



Appendix B

E-UTRA Band 12



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

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



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	4
1.1.	TEST RESULT	4
2.	PEAK-TO-AVERAGE RATIO (CCDF)	10
2.1.	TEST RESULT	10
2.2.	TEST PLOTS.....	10
3.	MODULATION CHARACTERISTICS	14
3.1.	TEST MODE = LTE /TM1 10MHZ.....	14
3.1.1.	TEST CHANNEL = MCH.....	14
3.2.	TEST MODE = LTE /TM2 10MHZ.....	15
3.2.1.	TEST CHANNEL = MCH.....	15
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	16
4.1.	TEST RESULT	16
4.2.	TEST PLOTS.....	17
5.	BAND EDGE COMPLIANCE	29
5.1.	TEST PLOTS.....	29
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	46
6.1.	TEST PLOTS.....	46
7.	FIELD STRENGTH OF SPURIOUS RADIATION	53
7.1.	Test Band = LTE_12_TM1	53
7.1.1.	Test Channel = Low Channel	53
7.2.	Test Band = LTE_12_TM1	54
7.2.1.	Test Channel = Low Channel	54
7.3.	Test Band = LTE_12_TM1	55
7.3.1.	Test Channel = Mid Channel	55
7.4.	Test Band = LTE_12_TM1	56
7.4.1.	Test Channel = Mid Channel	56
7.5.	Test Band = LTE_12_TM1	57
7.5.1.	Test Channel = High Channel	57
7.6.	Test Band = LTE_12_TM1	58
7.6.1.	Test Channel = High Channel	58



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



8.	FREQUENCY STABILITY	59
8.1.	FREQUENCY VS VOLTAGE	59
8.2.	FREQUENCY VS TEMPERATURE	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-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



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.25	25.47	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.47	25.69	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.36	25.58	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.38	25.60	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.30	25.52	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.52	25.74	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.50	24.72	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.17	25.39	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.48	25.70	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.19	25.41	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.41	25.63	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.33	25.55	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.35	25.57	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.56	24.78	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.27	25.49	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.36	25.58	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.23	25.45	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.34	25.56	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.41	25.63	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.33	25.55	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.46	24.68	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.35	24.57	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.76	24.98	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.21	24.43	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.40	24.62	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.49	24.71	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.37	24.59	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
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



Band12	1.4MHz	16QAM	23017	6RB#0	21.42	23.64	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.14	24.36	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.84	25.06	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.36	24.58	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.18	24.40	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.32	24.54	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.12	24.34	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.43	23.65	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.27	24.49	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.79	25.01	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.20	24.42	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.30	24.52	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.39	24.61	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.20	24.42	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.40	23.62	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.29	25.51	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.38	25.60	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.38	25.60	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.27	24.49	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.41	24.63	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.40	24.62	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.33	24.55	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.25	25.47	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.29	25.51	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.26	25.48	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.26	24.48	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.47	24.69	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.36	24.58	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.38	24.60	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.30	25.52	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.37	25.59	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.32	25.54	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.42	24.64	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
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



Band12	3MHz	QPSK	23165	8RB#7	22.39	24.61	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.40	24.62	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.37	24.59	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.29	24.51	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.39	24.61	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.21	24.43	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.47	23.69	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.52	23.74	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.56	23.78	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.34	23.56	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.69	24.91	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.70	24.92	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.71	24.93	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.45	23.67	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.45	23.67	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.42	23.64	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.34	23.56	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.36	24.58	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.30	24.52	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.56	24.78	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.52	23.74	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.32	23.54	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.30	23.52	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.36	23.58	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.12	25.34	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.26	25.48	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.20	25.42	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.35	24.57	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.42	24.64	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.48	24.70	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.44	24.66	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.21	25.43	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.27	25.49	34.77	PASS





Band12	5MHz	QPSK	23095	1RB#12	23.17	25.39	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.25	24.47	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.36	24.58	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.29	24.51	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.42	24.64	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.11	25.33	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.36	25.58	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.20	25.42	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.41	24.63	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.46	24.68	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.32	24.54	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.42	24.64	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.64	24.86	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.65	24.87	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.61	24.83	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.32	23.54	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.35	23.57	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.38	23.60	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.32	23.54	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.27	24.49	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.39	24.61	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.53	24.75	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.26	23.48	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.27	23.49	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.25	23.47	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.39	23.61	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.34	24.56	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.60	24.82	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.36	24.58	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.36	23.58	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.43	23.65	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.40	23.62	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.49	23.71	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. 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
Shenzhen Branch (CMAA) Laboratory 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



Band12	10MHz	QPSK	23060	1RB#49	23.32	25.54	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.33	25.55	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.32	25.54	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.31	24.53	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.41	24.63	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.56	24.78	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.53	24.75	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.26	25.48	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.35	25.57	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.38	25.60	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.36	24.58	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.48	24.70	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.49	24.71	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.34	24.56	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.16	25.38	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.27	25.49	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.35	25.57	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.39	24.61	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.36	24.58	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.40	24.62	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.48	24.70	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.68	24.90	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.82	25.04	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.72	24.94	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.33	23.55	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.41	23.63	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.47	23.69	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.40	23.62	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.40	24.62	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.52	24.74	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.85	25.07	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.27	23.49	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.38	23.60	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. 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
Shenzhen Branch (CSTC) Laboratory. 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

Band12	10MHz	16QAM	23095	25RB#12	21.41	23.63	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.32	23.54	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.65	24.87	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.63	24.85	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.69	24.91	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.28	23.50	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.46	23.68	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.26	23.48	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.39	23.61	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 (Testing Center) EEC Laboratory

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

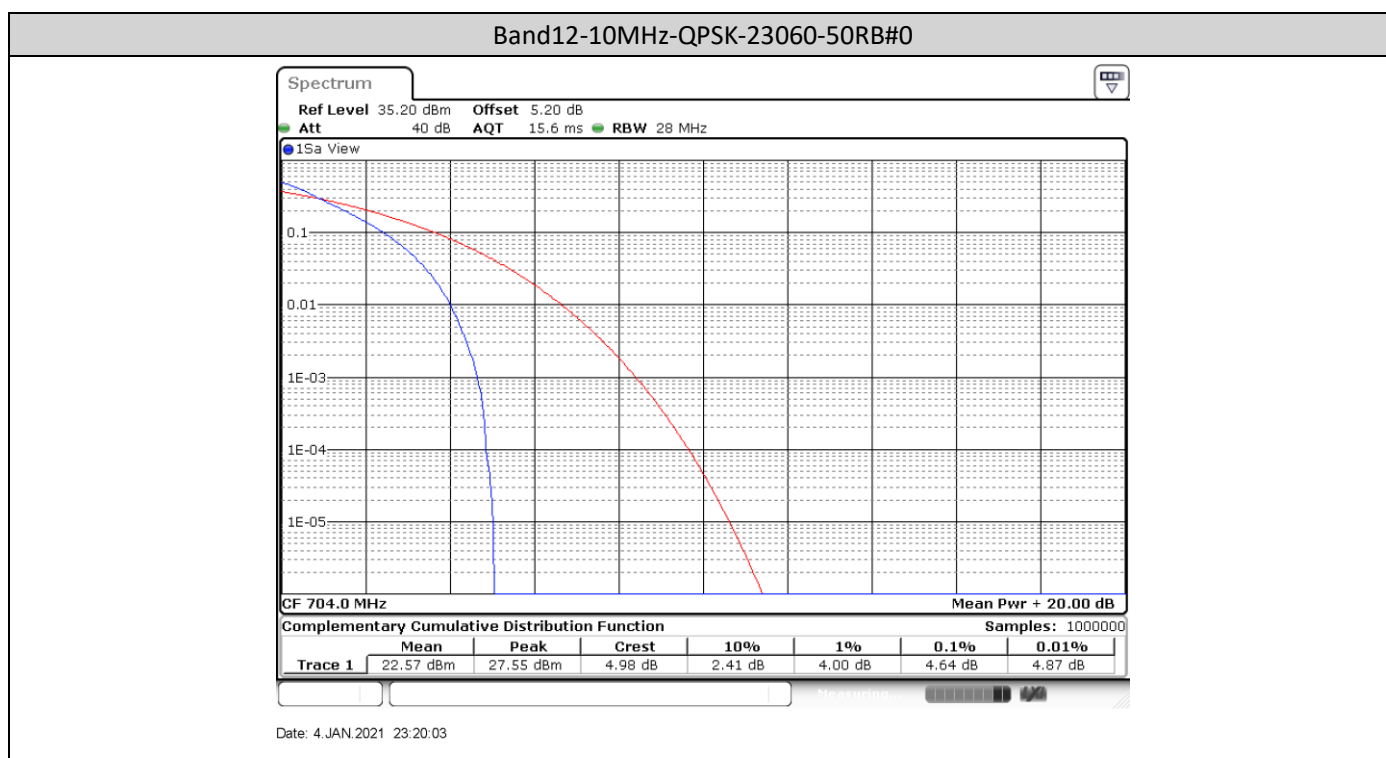


2. Peak-to-Average Ratio (CCDF)

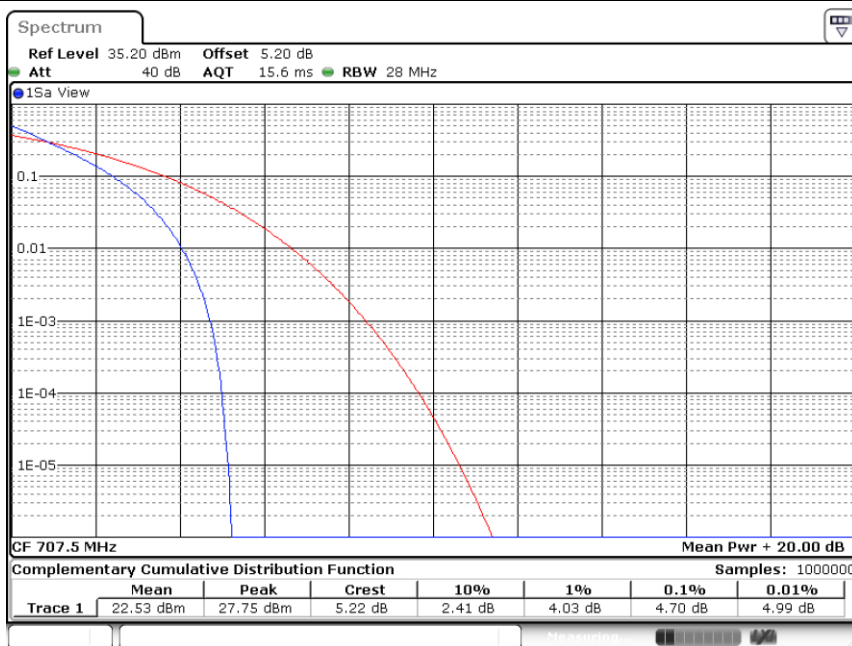
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	4.64	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.70	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.78	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.42	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.54	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.62	13	PASS

2.2. Test Plots

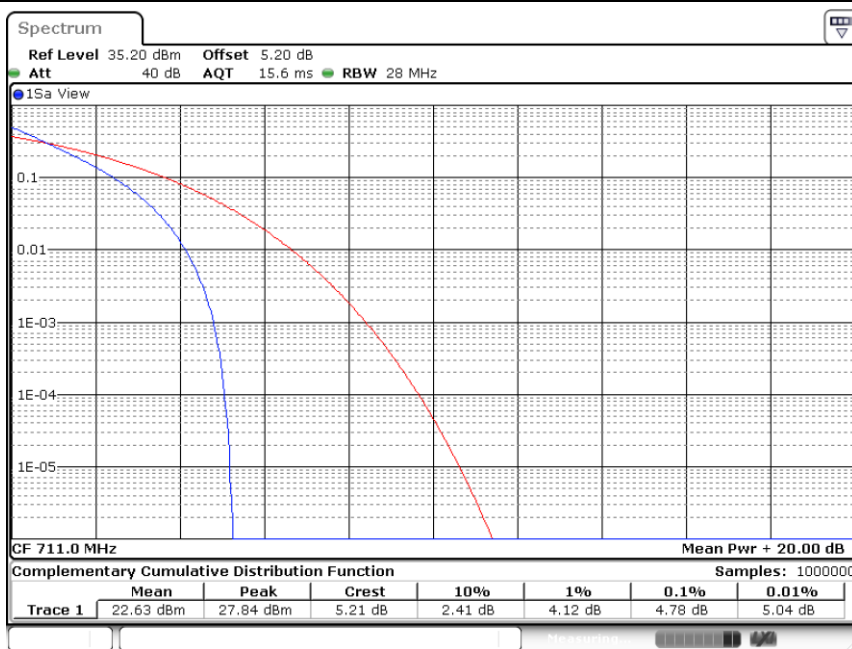


Band12-10MHz-QPSK-23095-50RB#0



Date: 4.JAN.2021 23:20:26

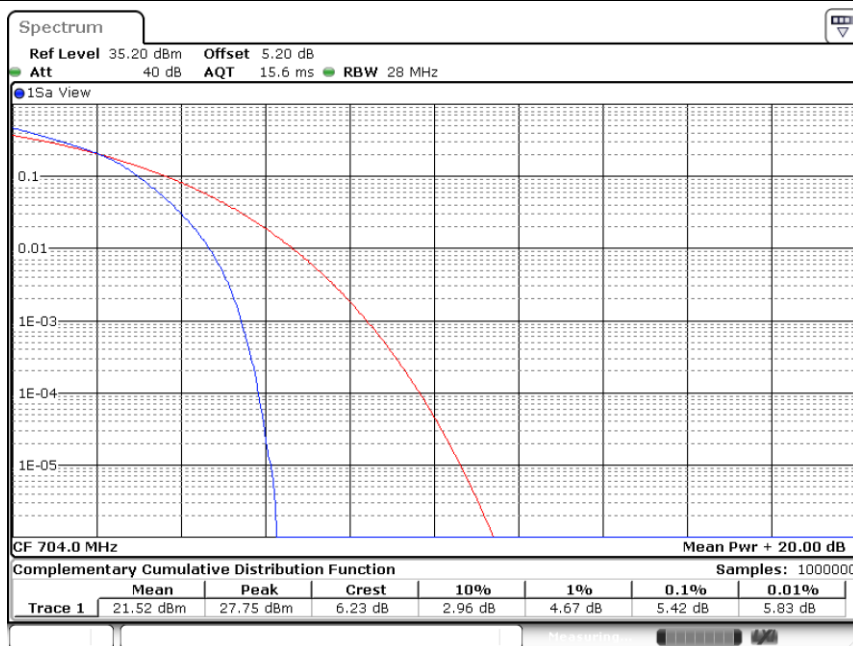
Band12-10MHz-QPSK-23130-50RB#0



Date: 4.JAN.2021 23:20:49

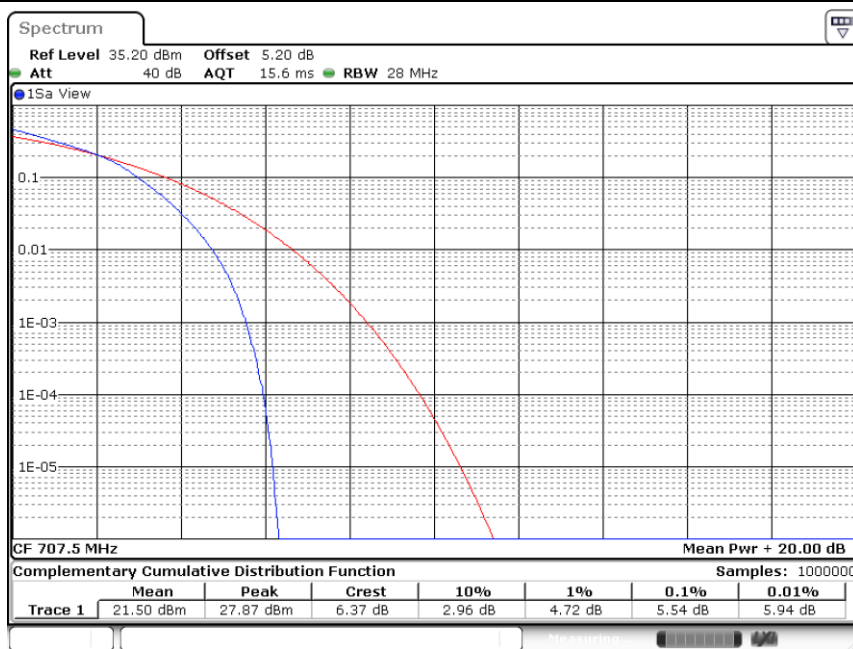


Band12-10MHz-16QAM-23060-50RB#0



Date: 4 JAN.2021 23:20:15

Band12-10MHz-16QAM-23095-50RB#0

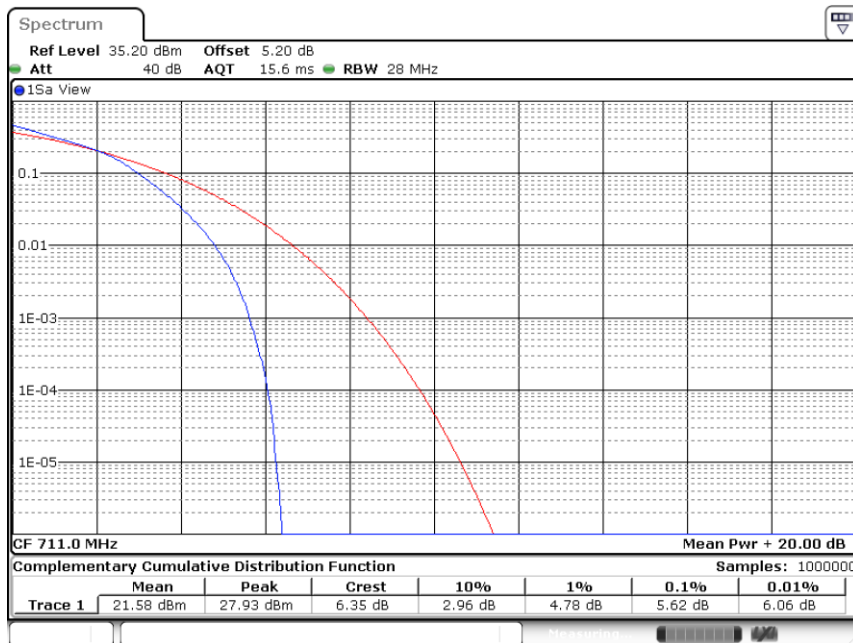


Date: 4 JAN.2021 23:20:37





Band12-10MHz-16QAM-23130-50RB#0



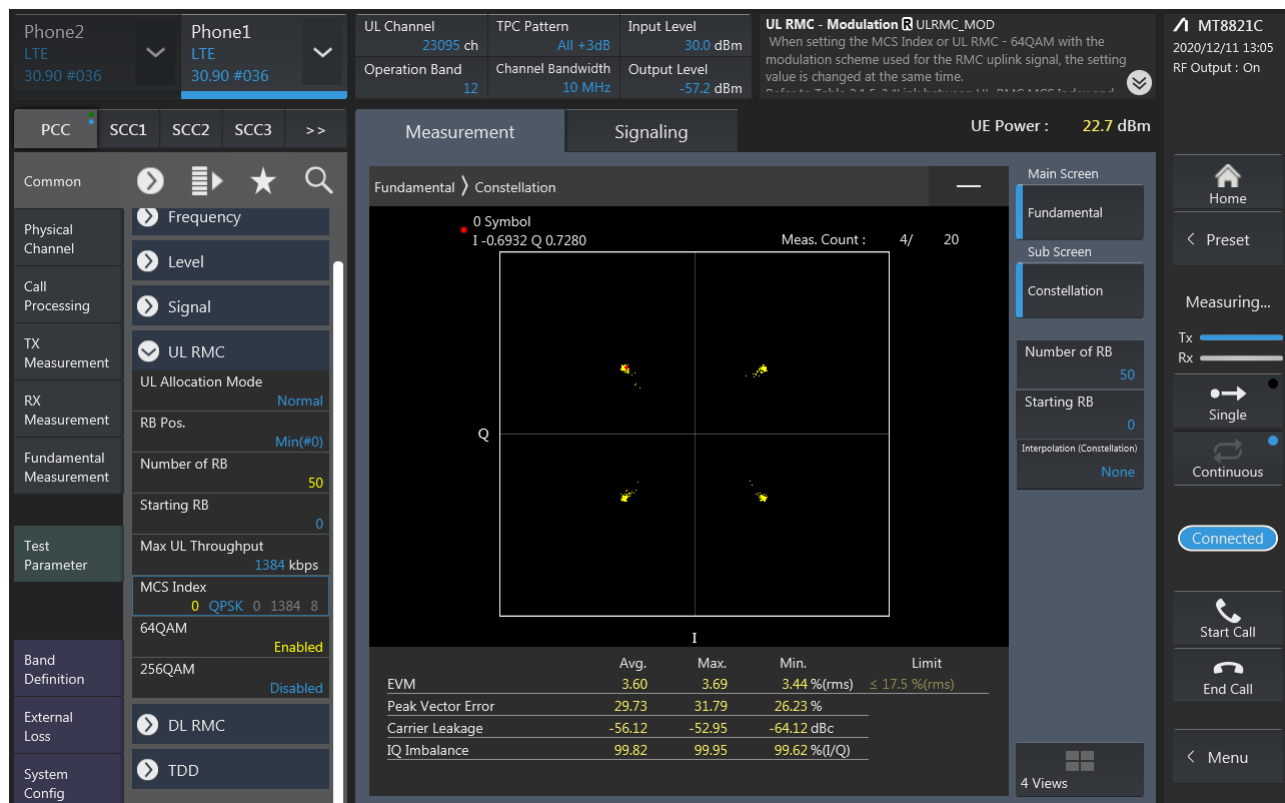
Date: 4.JAN.2021 23:21:00



3. Modulation Characteristics

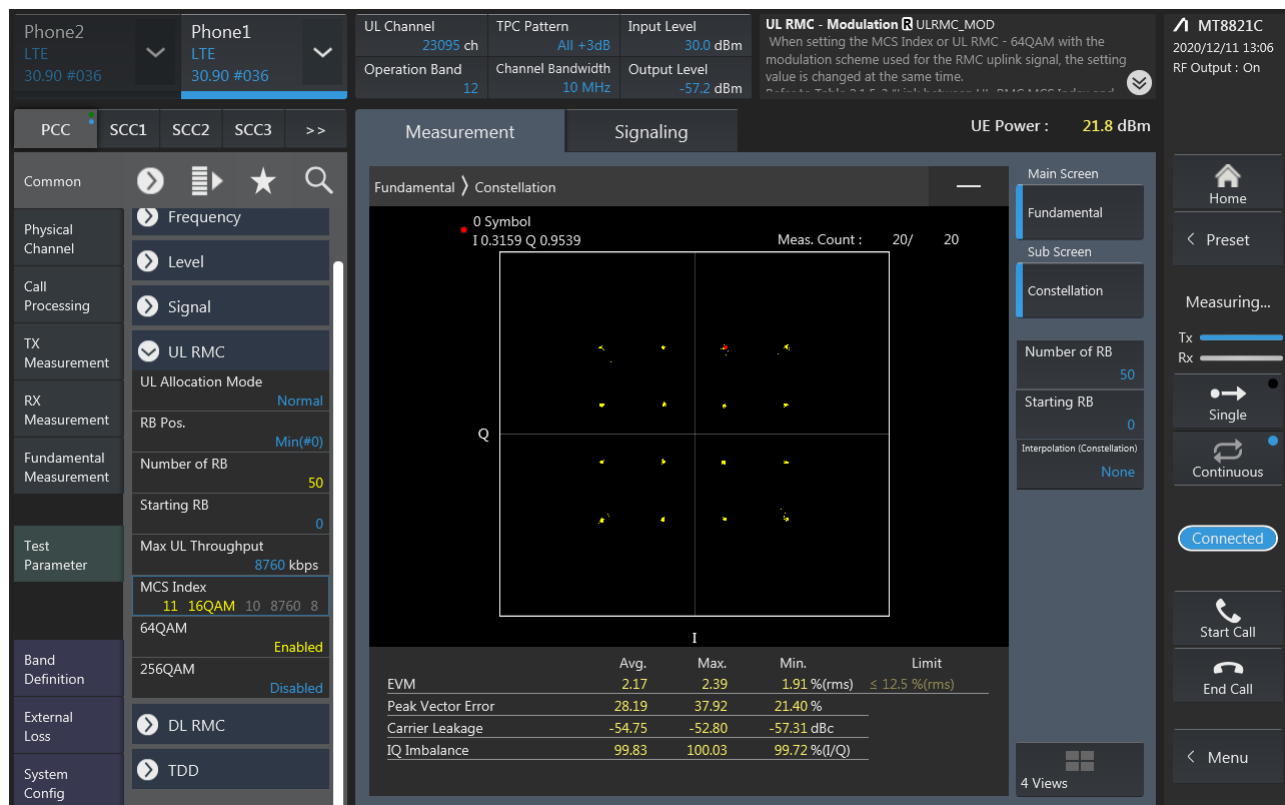
3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

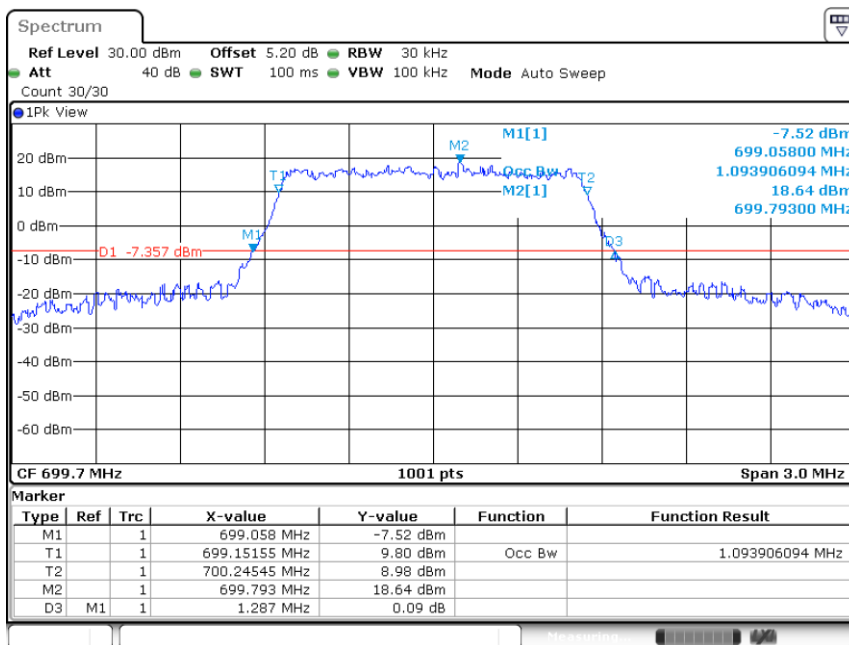
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.094	1.287	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.088	1.287	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.094	1.296	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.091	1.281	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.088	1.290	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.094	1.290	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.691	2.928	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.691	2.922	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.691	2.934	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.679	2.904	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.679	2.904	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.679	2.898	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.486	5.100	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	5.200	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.486	5.090	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.496	5.110	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.496	5.090	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.496	5.110	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.931	9.860	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.931	9.860	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.951	9.920	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.951	9.880	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.931	9.860	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.971	9.860	PASS





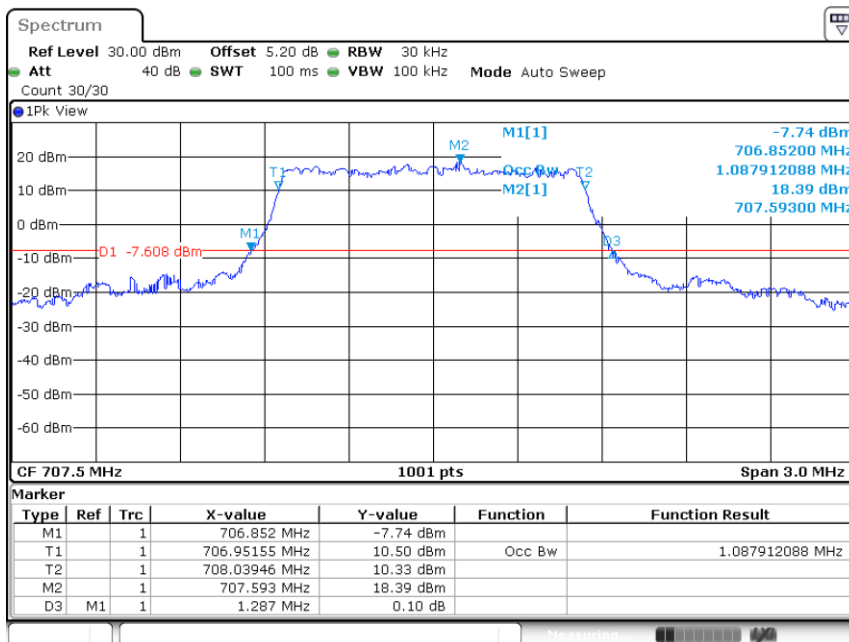
4.2. Test Plots

Band12-1.4MHz-QPSK-23017-6RB#0-1.094



Date: 4.JAN.2021 22:53:31

Band12-1.4MHz-QPSK-23095-6RB#0-1.088



Date: 4.JAN.2021 22:53:57



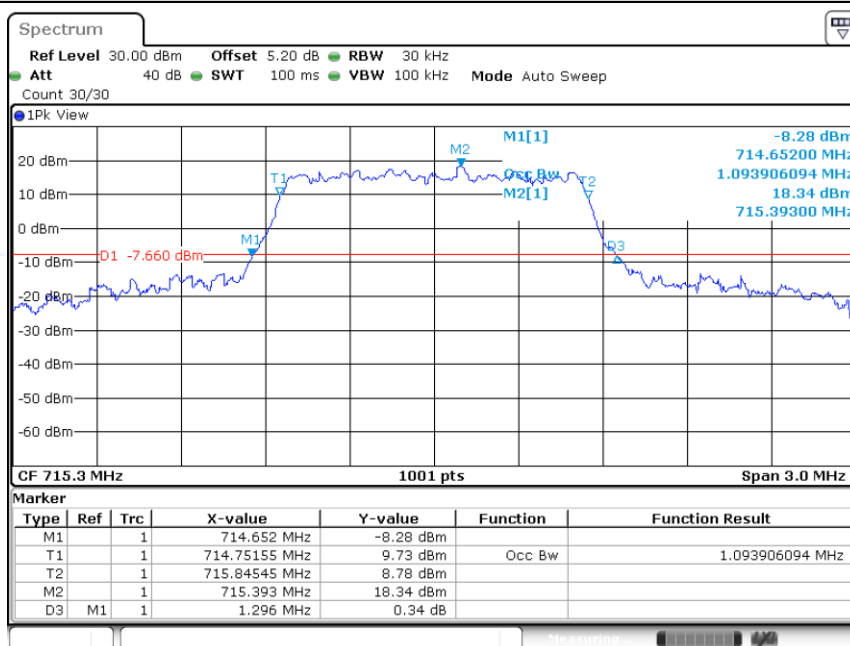
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

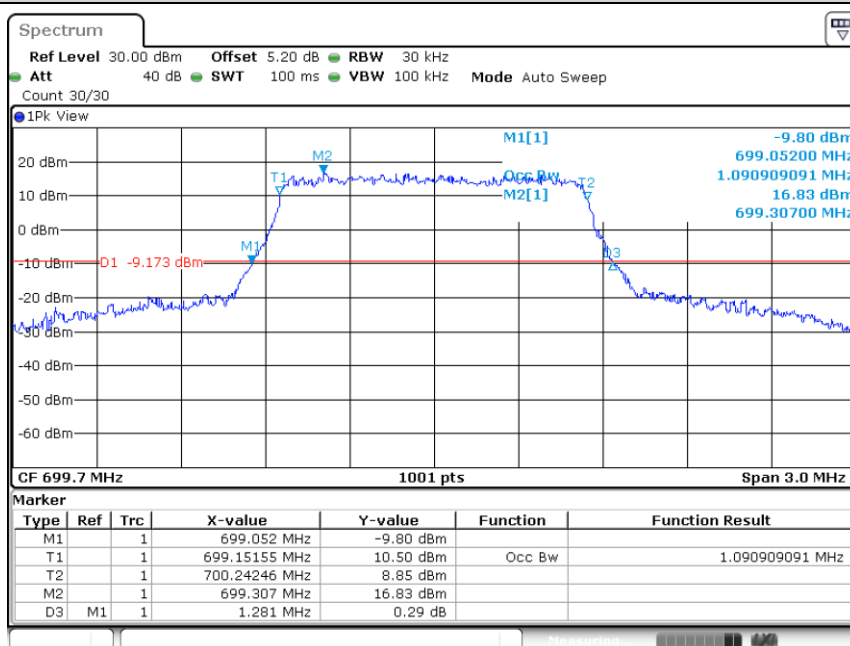


Band12-1.4MHz-QPSK-23173-6RB#0-1.094



Date: 4.JAN.2021 22:54:23

Band12-1.4MHz-16QAM-23017-6RB#0-1.091

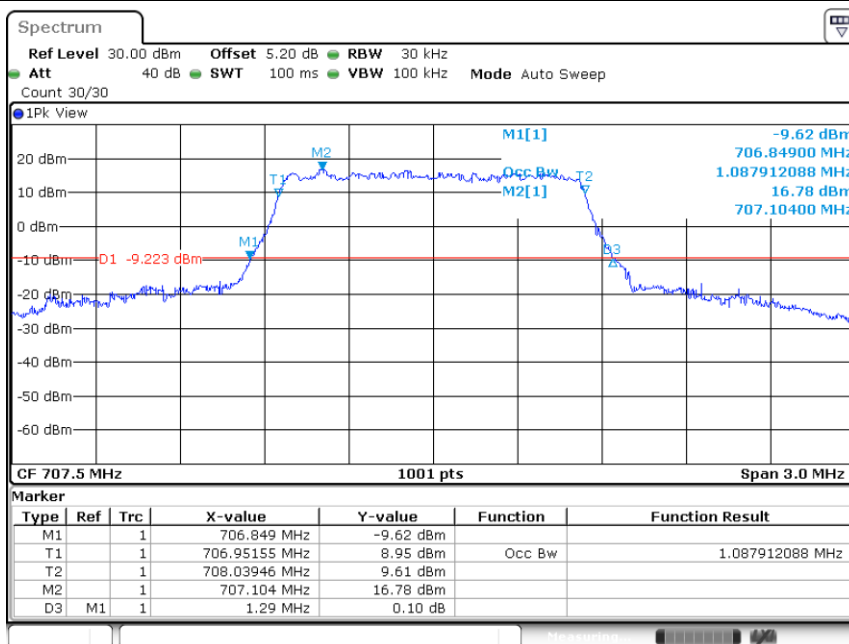


Date: 4.JAN.2021 22:53:44



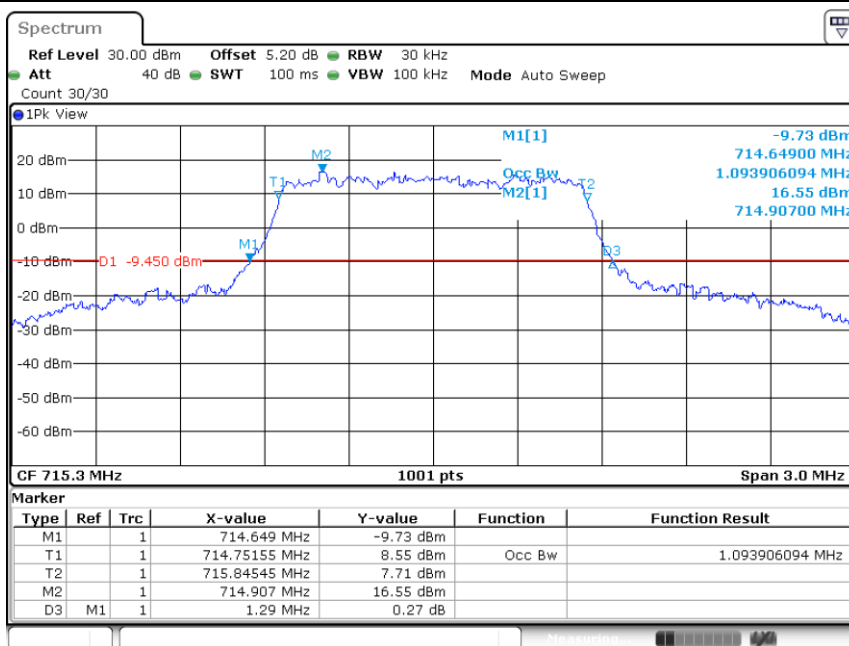


Band12-1.4MHz-16QAM-23095-6RB#0-1.088



Date: 4.JAN.2021 22:54:10

Band12-1.4MHz-16QAM-23173-6RB#0-1.094

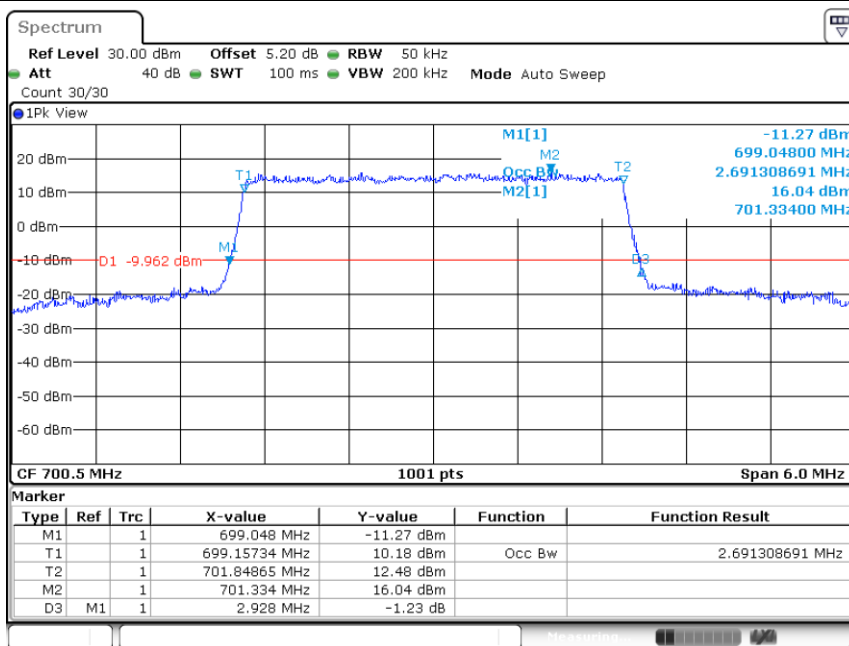


Date: 4.JAN.2021 22:54:35



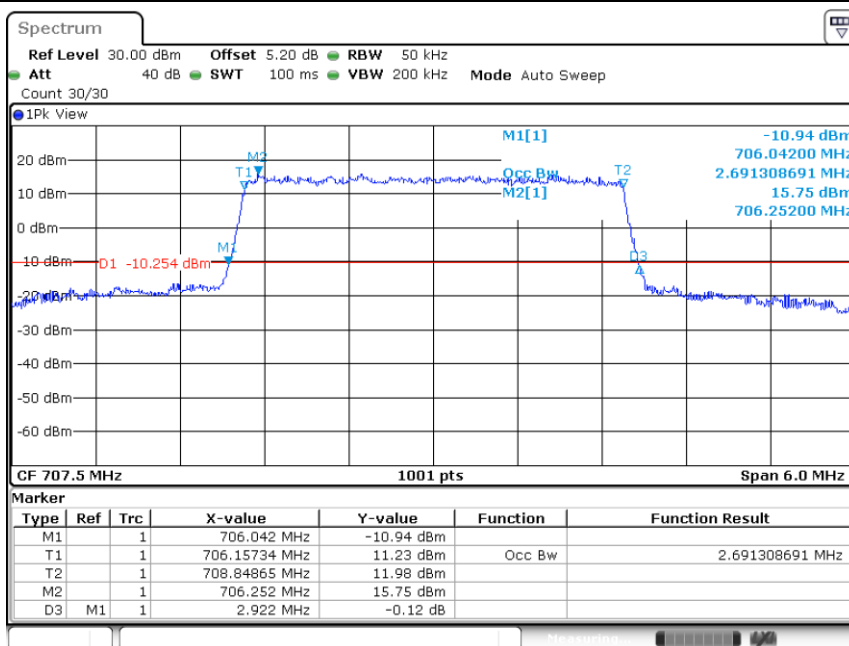


Band12-3MHz-QPSK-23025-15RB#0-2.691



Date: 4.JAN.2021 22:54:53

Band12-3MHz-QPSK-23095-15RB#0-2.691

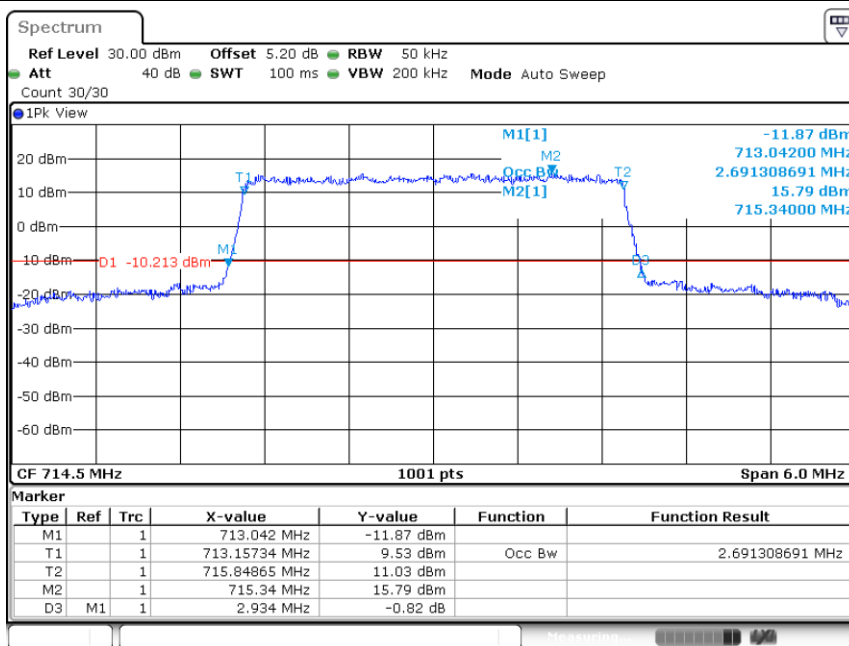


Date: 4.JAN.2021 22:55:19



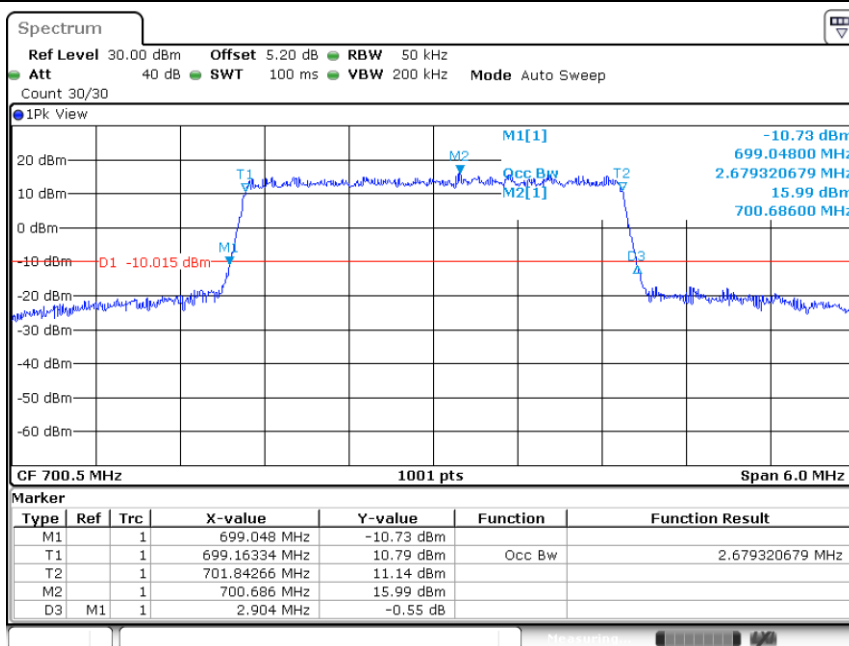


Band12-3MHz-QPSK-23165-15RB#0-2.691



Date: 4.JAN.2021 22:55:44

Band12-3MHz-16QAM-23025-15RB#0-2.679

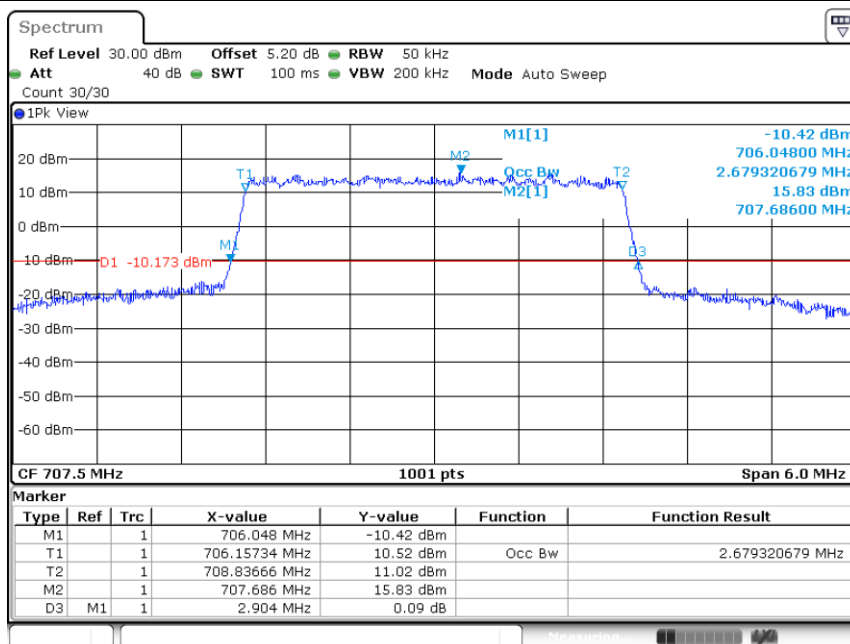


Date: 4.JAN.2021 22:55:06



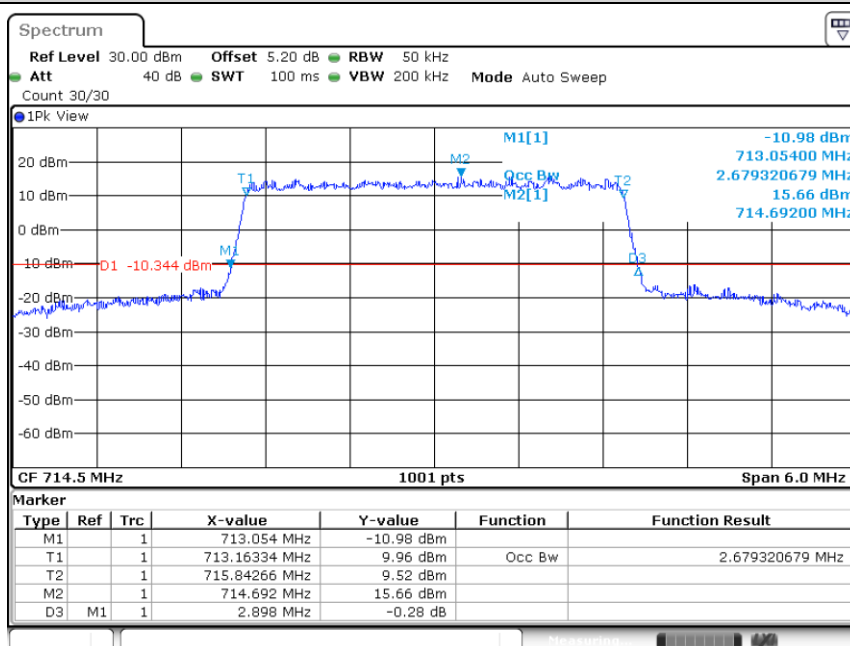


Band12-3MHz-16QAM-23095-15RB#0-2.679



Date: 4.JAN.2021 22:55:31

Band12-3MHz-16QAM-23165-15RB#0-2.679

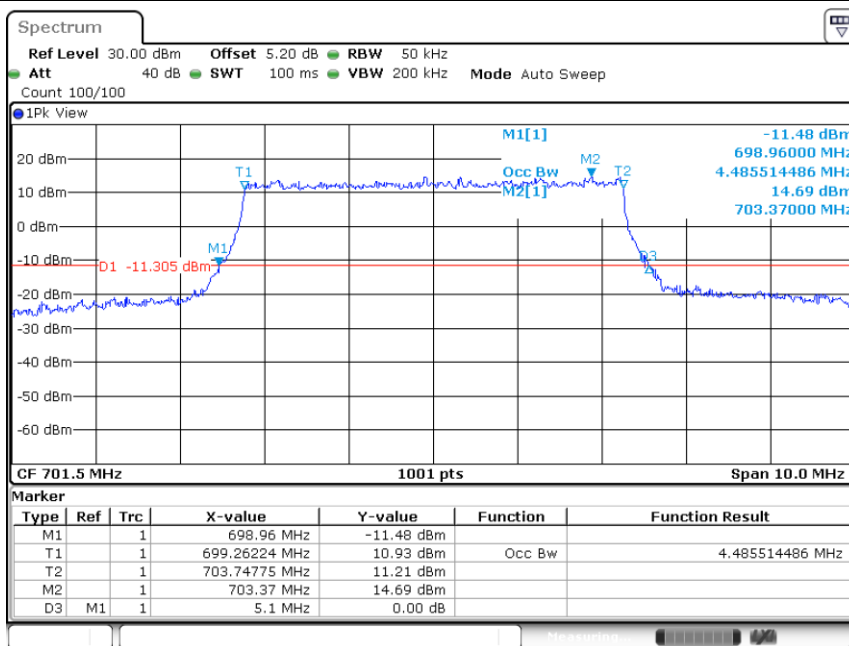


Date: 4.JAN.2021 22:55:57



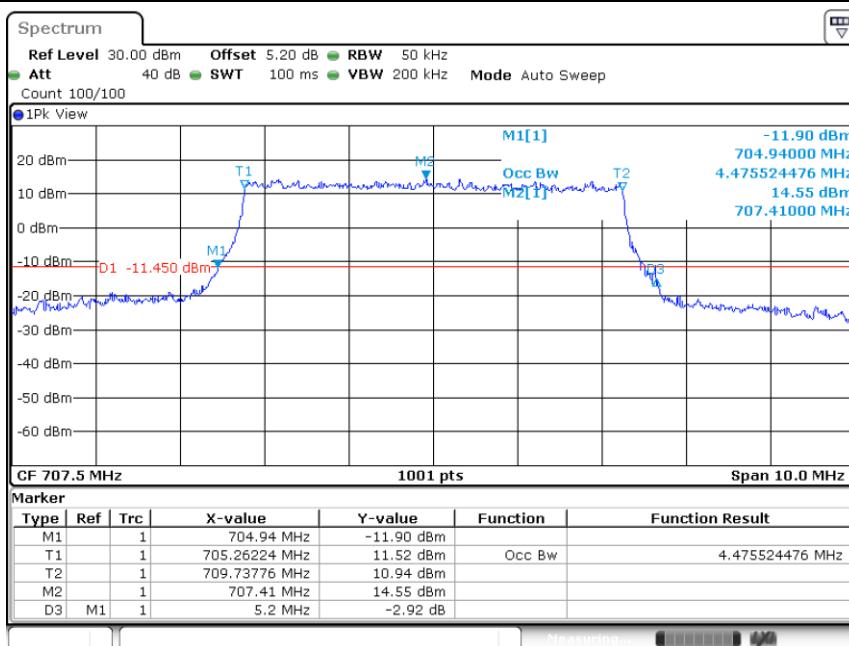


Band12-5MHz-QPSK-23035-25RB#0-4.486



Date: 4.JAN.2021 22:56:21

Band12-5MHz-QPSK-23095-25RB#0-4.476

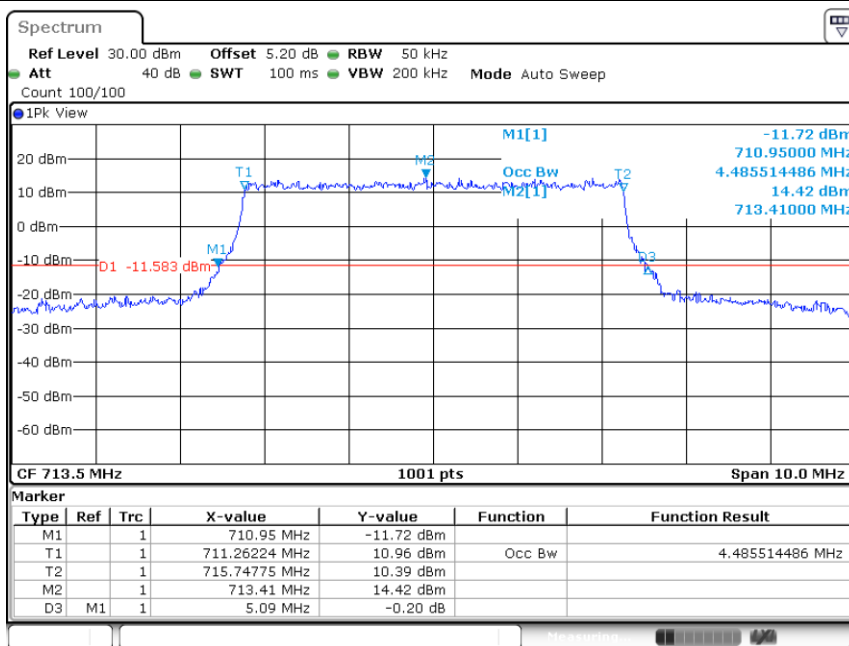


Date: 4.JAN.2021 22:57:02



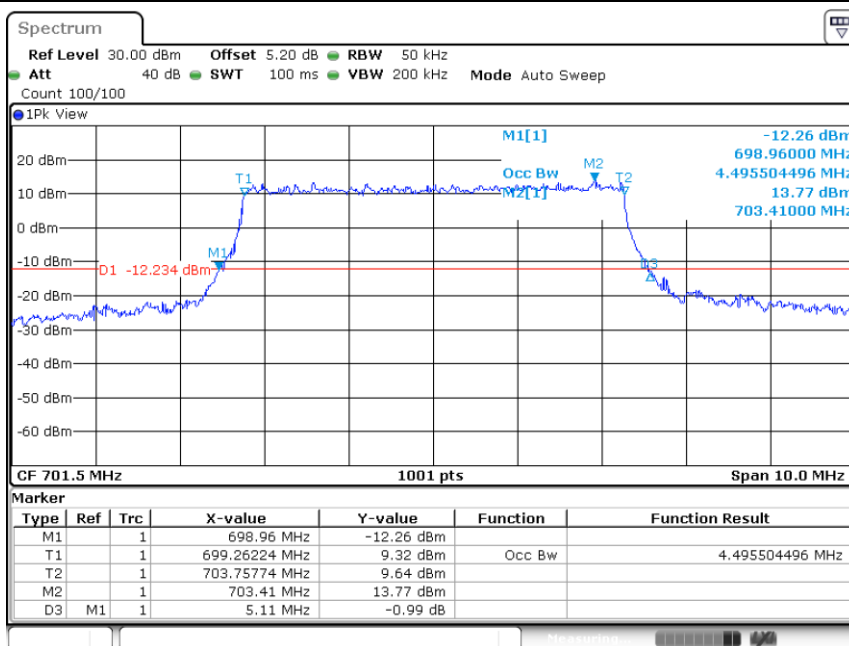


Band12-5MHz-QPSK-23155-25RB#0-4.486



Date: 4.JAN.2021 22:57:42

Band12-5MHz-16QAM-23035-25RB#0-4.496



Date: 4.JAN.2021 22:56:41



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

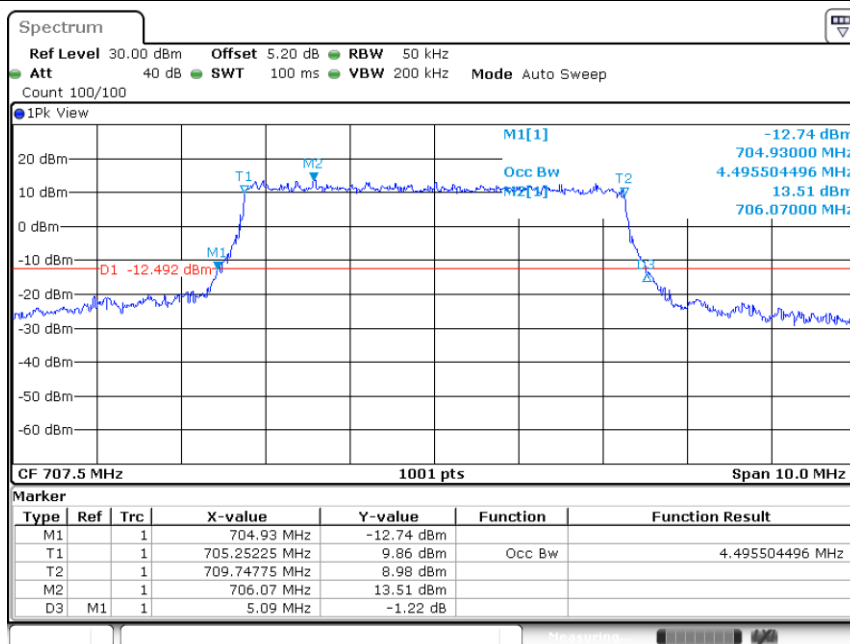
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

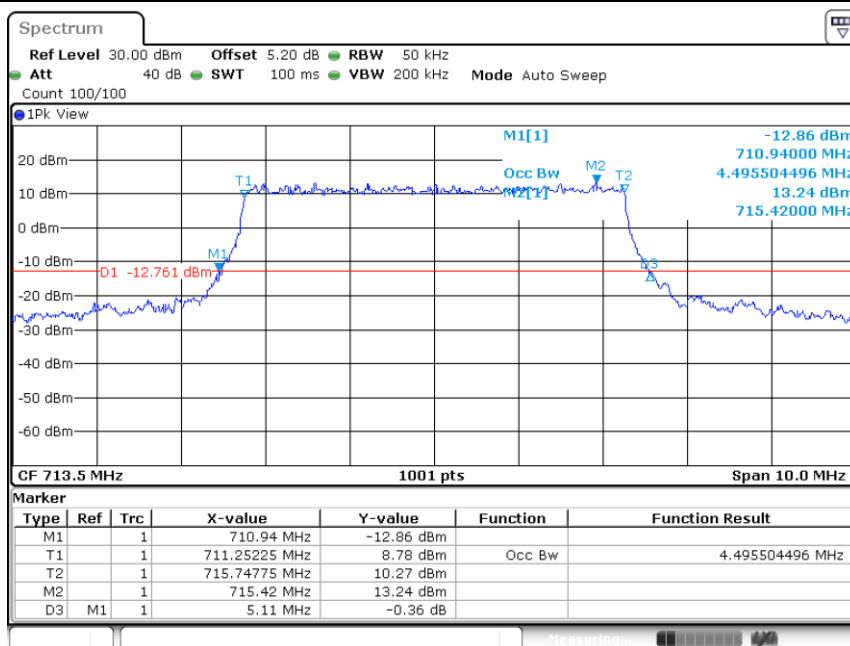


Band12-5MHz-16QAM-23095-25RB#0-4.496



Date: 4.JAN.2021 22:57:21

Band12-5MHz-16QAM-23155-25RB#0-4.496

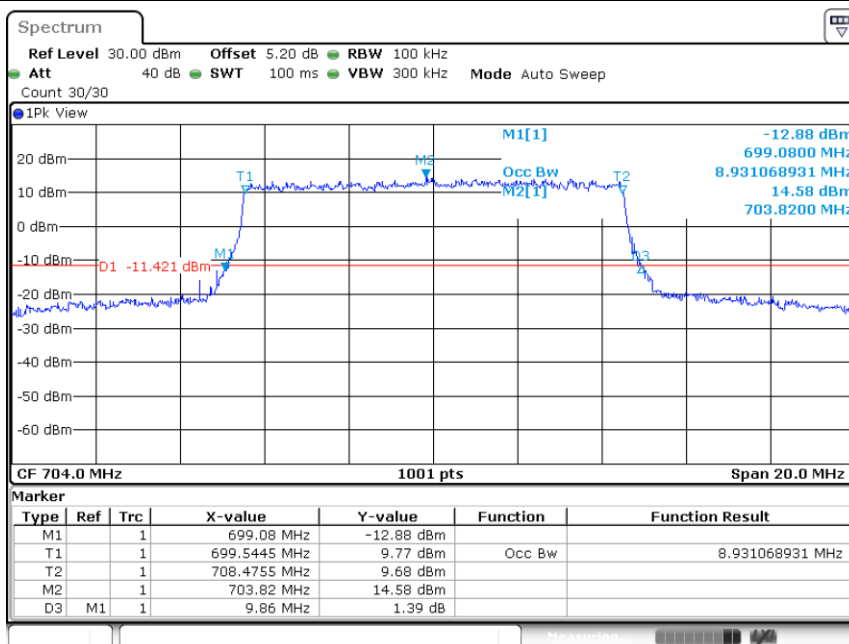


Date: 4.JAN.2021 22:58:02



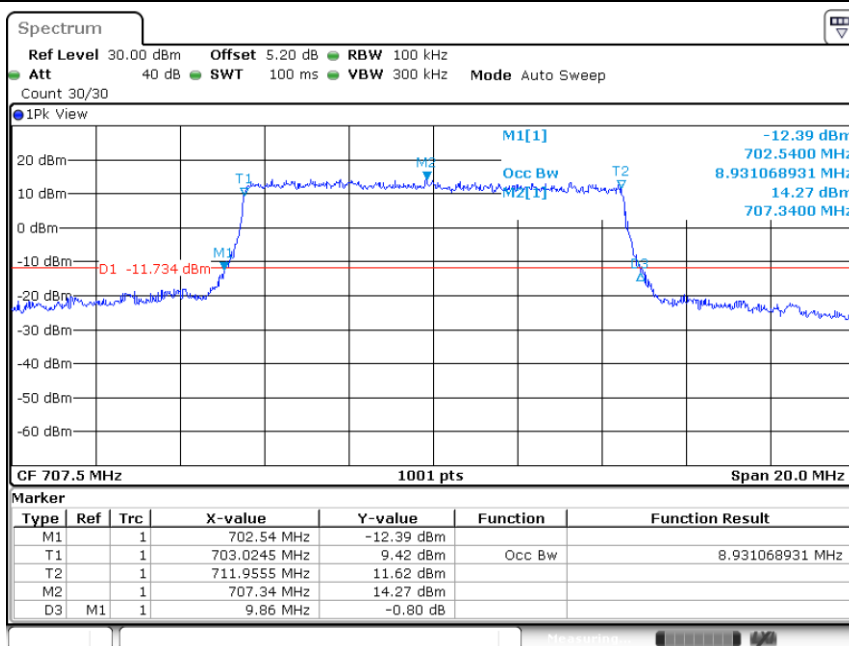


Band12-10MHz-QPSK-23060-50RB#0-8.931



Date: 4.JAN.2021 22:58:19

Band12-10MHz-QPSK-23095-50RB#0-8.931

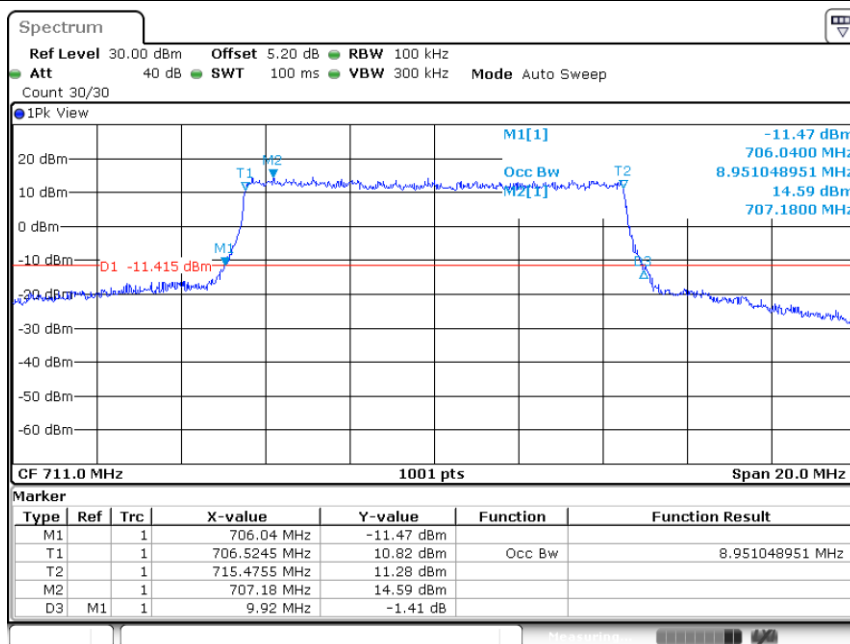


Date: 4.JAN.2021 22:58:45



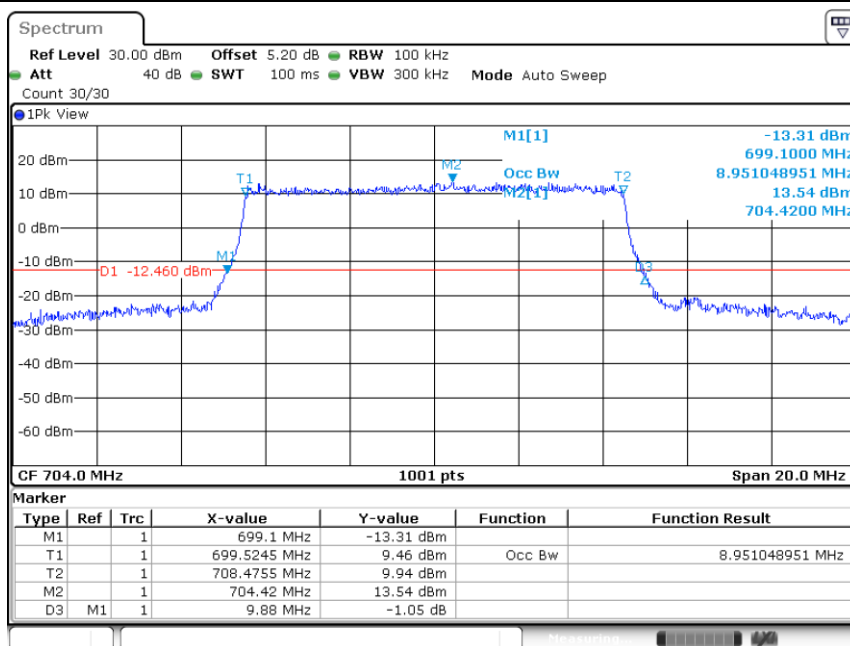


Band12-10MHz-QPSK-23130-50RB#0-8.951



Date: 4.JAN.2021 22:59:11

Band12-10MHz-16QAM-23060-50RB#0-8.951



Date: 4.JAN.2021 22:58:32



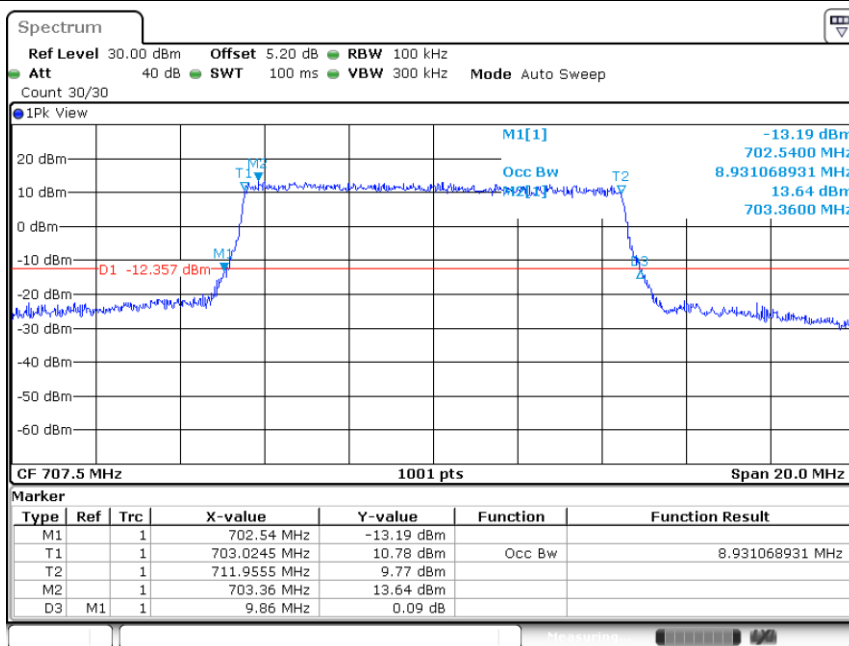
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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 herein reflects the Company's findings at the time of its intervention only and within the limits 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

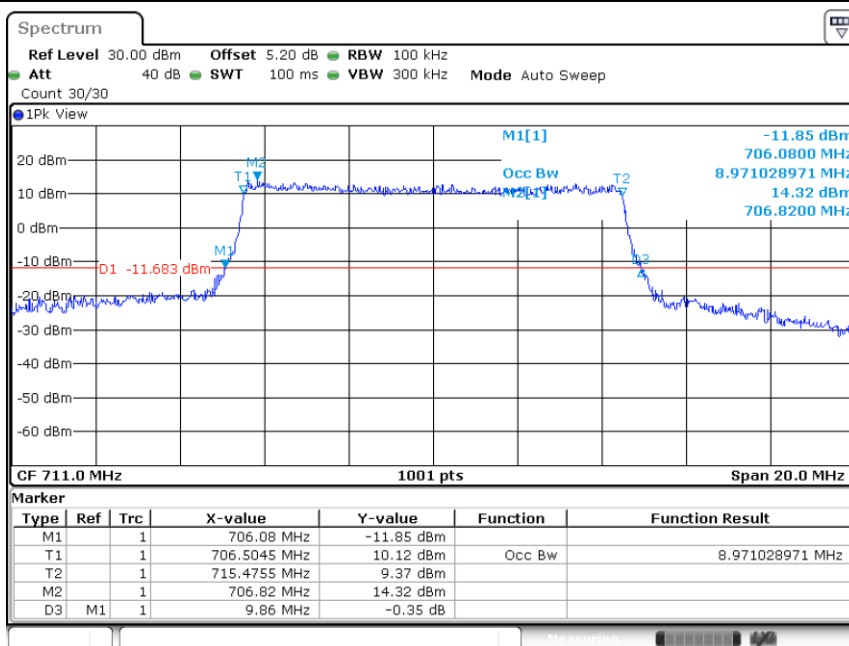


Band12-10MHz-16QAM-23095-50RB#0-8.931



Date: 4.JAN.2021 22:58:58

Band12-10MHz-16QAM-23130-50RB#0-8.971



Date: 4.JAN.2021 22:59:24



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

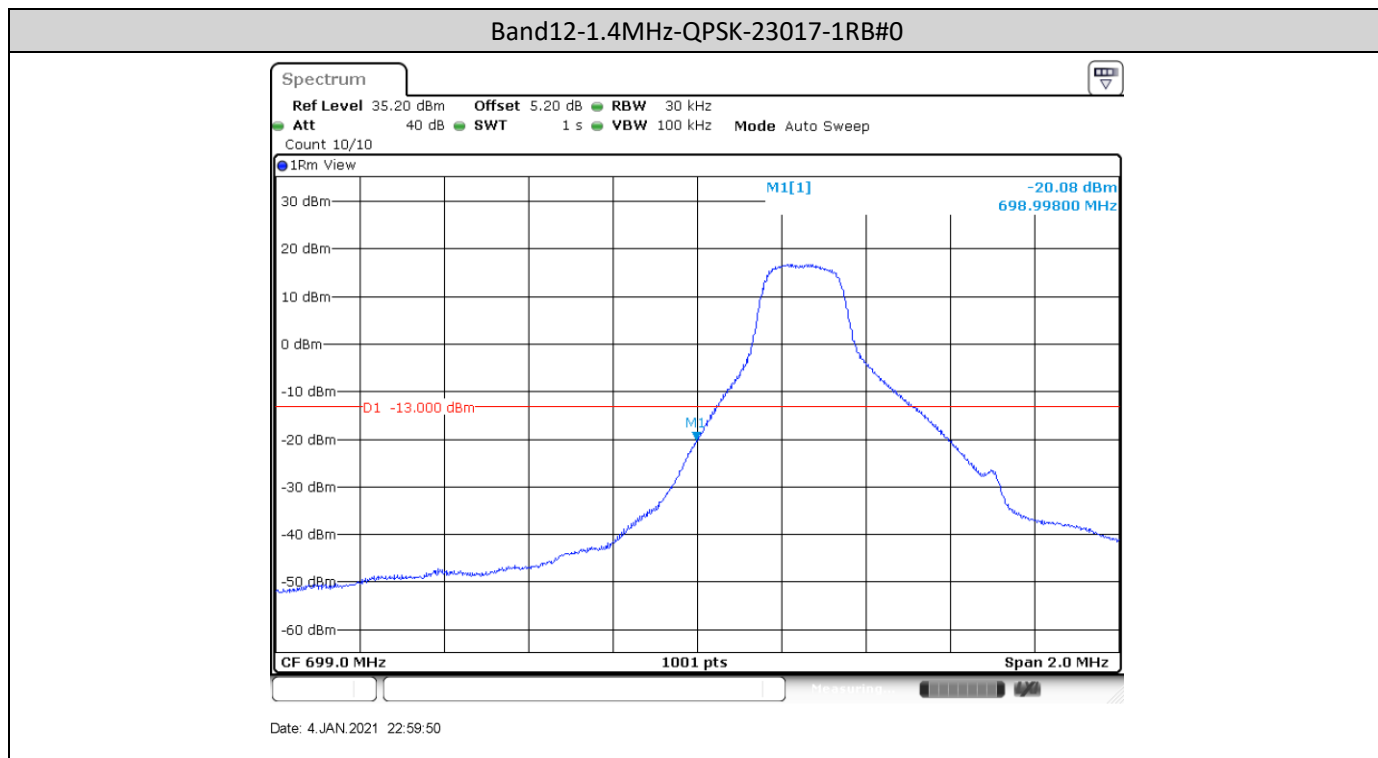
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



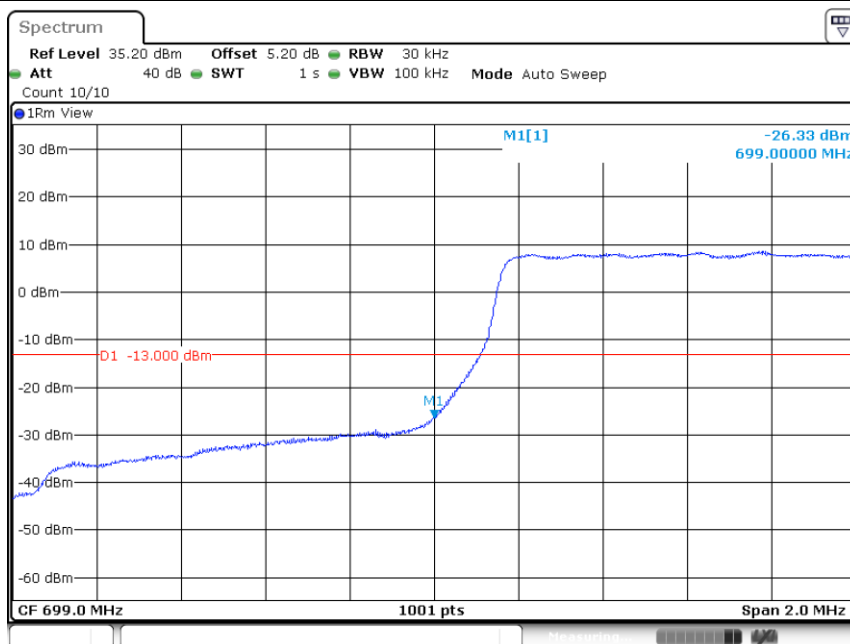
5. Band Edge Compliance

5.1. Test Plots



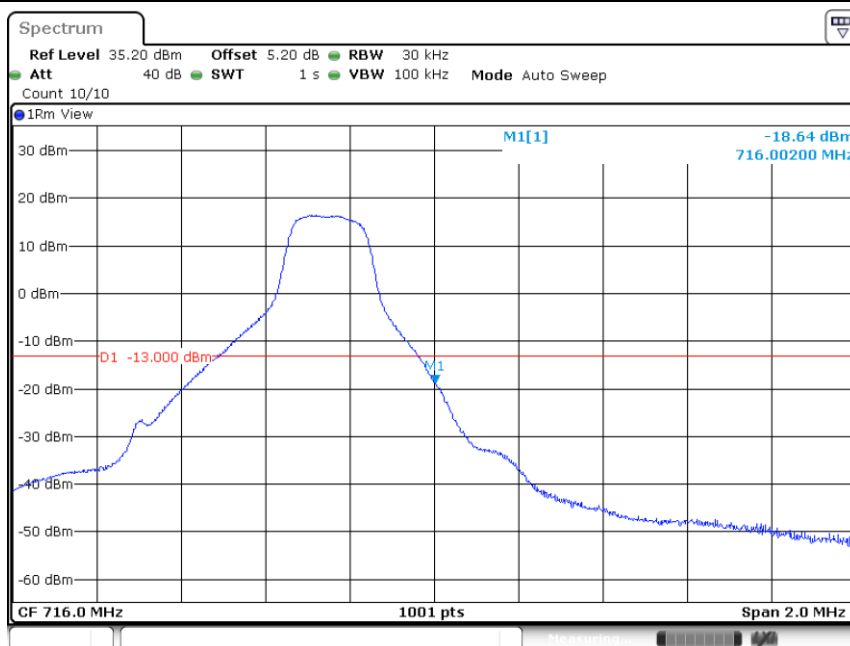


Band12-1.4MHz-QPSK-23017-6RB#0



Date: 4.JAN.2021 23:00:31

Band12-1.4MHz-QPSK-23173-1RB#5



Date: 4.JAN.2021 23:01:17



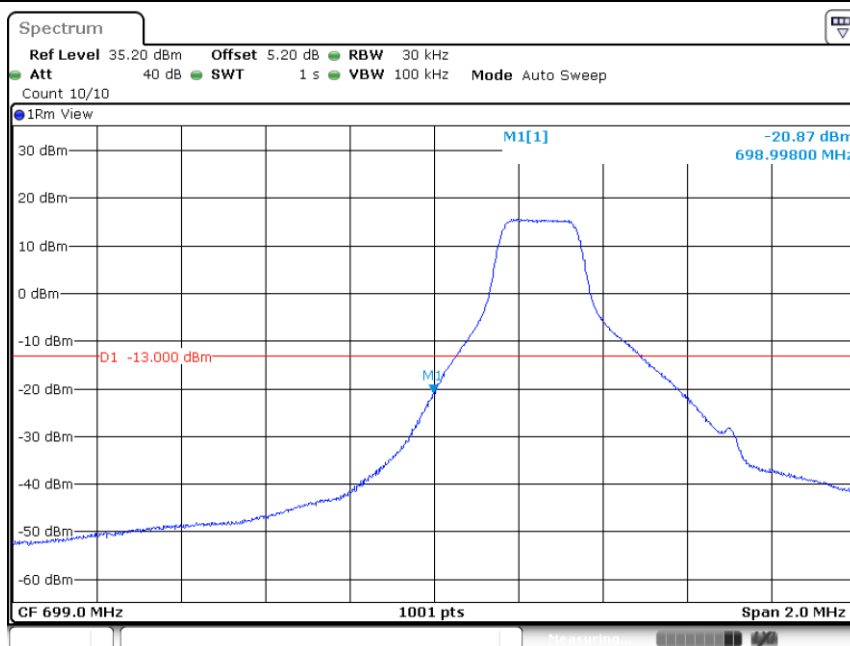


Band12-1.4MHz-QPSK-23173-6RB#0



Date: 4.JAN.2021 23:01:58

Band12-1.4MHz-16QAM-23017-1RB#0

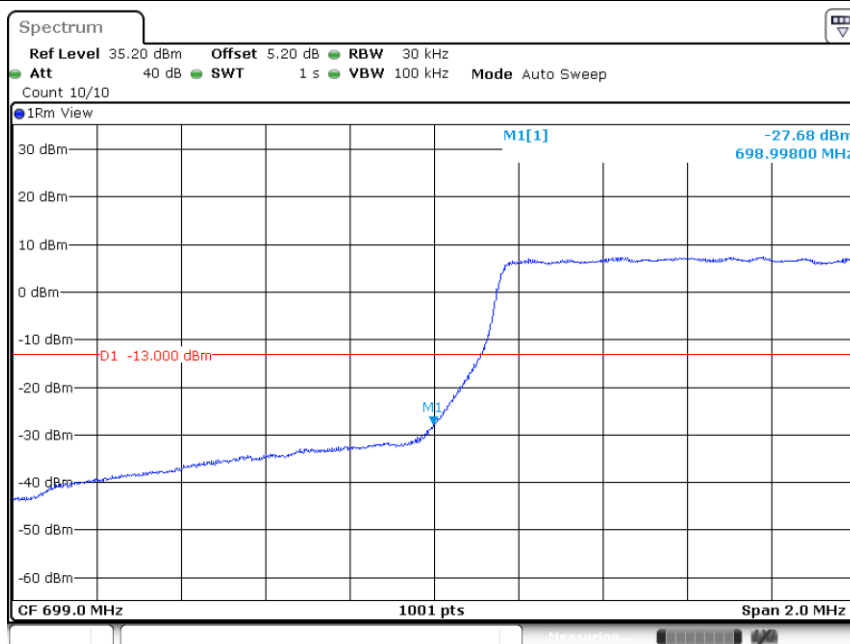


Date: 4.JAN.2021 23:00:10



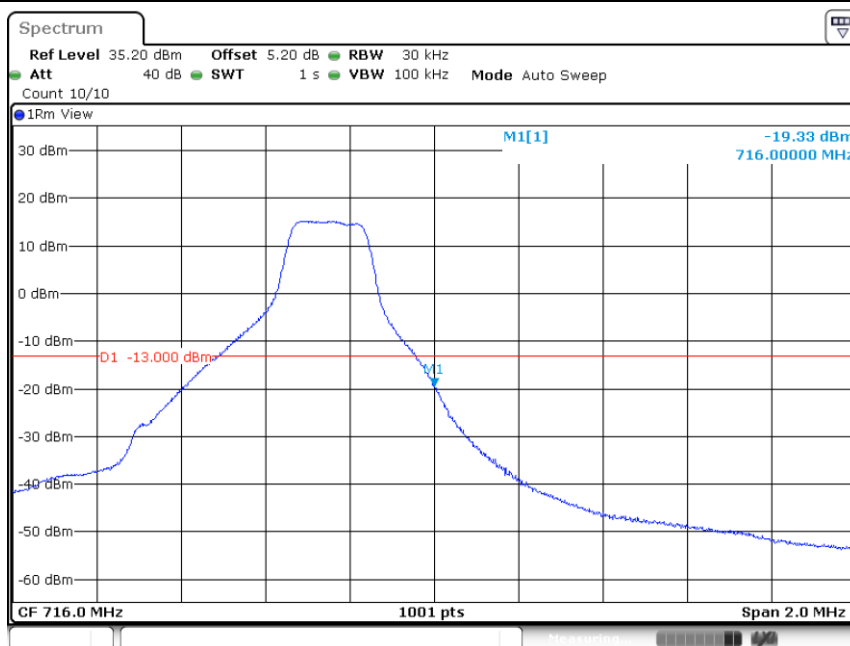


Band12-1.4MHz-16QAM-23017-6RB#0



Date: 4.JAN.2021 23:00:52

Band12-1.4MHz-16QAM-23173-1RB#5



Date: 4.JAN.2021 23:01:37



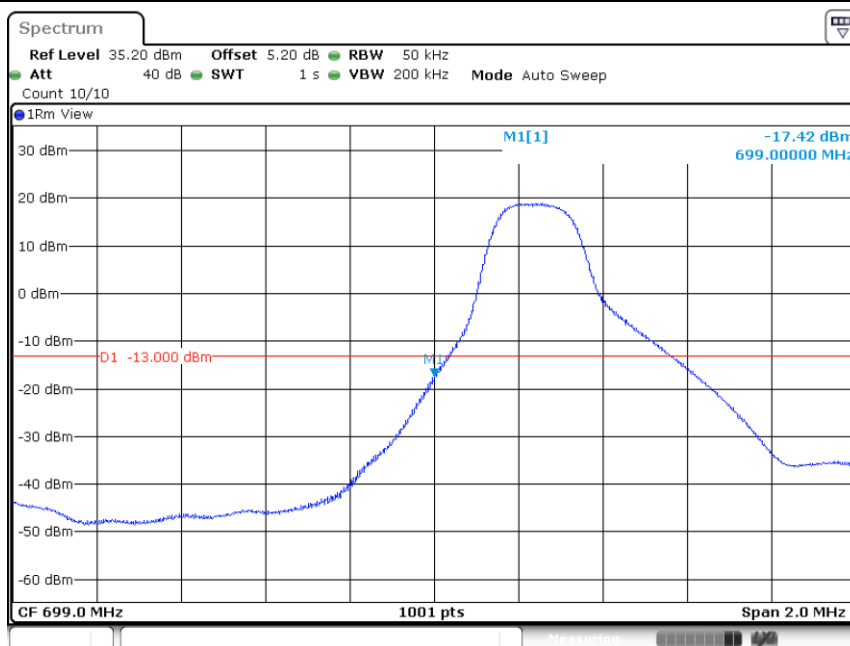


Band12-1.4MHz-16QAM-23173-6RB#0



Date: 4.JAN.2021 23:02:18

Band12-3MHz-QPSK-23025-1RB#0

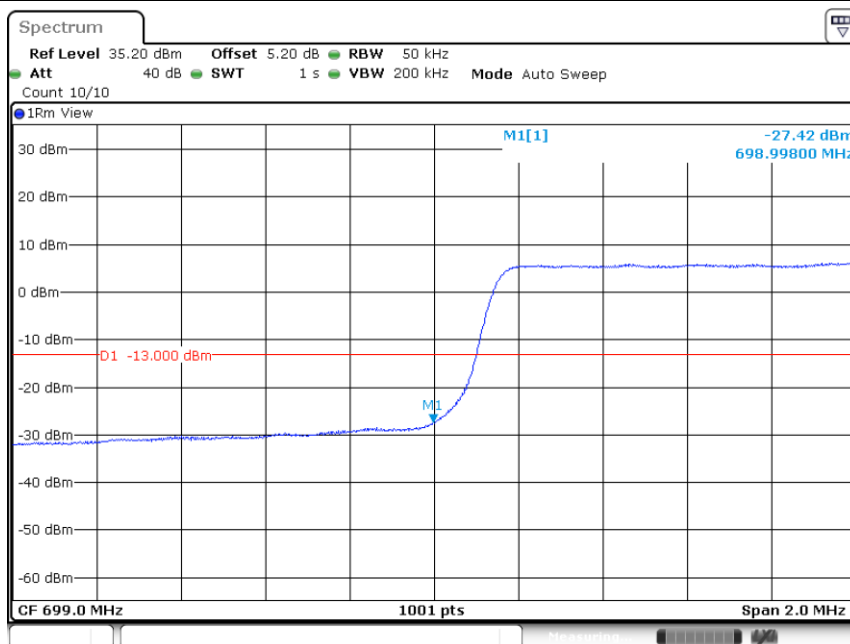


Date: 4.JAN.2021 23:02:44



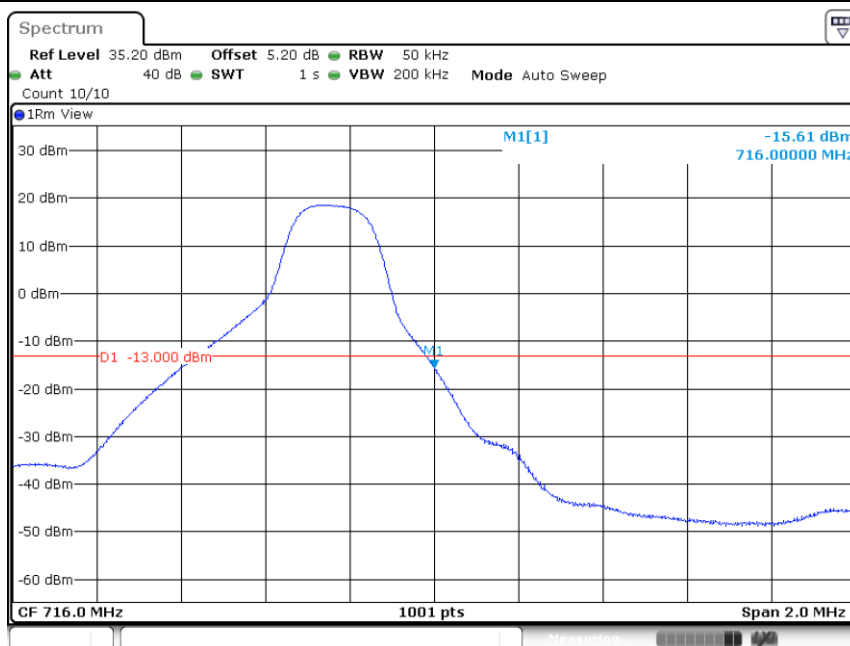


Band12-3MHz-QPSK-23025-15RB#0



Date: 4.JAN.2021 23:03:26

Band12-3MHz-QPSK-23165-1RB#14



Date: 4.JAN.2021 23:04:11



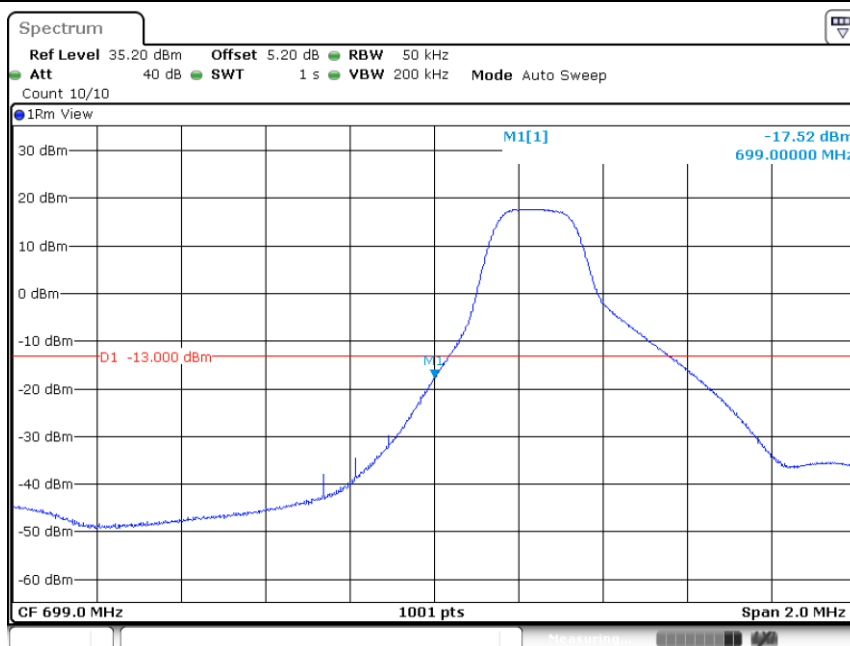


Band12-3MHz-QPSK-23165-15RB#0



Date: 4.JAN.2021 23:04:52

Band12-3MHz-16QAM-23025-1RB#0



Date: 4.JAN.2021 23:03:05

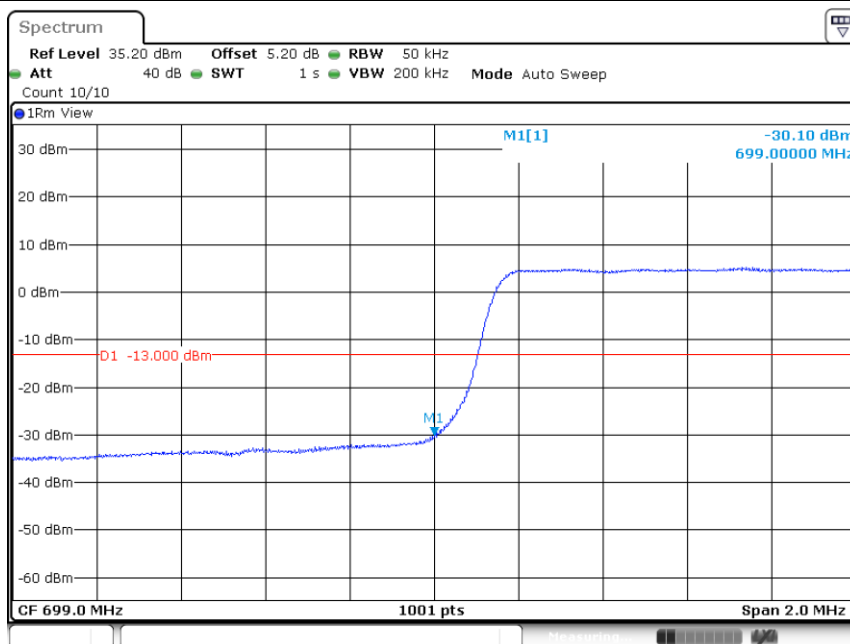


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

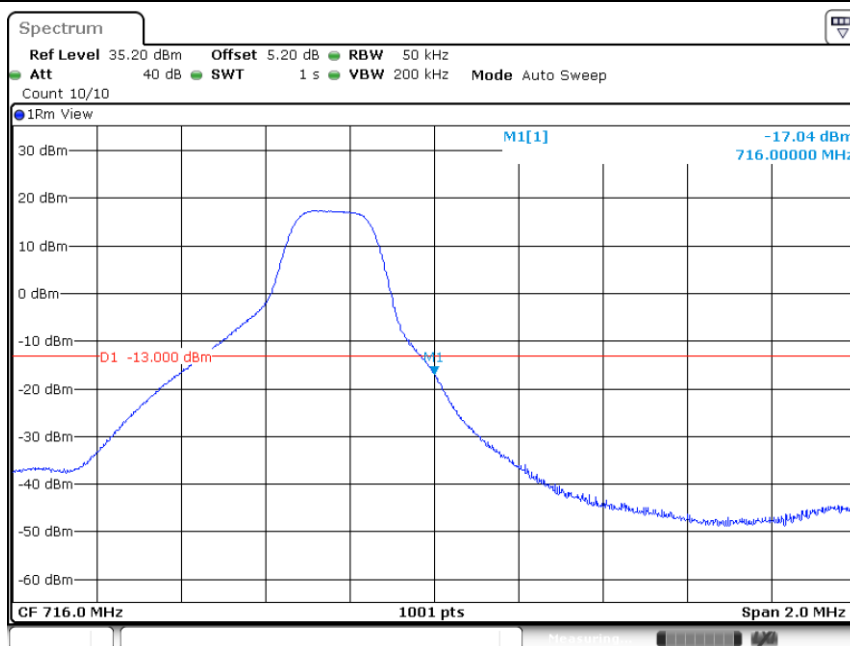


Band12-3MHz-16QAM-23025-15RB#0



Date: 4.JAN.2021 23:03:46

Band12-3MHz-16QAM-23165-1RB#14

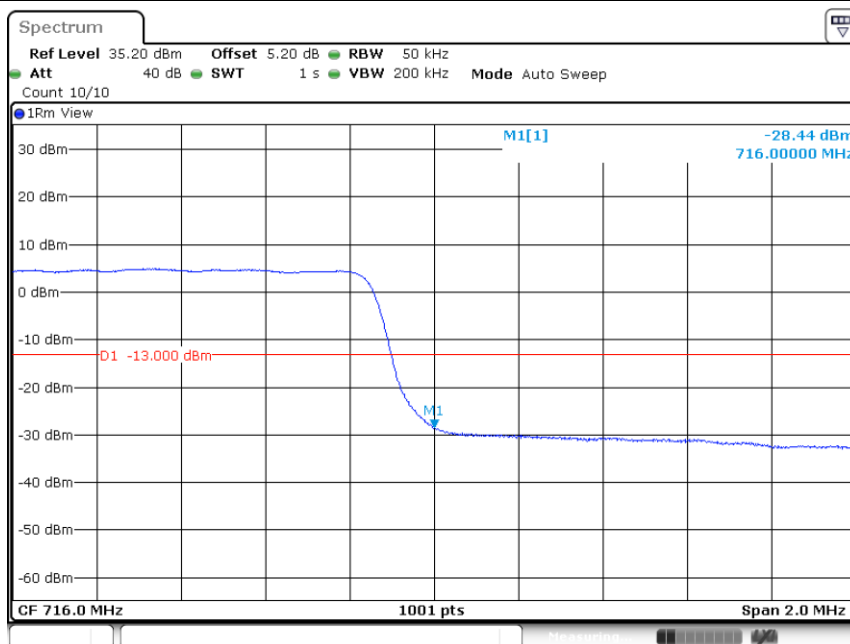


Date: 4.JAN.2021 23:04:32



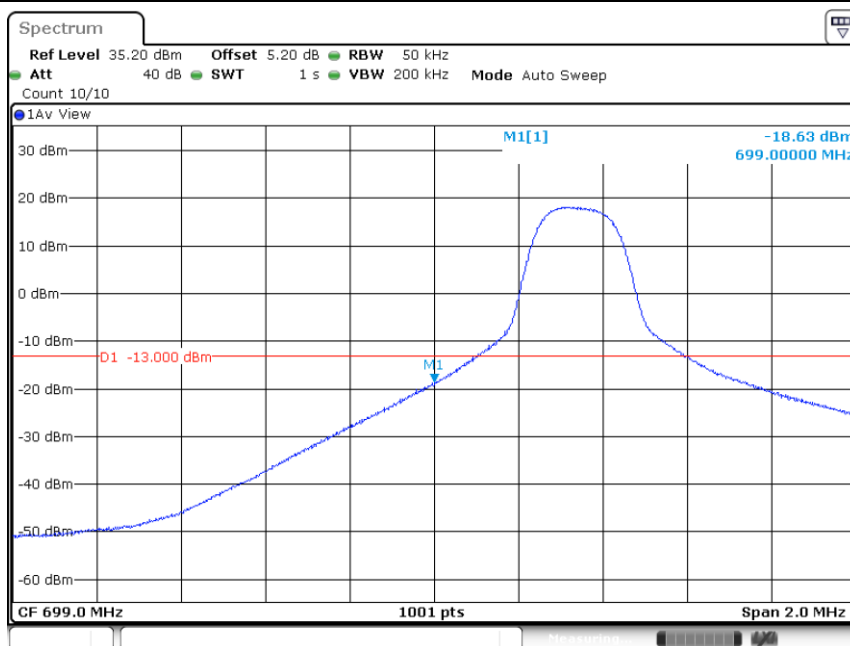


Band12-3MHz-16QAM-23165-15RB#0



Date: 4.JAN.2021 23:05:13

Band12-5MHz-QPSK-23035-1RB#0

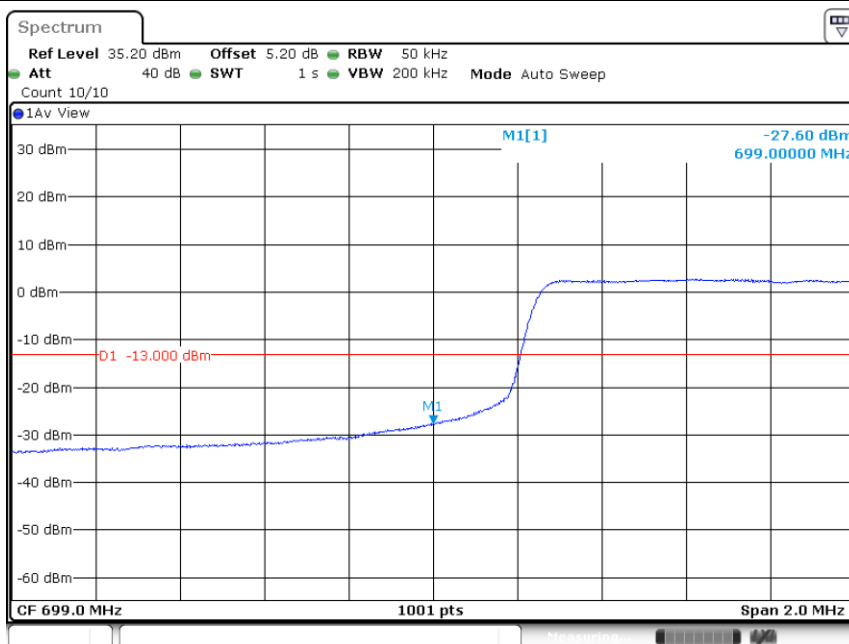


Date: 5.JAN.2021 09:05:48



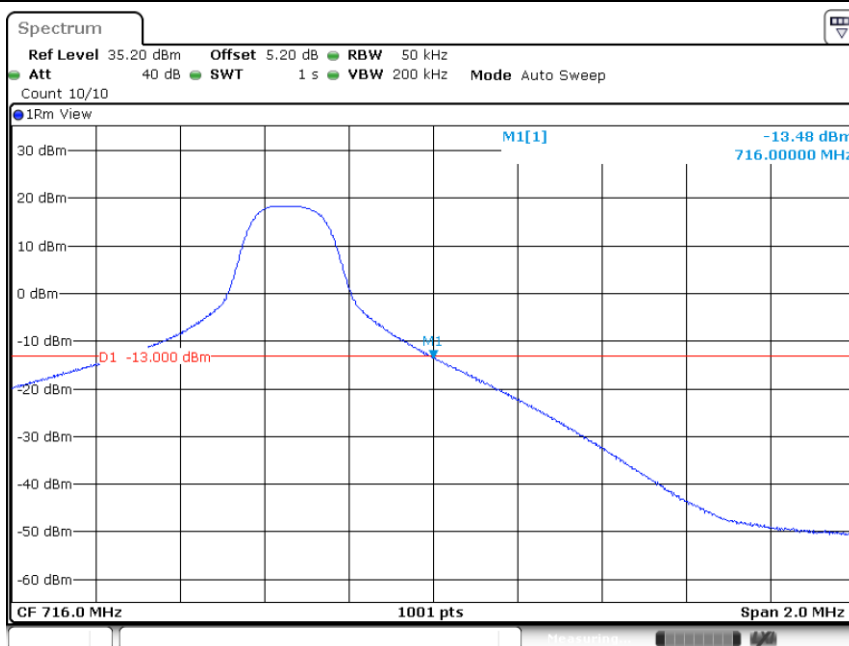


Band12-5MHz-QPSK-23035-25RB#0



Date: 5 JAN.2021 09:06:29

Band12-5MHz-QPSK-23155-1RB#24



Date: 4 JAN.2021 23:07:05



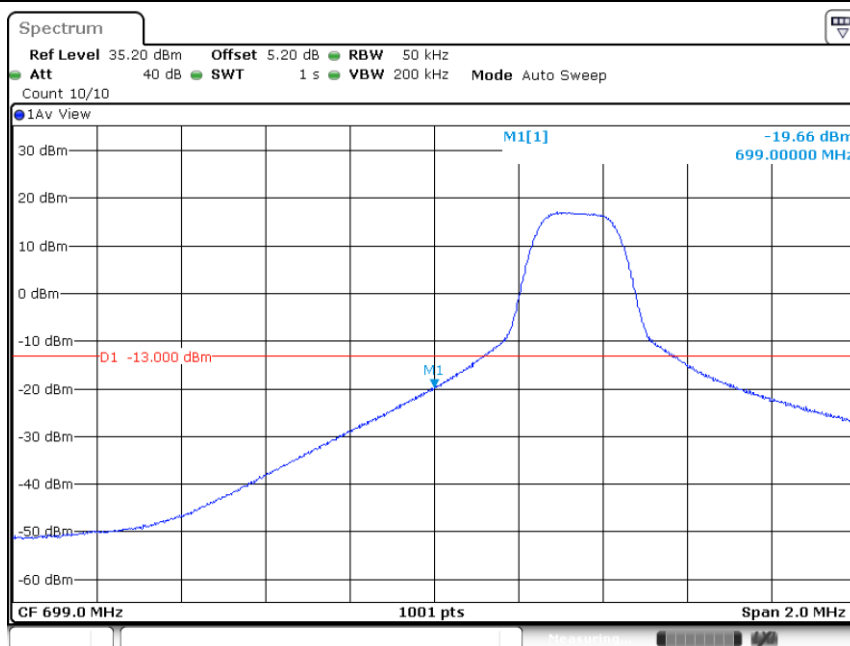


Band12-5MHz-QPSK-23155-25RB#0



Date: 4.JAN.2021 23:07:46

Band12-5MHz-16QAM-23035-1RB#0

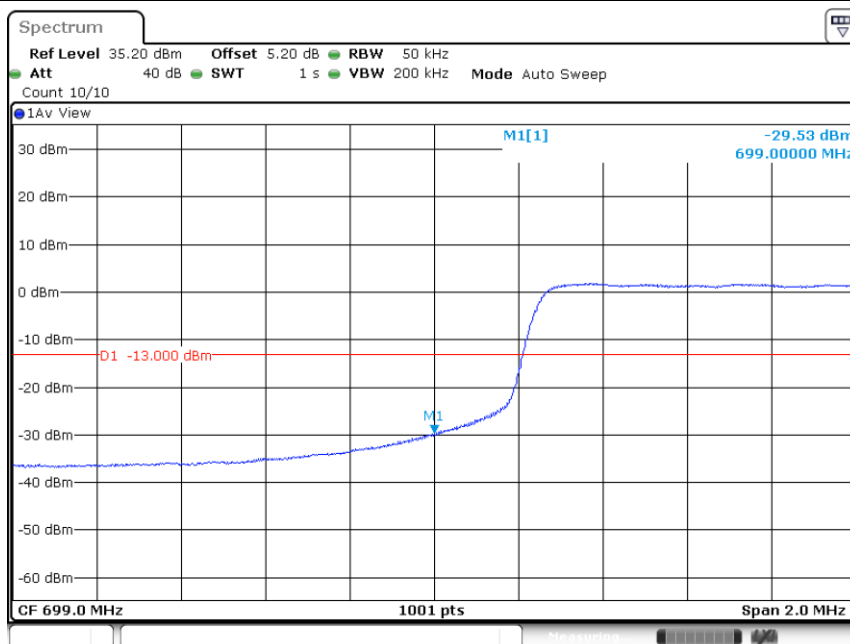


Date: 5.JAN.2021 09:06:09



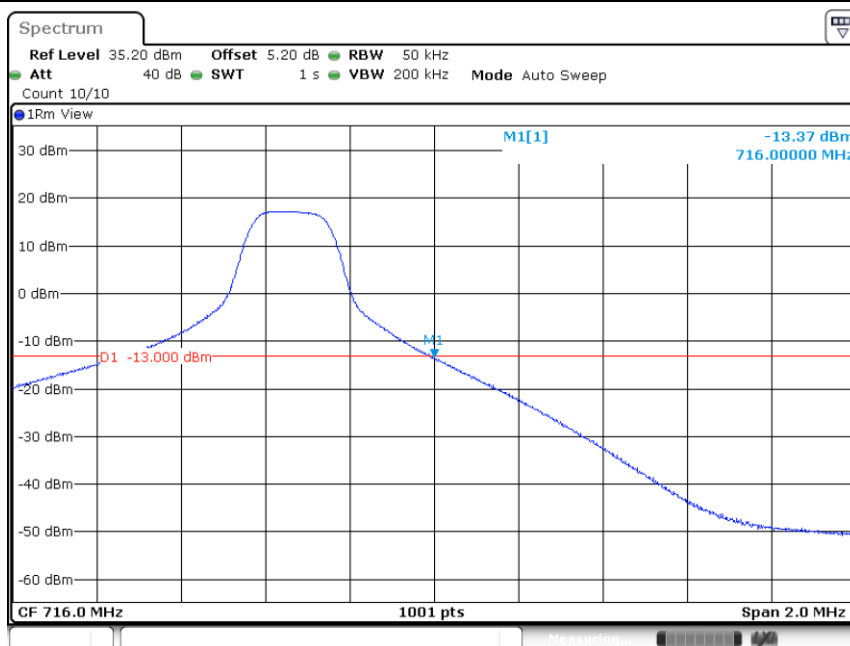


Band12-5MHz-16QAM-23035-25RB#0



Date: 5.JAN.2021 09:06:50

Band12-5MHz-16QAM-23155-1RB#24

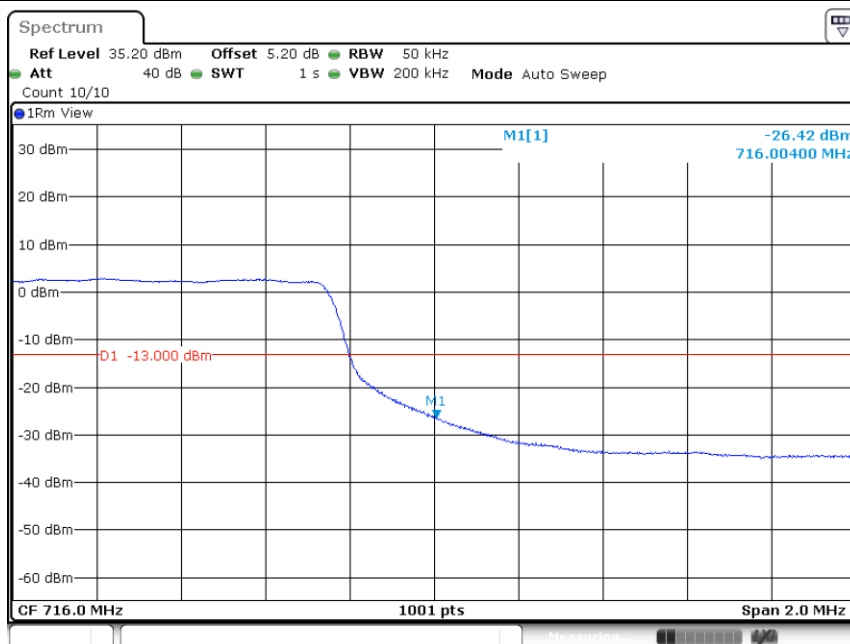


Date: 4.JAN.2021 23:07:26



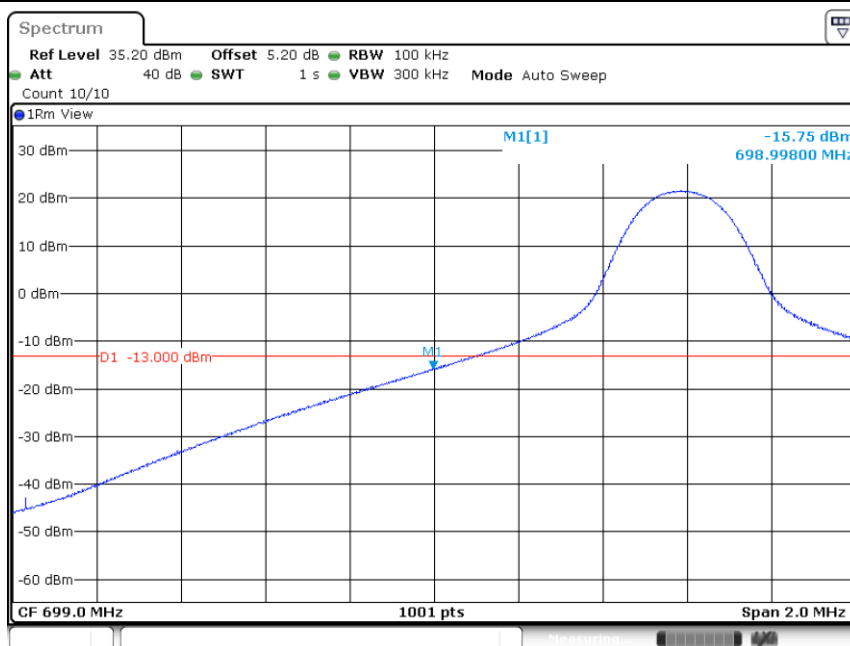


Band12-5MHz-16QAM-23155-25RB#0



Date: 4.JAN.2021 23:08:07

Band12-10MHz-QPSK-23060-1RB#0

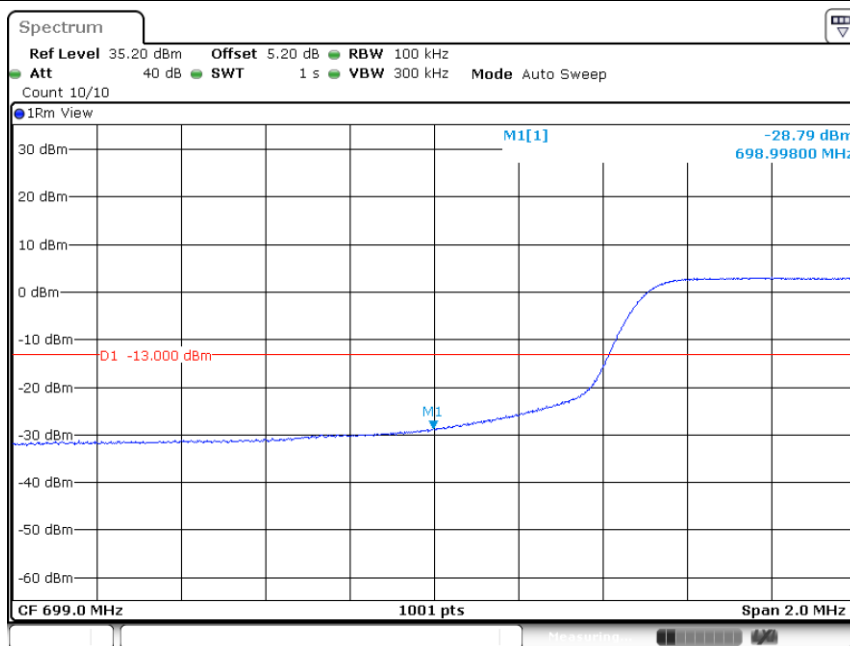


Date: 4.JAN.2021 23:08:32



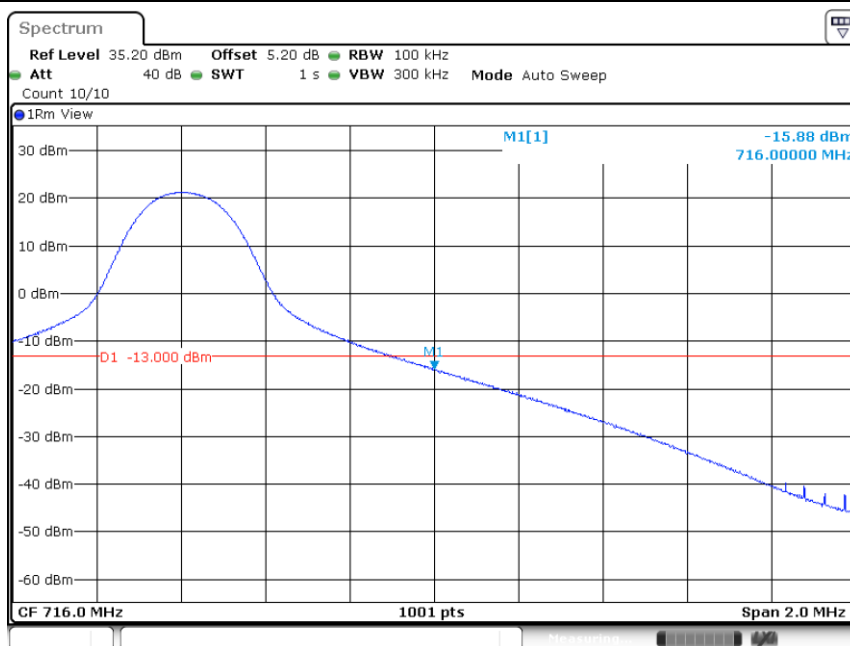


Band12-10MHz-QPSK-23060-50RB#0



Date: 4.JAN.2021 23:09:13

Band12-10MHz-QPSK-23130-1RB#49



Date: 4.JAN.2021 23:09:59



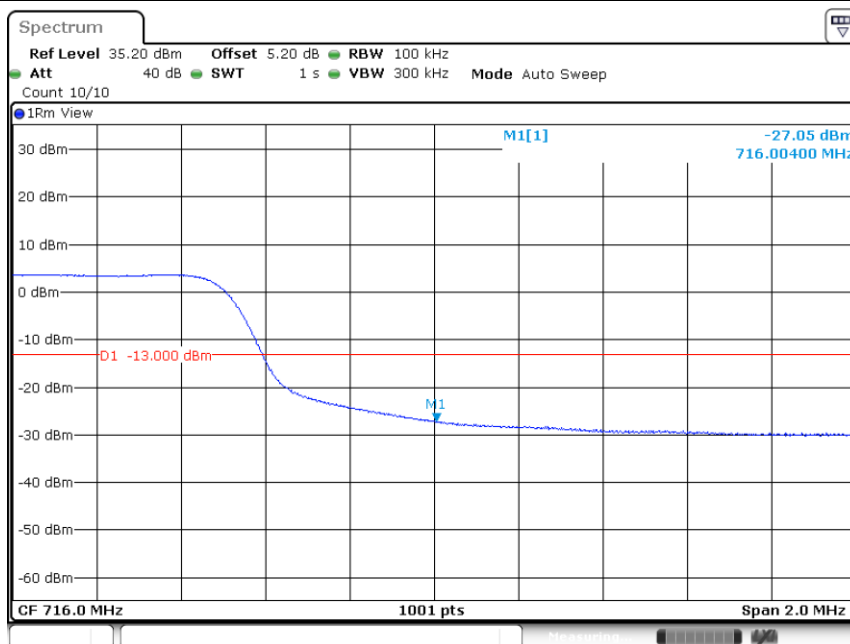
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMAA) Laboratory

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

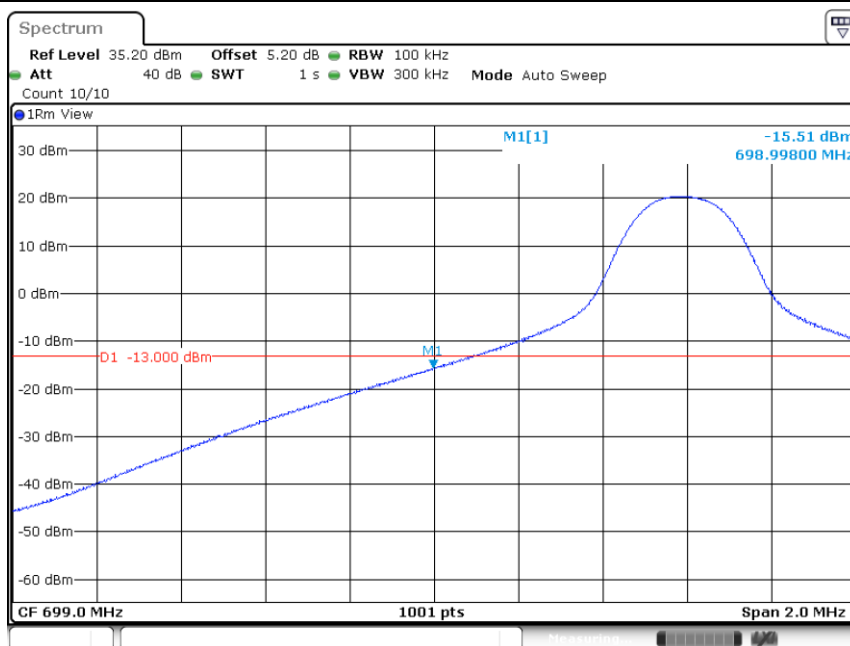


Band12-10MHz-QPSK-23130-50RB#0



Date: 4.JAN.2021 23:10:40

Band12-10MHz-16QAM-23060-1RB#0



Date: 4.JAN.2021 23:08:53

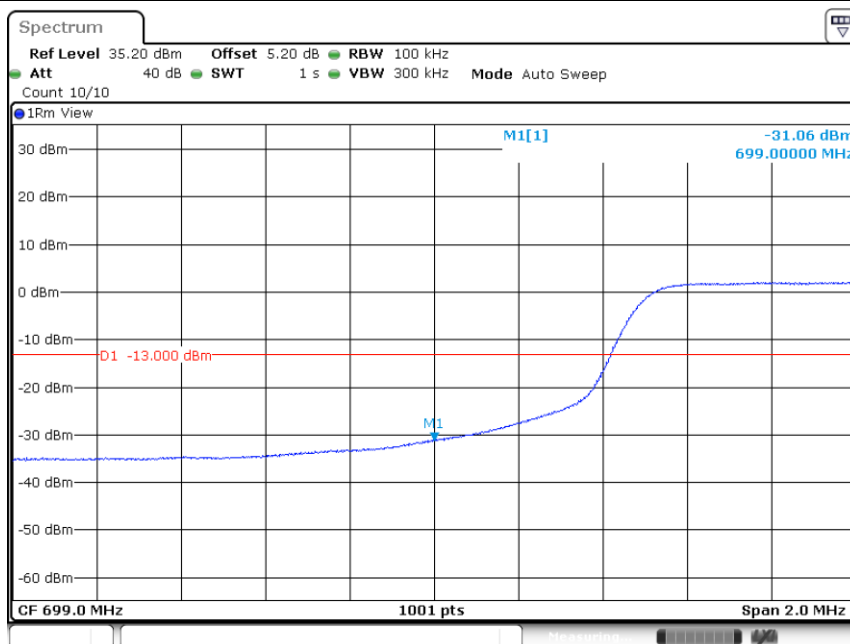


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

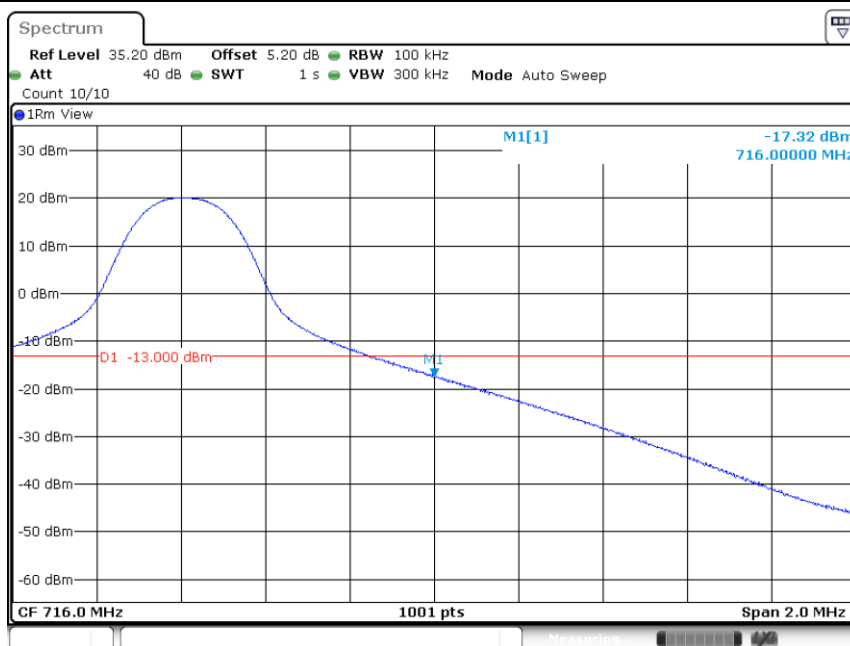


Band12-10MHz-16QAM-23060-50RB#0



Date: 4 JAN.2021 23:09:34

Band12-10MHz-16QAM-23130-1RB#49

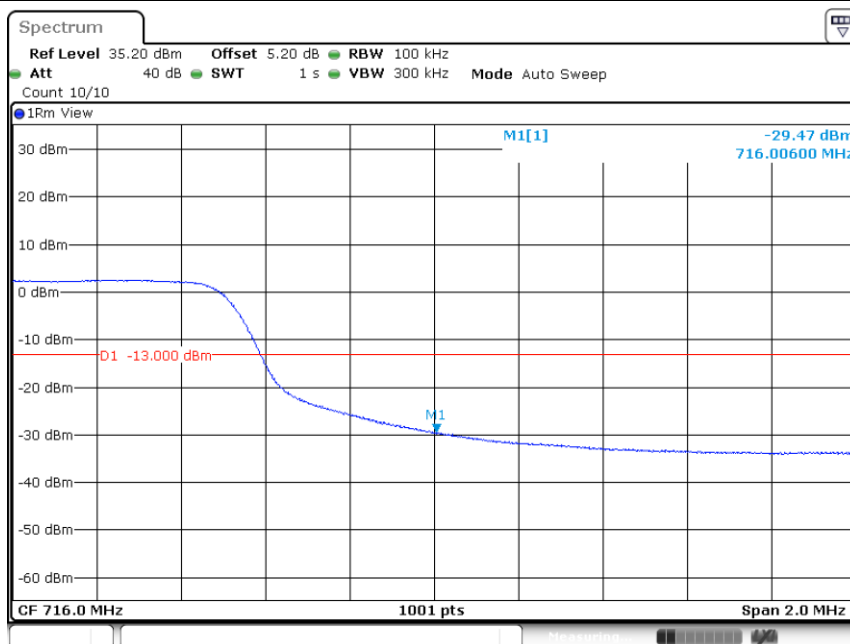


Date: 4 JAN.2021 23:10:20





Band12-10MHz-16QAM-23130-50RB#0



Date: 4.JAN.2021 23:11:01



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.

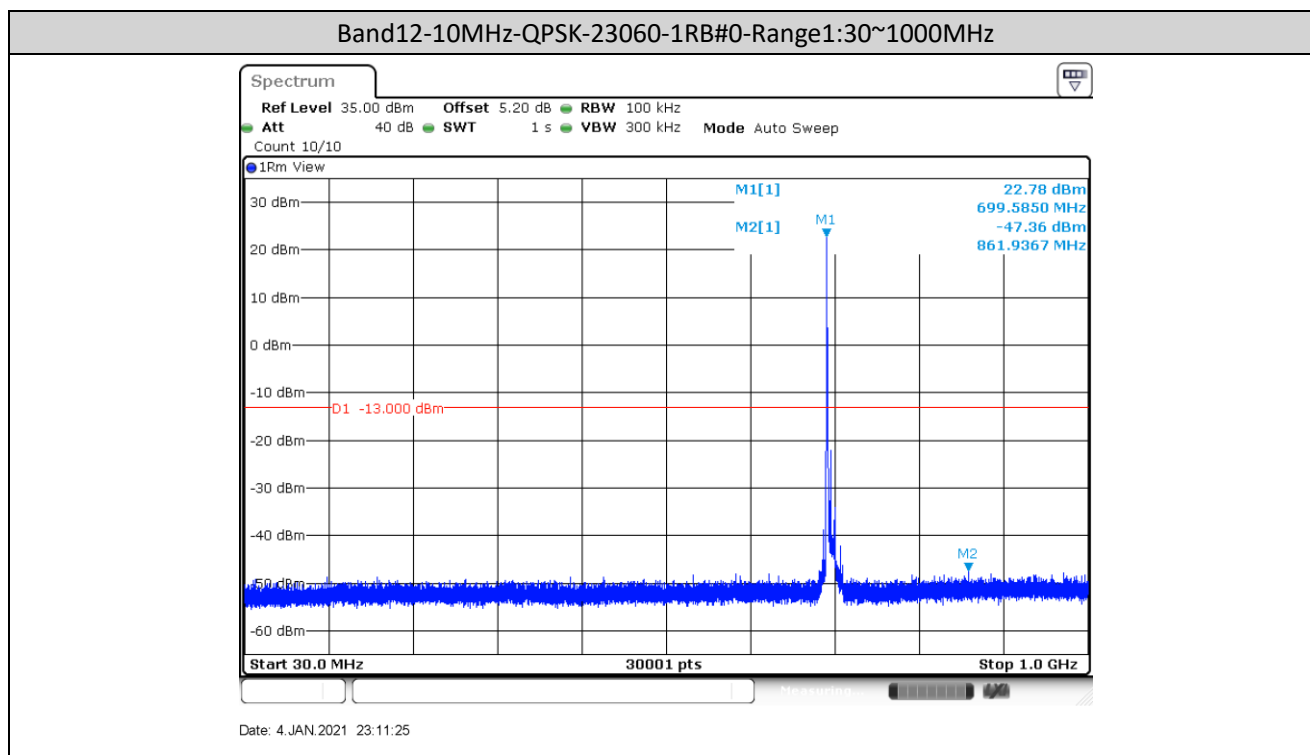
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

6. Spurious Emission at Antenna Terminal

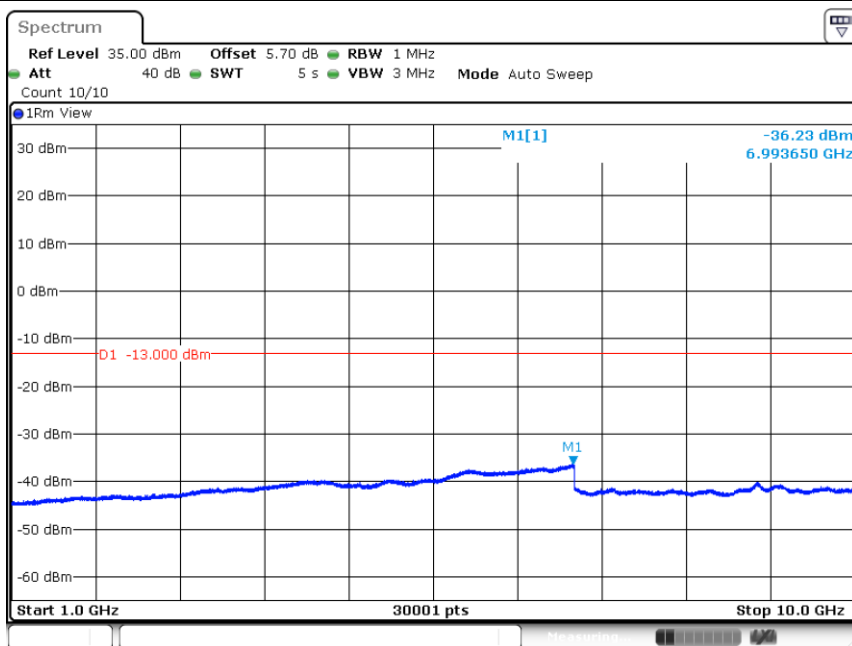
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

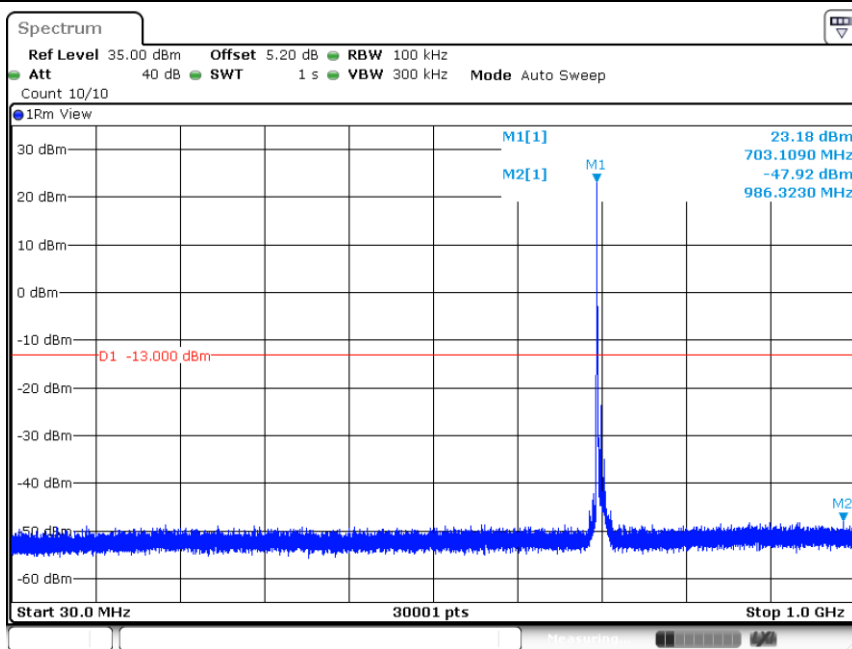


Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz



Date: 4.JAN.2021 23:12:33

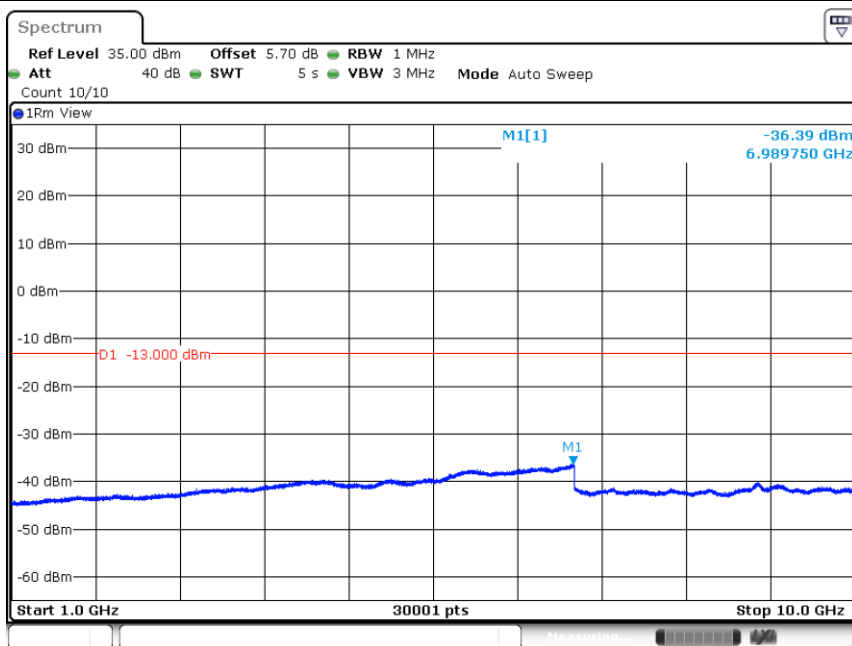
Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



Date: 4.JAN.2021 23:14:19

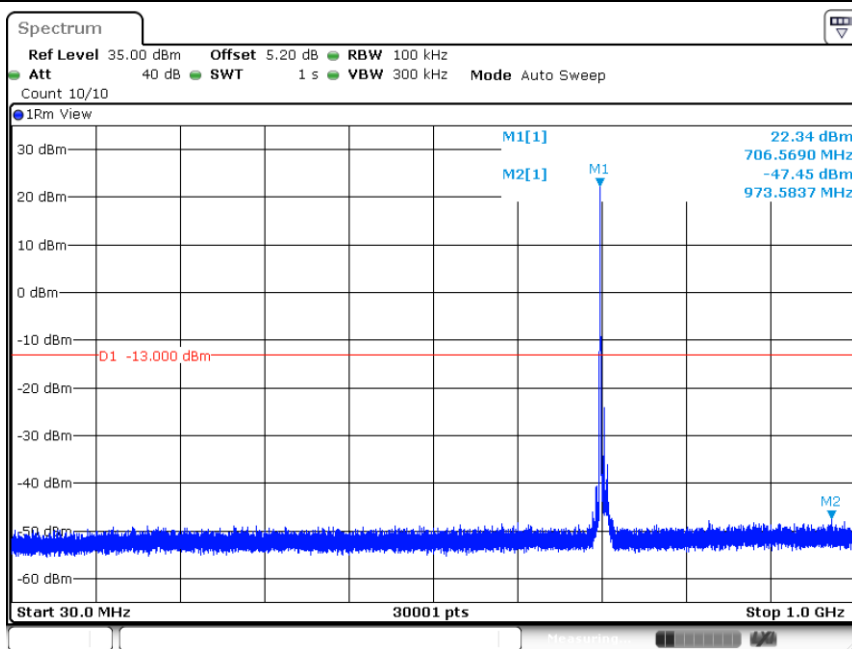


Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Date: 4.JAN.2021 23:15:27

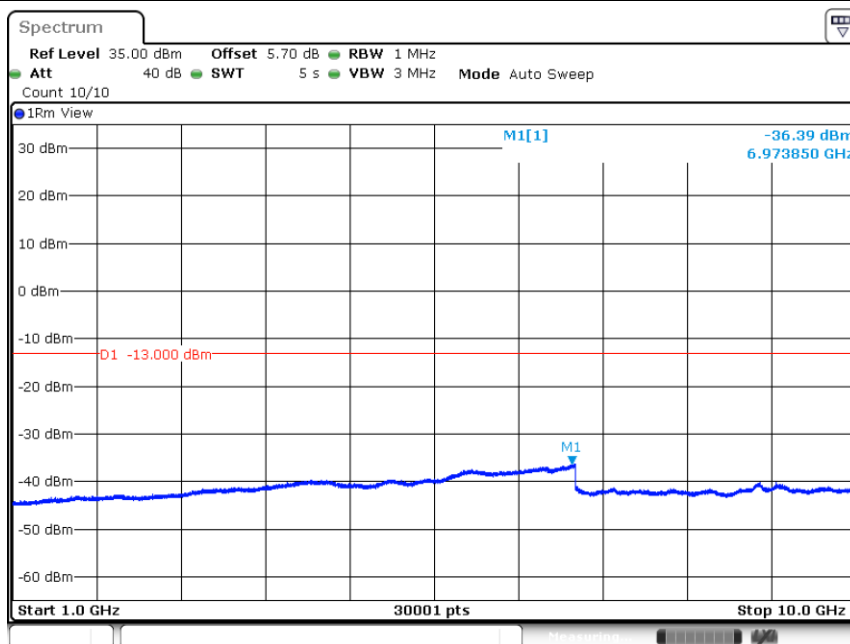
Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz



Date: 4.JAN.2021 23:17:13

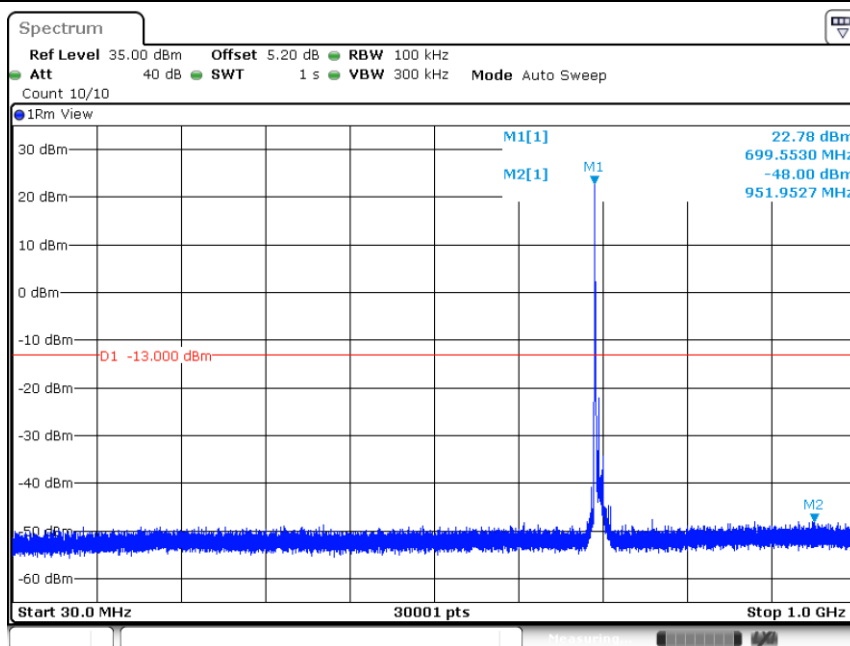


Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz



Date: 4.JAN.2021 23:18:21

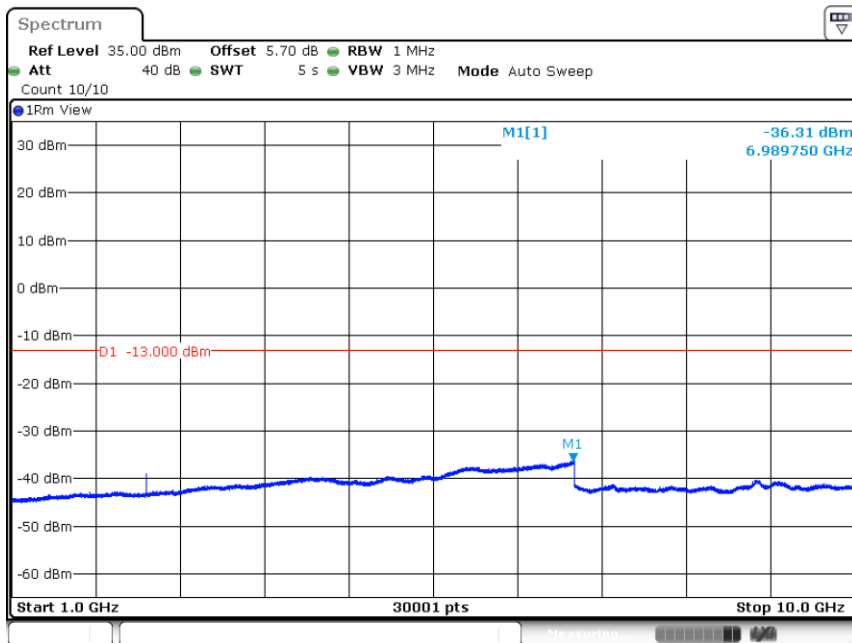
Band12-10MHz-16QAM-23060-1RB#0-Range1:30~1000MHz



Date: 4.JAN.2021 23:12:52

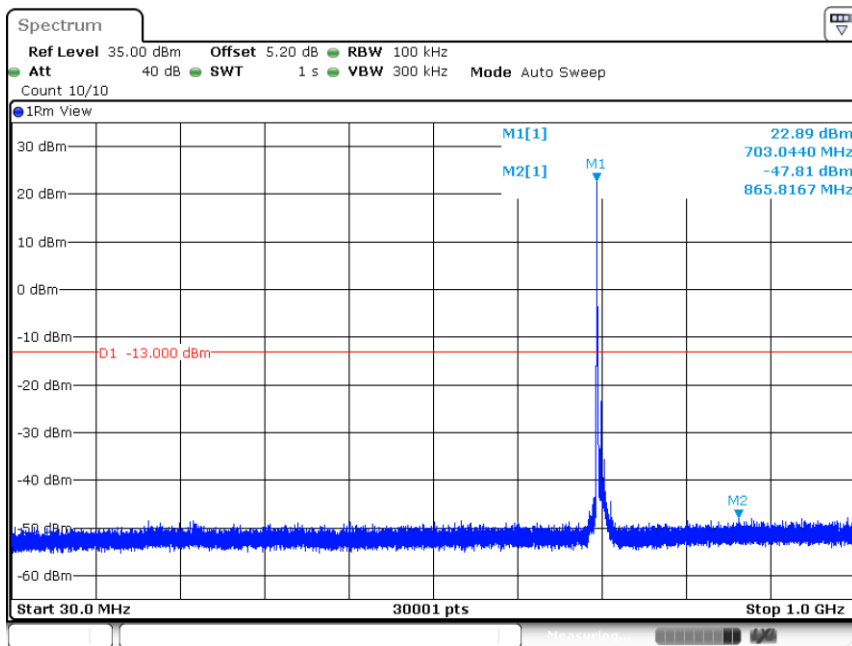


Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz



Date: 4.JAN.2021 23:13:59

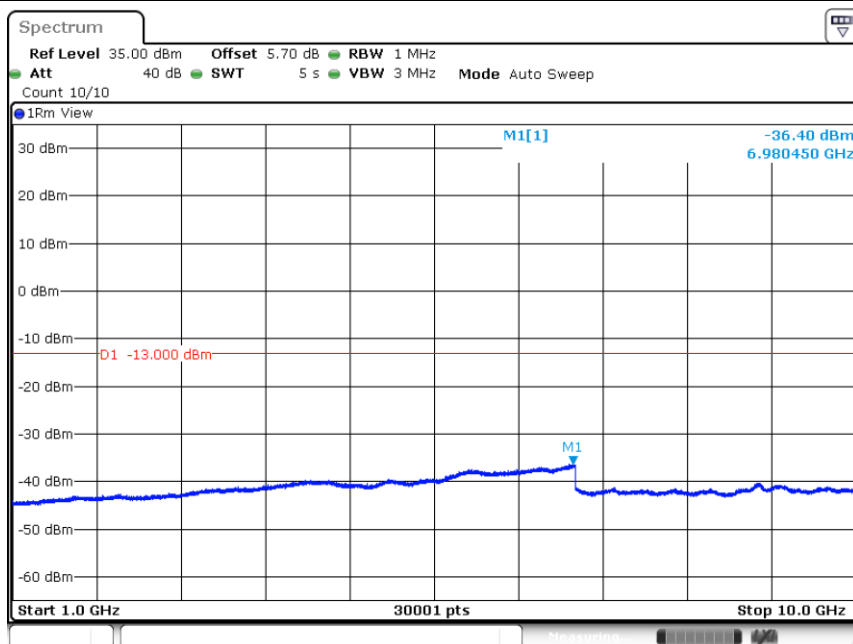
Band12-10MHz-16QAM-23095-1RB#0-Range1:30~1000MHz



Date: 4.JAN.2021 23:15:46

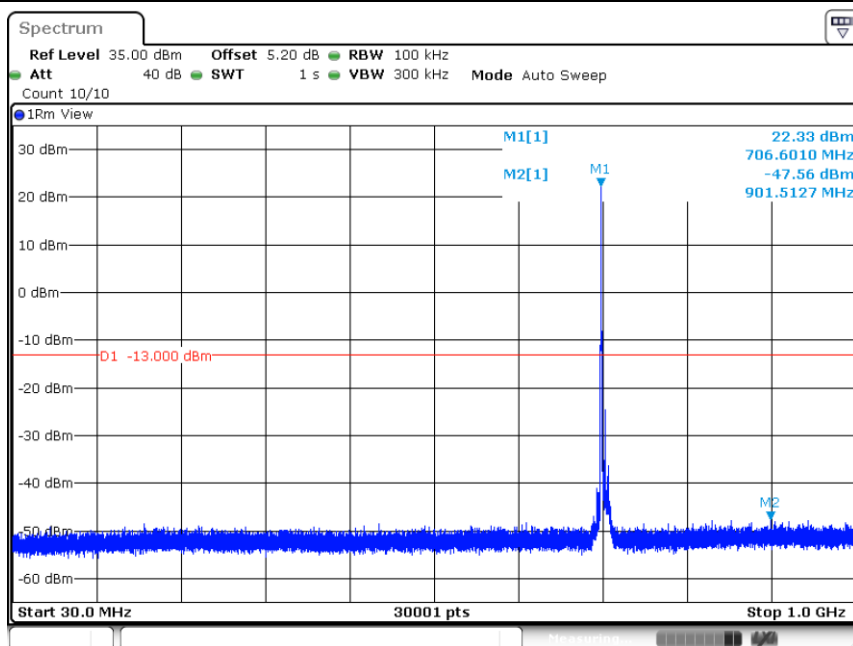


Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



Date: 4.JAN.2021 23:16:54

Band12-10MHz-16QAM-23130-1RB#0-Range1:30~1000MHz



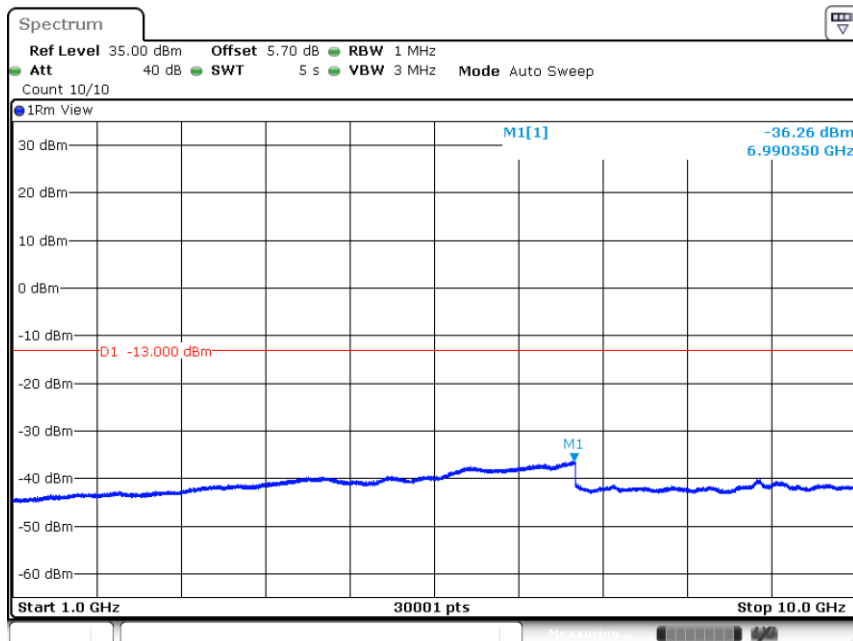
Date: 4.JAN.2021 23:18:40



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

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

Band12-10MHz-16QAM-23130-1RB#0-Range2:1000~10000MHz



Date: 4.JAN.2021 23:19:48



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

7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_12_TM1

7.1.1. Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.3382	-63.51	-13.00	50.51	Horizontal
2	238.7544	-67.71	-13.00	54.71	Horizontal
3	598.8364	-63.01	-13.00	50.01	Horizontal
4	1399.2799	-50.46	-13.00	37.46	Horizontal
5	2698.3397	-54.65	-13.00	41.65	Horizontal
6	9270.8508	-53.79	-13.00	40.79	Horizontal



7.2. Test Band = LTE_12_TM1

7.2.1. Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	51.3411	-71.06	-13.00	58.06	Vertical
2	110.1745	-64.18	-13.00	51.18	Vertical
3	467.5889	-65.86	-13.00	52.86	Vertical
4	1398.8798	-52.95	-13.00	39.95	Vertical
5	2710.3421	-55.97	-13.00	42.97	Vertical
6	9300.2520	-53.64	-13.00	40.64	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_12_TM1

7.3.1. Test Channel = Mid Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.6477	-62.72	-13.00	49.72	Horizontal
2	241.4221	-67.83	-13.00	54.83	Horizontal
3	587.6809	-63.39	-13.00	50.39	Horizontal
4	1406.0812	-50.96	-13.00	37.96	Horizontal
5	2700.3401	-54.66	-13.00	41.66	Horizontal
6	9301.0920	-53.66	-13.00	40.66	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

7.4. Test Band = LTE_12_TM1

7.4.1. Test Channel = Mid Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	51.1956	-71.31	-13.00	58.31	Vertical
2	112.7936	-64.22	-13.00	51.22	Vertical
3	519.5350	-65.60	-13.00	52.60	Vertical
4	1406.0812	-53.41	-13.00	40.41	Vertical
5	2701.9404	-55.99	-13.00	42.99	Vertical
6	7377.9751	-56.62	-13.00	43.62	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

7.5. Test Band = LTE_12_TM1

7.5.1. Test Channel = High Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.2041	-63.90	-13.00	50.90	Horizontal
2	235.4078	-68.12	-13.00	55.12	Horizontal
3	582.0061	-63.40	-13.00	50.40	Horizontal
4	1412.8826	-52.07	-13.00	39.07	Horizontal
5	2703.1406	-54.75	-13.00	41.75	Horizontal
6	9536.5815	-53.75	-13.00	40.75	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_12_TM1

7.6.1. Test Channel = High Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	109.2045	-64.24	-13.00	51.24	Vertical
2	575.3128	-63.00	-13.00	50.00	Vertical
3	1412.8826	-53.60	-13.00	40.60	Vertical
4	2696.3393	-55.99	-13.00	42.99	Vertical
5	7434.5374	-56.89	-13.00	43.89	Vertical
6	9543.8618	-53.38	-13.00	40.38	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.



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at 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
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-5.50	-0.007813	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-5.90	-0.008381	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-4.90	-0.006960	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-4.20	-0.005936	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-7.00	-0.009894	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-4.30	-0.006078	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-2.90	-0.004079	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-1.70	-0.002391	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-5.50	-0.007736	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-3.60	-0.005114	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-6.60	-0.009375	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-6.40	-0.009091	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-10.40	-0.014700	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-10.40	-0.014700	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-6.80	-0.009611	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-7.20	-0.010127	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-4.20	-0.005907	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-4.40	-0.006188	±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
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-8.40	-0.011932	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-0.80	-0.001136	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-8.10	-0.011506	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-8.20	-0.011648	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-8.50	-0.012074	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-10.70	-0.015199	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-5.40	-0.007670	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-2.50	-0.003551	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	1.90	0.002699	±2.5	PASS



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

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



Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-4.00	-0.005654	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-4.10	-0.005795	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-4.90	-0.006926	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-8.10	-0.011449	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-8.80	-0.012438	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-4.60	-0.006502	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-3.90	-0.005512	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-5.30	-0.007491	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-9.40	-0.013221	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-8.90	-0.012518	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-6.30	-0.008861	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-6.10	-0.008579	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-6.90	-0.009705	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-7.10	-0.009986	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-4.10	-0.005767	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-3.50	-0.004923	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-7.50	-0.010653	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-7.60	-0.010795	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-10	-4.90	-0.006960	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-4.70	-0.006676	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-7.10	-0.010085	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	-7.90	-0.011222	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	-4.10	-0.005824	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	-5.10	-0.007244	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-5.70	-0.008097	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-5.30	-0.007491	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-3.30	-0.004664	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	-6.00	-0.008481	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-9.10	-0.012862	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-6.00	-0.008481	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-2.10	-0.002968	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-6.00	-0.008481	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-6.20	-0.008763	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-10.20	-0.014417	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-4.40	-0.006188	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-2.60	-0.003657	±2.5	PASS



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

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



Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-5.30	-0.007454	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-1.60	-0.002250	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-5.10	-0.007173	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-1.10	-0.001547	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-7.40	-0.010408	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-4.30	-0.006048	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-1.60	-0.002250	±2.5	PASS

