



Appendix B

E-UTRA Band 17



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

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

CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	4
1.1.	TEST RESULT	4
2.	PEAK-TO-AVERAGE RATIO (CCDF)	12
2.1.	TEST RESULT	12
2.2.	TEST PLOTS.....	12
3.	MODULATION CHARACTERISTICS	18
3.1.	TEST MODE = LTE /TM1 10MHZ.....	18
3.1.1.	TEST CHANNEL = MCH.....	18
3.2.	TEST MODE = LTE /TM2 10MHZ.....	19
3.2.1.	TEST CHANNEL = MCH.....	19
3.3.	TEST MODE = LTE /TM3 10MHZ.....	20
3.3.1.	TEST CHANNEL = MCH.....	20
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	21
4.1.	TEST RESULT	21
4.2.	TEST PLOTS.....	22
5.	BAND EDGE COMPLIANCE	31
5.1.	TEST PLOTS.....	31
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	44
6.1.	TEST PLOTS.....	44
7.	FIELD STRENGTH OF SPURIOUS RADIATION	51
7.1.	TEST MODE =LTE/TM1 10MHz(ANT1).....	51
7.1.1.	TEST CHANNEL = LCH	51
7.1.2.	TEST CHANNEL = MCH.....	51
7.1.3.	TEST CHANNEL = HCH.....	52
7.2.	TEST MODE =LTE/TM1 10MHz(ANT0).....	52
7.2.1.	TEST CHANNEL = LCH	52
7.2.2.	TEST CHANNEL = MCH.....	53
7.2.3.	TEST CHANNEL = HCH.....	53
8.	FREQUENCY STABILITY	54



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



8.1.	FREQUENCY VS VOLTAGE	54
8.2.	FREQUENCY VS TEMPERATURE	55



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

ANT1:

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.65	18.80	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.98	19.13	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.90	19.05	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.86	18.01	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.90	18.05	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.96	18.11	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.94	18.09	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.76	18.91	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.83	18.98	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.82	18.97	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.80	17.95	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.84	17.99	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.81	17.96	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.88	18.03	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.73	18.88	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.75	18.90	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.83	18.98	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.73	17.88	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.80	17.95	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.84	17.99	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.77	17.92	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.33	18.48	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.09	18.24	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.40	18.55	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.82	16.97	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.82	16.97	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.08	17.23	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.90	17.05	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.23	18.38	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.16	18.31	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.16	18.31	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 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



Band17	5MHz	16QAM	23790	12RB#0	21.85	17.00	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.77	16.92	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.90	17.05	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.80	16.95	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.27	18.42	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.23	18.38	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.13	18.28	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.79	16.94	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.88	17.03	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.81	16.96	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.87	17.02	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.88	17.03	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.99	17.14	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.85	17.00	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.91	16.06	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.74	15.89	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.92	16.07	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.90	16.05	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.84	16.99	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.94	17.09	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.99	17.14	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.75	15.90	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.82	15.97	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.86	16.01	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.99	16.14	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.77	16.92	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.76	16.91	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.91	17.06	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.94	16.09	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.85	16.00	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	20.87	16.02	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.77	15.92	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.75	18.90	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.65	18.80	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.54	18.69	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.84	17.99	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.94	18.09	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.90	18.05	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

Band17	10MHz	QPSK	23780	50RB#0	22.92	18.07	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.74	18.89	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.73	18.88	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.87	19.02	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.87	18.02	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.92	18.07	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.91	18.06	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.88	18.03	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.73	18.88	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.78	18.93	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.81	18.96	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.82	17.97	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.88	18.03	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.90	18.05	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.83	17.98	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.09	18.24	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.01	18.16	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.31	18.46	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.76	16.91	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.93	17.08	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.08	17.23	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.93	17.08	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.77	17.92	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.33	18.48	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.10	18.25	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.77	16.92	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.82	16.97	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.98	17.13	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.80	16.95	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.00	18.15	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.32	18.47	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.08	18.23	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.74	16.89	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.96	17.11	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.92	17.07	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.82	16.97	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.83	16.98	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.86	17.01	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

Band17	10MHz	64QAM	23780	1RB#49	21.90	17.05	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.88	16.03	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.91	16.06	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.74	15.89	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.80	15.95	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.81	16.96	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.90	17.05	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.91	17.06	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.99	16.14	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	20.83	15.98	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	20.90	16.05	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.96	16.11	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.80	16.95	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.78	16.93	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.95	17.10	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.74	15.89	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	20.81	15.96	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	20.81	15.96	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.96	16.11	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 / 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 Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.67	14.62	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.69	14.64	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.70	14.65	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.75	13.70	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.82	13.77	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.78	13.73	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.78	13.73	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.50	14.45	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.69	14.64	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.73	14.68	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.63	13.58	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.66	13.61	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.77	13.72	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.68	13.63	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.57	14.52	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.62	14.57	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.59	14.54	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.71	13.66	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.65	13.60	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.67	13.62	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.64	13.59	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.01	13.96	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.14	14.09	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.06	14.01	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.65	12.60	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.77	12.72	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.79	12.74	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.79	12.74	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.80	13.75	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.17	14.12	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.27	14.22	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.72	12.67	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.60	12.55	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.63	12.58	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.64	12.59	34.77	PASS



Band17	5MHz	16QAM	23825	1RB#0	22.78	13.73	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.63	13.58	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.18	14.13	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.67	12.62	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.72	12.67	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.61	12.56	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.59	12.54	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.69	12.64	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.81	12.76	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.65	12.60	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	21.00	11.95	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	21.10	12.05	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.99	11.94	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	21.03	11.98	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.60	12.55	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.56	12.51	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.79	12.74	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	21.03	11.98	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.99	11.94	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	21.10	12.05	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	21.05	12.00	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.82	12.77	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.60	12.55	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.70	12.65	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	21.11	12.06	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	21.07	12.02	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	21.02	11.97	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	21.05	12.00	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.68	14.63	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.81	14.76	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.46	14.41	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.70	13.65	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.75	13.70	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.81	13.76	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.62	13.57	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.58	14.53	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.84	14.79	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.46	14.41	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



Band17	10MHz	QPSK	23790	25RB#0	22.65	13.60	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.69	13.64	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.64	13.59	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.64	13.59	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.52	14.47	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.54	14.49	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.65	14.60	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.62	13.57	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.85	13.80	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.79	13.74	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.59	13.54	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.99	13.94	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.75	13.70	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.10	14.05	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.62	12.57	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.78	12.73	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.61	12.56	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.75	12.70	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.35	14.30	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.65	13.60	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.11	14.06	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.71	12.66	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.59	12.54	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.64	12.59	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.64	12.59	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.32	14.27	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.80	13.75	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.93	13.88	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.65	12.60	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.74	12.69	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.65	12.60	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.68	12.63	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.57	12.52	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.65	12.60	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.75	12.70	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	21.03	11.98	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	21.09	12.04	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	21.04	11.99	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



Band17	10MHz	64QAM	23780	50RB#0	20.99	11.94	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.77	12.72	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.78	12.73	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.70	12.65	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	21.03	11.98	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	21.12	12.07	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	21.04	11.99	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.05	12.00	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.73	12.68	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.79	12.74	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.63	12.58	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.98	11.93	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	21.06	12.01	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	21.08	12.03	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	21.06	12.01	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 (SGS-CSTC) Laboratory

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

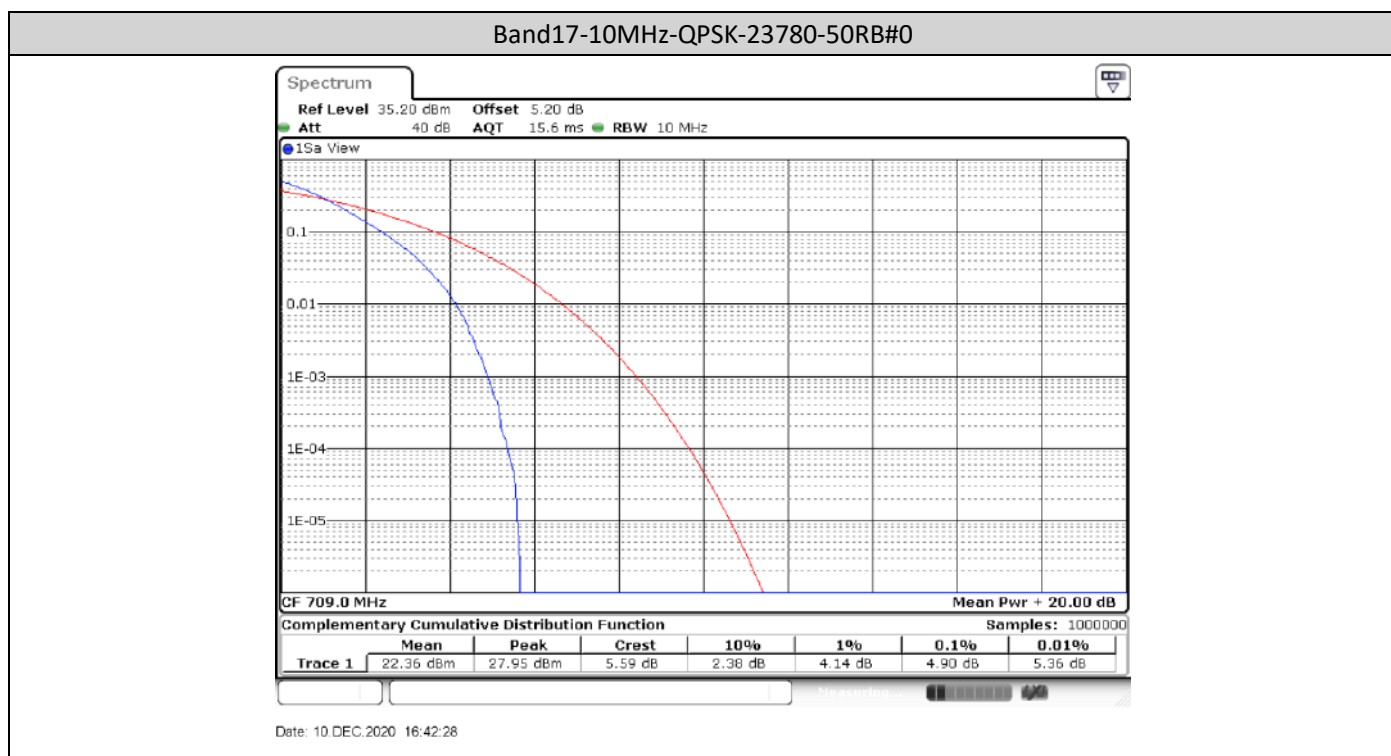


2. Peak-to-Average Ratio (CCDF)

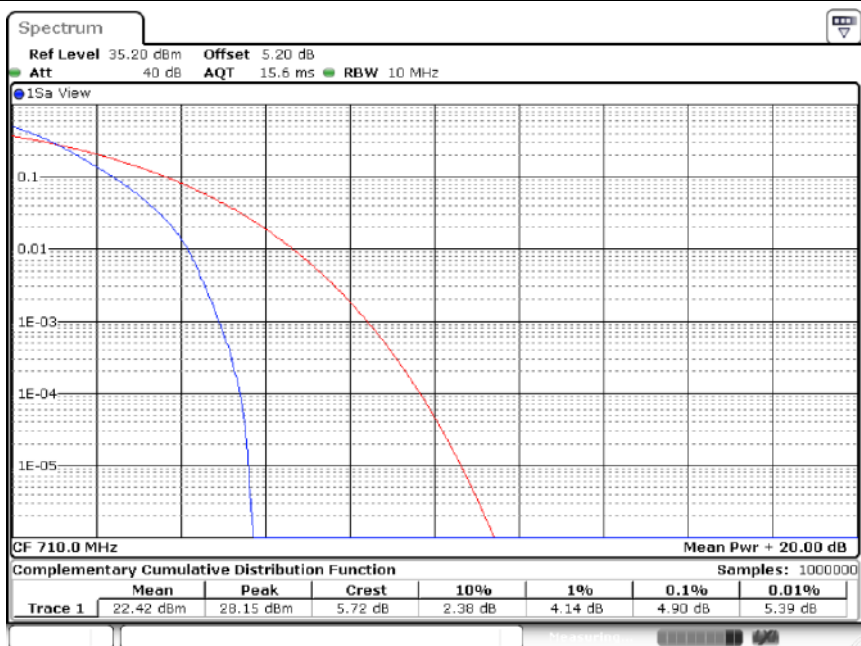
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	4.90	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.90	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.87	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.86	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.88	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.91	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	5.94	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.03	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.06	13	PASS

2.2. Test Plots

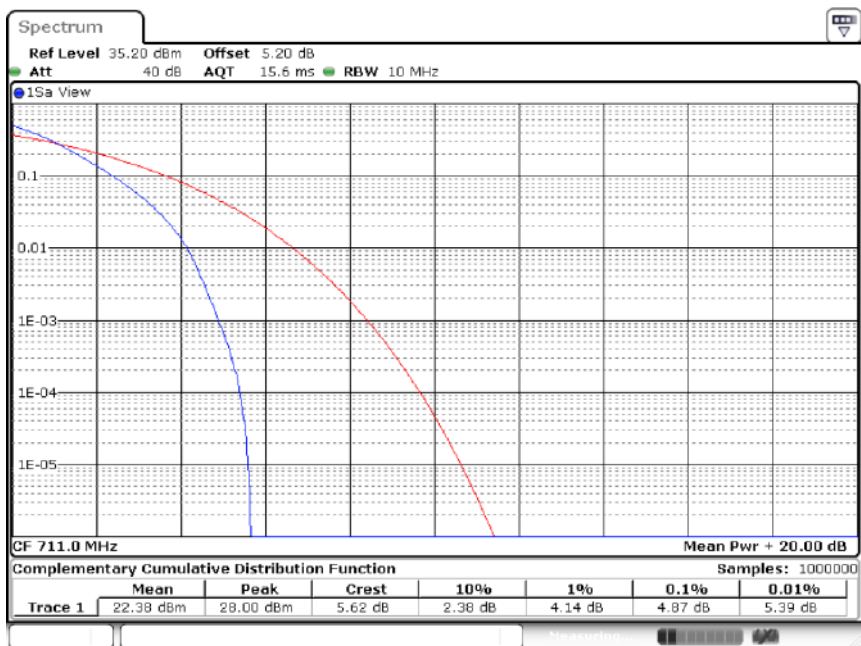


Band17-10MHz-QPSK-23790-50RB#0



Date: 10 DEC. 2020 16:42:51

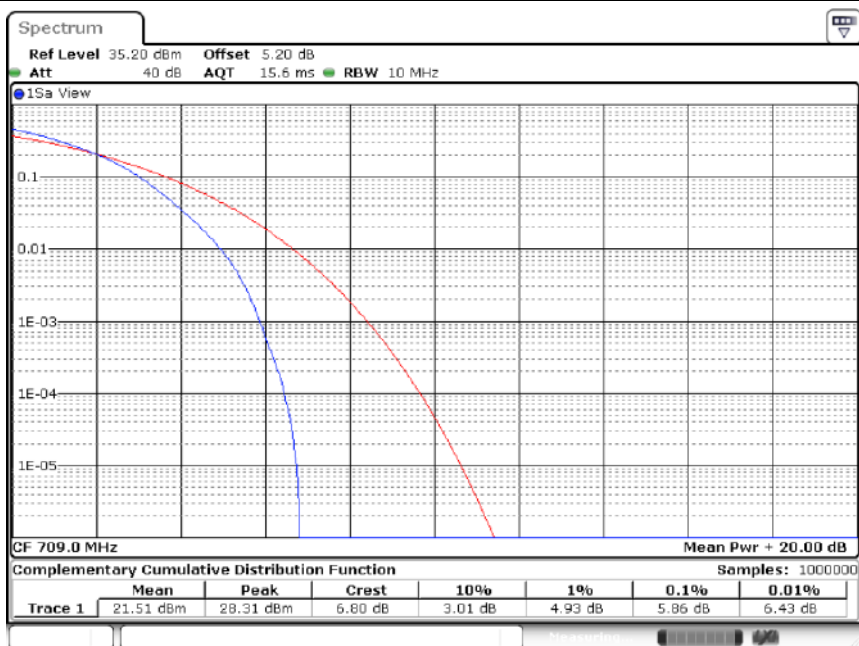
Band17-10MHz-QPSK-23800-50RB#0



Date: 10 DEC. 2020 16:43:13

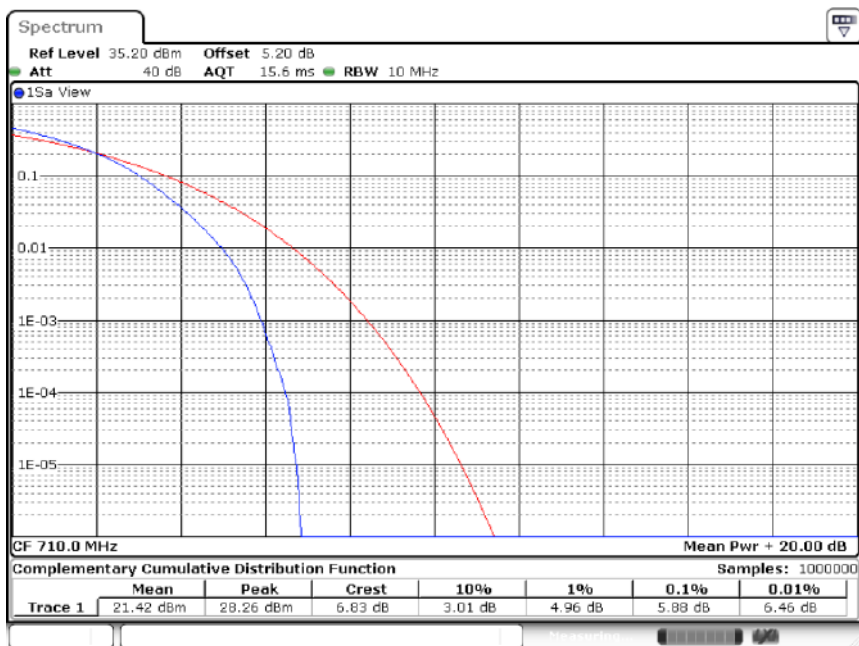


Band17-10MHz-16QAM-23780-50RB#0



Date: 10 DEC. 2020 16:42:39

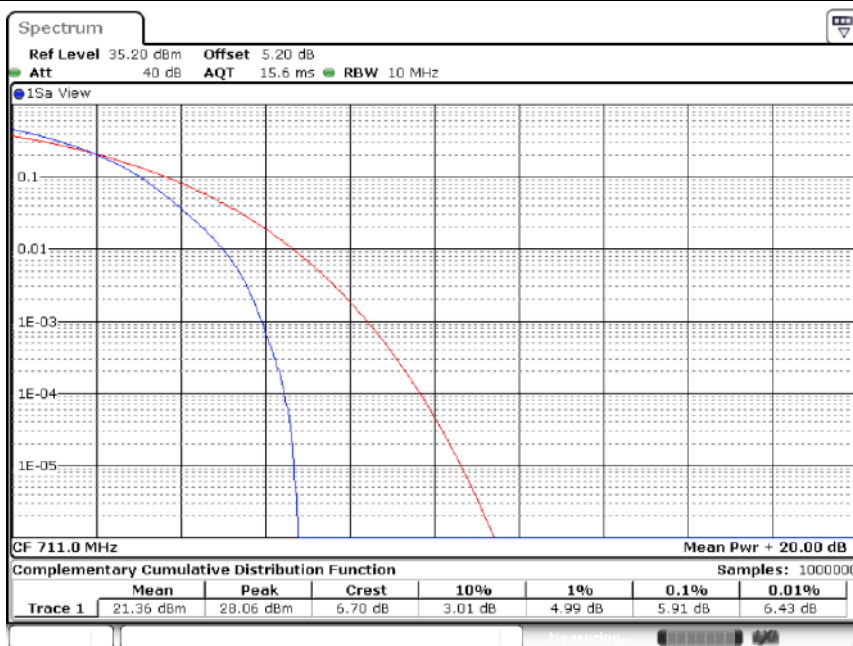
Band17-10MHz-16QAM-23790-50RB#0



Date: 10 DEC. 2020 16:43:02



Band17-10MHz-16QAM-23800-50RB#0



Date: 10 DEC 2020 16:43:25

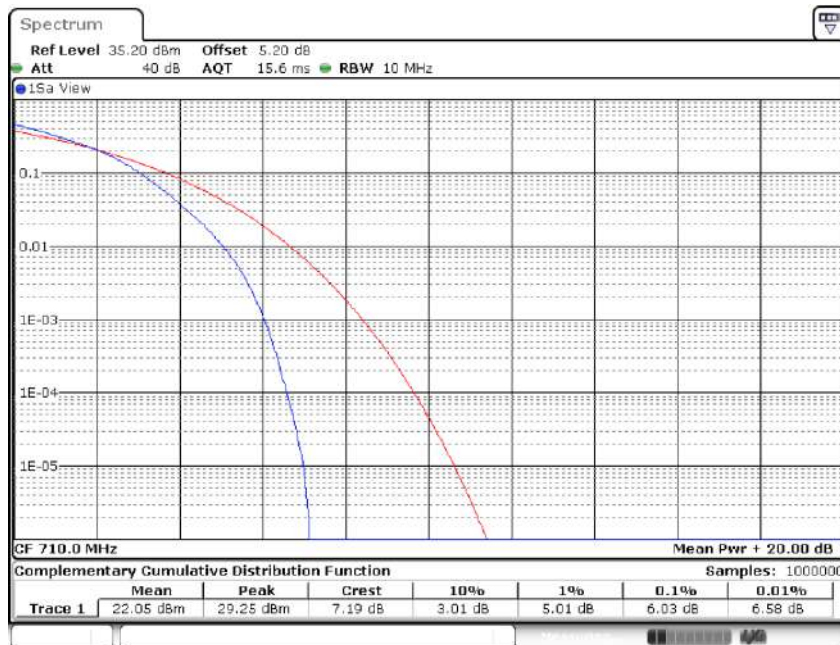
Band17-10MHz-64QAM-23780-50RB#0



Date: 4 JAN 2021 14:04:04



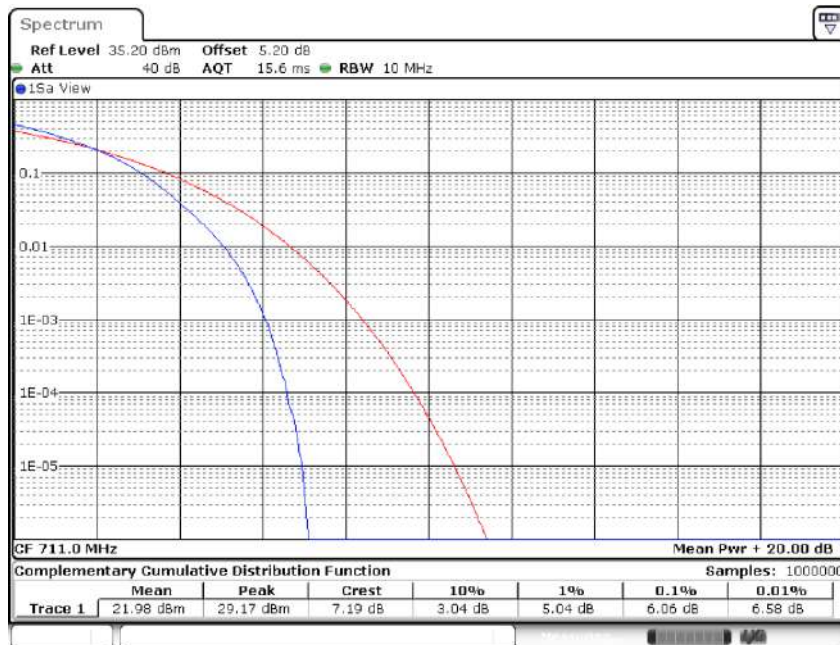
Band17-10MHz-64QAM-23790-50RB#0



Date: 4 JAN 2021 14:04:15



Band17-10MHz-64QAM-23800-50RB#0



Date: 4 JAN 2021 14:04:27

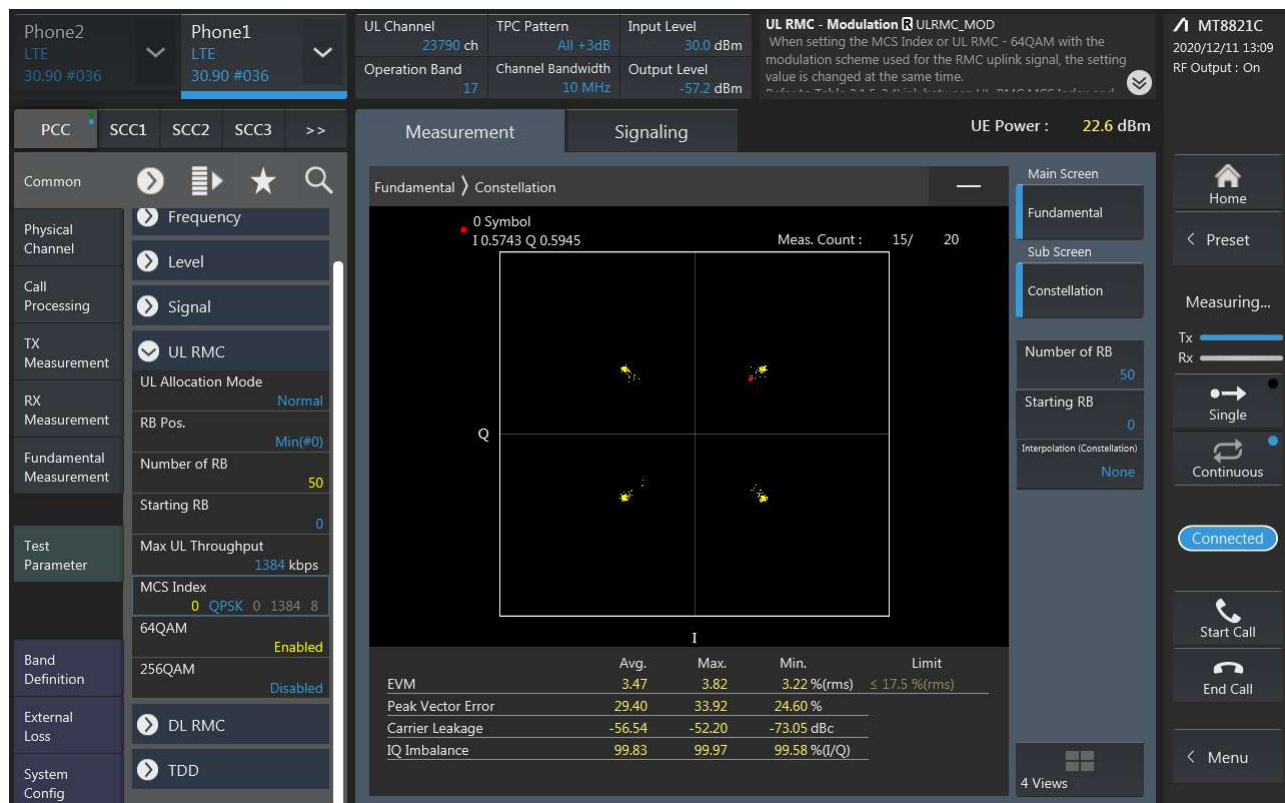




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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

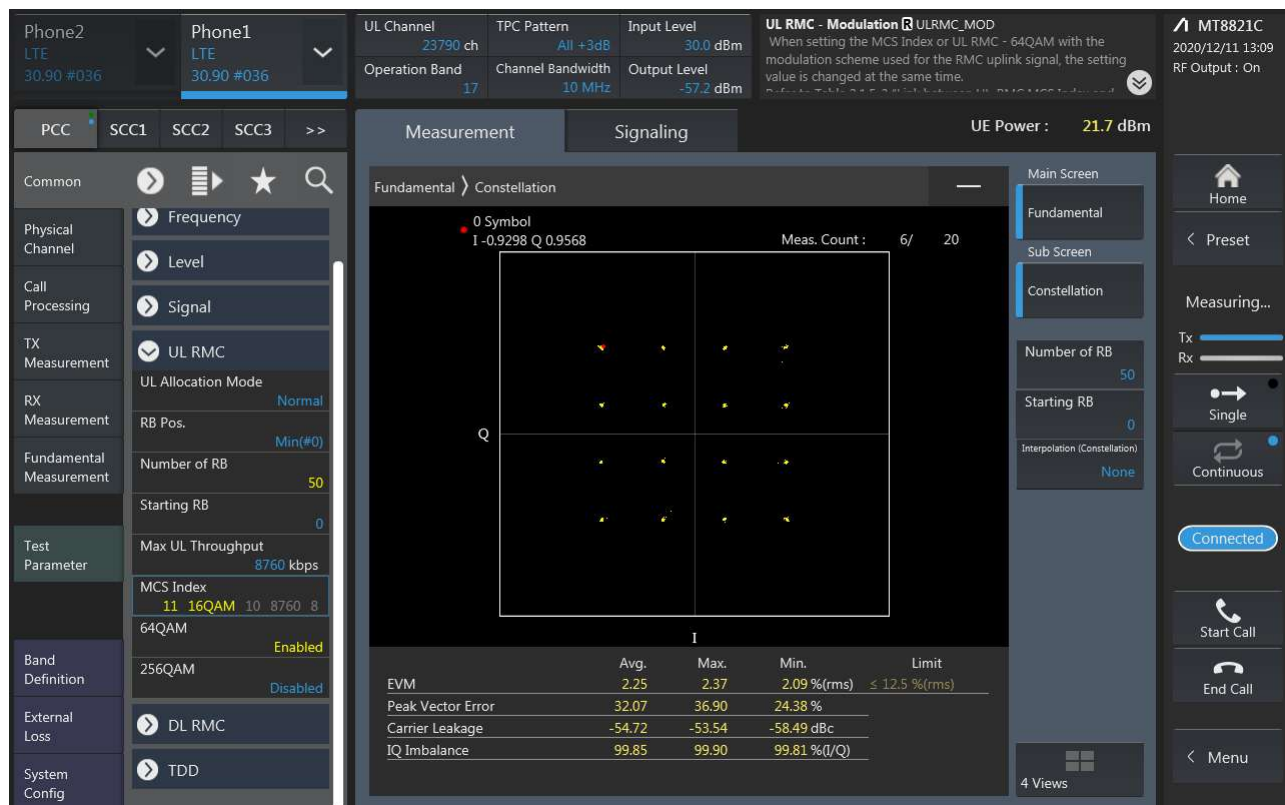
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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



3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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

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

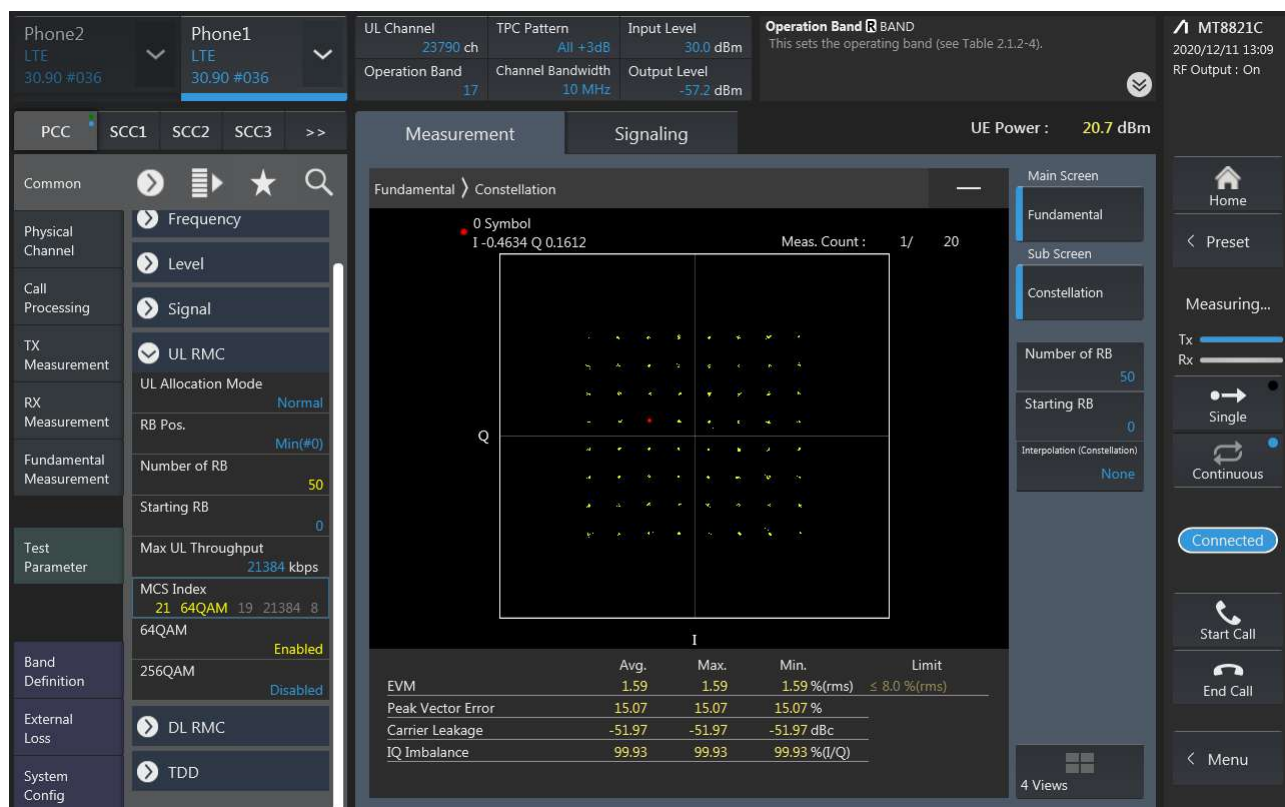
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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



3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH



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

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

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



4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.476	4.900	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.476	4.880	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.466	4.900	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.890	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.476	4.880	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.466	4.870	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.476	4.930	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.486	4.920	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.486	4.900	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.911	9.660	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.891	9.640	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.891	9.600	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.911	9.580	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.911	9.640	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.911	9.580	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.931	9.720	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.911	9.620	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.911	9.660	PASS

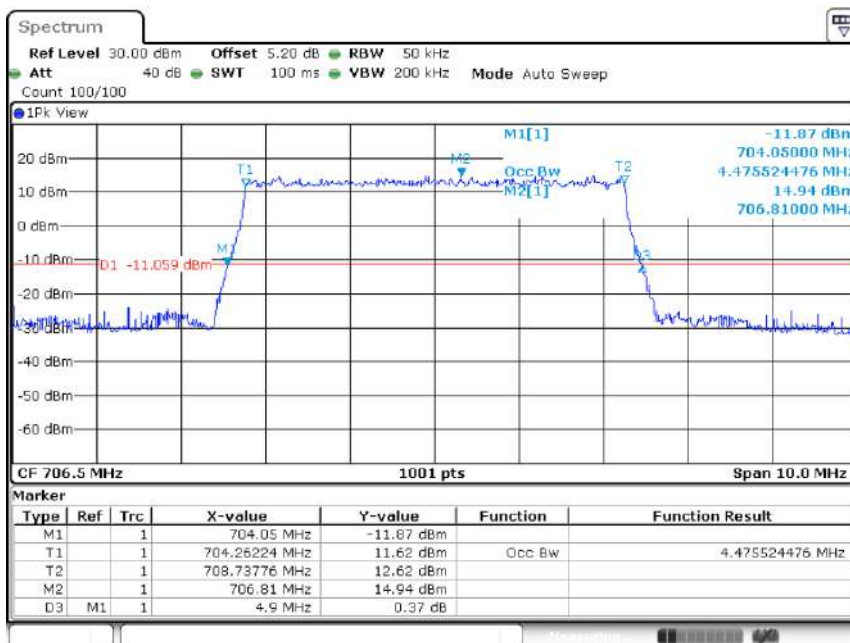


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

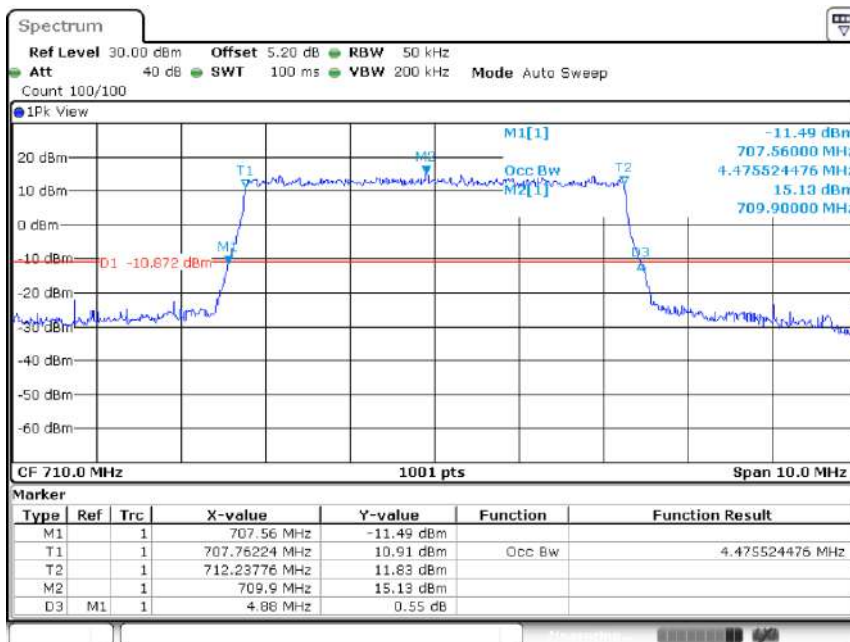
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

4.2. Test Plots

Band17-5MHz-QPSK-23755-25RB#0-4.476



Band17-5MHz-QPSK-23790-25RB#0-4.476

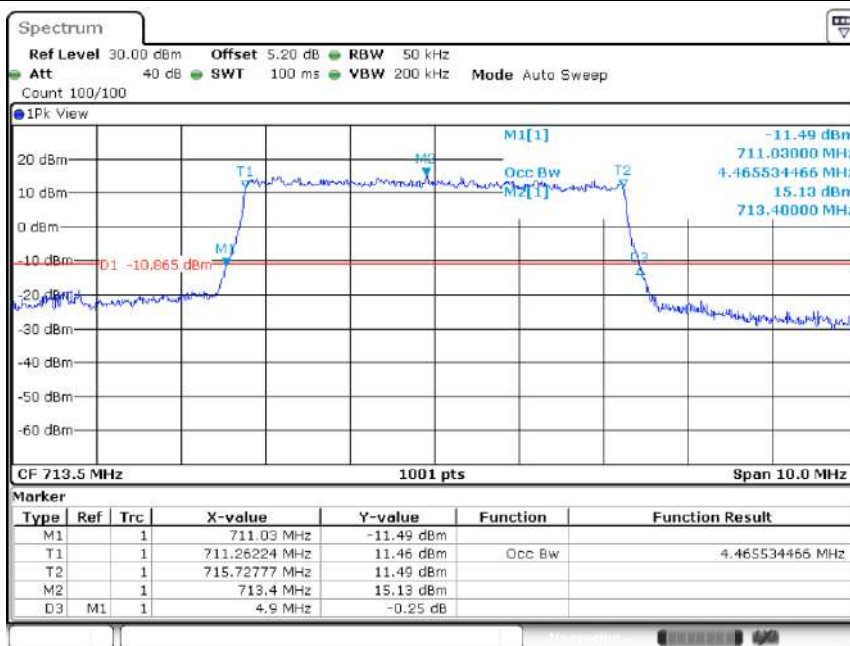


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

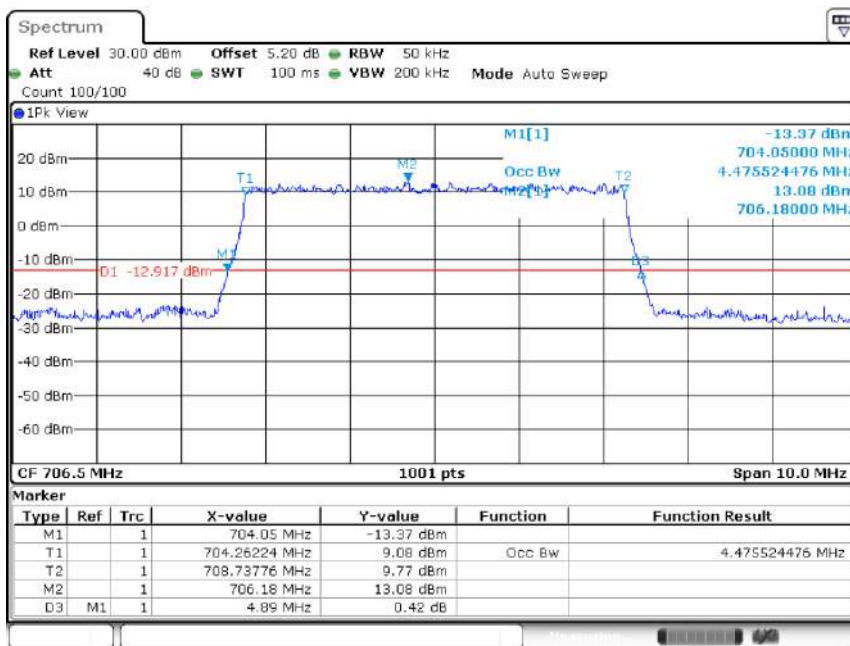
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band17-5MHz-QPSK-23825-25RB#0-4.466



Date: 10 DEC. 2020 16:25:53

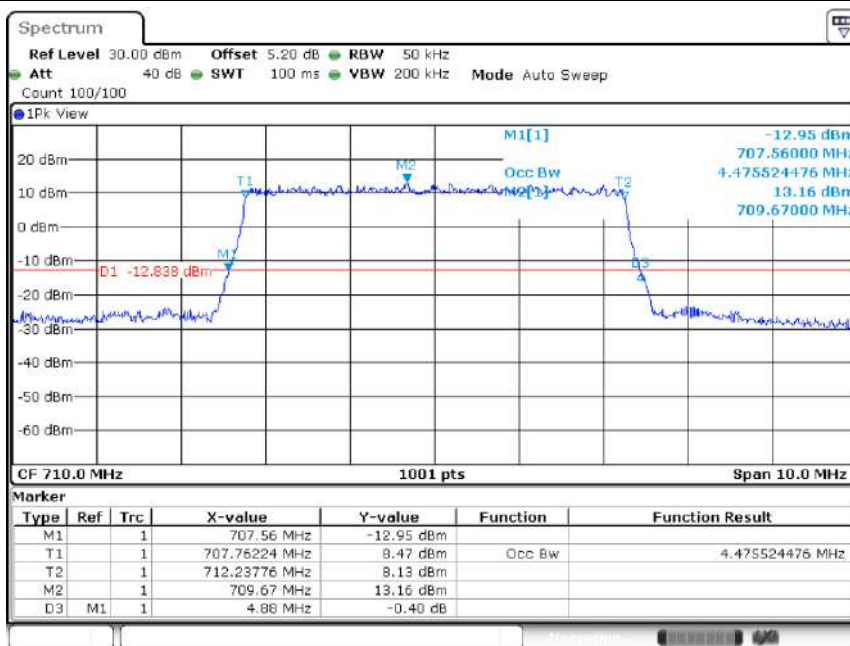
Band17-5MHz-64QAM-23755-25RB#0-4.476



Date: 10 DEC. 2020 17:13:32

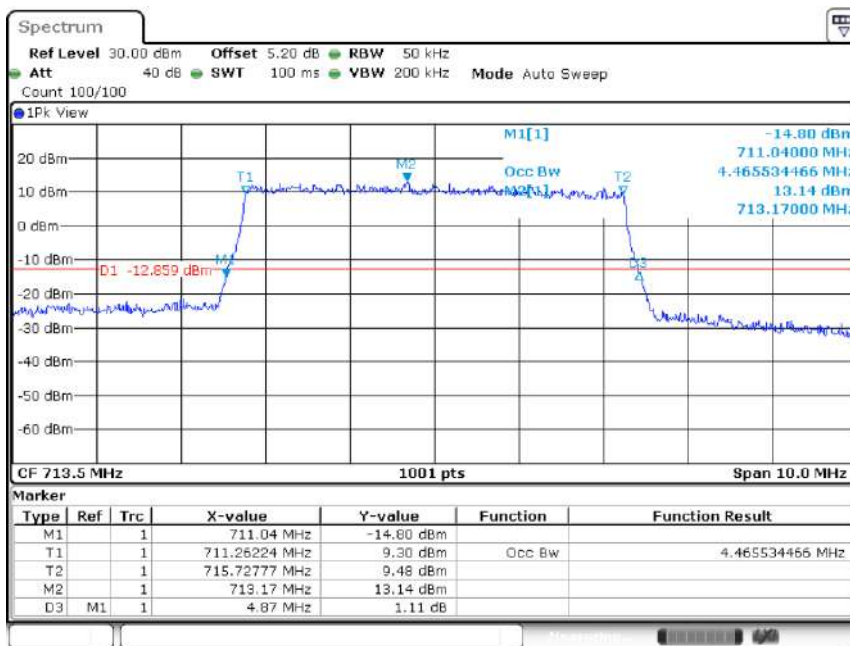


Band17-5MHz-64QAM-23790-25RB#0-4.476



Date: 10 DEC. 2020 17:13:52

Band17-5MHz-64QAM-23825-25RB#0-4.466



Date: 10 DEC. 2020 17:14:15



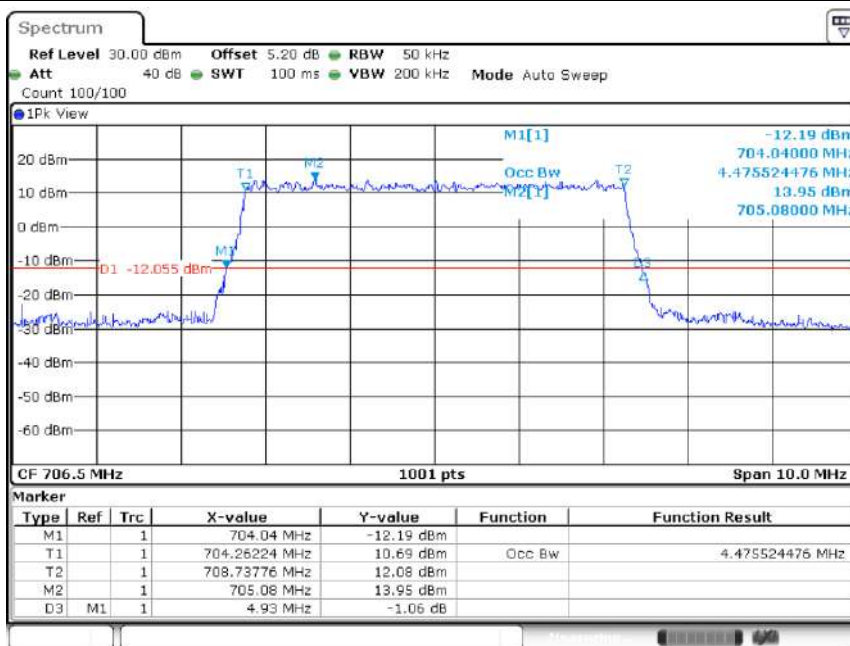
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

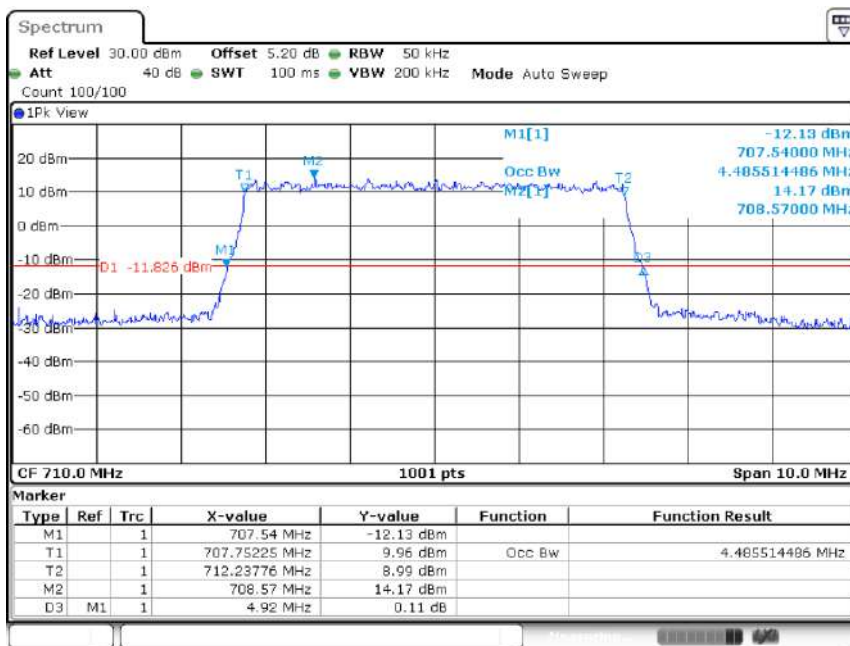
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band17-5MHz-16QAM-23755-25RB#0-4.476



Date: 10 DEC. 2020 16:24:54

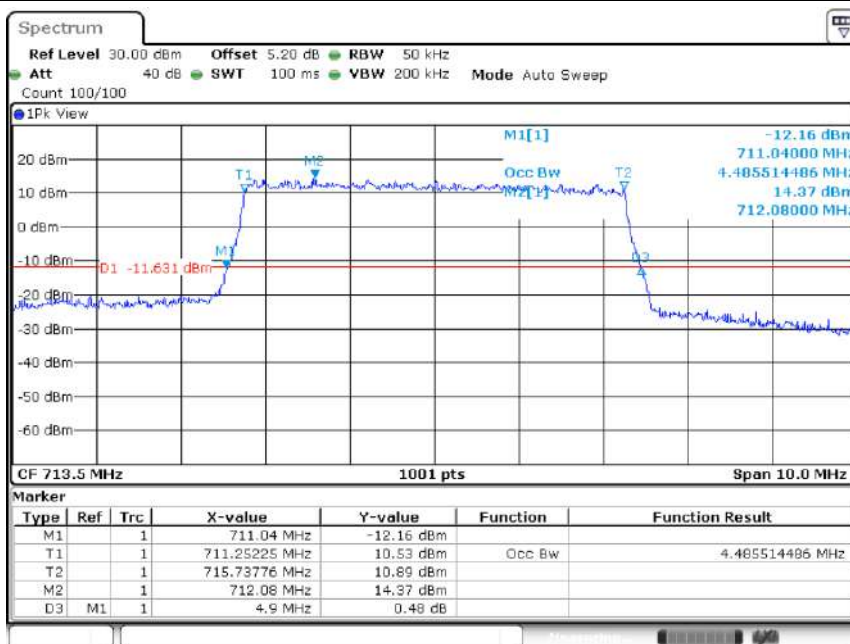
Band17-5MHz-16QAM-23790-25RB#0-4.486



Date: 10 DEC. 2020 16:25:33

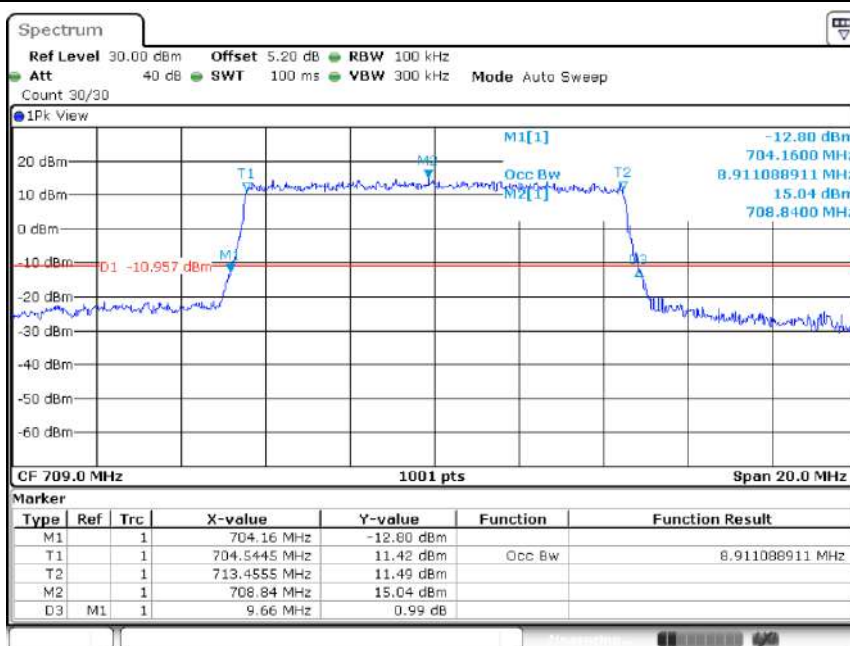


Band17-5MHz-16QAM-23825-25RB#0-4.486



Date: 10 DEC. 2020 16:26:13

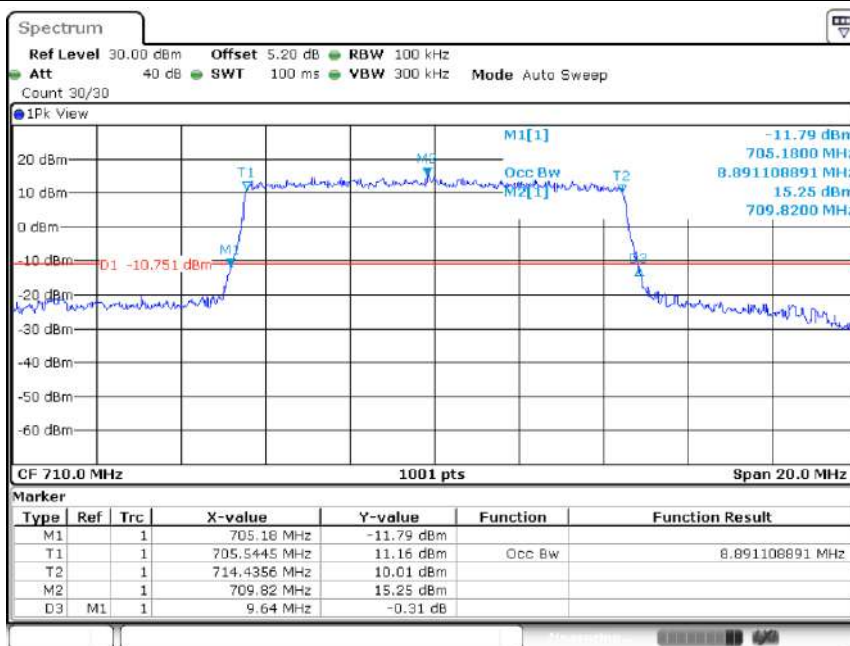
Band17-10MHz-QPSK-23780-50RB#0-8.911



Date: 10 DEC. 2020 16:26:32

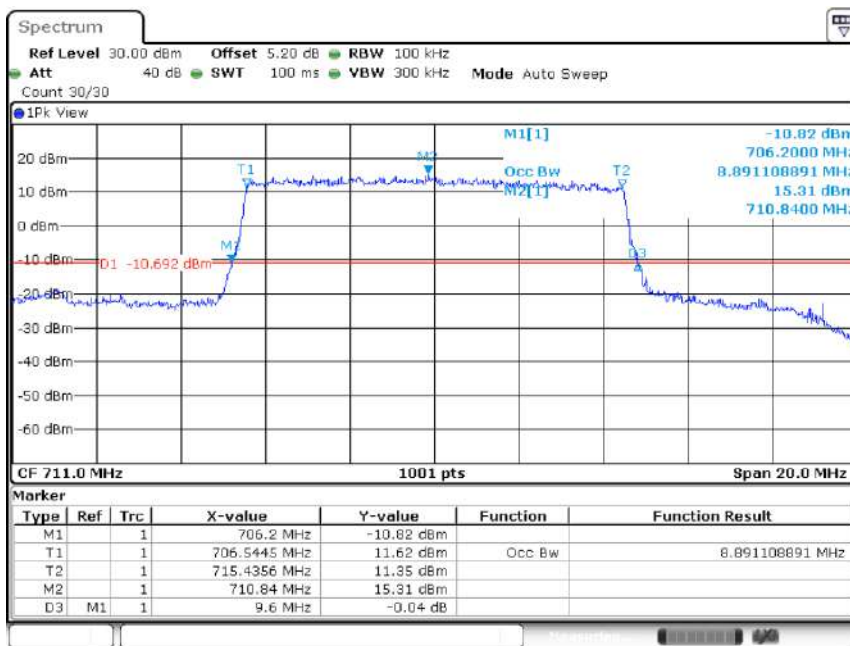


Band17-10MHz-QPSK-23790-50RB#0-8.891



Date: 10 DEC 2020 16:26:57

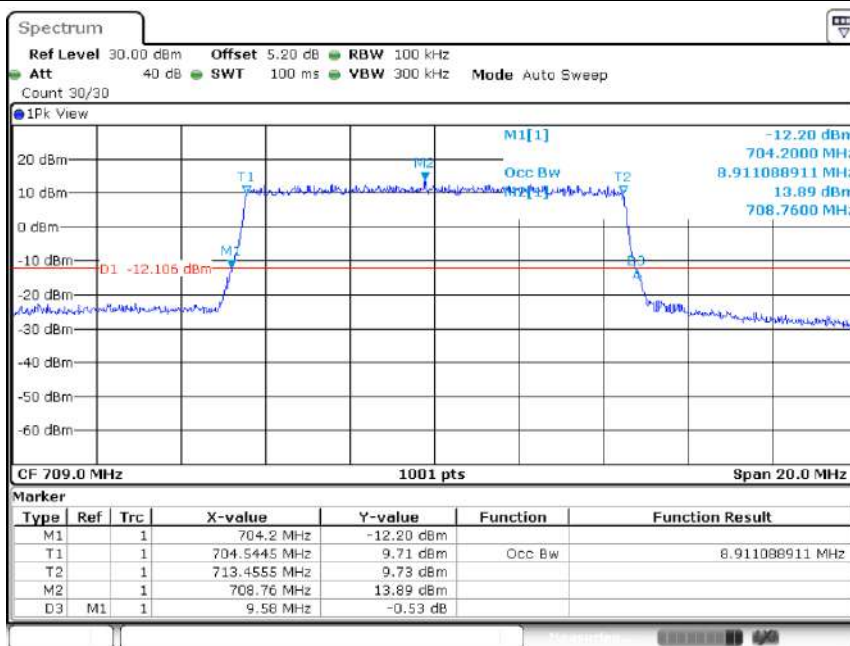
Band17-10MHz-QPSK-23800-50RB#0-8.891



Date: 10 DEC 2020 16:27:23

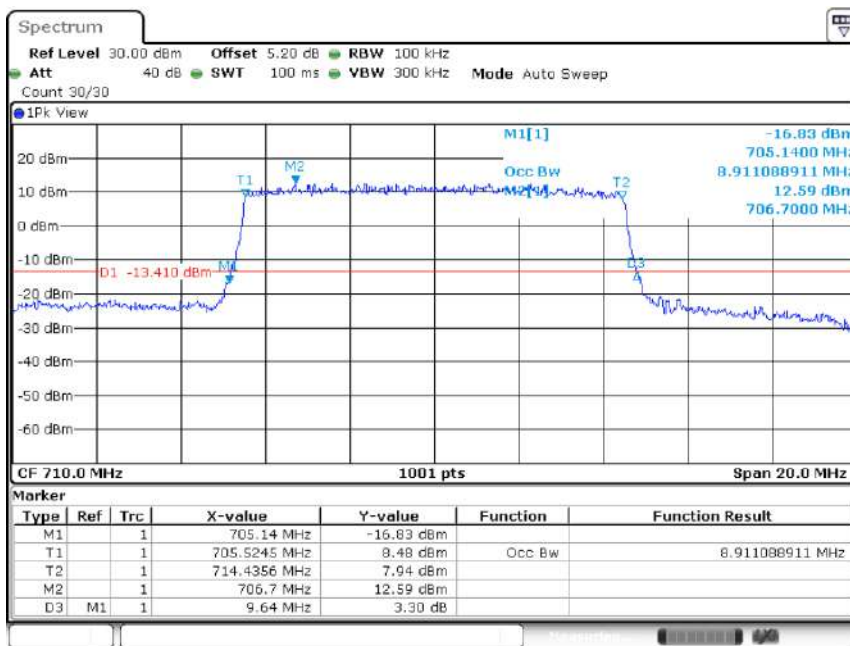


Band17-10MHz-64QAM-23780-50RB#0-8.911



Date: 10 DEC. 2020 17:14:36

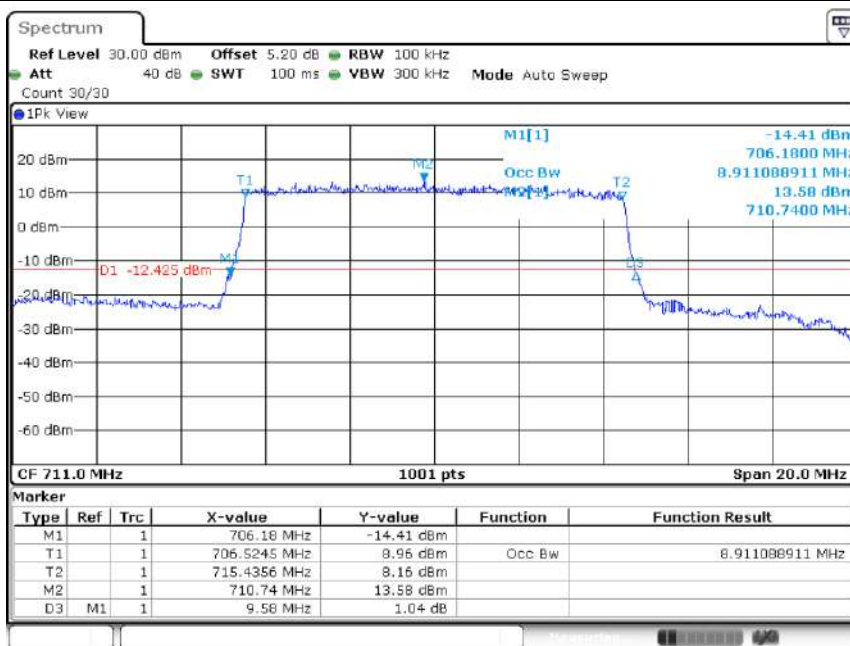
Band17-10MHz-64QAM-23790-50RB#0-8.911



Date: 10 DEC. 2020 17:14:50

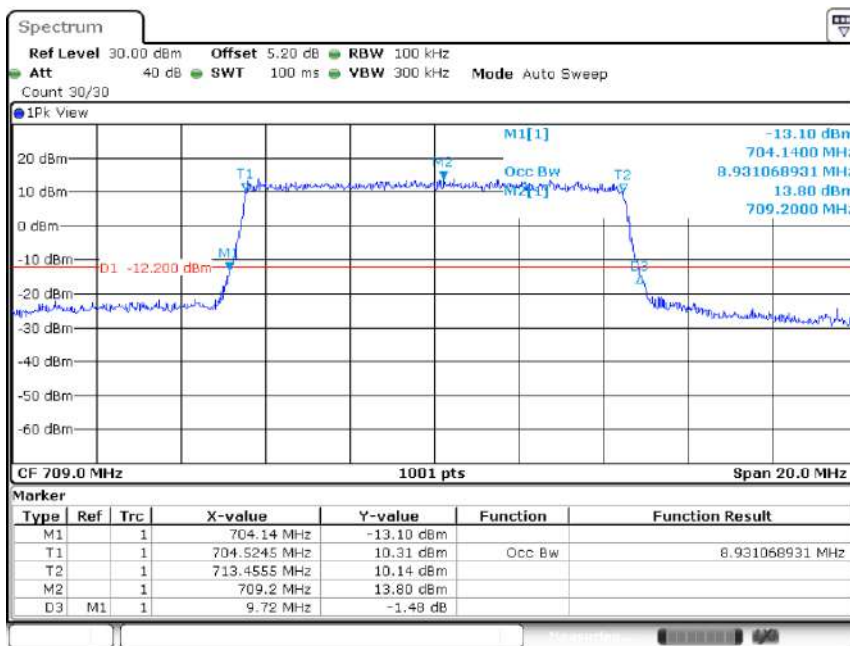


Band17-10MHz-64QAM-23800-50RB#0-8.911



Date: 10 DEC. 2020 17:15:03

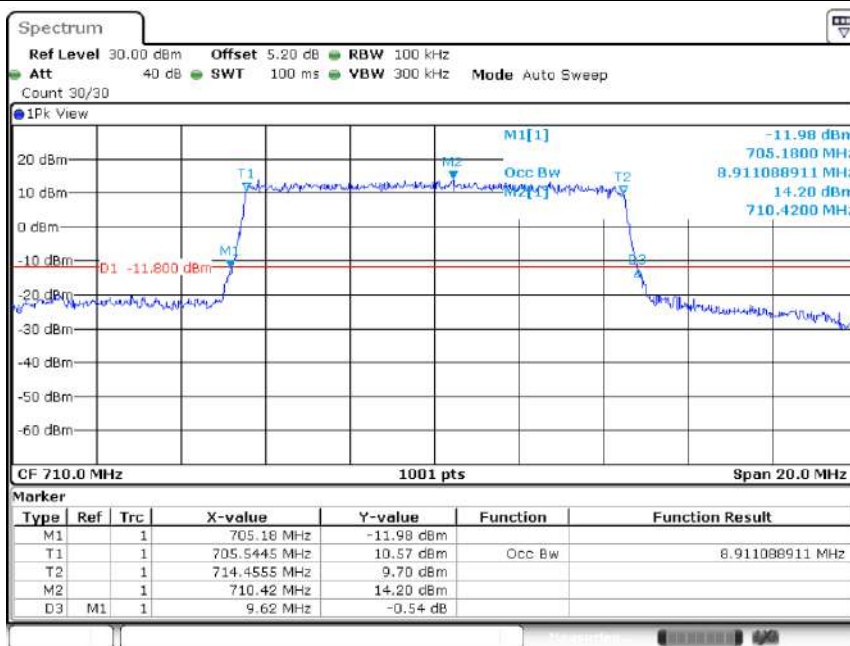
Band17-10MHz-16QAM-23780-50RB#0-8.931



Date: 10 DEC. 2020 16:26:44

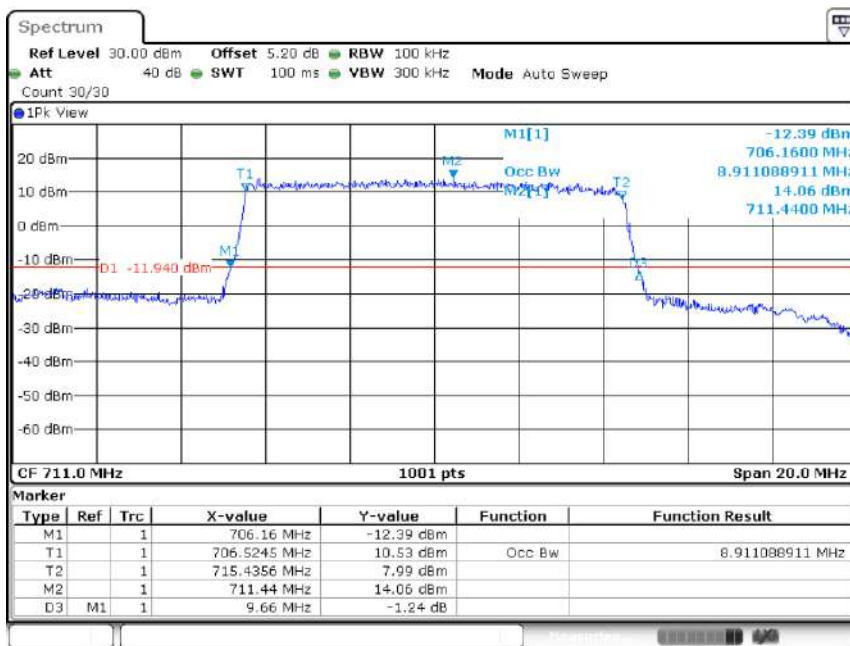


Band17-10MHz-16QAM-23790-50RB#0-8.911



Date: 10 DEC. 2020 16:27:10

Band17-10MHz-16QAM-23800-50RB#0-8.911

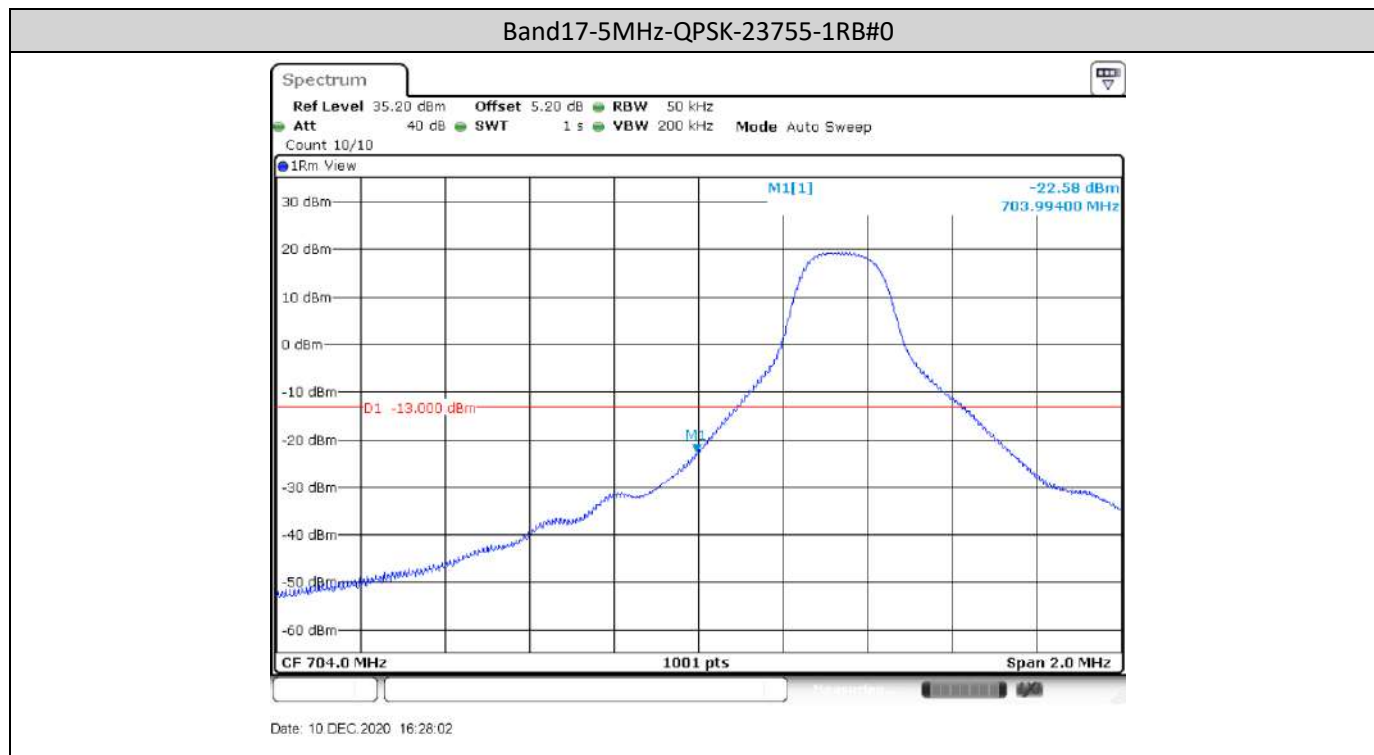


Date: 10 DEC. 2020 16:27:36



5. Band Edge Compliance

5.1. Test Plots



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

Band17-5MHz-QPSK-23755-25RB#0



Date: 10 DEC. 2020 16:28:43

Band17-5MHz-QPSK-23825-1RB#24



Date: 10 DEC. 2020 16:29:29

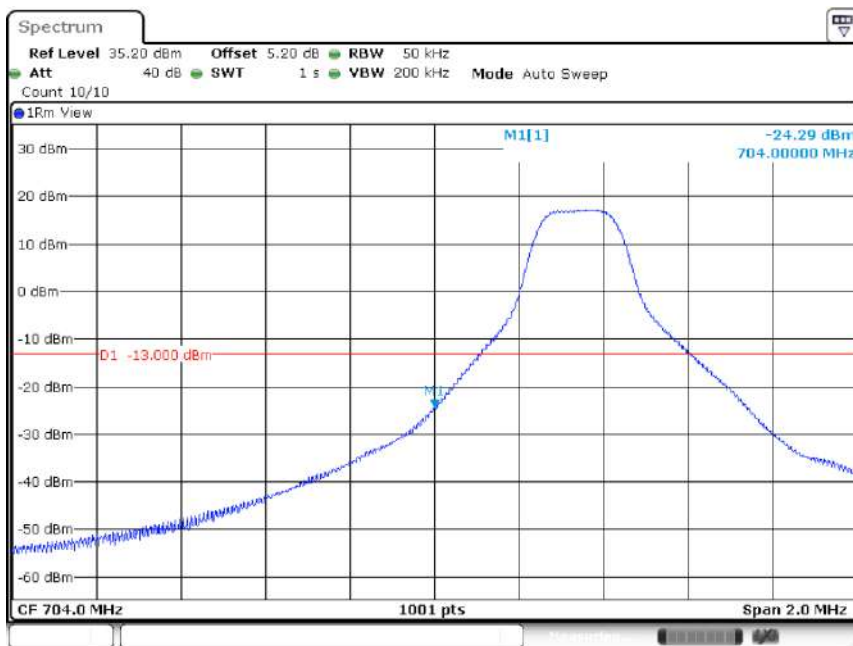


Band17-5MHz-QPSK-23825-25RB#0



Date: 10 DEC. 2020 16:30:10

Band17-5MHz-64QAM-23755-1RB#0



Date: 10 DEC. 2020 17:15:31

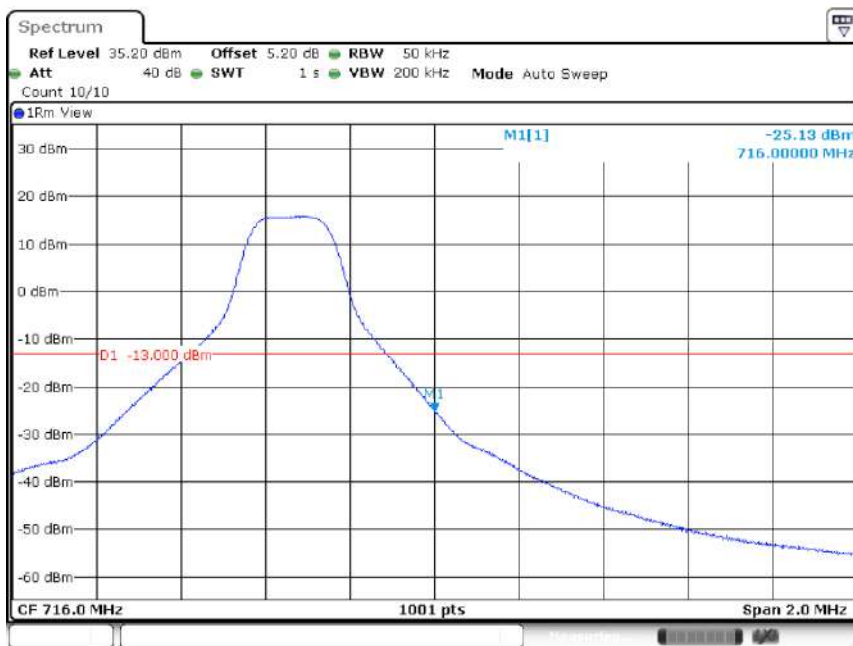


Band17-5MHz-64QAM-23755-25RB#0



Date: 10 DEC. 2020 17:15:52

Band17-5MHz-64QAM-23825-1RB#24



Date: 10 DEC. 2020 17:16:18

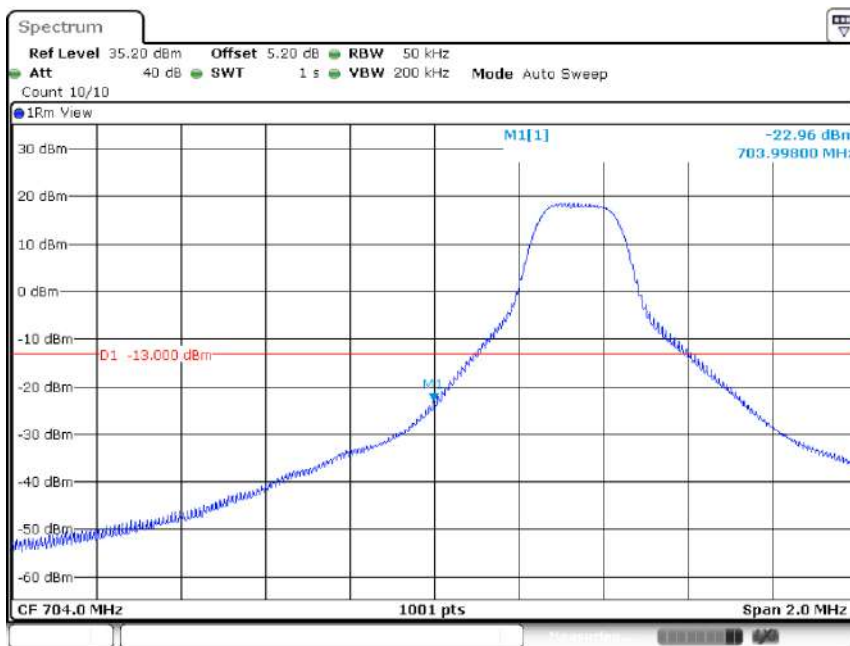


Band17-5MHz-64QAM-23825-25RB#0



Date: 10 DEC. 2020 17:16:38

Band17-5MHz-16QAM-23755-1RB#0



Date: 10 DEC. 2020 16:28:23



Band17-5MHz-16QAM-23755-25RB#0



Date: 10 DEC. 2020 16:29:04

Band17-5MHz-16QAM-23825-1RB#24



Date: 10 DEC. 2020 16:29:49

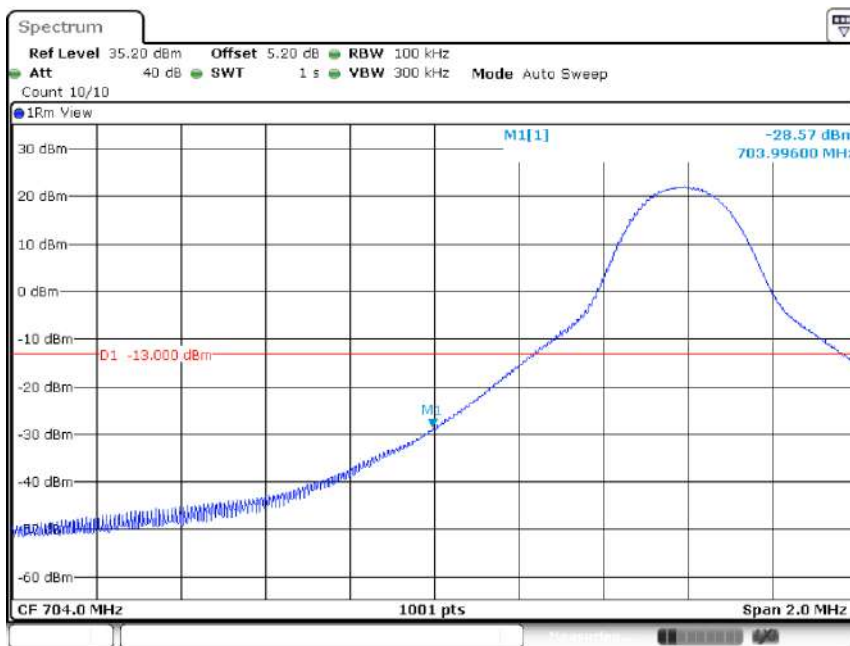


Band17-5MHz-16QAM-23825-25RB#0



Date: 10 DEC. 2020 16:30:31

Band17-10MHz-QPSK-23780-1RB#0



Date: 10 DEC. 2020 16:30:58



Band17-10MHz-QPSK-23780-50RB#0



Date: 10 DEC. 2020 16:31:40

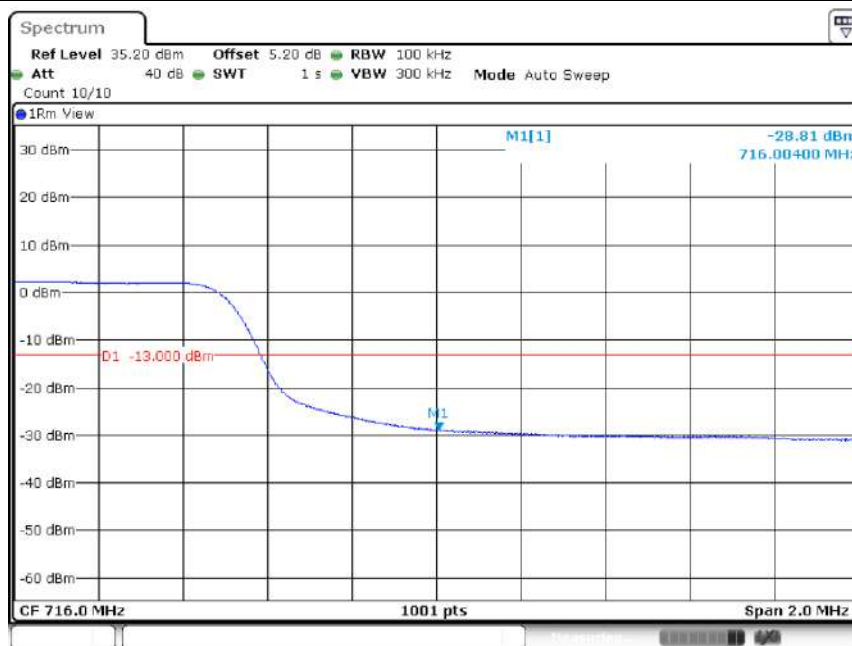
Band17-10MHz-QPSK-23800-1RB#49



Date: 10 DEC. 2020 16:32:25

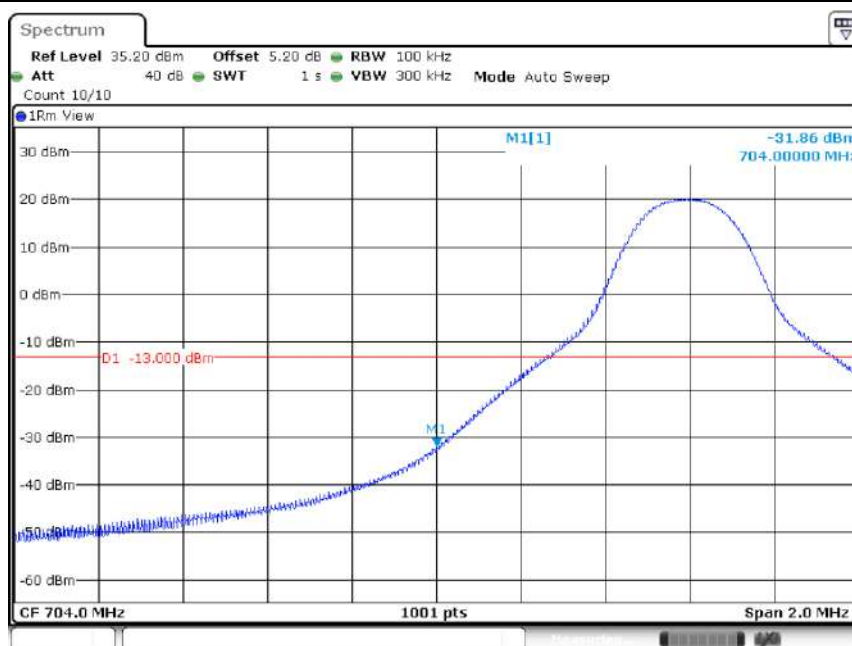


Band17-10MHz-QPSK-23800-50RB#0



Date: 10 DEC. 2020 16:33:06

Band17-10MHz-64QAM-23780-1RB#0



Date: 10 DEC. 2020 17:17:06



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

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

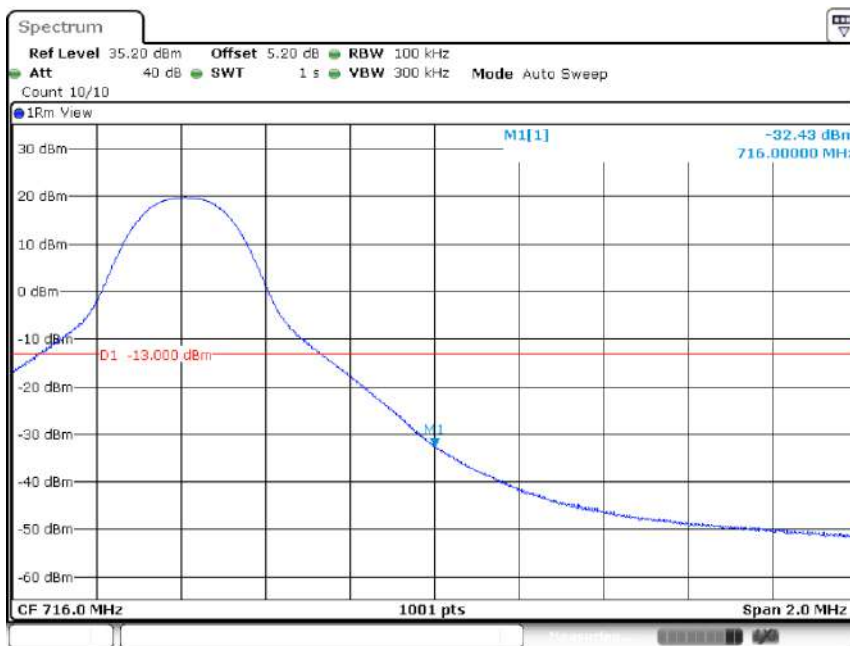
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band17-10MHz-64QAM-23780-50RB#0



Date: 10 DEC. 2020 17:17:27

Band17-10MHz-64QAM-23800-1RB#49



Date: 10 DEC. 2020 17:17:52



Band17-10MHz-64QAM-23800-50RB#0



Date: 10 DEC. 2020 17:18:13

Band17-10MHz-16QAM-23780-1RB#0



Date: 10 DEC. 2020 16:31:19



Band17-10MHz-16QAM-23780-50RB#0



Date: 10 DEC. 2020 16:32:00

Band17-10MHz-16QAM-23800-1RB#49



Date: 10 DEC. 2020 16:32:45



Band17-10MHz-16QAM-23800-50RB#0



Date: 10 DEC. 2020 16:33:26

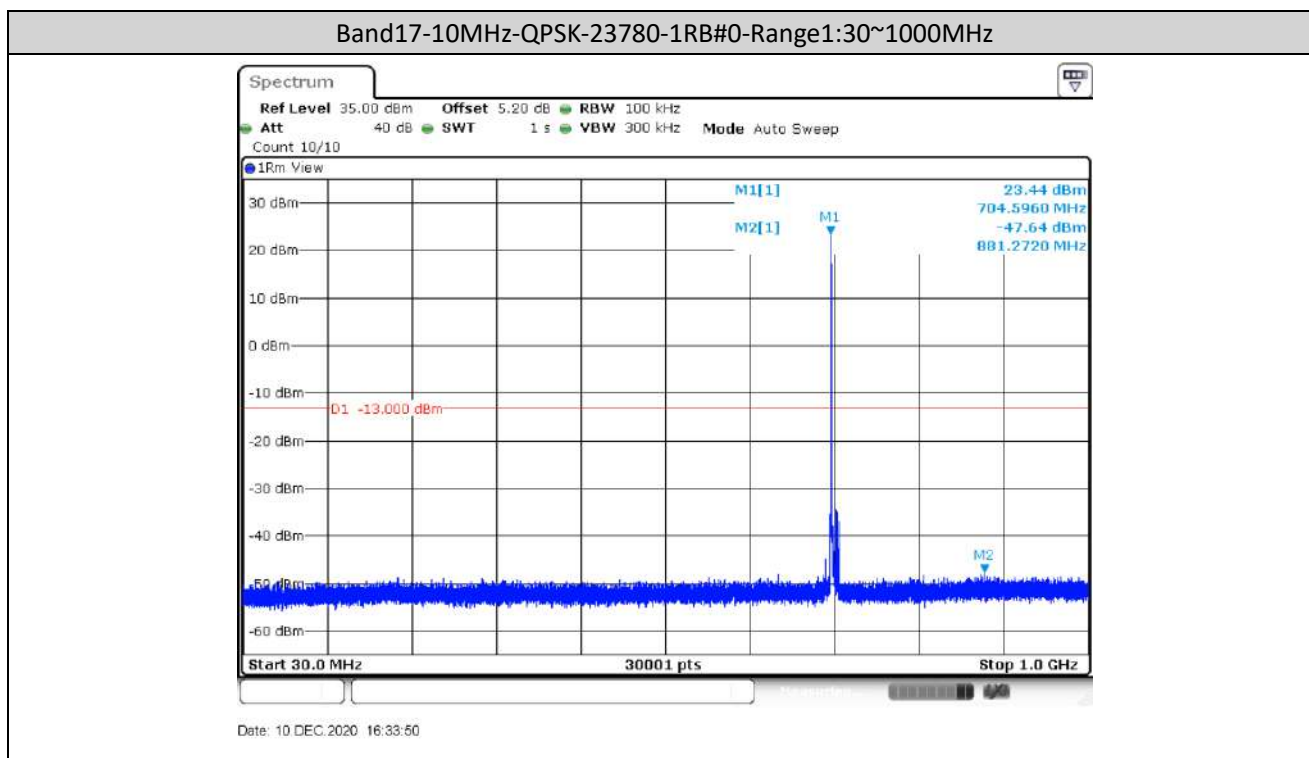


6. Spurious Emission at Antenna Terminal

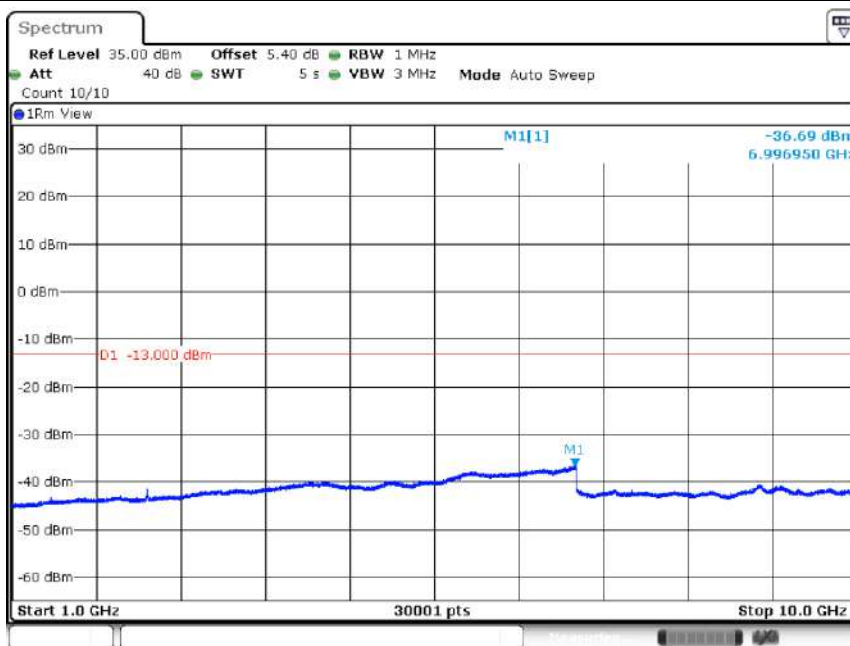
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

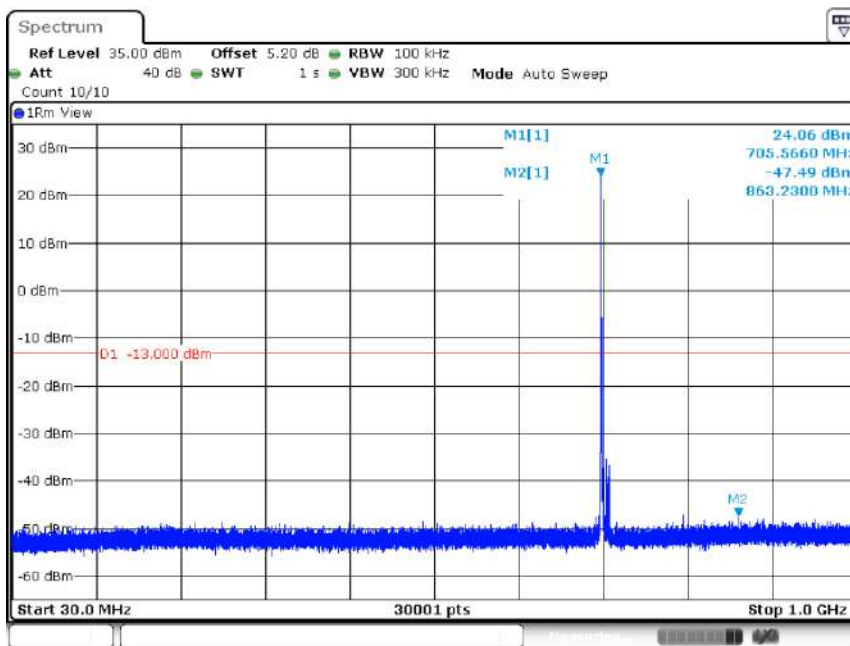


Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~10000MHz



Date: 10 DEC. 2020 16:34:57

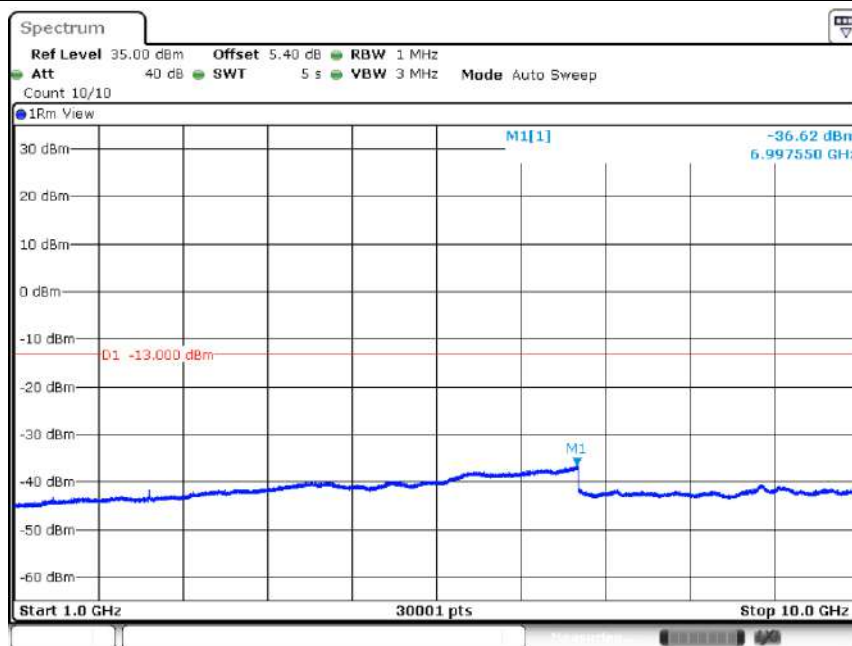
Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



Date: 10 DEC. 2020 16:36:44

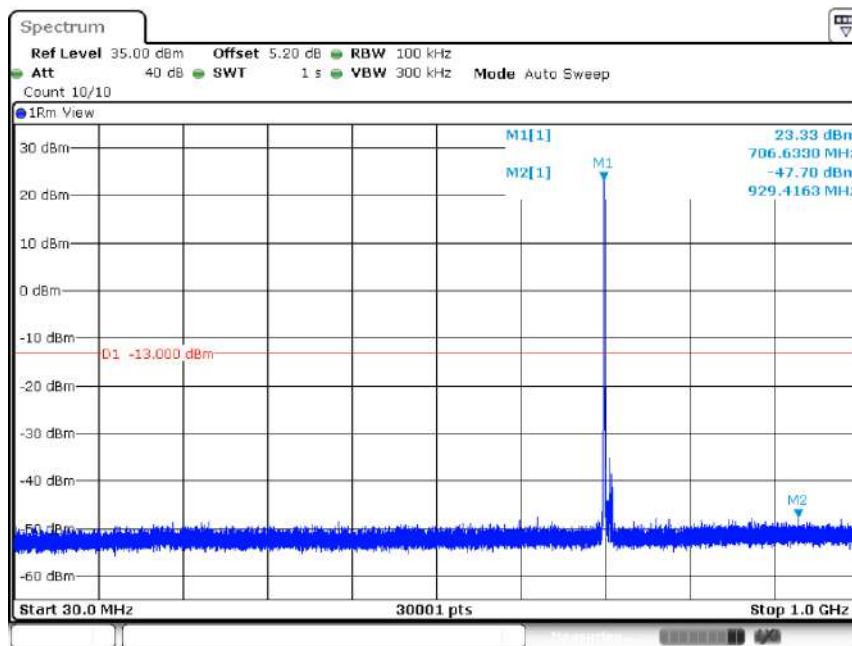


Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~10000MHz



Date: 10 DEC. 2020 16:37:52

Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



Date: 10 DEC. 2020 16:38:38

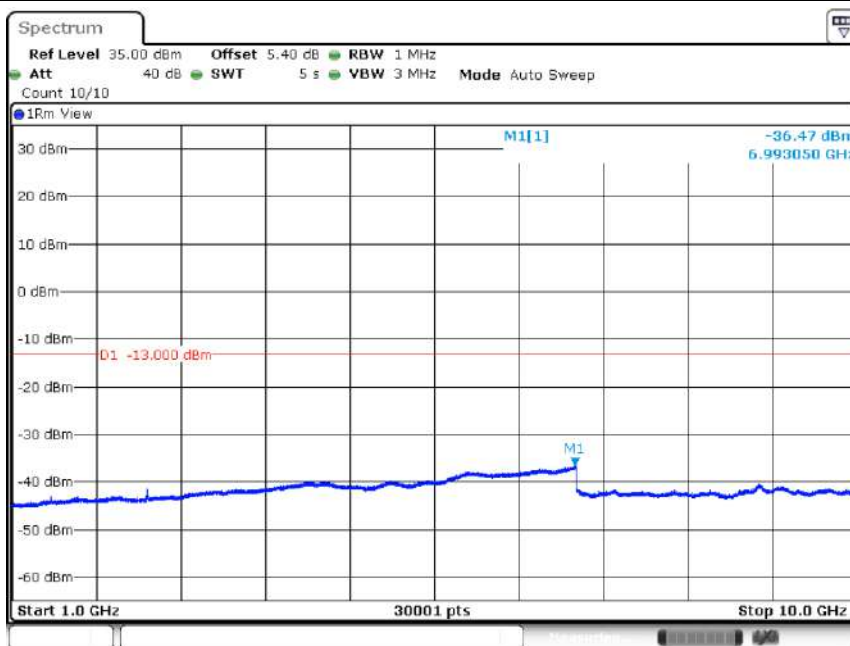


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

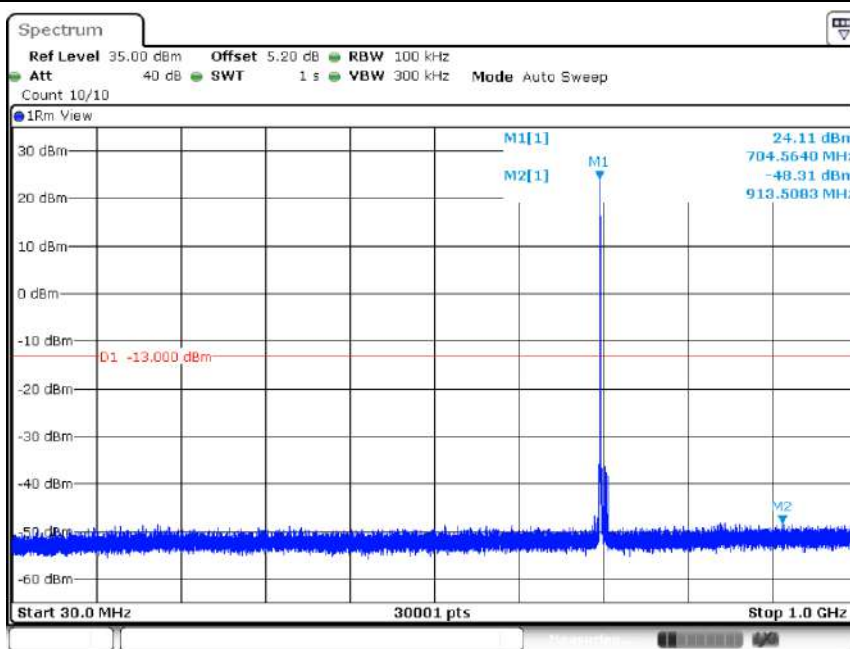
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~10000MHz



Date: 10 DEC. 2020 16:40:46

Band17-10MHz-16QAM-23780-1RB#0-Range1:30~1000MHz



Date: 10 DEC. 2020 16:35:17



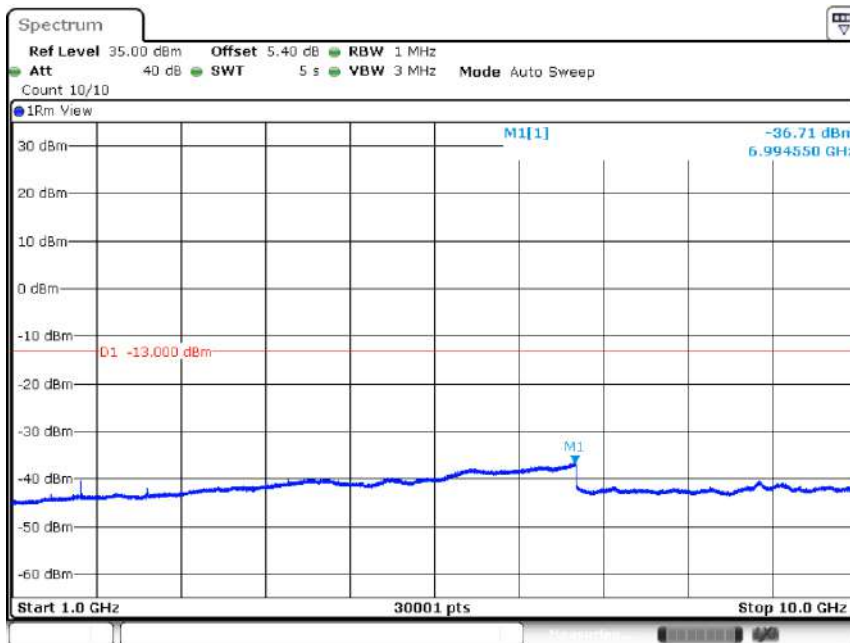
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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

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

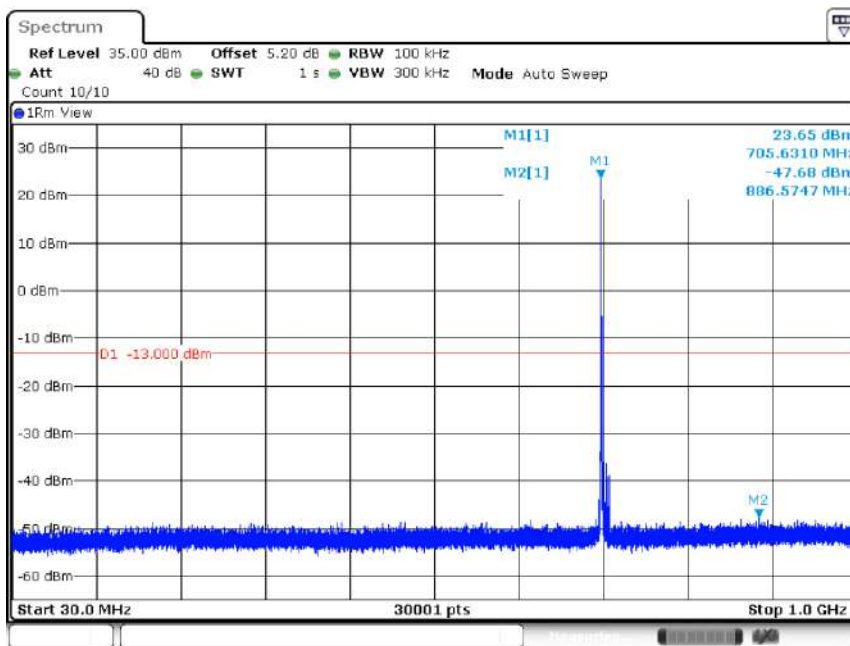
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~10000MHz



Date: 10 DEC. 2020 16:36:24

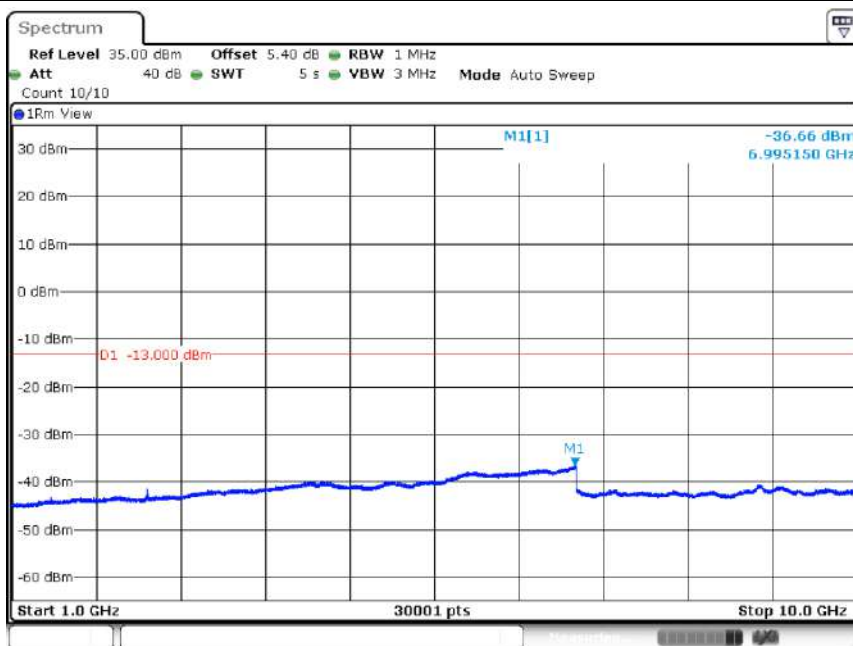
Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



Date: 10 DEC. 2020 16:38:11

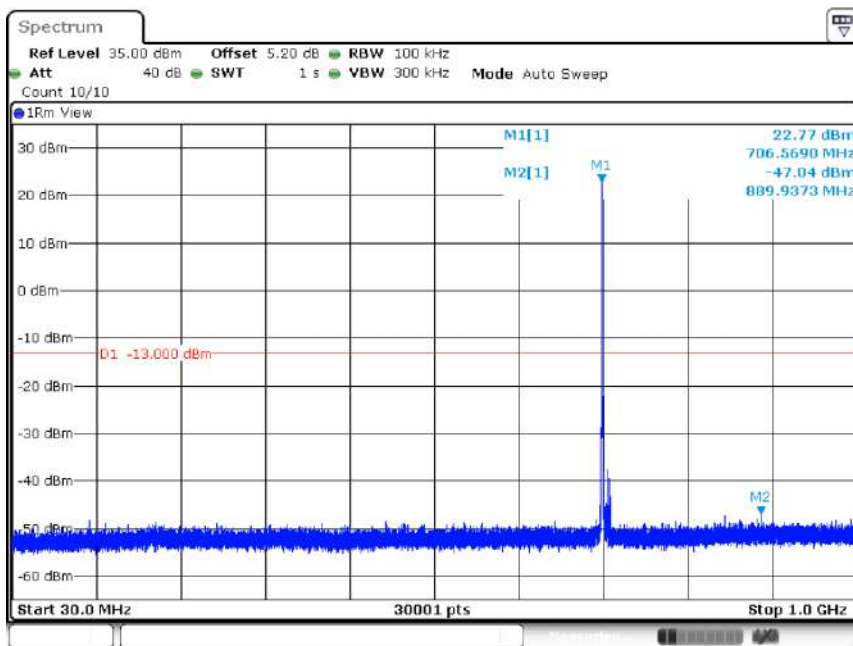


Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~10000MHz



Date: 10 DEC. 2020 16:39:19

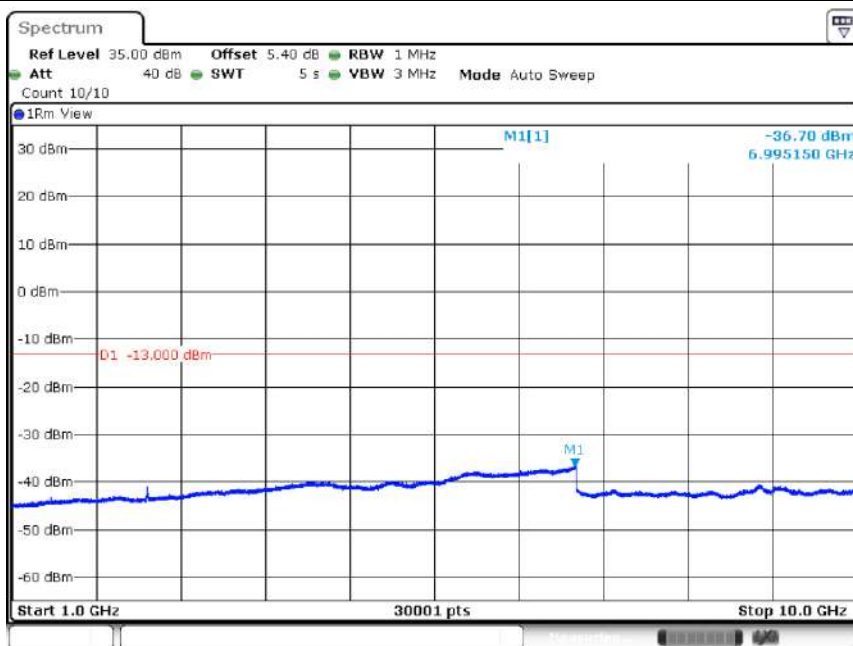
Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



Date: 10 DEC. 2020 16:41:06



Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~10000MHz



Date: 10 DEC. 2020 16:42:13



7. Field Strength of Spurious Radiation

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

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
55.993333	-79.07	-13.00	66.07	210	104	Vertical
104.246667	-81.47	-13.00	68.47	275	0	Vertical
323.533333	-83.75	-13.00	70.75	264	86	Vertical
1591.500000	-65.40	-13.00	52.40	201	98	Vertical
2430.000000	-58.75	-13.00	45.75	210	104	Vertical
4298.700000	-65.81	-13.00	52.81	192	48	Vertical
56.133333	-75.11	-13.00	62.11	284	86	Horizontal
159.453333	-83.05	-13.00	70.05	178	122	Horizontal
320.313333	-84.12	-13.00	71.12	152	140	Horizontal
1388.500000	-66.97	-13.00	53.97	234	75	Horizontal
2387.000000	-58.71	-13.00	45.71	265	62	Horizontal
4436.175000	-65.39	-13.00	52.39	294	27	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
54.966667	-77.79	-13.00	64.79	205	123	Vertical
104.293333	-82.89	-13.00	69.89	186	174	Vertical
342.340000	-83.17	-13.00	70.17	230	152	Vertical
1411.000000	-65.53	-13.00	52.53	180	92	Vertical
1886.500000	-62.63	-13.00	49.63	213	15	Vertical
4420.087500	-65.97	-13.00	52.97	194	158	Vertical
63.506667	-75.46	-13.00	62.46	162	0	Horizontal
159.406667	-83.34	-13.00	70.34	230	131	Horizontal
319.520000	-84.23	-13.00	71.23	177	158	Horizontal
1385.500000	-66.93	-13.00	53.93	187	178	Horizontal
2368.000000	-58.75	-13.00	45.75	267	140	Horizontal
4320.637500	-65.36	-13.00	52.36	194	70	Horizontal



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

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

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

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
55.200000	-78.59	-13.00	65.60	254	158	Vertical
104.246667	-81.28	-13.00	68.28	193	0	Vertical
326.800000	-83.61	-13.00	70.61	225	141	Vertical
1413.000000	-65.44	-13.00	52.44	196	92	Vertical
1886.500000	-62.62	-13.00	49.62	248	7	Vertical
2625.000000	-53.97	-13.00	40.97	224	26	Vertical
63.786667	-77.42	-13.00	64.42	154	0	Horizontal
159.406667	-83.08	-13.00	70.08	163	115	Horizontal
326.053333	-83.78	-13.00	70.78	247	162	Horizontal
1487.000000	-65.42	-13.00	52.42	161	13	Horizontal
2643.500000	-55.63	-13.00	42.63	231	123	Horizontal
4397.175000	-65.40	-13.00	52.40	204	79	Horizontal

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

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
56.040000	-79.65	-13.00	66.65	178	147	Vertical
104.246667	-82.61	-13.00	69.61	217	167	Vertical
318.913333	-83.58	-13.00	70.58	218	110	Vertical
1409.000000	-62.18	-13.00	49.18	248	28	Vertical
2651.500000	-52.85	-13.00	39.85	157	65	Vertical
4352.325000	-65.77	-13.00	52.77	186	88	Vertical
62.480000	-75.58	-13.00	62.58	157	168	Horizontal
159.453333	-82.26	-13.00	69.26	219	159	Horizontal
297.680000	-83.02	-13.00	70.02	262	180	Horizontal
1446.000000	-65.82	-13.00	52.82	154	62	Horizontal
2624.000000	-55.85	-13.00	42.85	240	83	Horizontal
4342.087500	-65.76	-13.00	52.76	157	109	Horizontal



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

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

7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
63.880000	-79.30	-13.00	66.30	231	122	Vertical
104.246667	-82.70	-13.00	69.70	176	2	Vertical
323.720000	-84.50	-13.00	71.50	259	48	Vertical
1411.000000	-61.74	-13.00	48.74	211	35	Vertical
2635.500000	-55.64	-13.00	42.64	242	48	Vertical
4431.300000	-65.77	-13.00	52.77	292	55	Vertical
62.480000	-75.74	-13.00	62.74	293	85	Horizontal
134.860000	-82.79	-13.00	69.79	156	169	Horizontal
303.840000	-83.43	-13.00	70.43	268	179	Horizontal
1624.000000	-64.97	-13.00	51.97	195	44	Horizontal
2638.000000	-55.84	-13.00	42.84	171	8	Horizontal
4347.450000	-65.32	-13.00	52.32	181	121	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
64.113333	-79.38	-13.00	66.38	212	178	Vertical
124.966667	-83.50	-13.00	70.50	222	130	Vertical
314.900000	-84.38	-13.00	71.38	258	30	Vertical
1413.000000	-62.03	-13.00	49.03	164	28	Vertical
2630.500000	-54.02	-13.00	41.02	291	178	Vertical
4295.775000	-66.19	-13.00	53.19	276	45	Vertical
62.853333	-75.70	-13.00	62.70	155	49	Horizontal
134.953333	-82.78	-13.00	69.78	206	131	Horizontal
300.106667	-82.87	-13.00	69.87	156	180	Horizontal
1478.500000	-65.42	-13.00	52.42	158	104	Horizontal
2388.000000	-58.75	-13.00	45.75	241	65	Horizontal
4305.037500	-65.41	-13.00	52.41	268	69	Horizontal

Remark:

- 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.
- 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.
- all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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

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

8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	2.10	0.002962	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-0.40	-0.000564	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-1.80	-0.002539	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	1.40	0.001972	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	0.20	0.000282	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	2.20	0.003099	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	3.00	0.004219	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	2.10	0.002962	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	0.90	0.001269	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	1.10	0.001551	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	0.60	0.000845	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	2.50	0.003521	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	1.60	0.002254	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	2.00	0.002813	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	3.80	0.005345	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	5.60	0.007876	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-1.60	-0.002257	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	-4.90	-0.006911	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	-0.70	-0.000987	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	-3.40	-0.004789	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	4.60	0.006479	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-0.70	-0.000986	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-0.50	-0.000703	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	1.20	0.001688	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	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



8.2. Frequency Vs Temperature

Temperature										
Band	Bandwidth h	Modulation n	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-2.20	-0.003103	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	4.50	0.006347	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	3.00	0.004231	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-5.80	-0.008181	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	0.80	0.001128	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-4.90	-0.006911	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-5.50	-0.007757	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-8.00	-0.011283	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-1.70	-0.002398	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	0.80	0.001127	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	4.50	0.006338	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	3.40	0.004789	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-3.10	-0.004366	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-3.80	-0.005352	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-1.40	-0.001972	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	6.50	0.009155	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-5.30	-0.007465	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-1.50	-0.002113	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	7.30	0.010267	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-5.70	-0.008017	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	1.90	0.002672	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	10.40	0.014627	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-0.50	-0.000703	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-2.80	-0.003938	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	3.00	0.004219	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	2.00	0.002813	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	3.80	0.005345	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-5.10	-0.007193	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	0.80	0.001128	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-9.10	-0.012835	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	1.60	0.002257	±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



Band17	10MHz	16QAM	23780	50RB#0	NV	30	2.20	0.003103	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	4.60	0.006488	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	2.90	0.004090	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	1.00	0.001408	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	4.70	0.006620	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	3.30	0.004648	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-2.60	-0.003662	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-0.60	-0.000845	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	3.20	0.004507	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	3.30	0.004648	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-6.20	-0.008732	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	1.80	0.002535	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	4.90	0.006892	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-3.60	-0.005063	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	-10.30	-0.014487	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	2.90	0.004079	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	6.40	0.009001	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-1.20	-0.001688	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-5.90	-0.008298	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	1.30	0.001828	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-8.30	-0.011674	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	-3.10	-0.004372	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	3.20	0.004513	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-10	-4.00	-0.005642	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	-7.60	-0.010719	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	4.90	0.006911	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	4.50	0.006347	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	2.30	0.003244	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	3.20	0.004513	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	3.10	0.004372	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	2.40	0.003380	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-3.60	-0.005070	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-10	3.80	0.005352	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	0.50	0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	-2.90	-0.004085	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	3.50	0.004930	±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



Band17	10MHz	64QAM	23790	50RB#0	NV	40	6.30	0.008873	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-2.60	-0.003662	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	4.50	0.006329	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-0.60	-0.000844	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-10	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-0.50	-0.000703	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	2.70	0.003797	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	7.60	0.010689	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-6.10	-0.008579	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	0.00	0.000000	±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