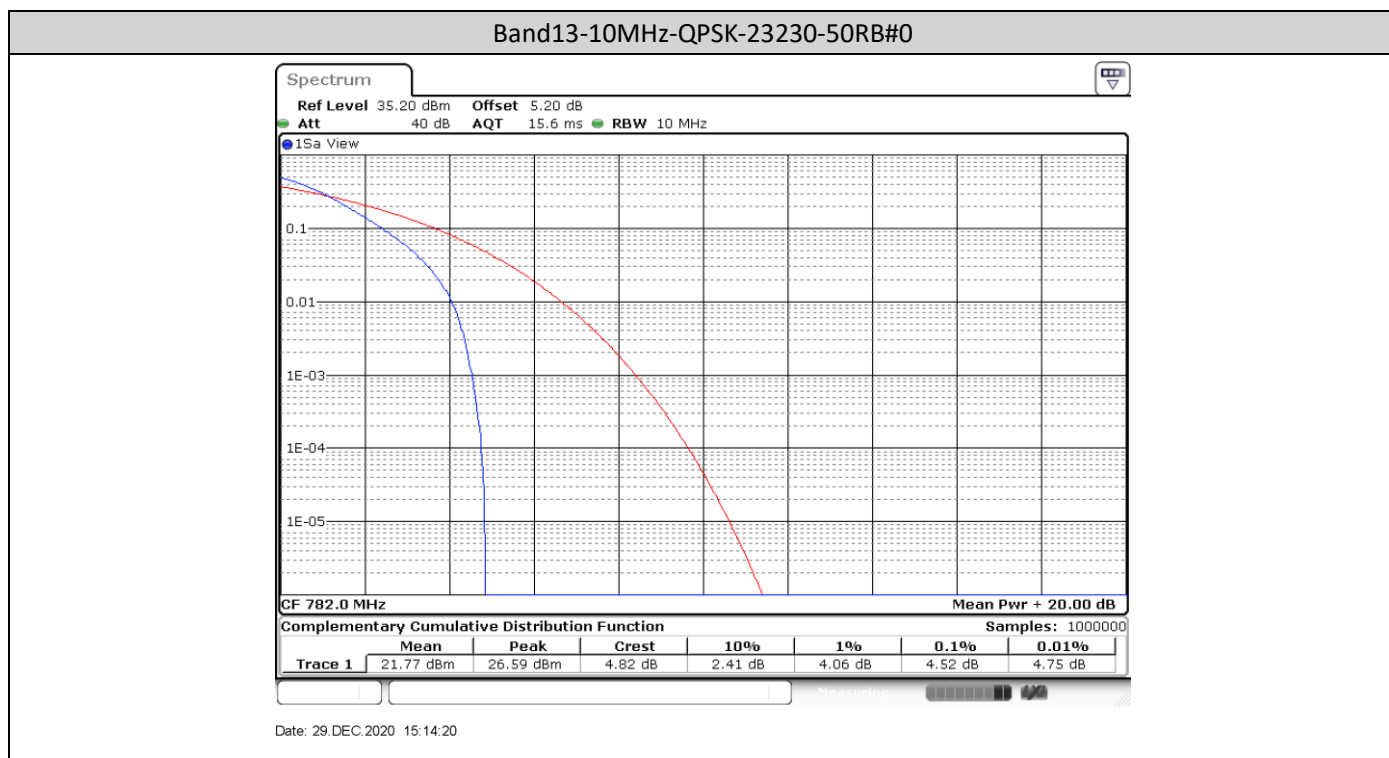


2. Peak-to-Average Ratio (CCDF)

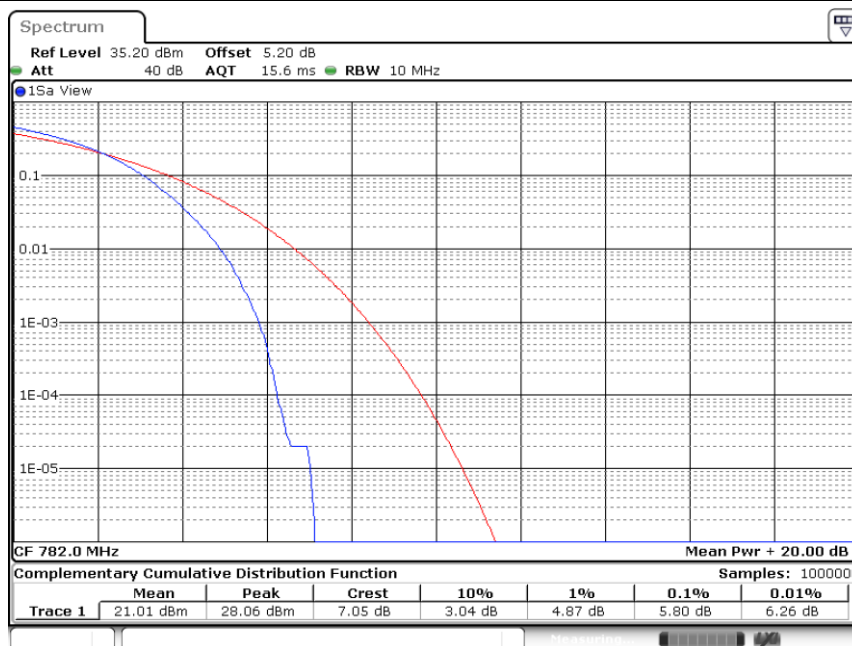
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	4.52	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	5.80	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.77	13	PASS

2.2. Test Plots

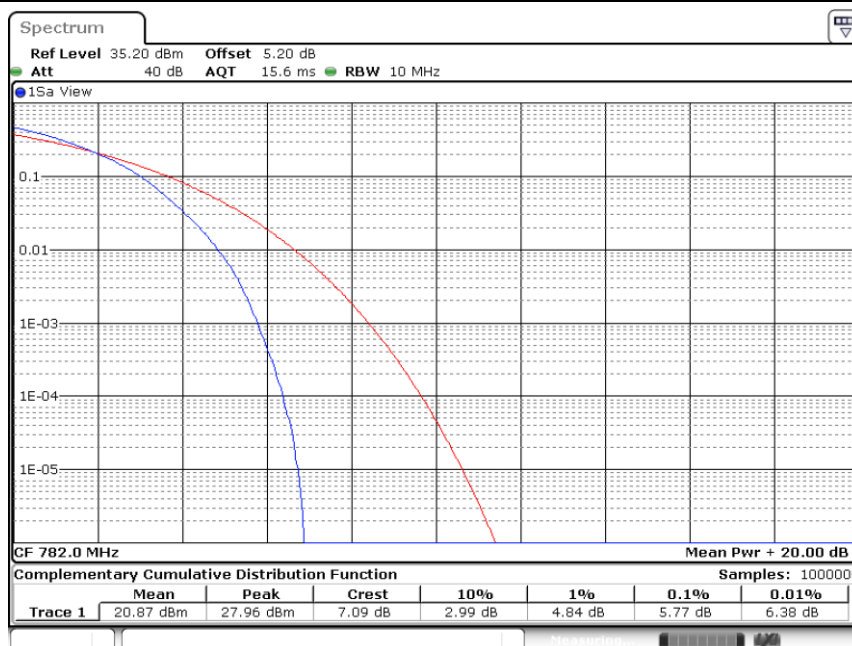


Band13-10MHz-64QAM-23230-50RB#0



Date: 29.DEC.2020 15:25:12

Band13-10MHz-16QAM-23230-50RB#0



Date: 29.DEC.2020 15:14:31

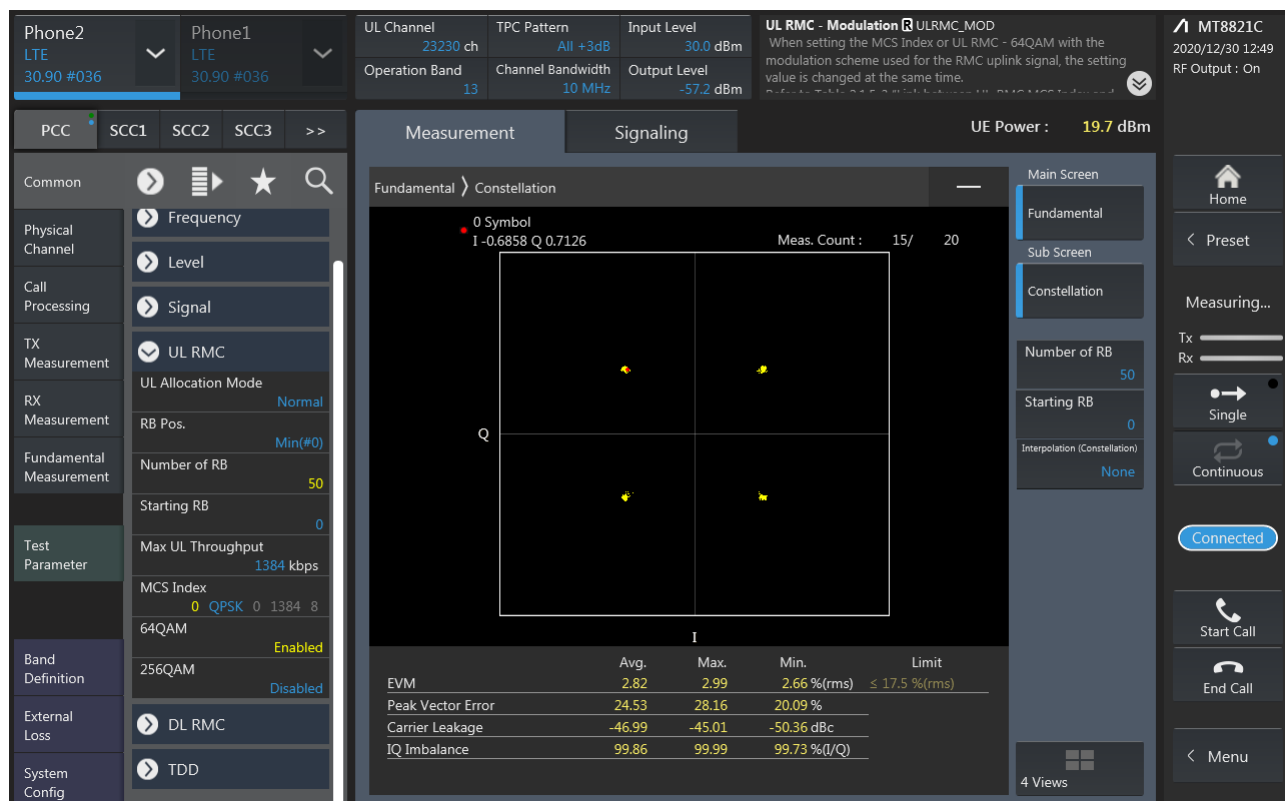




3. Modulation Characteristics

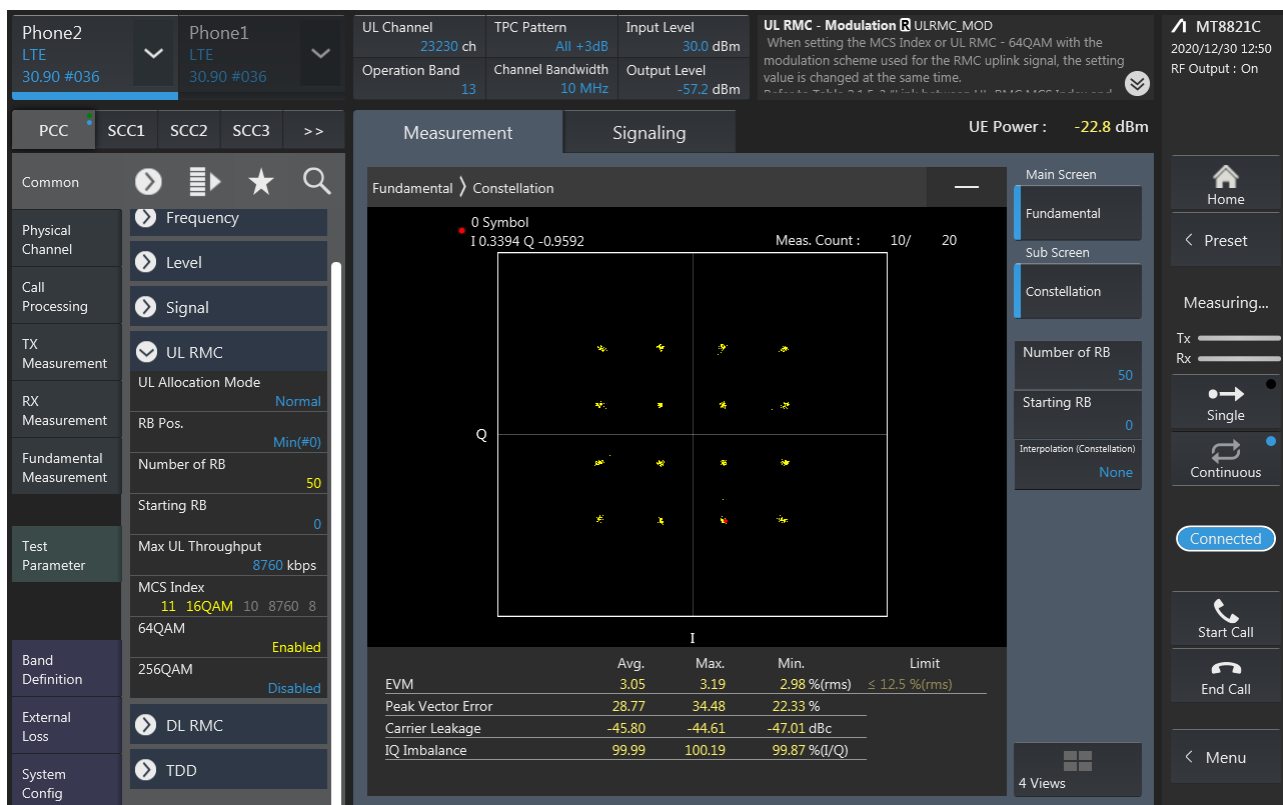
3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



3.2. Test Mode = LTE /TM2 10MHz

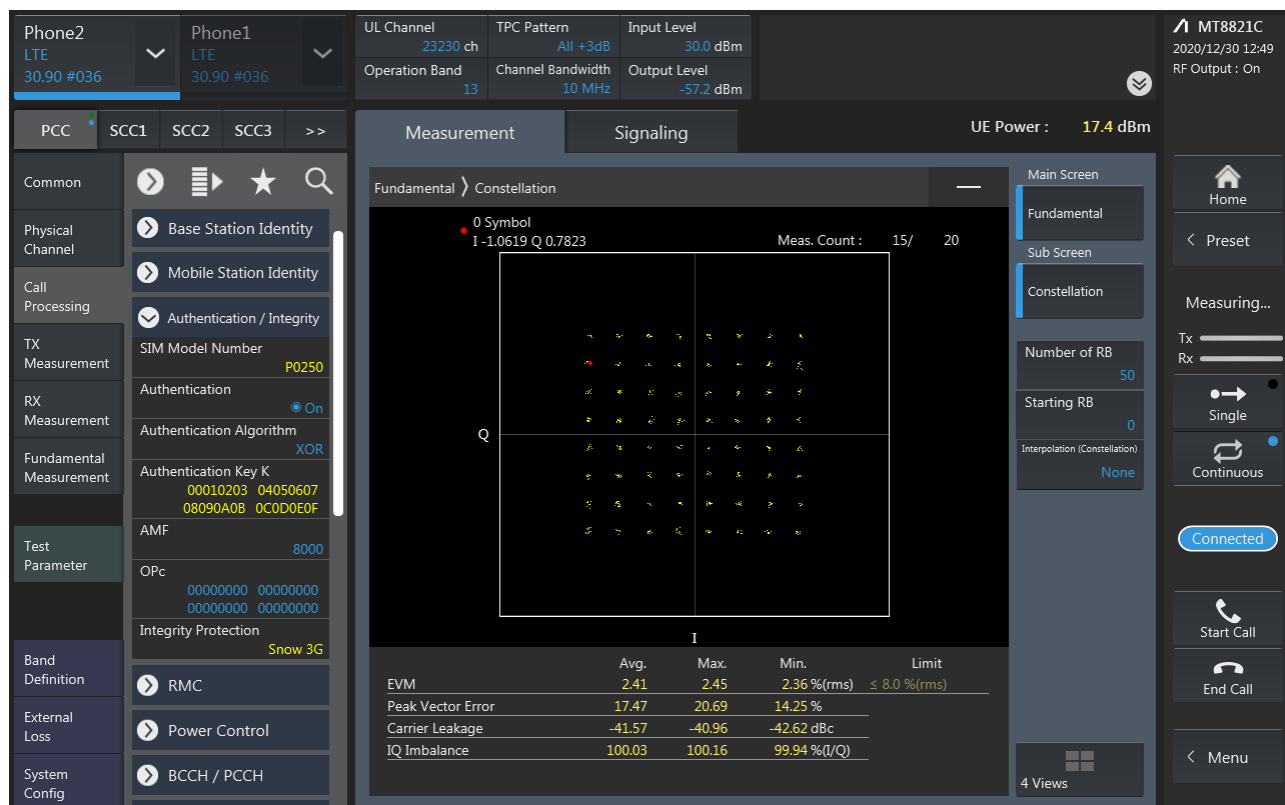
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

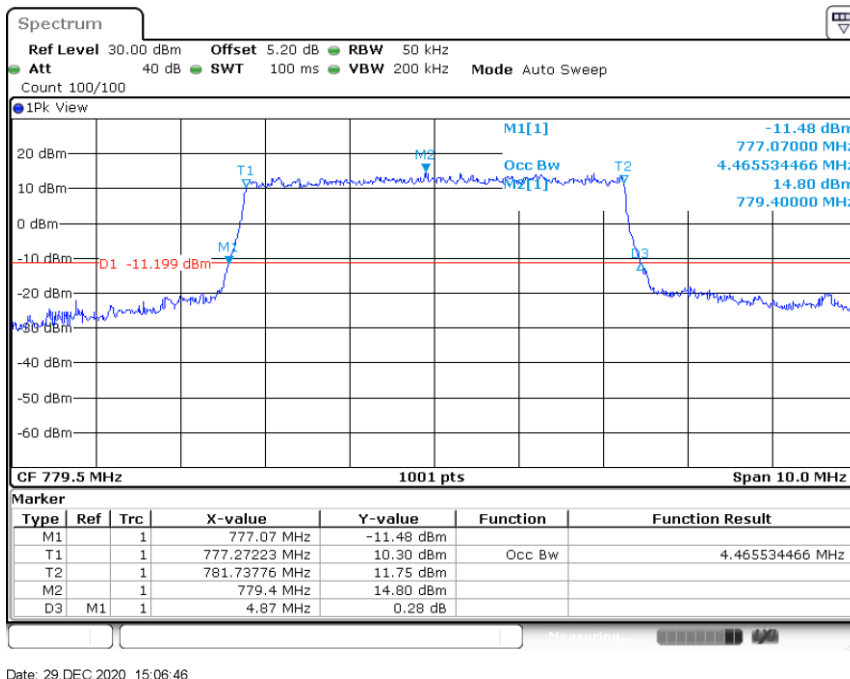
4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.466	4.870	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.880	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	4.890	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.466	4.920	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.466	4.910	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.476	4.910	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.486	4.920	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.496	4.900	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.496	5.690	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.911	9.640	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.891	9.700	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.911	9.660	PASS

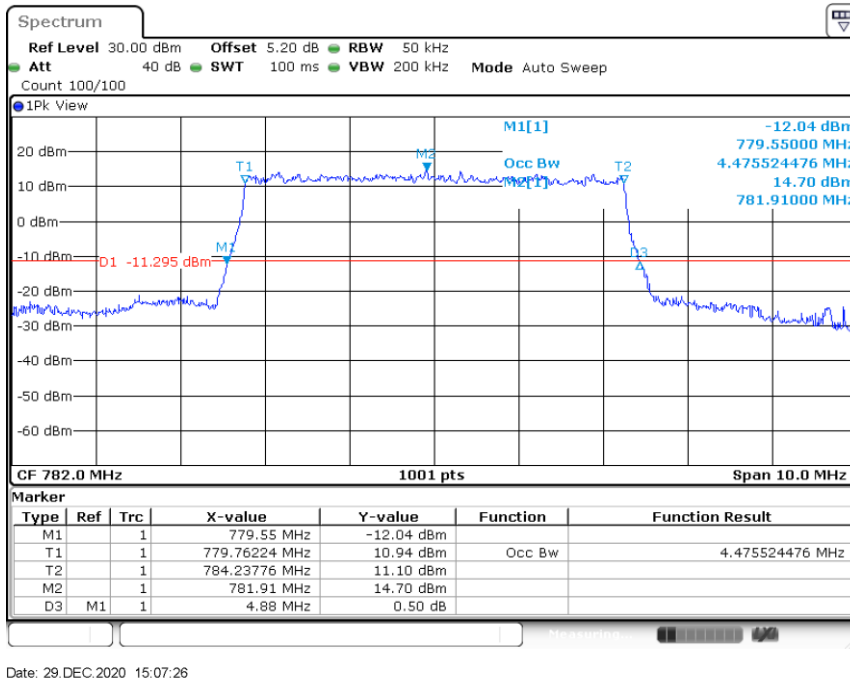


4.2. Test Plots

Band13-5MHz-QPSK-23205-25RB#0-4.466



Band13-5MHz-QPSK-23230-25RB#0-4.476



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

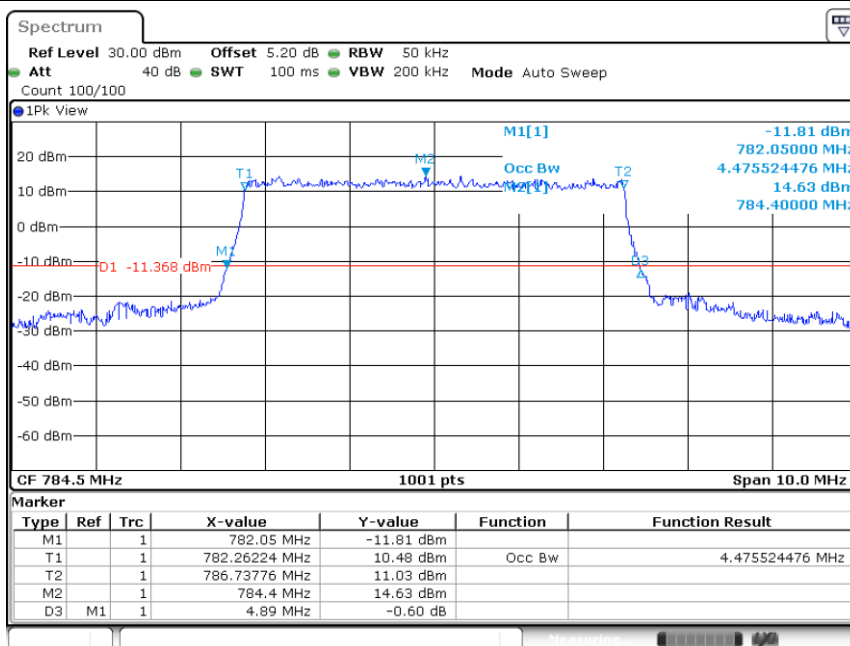
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

Member of the SGS Group (SGS SA)

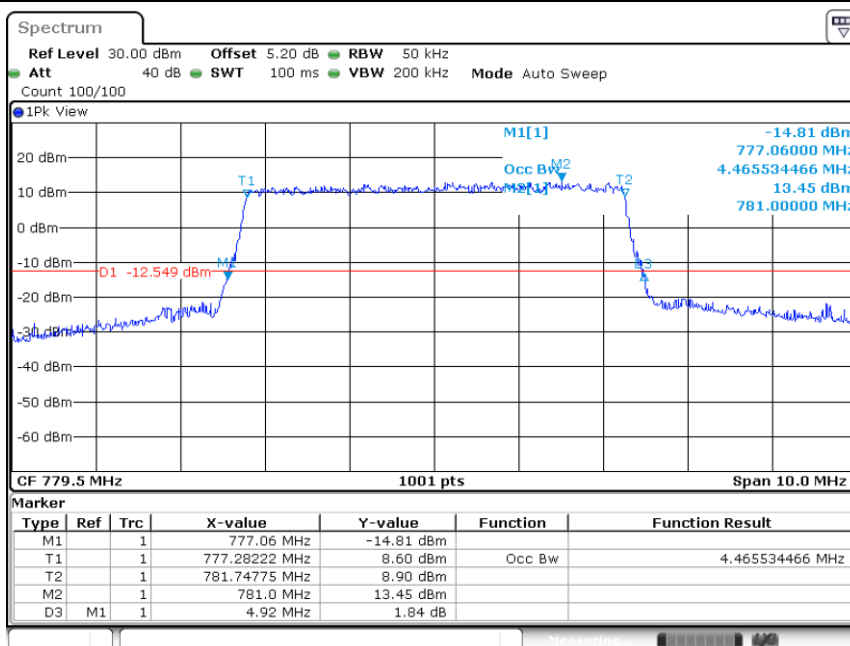


Band13-5MHz-QPSK-23255-25RB#0-4.476



Date: 29.DEC.2020 15:08:06

Band13-5MHz-64QAM-23205-25RB#0-4.466



Date: 29.DEC.2020 15:21:14



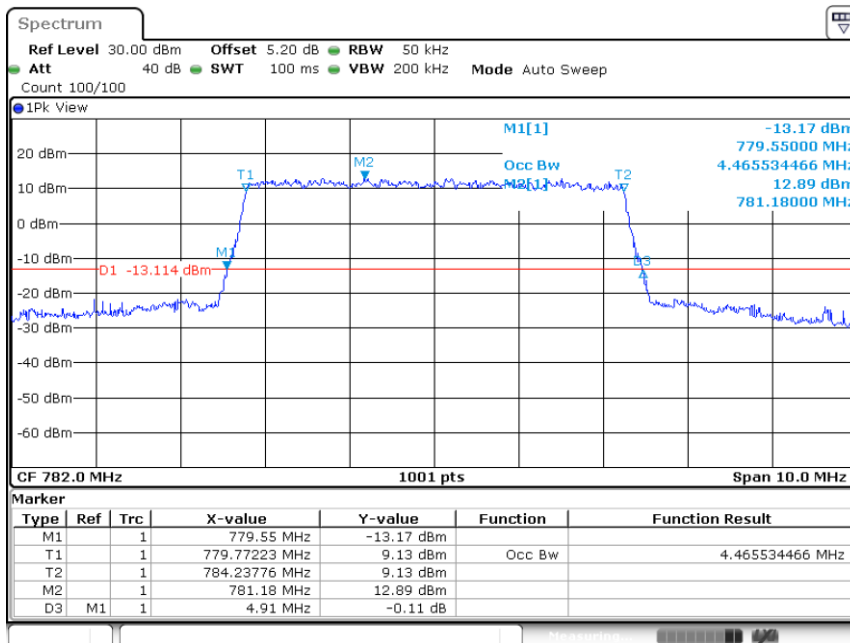
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 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

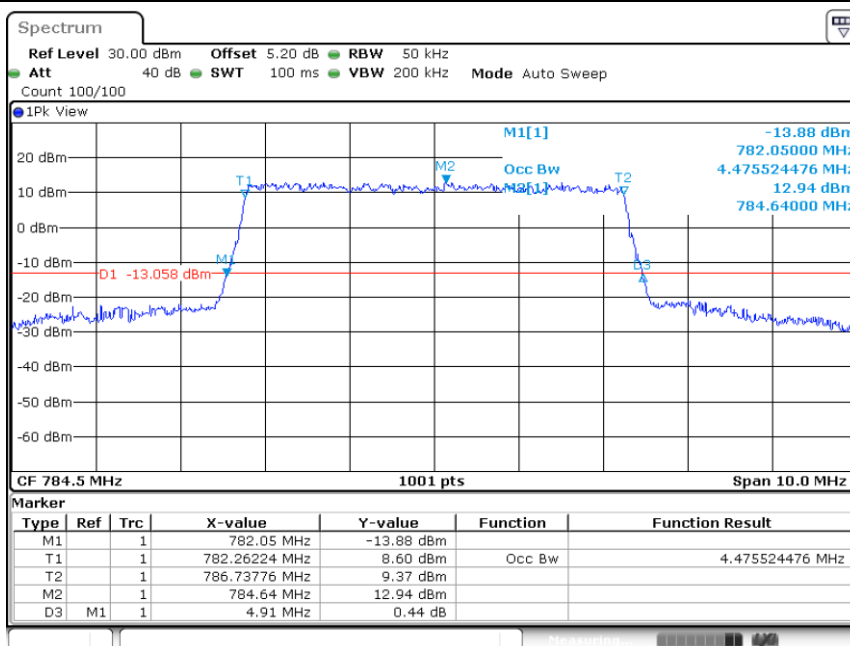


Band13-5MHz-64QAM-23230-25RB#0-4.466



Date: 29.DEC.2020 15:21:34

Band13-5MHz-64QAM-23255-25RB#0-4.476



Date: 29.DEC.2020 15:21:54



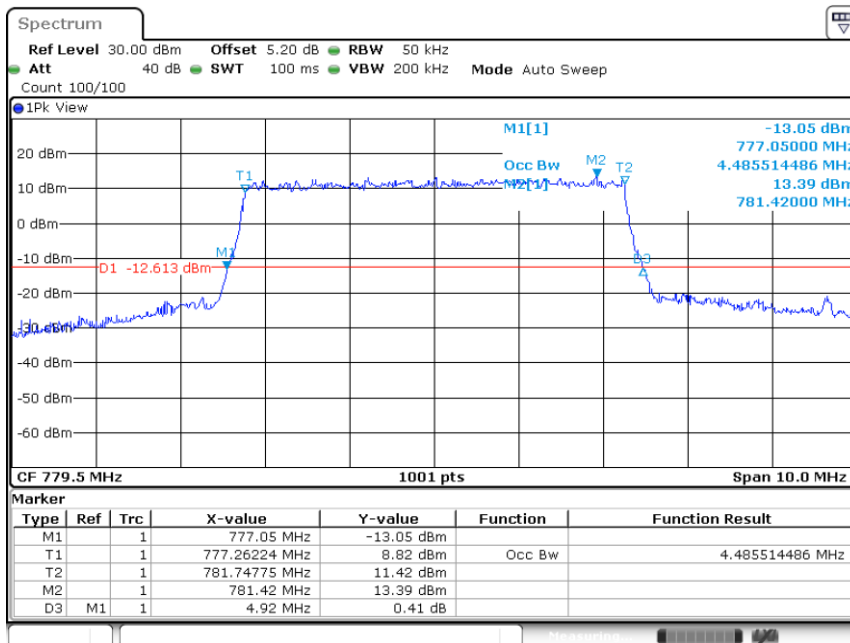
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 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

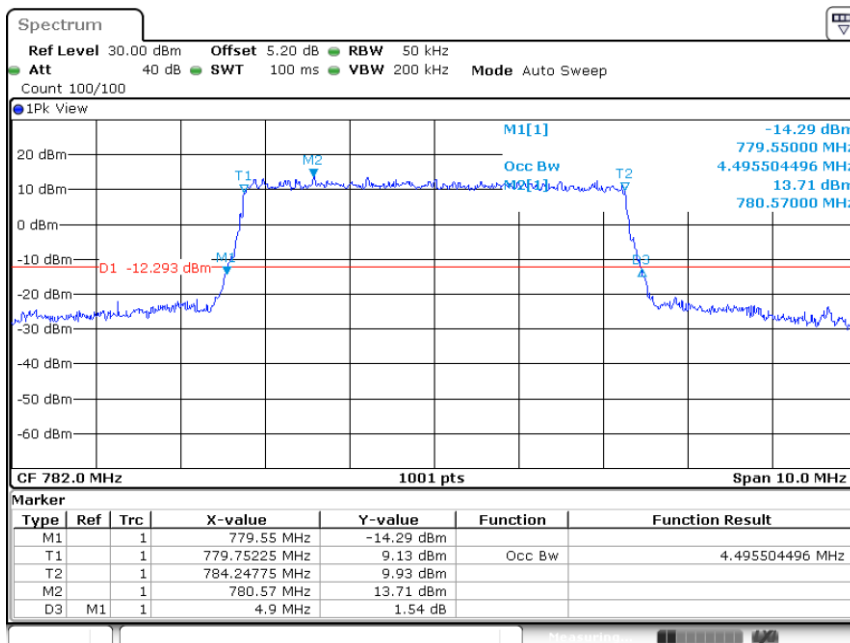


Band13-5MHz-16QAM-23205-25RB#0-4.486



Date: 29.DEC.2020 15:07:06

Band13-5MHz-16QAM-23230-25RB#0-4.496



Date: 29.DEC.2020 15:07:46



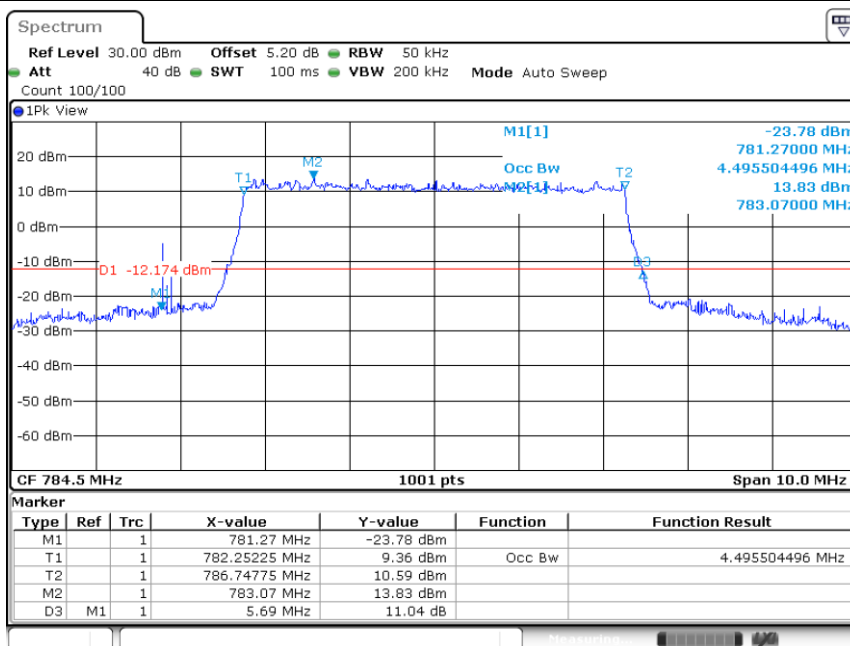
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 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

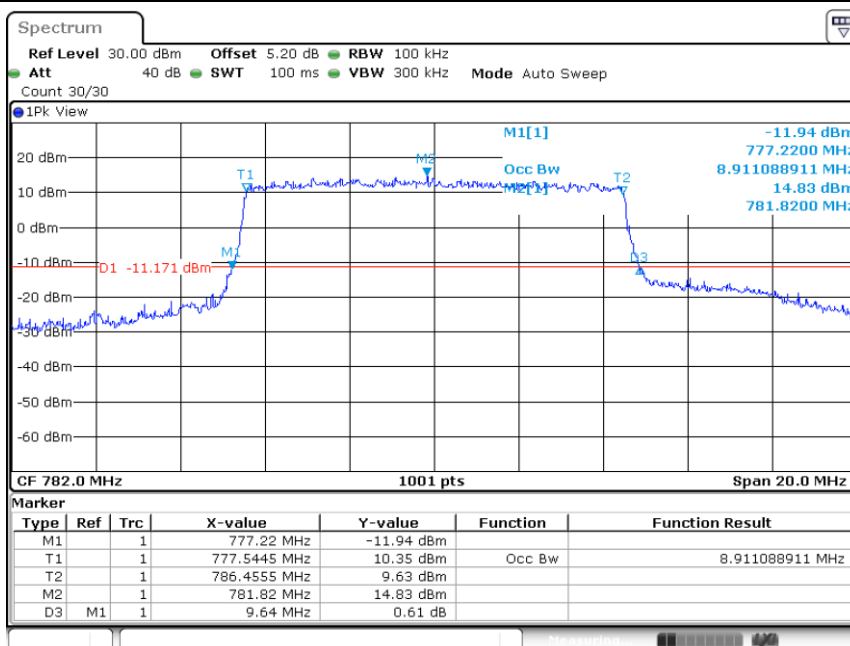


Band13-5MHz-16QAM-23255-25RB#0-4.496



Date: 29.DEC.2020 15:08:26

Band13-10MHz-QPSK-23230-50RB#0-8.911



Date: 29.DEC.2020 15:08:43



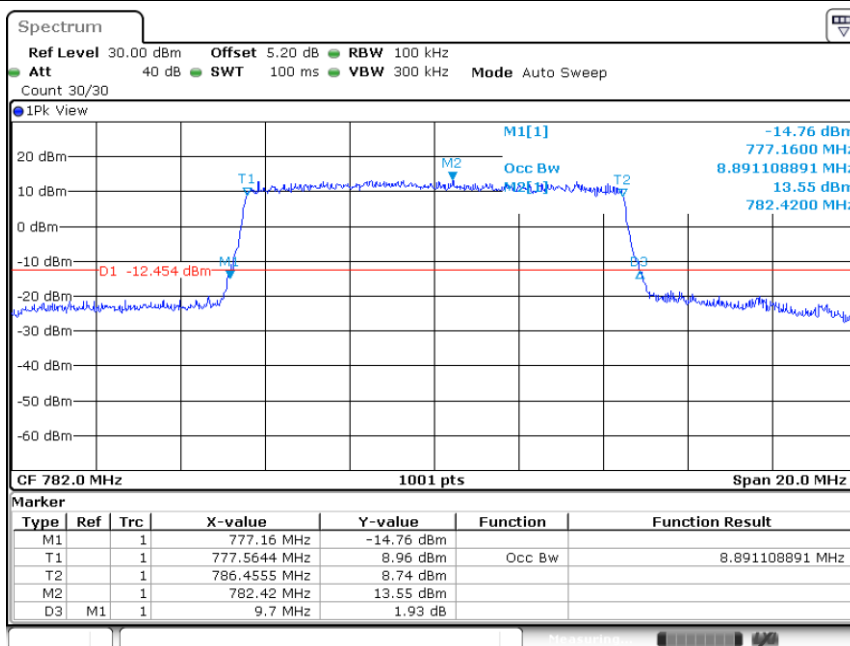
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

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

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

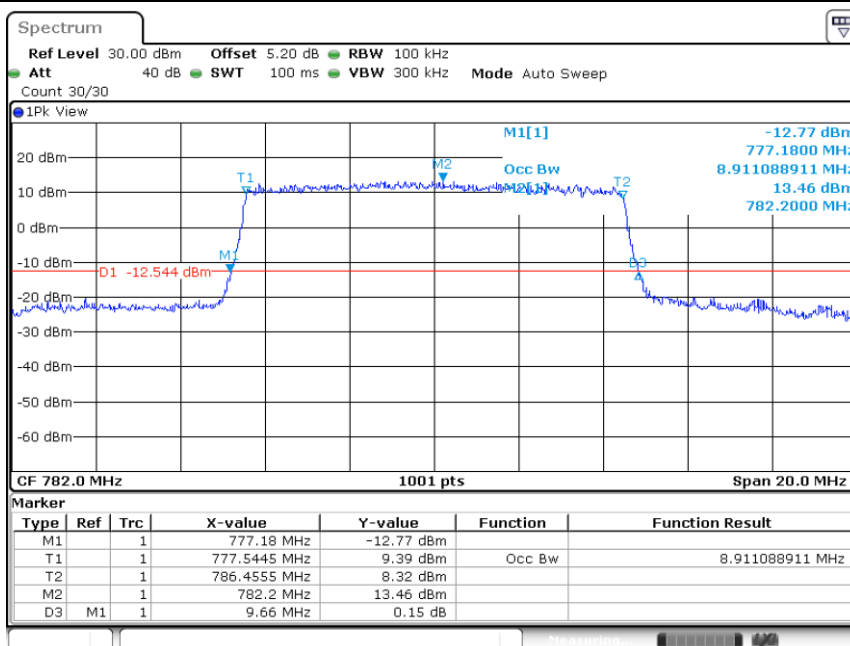


Band13-10MHz-64QAM-23230-50RB#0-8.891



Date: 29.DEC.2020 15:22:11

Band13-10MHz-16QAM-23230-50RB#0-8.911



Date: 29.DEC.2020 15:08:56



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

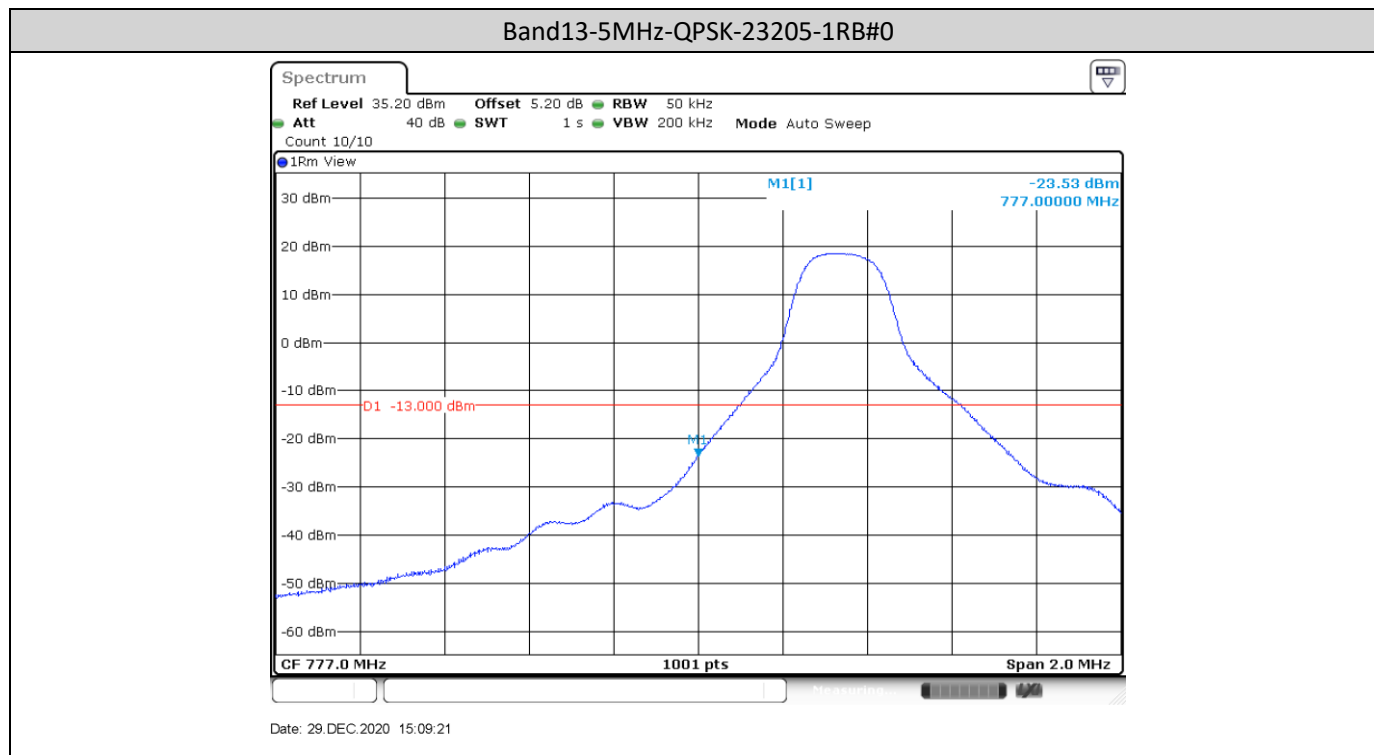
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 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



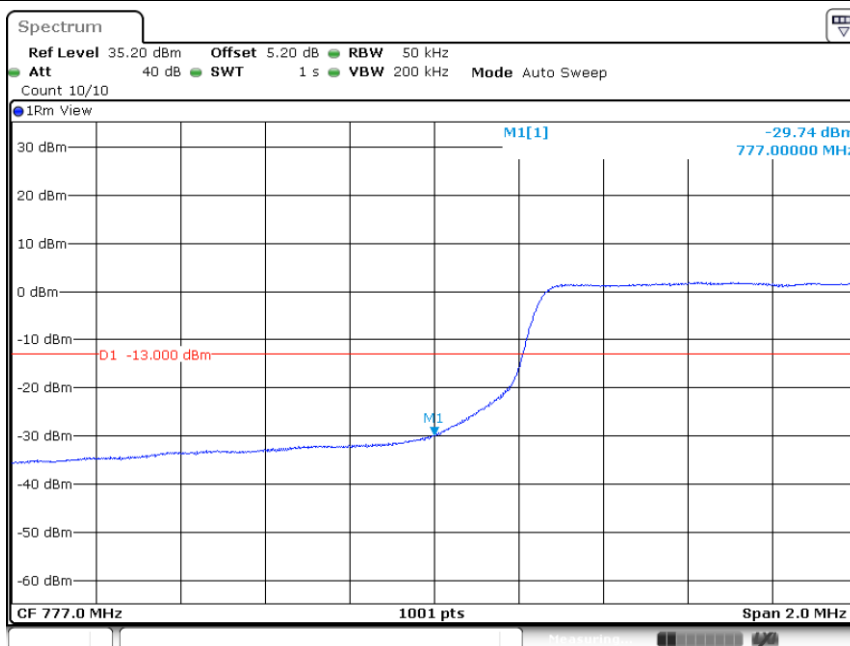
5. Band Edge Compliance

5.1. Test Plots



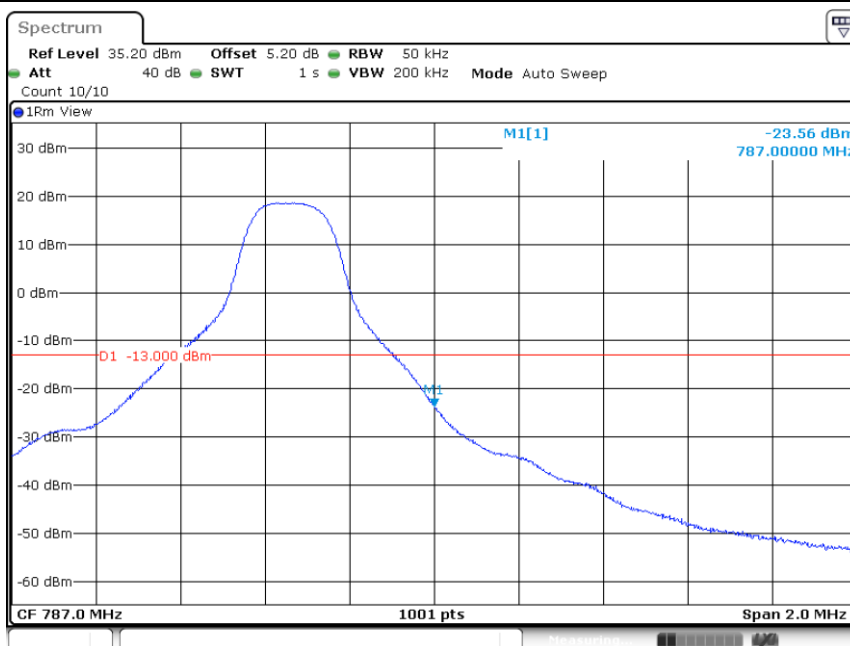


Band13-5MHz-QPSK-23205-25RB#0



Date: 29.DEC.2020 15:10:02

Band13-5MHz-QPSK-23255-1RB#24



Date: 29.DEC.2020 15:10:49



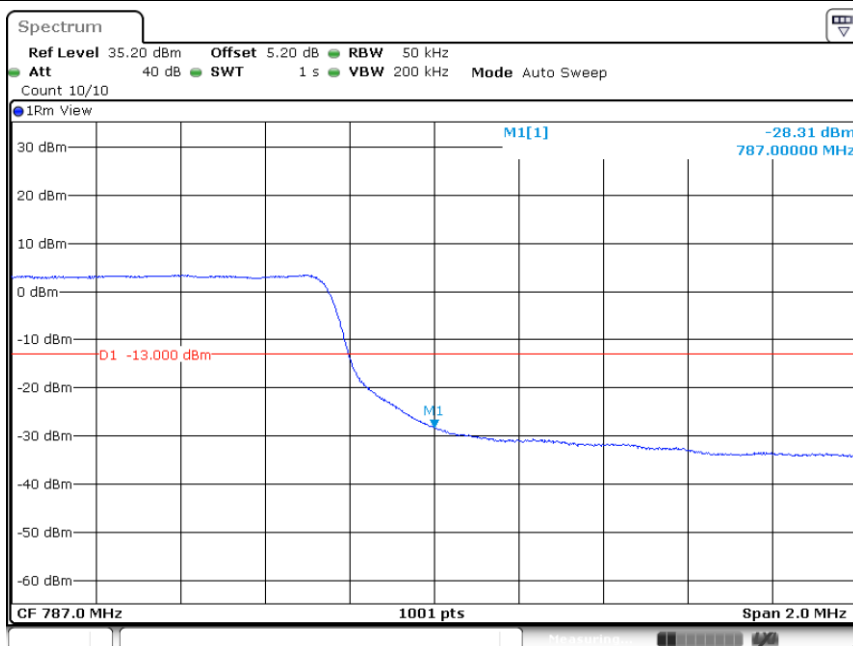
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (2019) China CCC 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

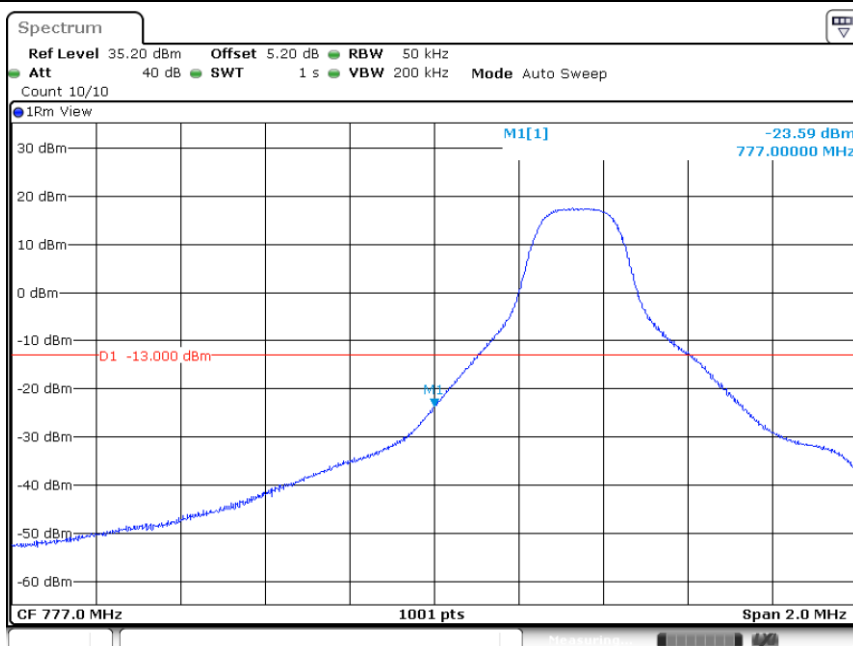


Band13-5MHz-QPSK-23255-25RB#0



Date: 29.DEC.2020 15:11:30

Band13-5MHz-64QAM-23205-1RB#0



Date: 29.DEC.2020 15:22:37



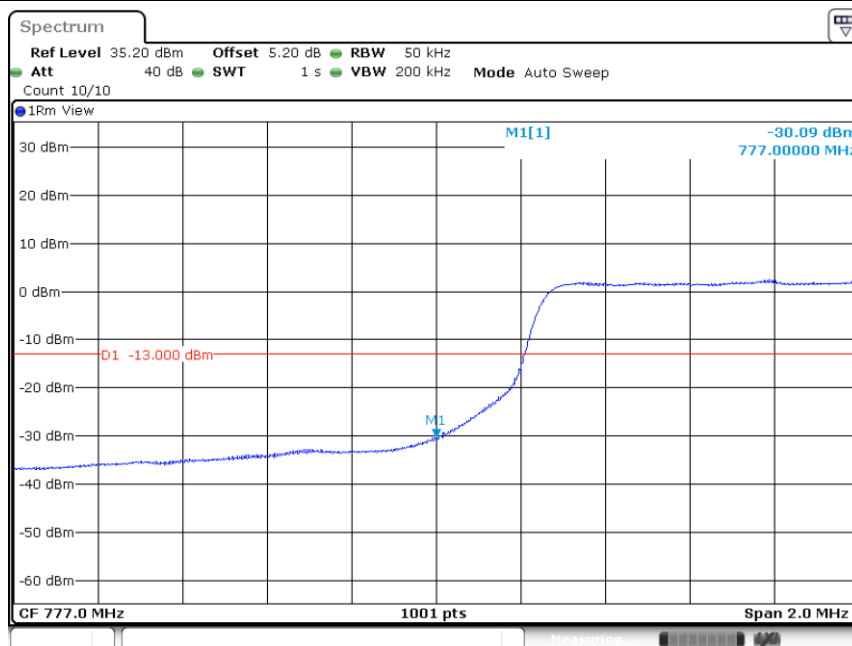
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (2019) China CCC Laboratory

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

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

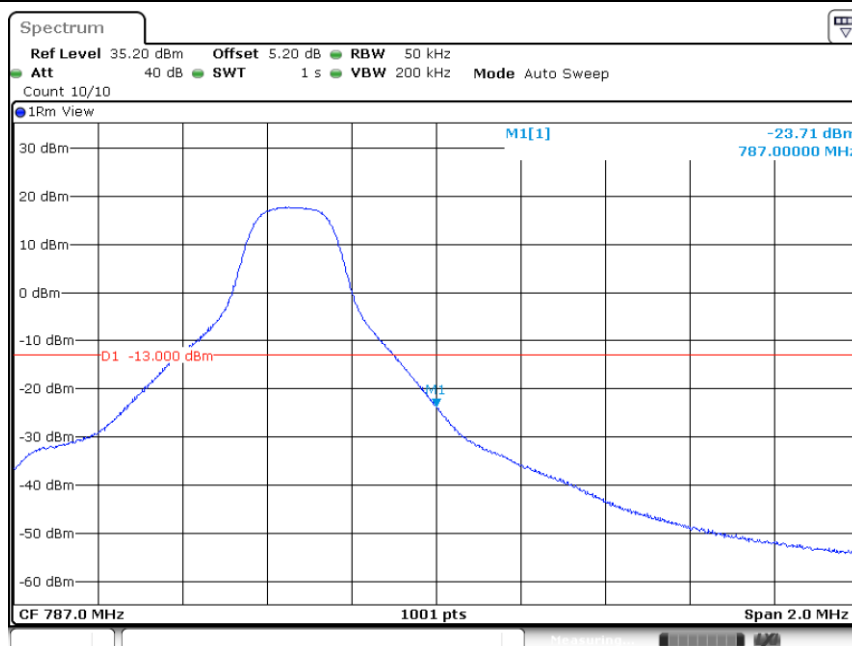


Band13-5MHz-64QAM-23205-25RB#0



Date: 29.DEC.2020 15:22:57

Band13-5MHz-64QAM-23255-1RB#24



Date: 29.DEC.2020 15:23:22



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

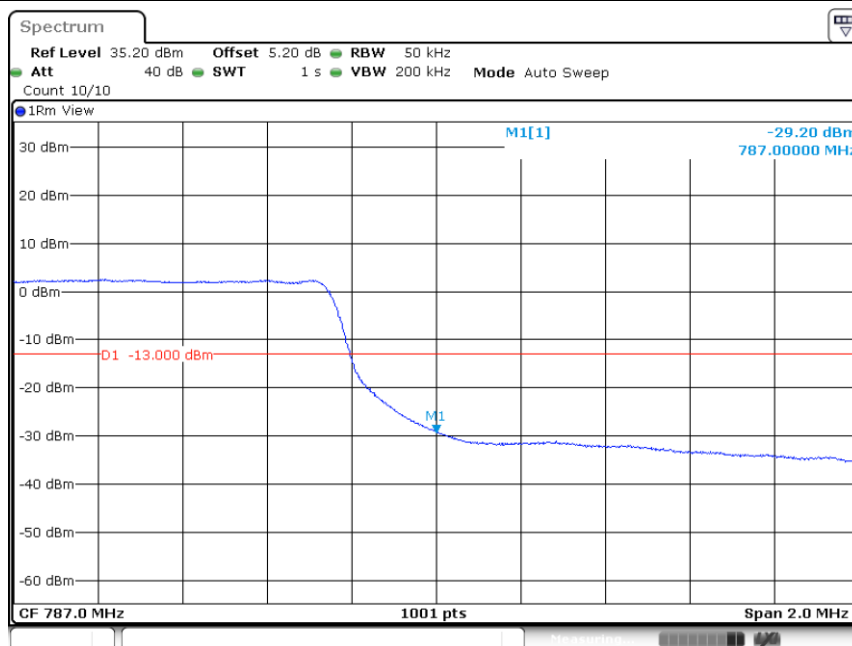
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (2019) China CCC Laboratory

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

Member of the SGS Group (SGS SA)

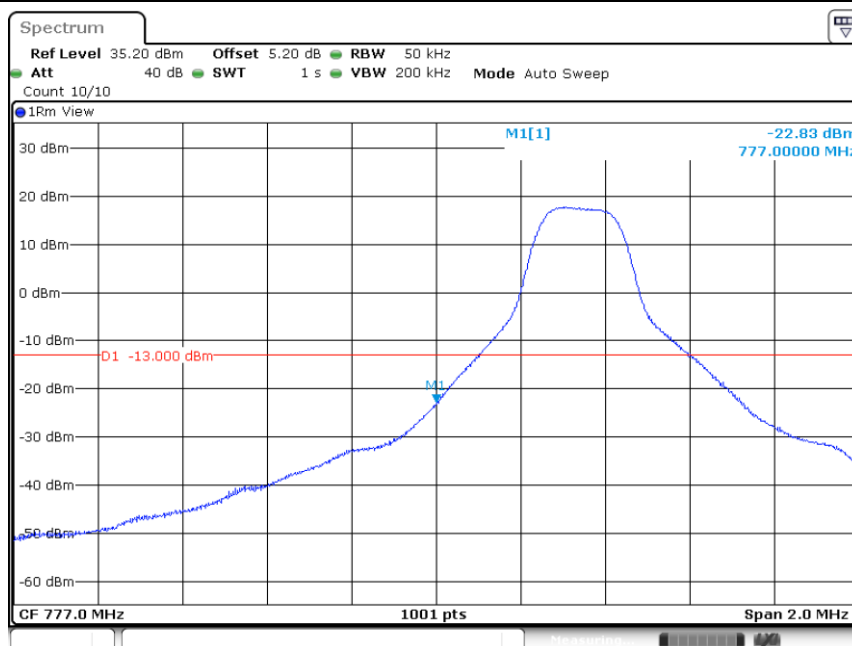


Band13-5MHz-64QAM-23255-25RB#0



Date: 29.DEC.2020 15:23:43

Band13-5MHz-16QAM-23205-1RB#0



Date: 29.DEC.2020 15:09:41



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

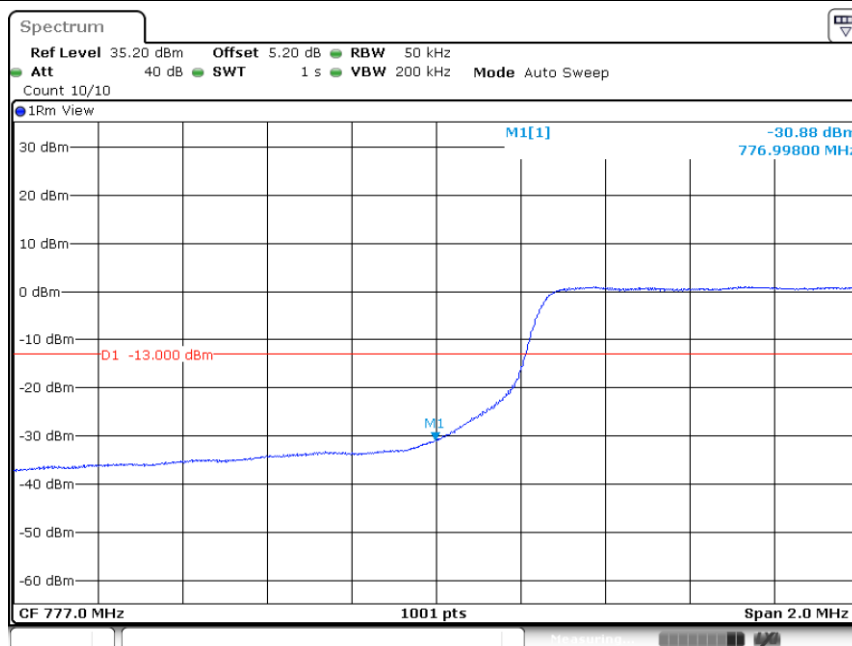
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SZ) China Laboratory

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

Member of the SGS Group (SGS SA)

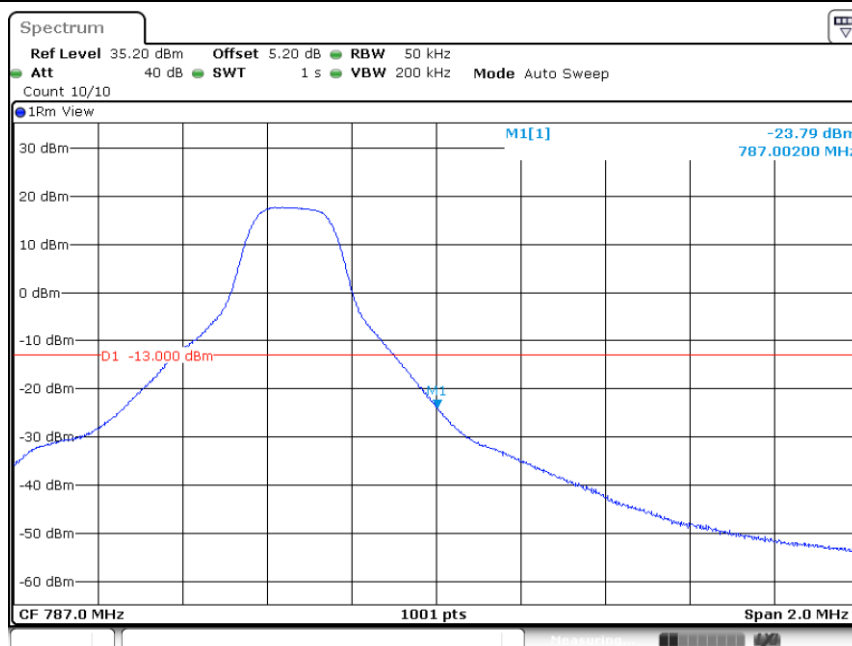


Band13-5MHz-16QAM-23205-25RB#0



Date: 29.DEC.2020 15:10:24

Band13-5MHz-16QAM-23255-1RB#24



Date: 29.DEC.2020 15:11:09



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

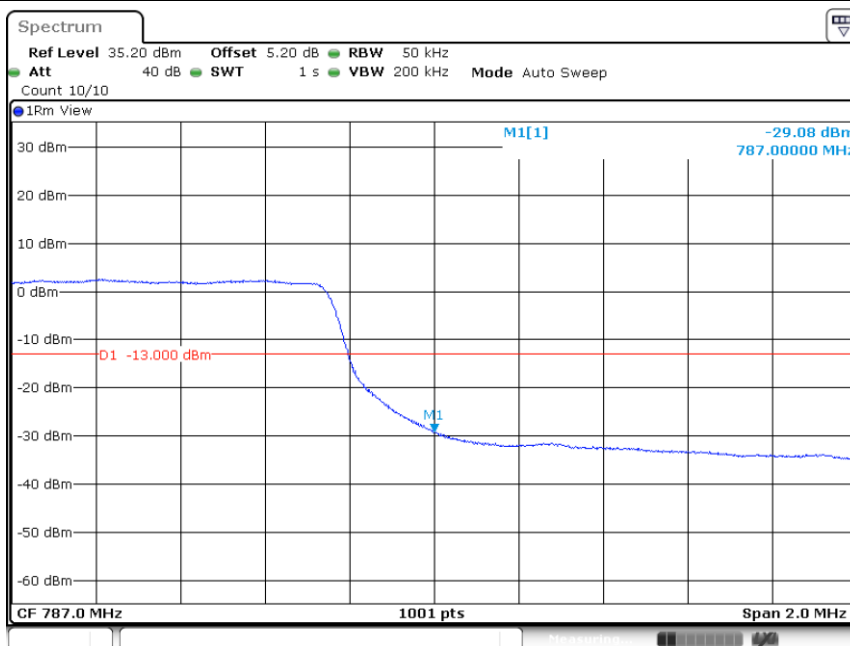
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (2010) China CCC Laboratory

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

Member of the SGS Group (SGS SA)

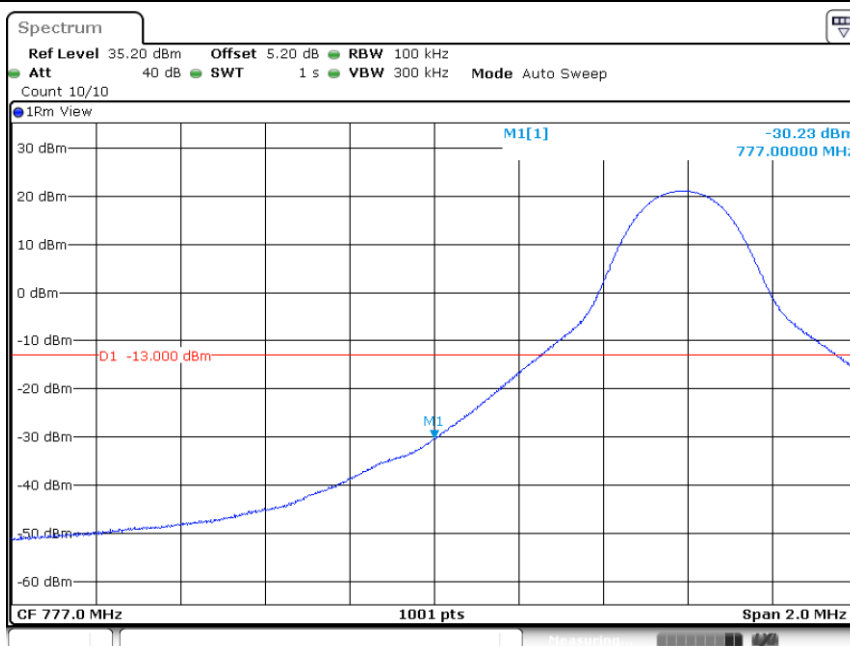


Band13-5MHz-16QAM-23255-25RB#0



Date: 29.DEC.2020 15:11:50

Band13-10MHz-QPSK-23230_Left-1RB#0



Date: 29.DEC.2020 15:12:15



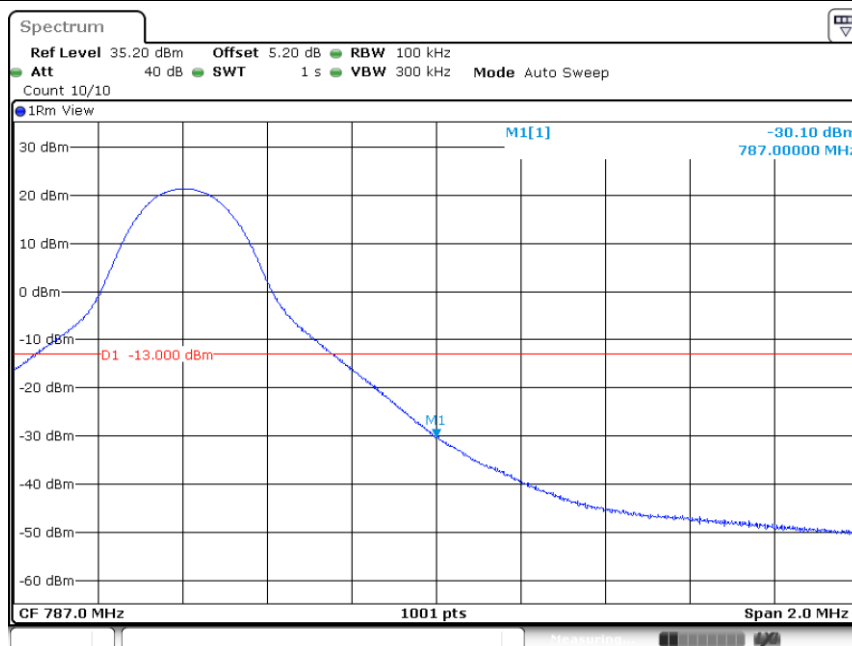
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (2019) China CCC Laboratory

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

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

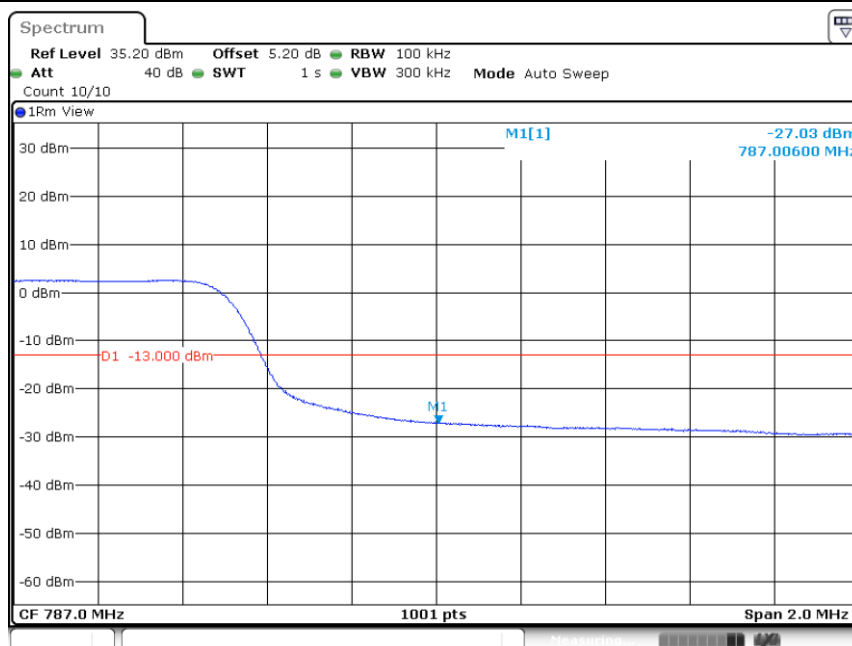


Band13-10MHz-QPSK-23230_Right-1RB#49



Date: 29.DEC.2020 15:13:01

Band13-10MHz-QPSK-23230_Right-50RB#0



Date: 29.DEC.2020 15:13:43



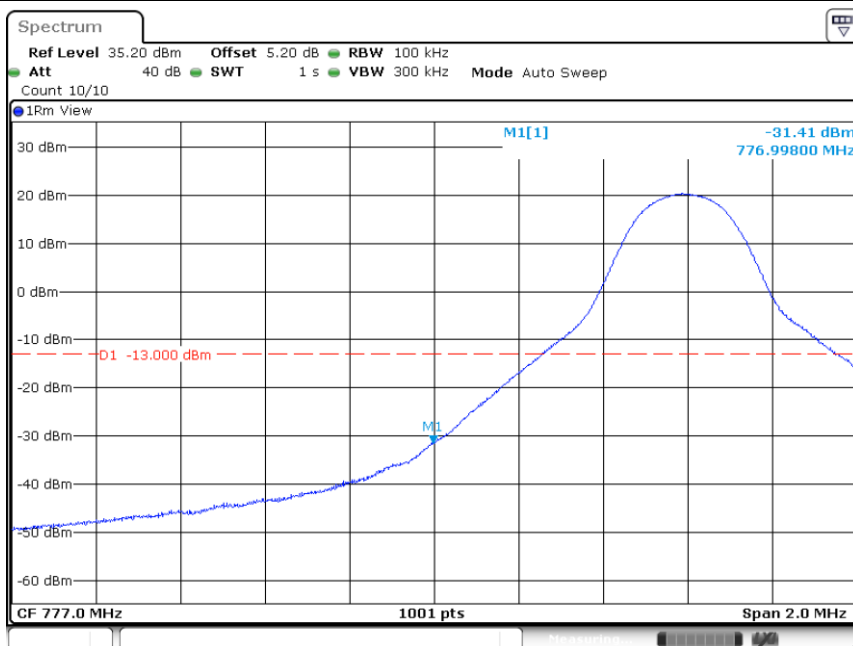
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

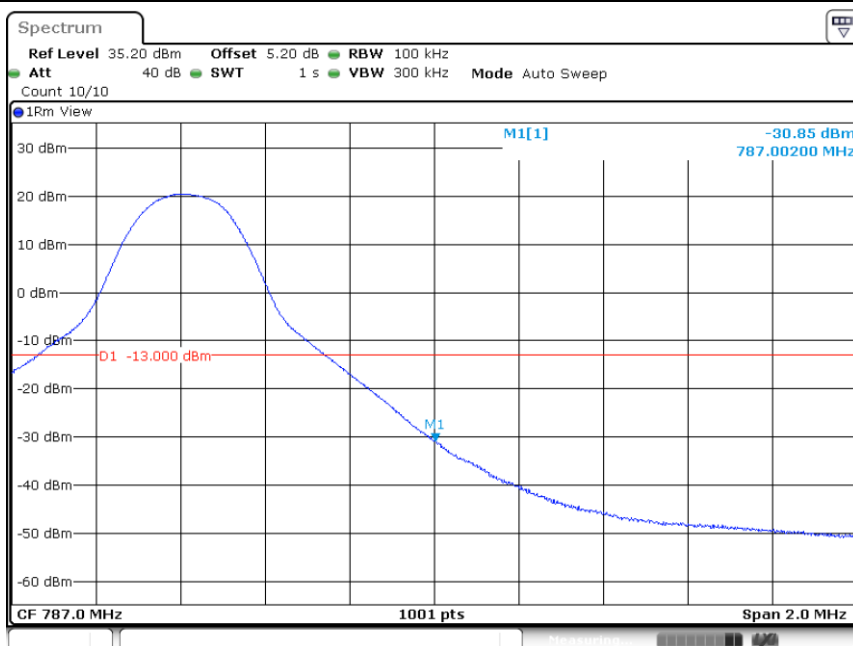
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band13-10MHz-64QAM-23230 Left-1RB#0



Date: 29.DEC.2020 15:24:12

Band13-10MHz-64QAM-23230 Right-1RB#49



Date: 29.DEC.2020 15:24:37



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

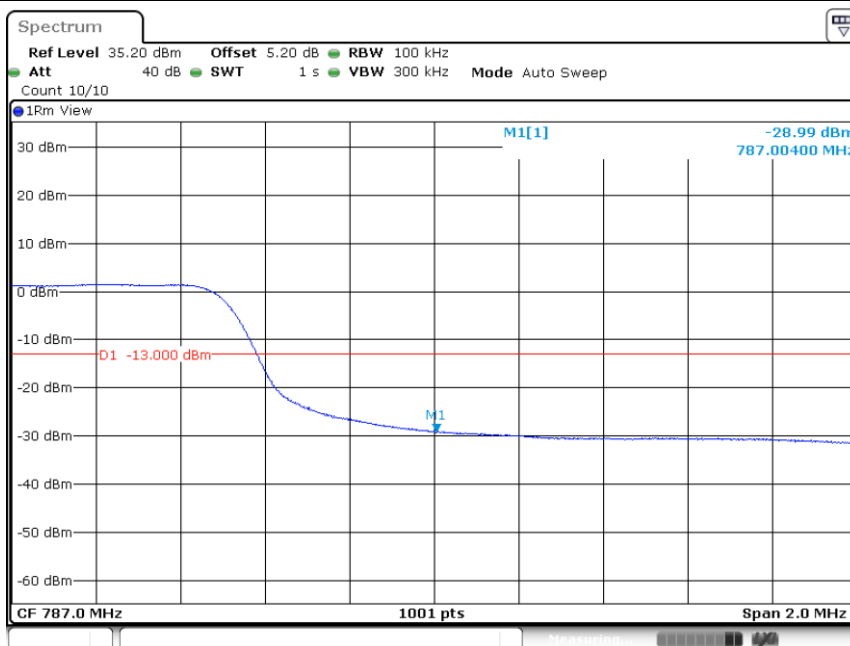
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and its electronic format documents subject to Terms and Conditions for Electronic 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 the document does not exonerate parties to a contract from their own obligations and liabilities. The Company's findings and conclusions are not a statement of fact and are not intended, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

For more information on the availability of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, at email: CN.Overseas@sgs.com.

中国·深圳·科技园中区M-10-11栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

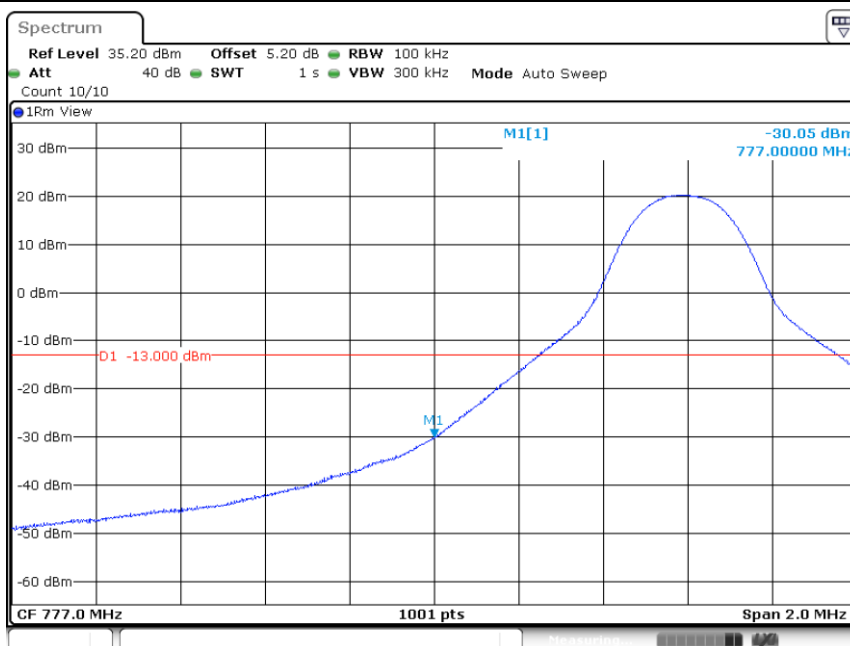


Band13-10MHz-64QAM-23230_Right-50RB#0



Date: 29.DEC.2020 15:24:57

Band13-10MHz-16QAM-23230_Left-1RB#0



Date: 29.DEC.2020 15:12:36



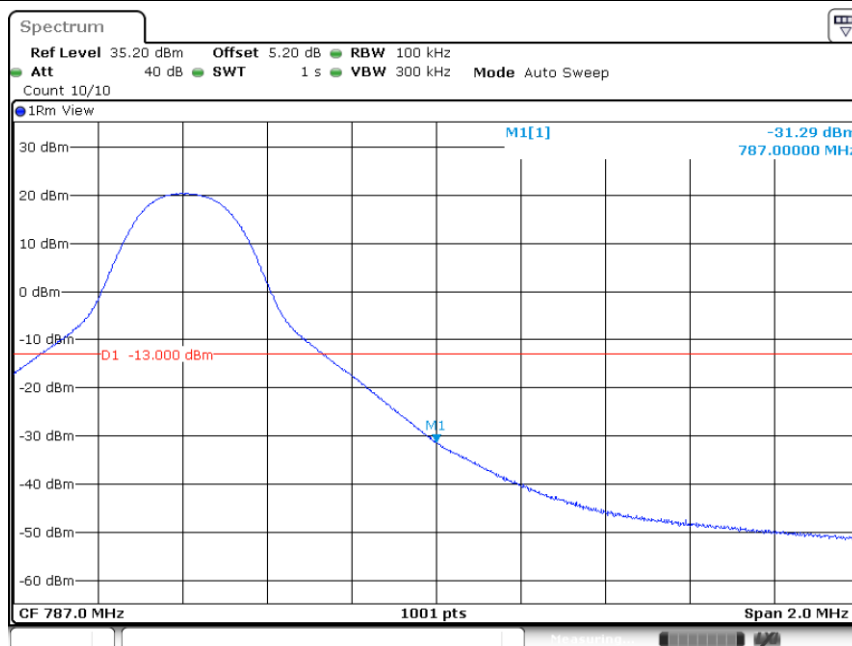
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (2019) China CCC 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

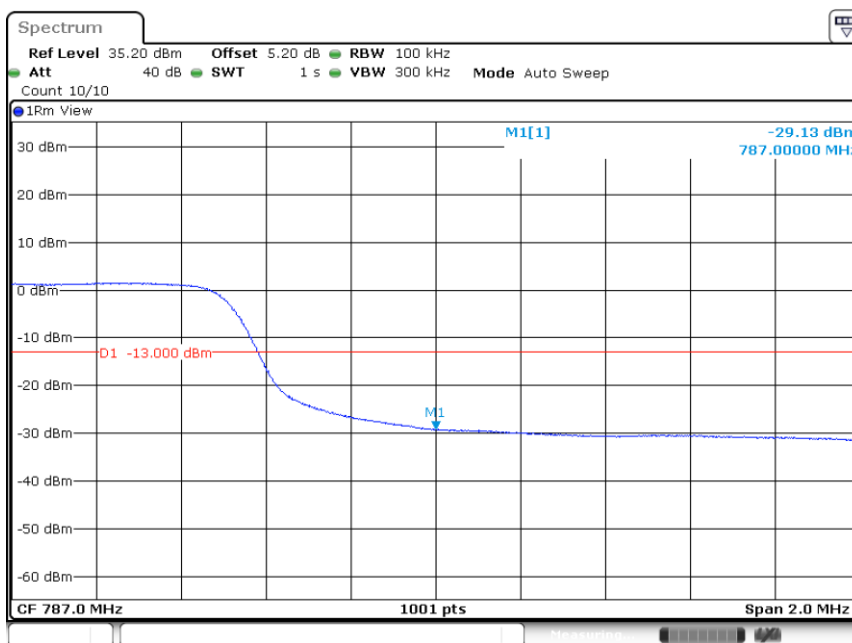


Band13-10MHz-16QAM-23230_Right-1RB#49



Date: 29.DEC.2020 15:13:22

Band13-10MHz-16QAM-23230_Right-50RB#0



Date: 29.DEC.2020 15:14:04



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

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

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

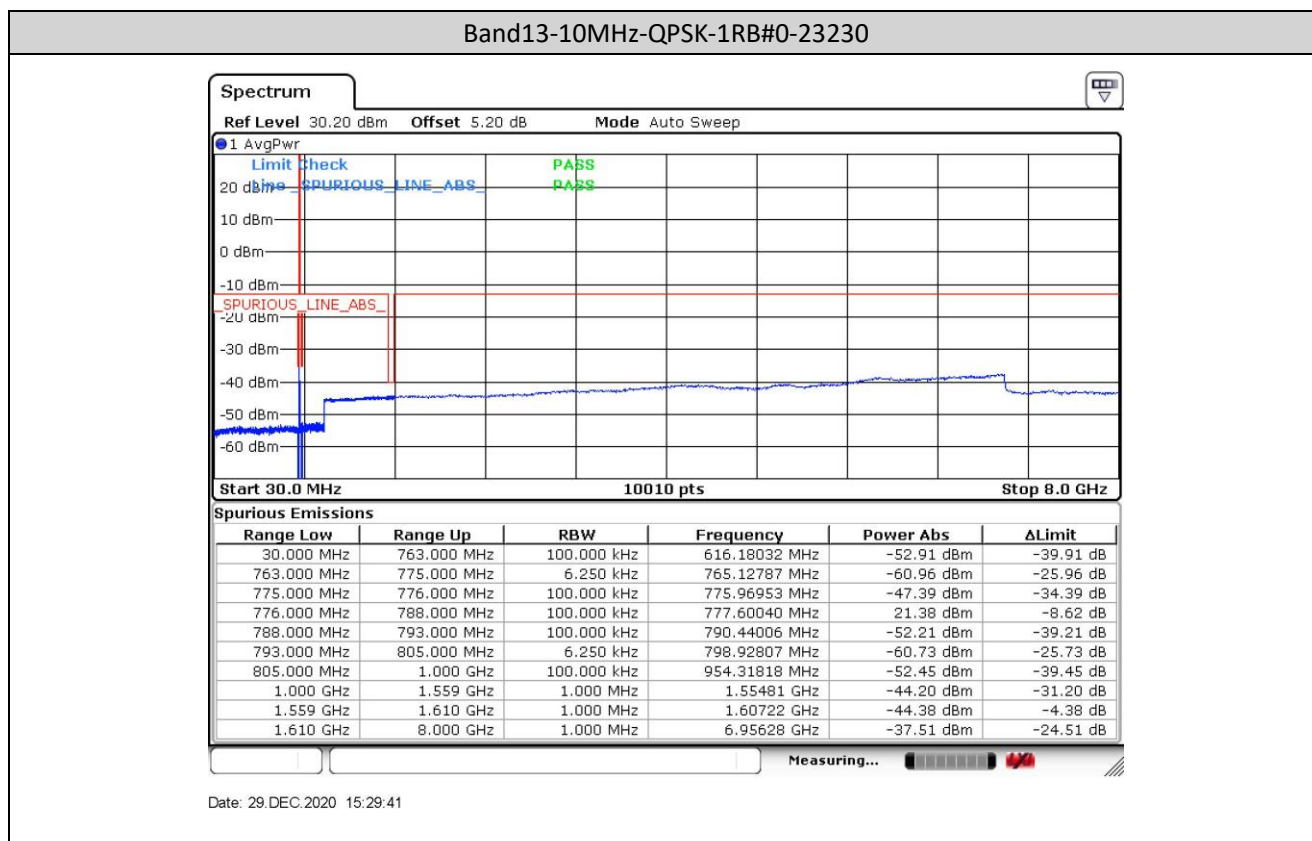
Member of the SGS Group (SGS SA)

6. Spurious Emission at Antenna Terminal

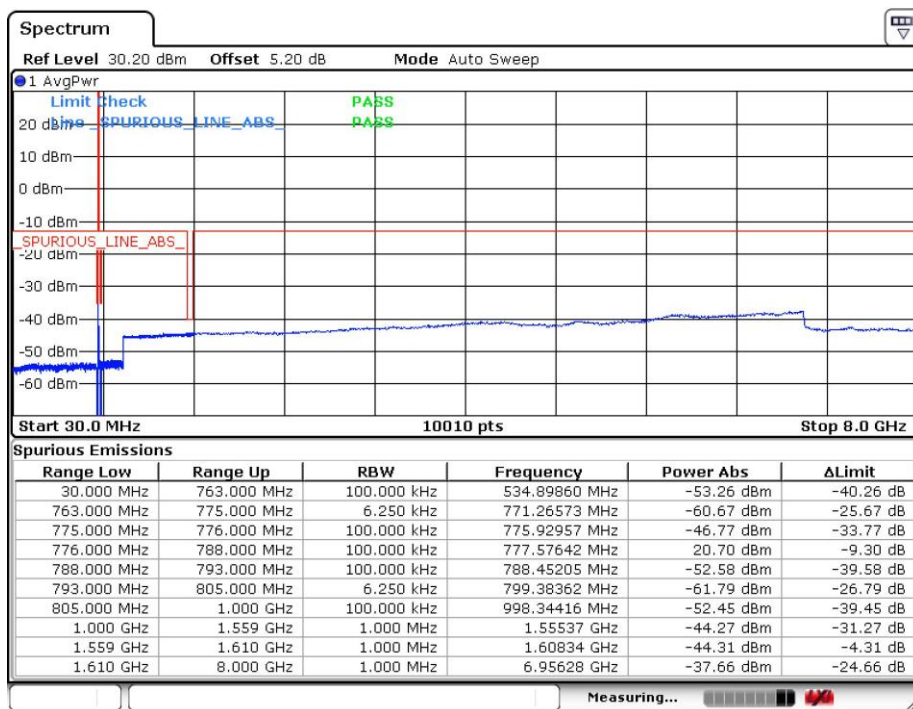
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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



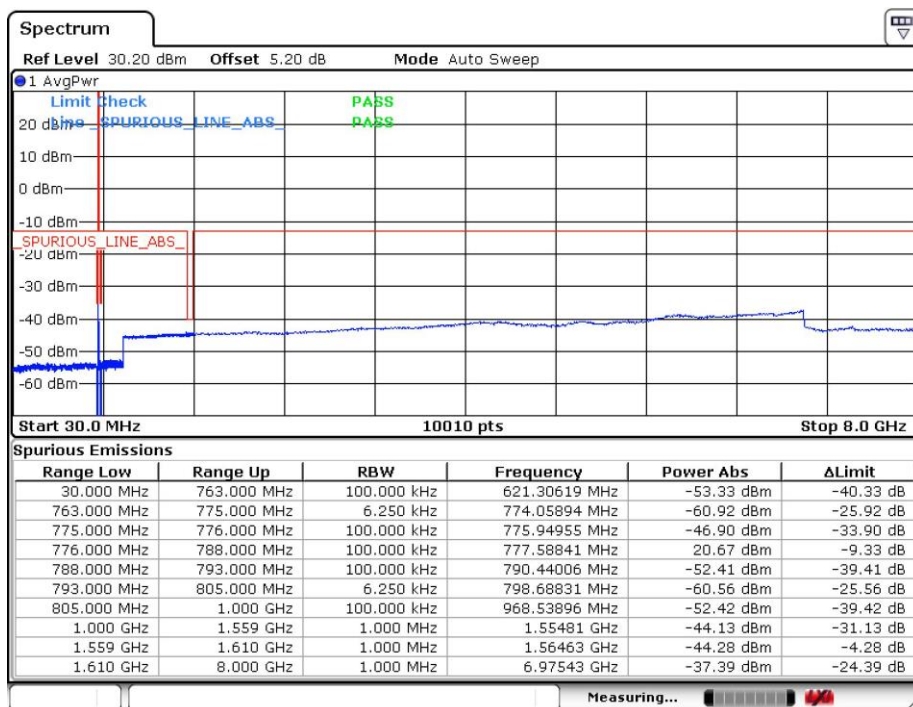
Band13-10MHz-16QAM-1RB#0-23230



Date: 29.DEC.2020 15:29:57



Band13-10MHz-64QAM-1RB#0-23230



Date: 29.DEC.2020 15:30:08





7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz(ANT1)

7.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
63.180000	-79.99	-13.00	66.99	162	343	Vertical
104.246667	-81.80	-13.00	68.80	158	279	Vertical
330.580000	-83.34	-13.00	70.34	272	297	Vertical
1555.000000	-64.61	-13.00	51.61	188	189	Vertical
2332.500000	-58.31	-13.00	45.31	247	138	Vertical
4303.087500	-65.59	-13.00	52.59	286	122	Vertical
57.113333	-75.05	-13.00	62.05	214	88	Horizontal
159.406667	-83.14	-13.00	70.14	226	127	Horizontal
324.140000	-83.63	-13.00	70.63	222	155	Horizontal
1555.500000	-65.06	-13.00	52.06	266	135	Horizontal
1581.000000	-65.40	-40.00	25.40	278	0	Horizontal
2665.500000	-57.60	-13.00	44.60	177	78	Horizontal

7.2. Test Mode =LTE/TM1 10MHz(ANT0)

7.2.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
62.993333	-80.04	-13.00	67.04	185	11	Vertical
124.966667	-83.18	-13.00	70.18	175	180	Vertical
343.366667	-83.27	-13.00	70.27	223	85	Vertical
1584.500000	-65.56	-40.00	25.56	198	103	Vertical
2332.500000	-57.71	-13.00	44.71	284	6	Vertical
4343.062500	-65.70	-13.00	52.70	284	13	Vertical
63.086667	-75.16	-13.00	62.16	156	66	Horizontal
90.573333	-82.32	-13.00	69.32	203	158	Horizontal
300.993333	-83.31	-13.00	70.31	179	180	Horizontal
1455.000000	-65.79	-13.00	52.79	210	1	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
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



2332.500000	-56.66	-13.00	43.66	176	152	Horizontal
4393.275000	-65.41	-13.00	52.41	183	154	Horizontal

Remark:

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



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

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

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



8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	1.90	0.002430	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-4.30	-0.005499	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-2.10	-0.002685	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VL	NT	-3.60	-0.004604	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VN	NT	0.60	0.000767	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VH	NT	-0.10	-0.000128	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-3.90	-0.004987	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-5.90	-0.007545	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-1.20	-0.001535	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-5.20	-0.006650	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	2.30	0.002941	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	2.10	0.002685	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	1.90	0.002430	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.60	0.002046	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-2.90	-0.003708	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	0.10	0.000128	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	2.60	0.003325	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	2.50	0.003197	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-30	-3.90	-0.004987	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-20	1.70	0.002174	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	0	-1.20	-0.001535	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	10	-3.70	-0.004731	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	20	0.80	0.001023	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	30	0.30	0.000384	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	40	-2.20	-0.002813	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	50	-4.30	-0.005499	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	1.60	0.002046	±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 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



Band13	10MHz	16QAM	23230	50RB#0	NV	-20	3.50	0.004476	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	-2.50	-0.003197	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-0.80	-0.001023	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	1.50	0.001918	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	0.20	0.000256	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-4.80	-0.006138	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-3.30	-0.004220	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-1.50	-0.001918	±2.5	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (2010) China CCC 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