

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

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

CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	4
1.1	TEST RESULT.....	4
2	PEAK-TO-AVERAGE RATIO (CCDF).....	8
2.1	TEST RESULT.....	8
2.2	TEST PLOTS.....	8
3	MODULATION CHARACTERISTICS.....	13
3.1	TEST MODE = LTE /TM1 10MHZ.....	13
3.1.1	TEST CHANNEL = MCH	13
3.2	TEST MODE = LTE /TM2 10MHZ.....	14
3.2.1	TEST CHANNEL = MCH	14
3.3	TEST MODE = LTE /TM3 10MHZ.....	15
3.3.1	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	26
5.1	TEST PLOTS.....	26
6	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	39
6.1	TEST PLOTS.....	39
7	FIELD STRENGTH OF SPURIOUS RADIATION	49
7.1	Test Band = LTE_17_TM1	49
7.1.1	Test Channel = Low Channel	49
7.2	Test Band = LTE_17_TM1	50
7.2.1	Test Channel = Low Channel	50
7.3	Test Band = LTE_17_TM1	51
7.3.1	Test Channel = Middle Channel	51
7.4	Test Band = LTE_17_TM1	52
7.4.1	Test Channel = Middle Channel	52
7.5	Test Band = LTE_17_TM1	53
7.5.1	Test Channel = High Channel	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-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



7.6	Test Band = LTE_17_TM1	54
7.6.1	Test Channel = High Channel	54

8 FREQUENCY STABILITY.....55

8.1	FREQUENCY Vs VOLTAGE	55
-----	----------------------------	----

8.2	FREQUENCY Vs TEMPERATURE	56
-----	--------------------------------	----



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 Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.94	18.88	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.84	18.78	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.82	18.76	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.10	18.04	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.06	18.00	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.13	18.07	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.05	17.99	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.88	18.82	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.93	18.87	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.94	18.88	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.85	17.79	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.09	18.03	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.13	18.07	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.98	17.92	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.07	19.01	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.78	18.72	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.90	18.84	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.17	18.11	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.02	17.96	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.96	17.90	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.97	17.91	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.19	18.13	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.16	18.10	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.47	17.41	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.93	16.87	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.91	16.85	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.92	16.86	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.09	17.03	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.99	17.93	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.76	17.70	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.71	17.65	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.86	16.80	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	5MHz	16QAM	23790	12RB#6	21.15	17.09	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.07	17.01	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.10	17.04	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.87	17.81	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.71	17.65	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.84	17.78	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.10	17.04	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.86	16.80	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.84	16.78	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.94	16.88	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	20.94	16.88	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	20.81	16.75	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	20.72	16.66	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.07	16.01	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.00	15.94	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.12	16.06	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.01	15.95	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	20.87	16.81	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	20.93	16.87	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	20.84	16.78	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	19.79	15.73	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.00	15.94	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.06	16.00	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	19.93	15.87	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.00	16.94	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	20.74	16.68	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	20.88	16.82	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.07	16.01	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	19.95	15.89	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	19.96	15.90	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	19.94	15.88	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.11	19.05	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.23	19.17	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.40	19.34	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.13	18.07	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.26	18.20	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.38	18.32	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.32	18.26	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 / 深圳分公司 / 实验室

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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	23790	1RB#0	22.81	18.75	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.14	19.08	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.20	19.14	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.17	18.11	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.20	18.14	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.31	18.25	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.27	18.21	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.85	18.79	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.20	19.14	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.00	18.94	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.15	18.09	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.26	18.20	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.12	18.06	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.14	18.08	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.59	17.53	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.31	18.25	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.05	17.99	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.42	17.36	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.36	17.30	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.45	17.39	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.35	17.29	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.85	17.79	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.17	18.11	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.89	17.83	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.16	17.10	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.16	17.10	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.14	17.08	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.17	17.11	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.59	17.53	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.25	18.19	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.79	17.73	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.23	17.17	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.26	17.20	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.22	17.16	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.26	17.20	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.02	16.96	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.16	17.10	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.32	17.26	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 / 深圳分公司 / 实验室

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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	25RB#0	20.09	16.03	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.17	16.11	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.29	16.23	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.22	16.16	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	20.73	16.67	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.13	17.07	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.12	17.06	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.17	16.11	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	20.13	16.07	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	20.28	16.22	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.22	16.16	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	20.80	16.74	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.12	17.06	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	20.91	16.85	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.08	16.02	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	20.26	16.20	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	20.10	16.04	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.07	16.01	34.77	PASS

Remark:

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

$$\text{ERP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$
$$\text{EIRP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed on the back of the report, 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 dispute. This document is not to be used for any purpose other than that for which it was issued and any use of the document, in whole or in part, 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, Email: sgs@sgs.com or sgs@sgs.com.cn

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch: Test and Inspection Laboratory

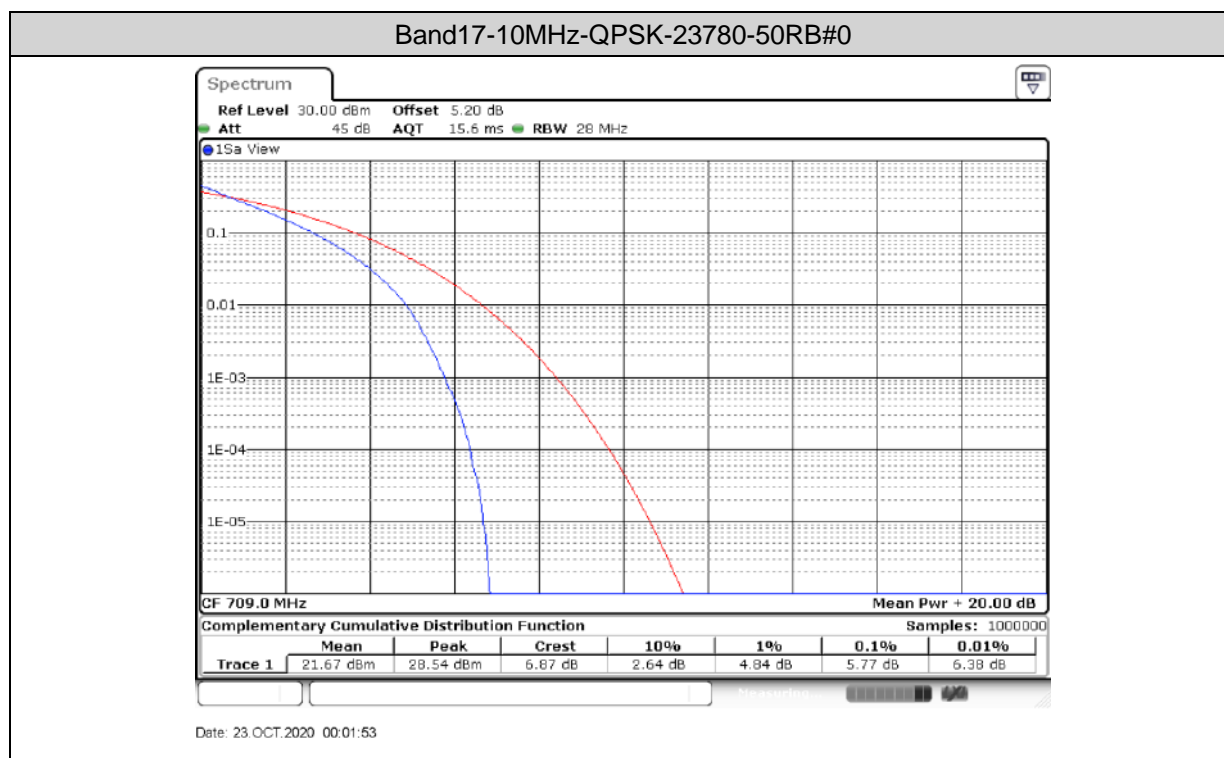
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10楼一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sas.china@sas.com

2 Peak-to-Average Ratio (CCDF)

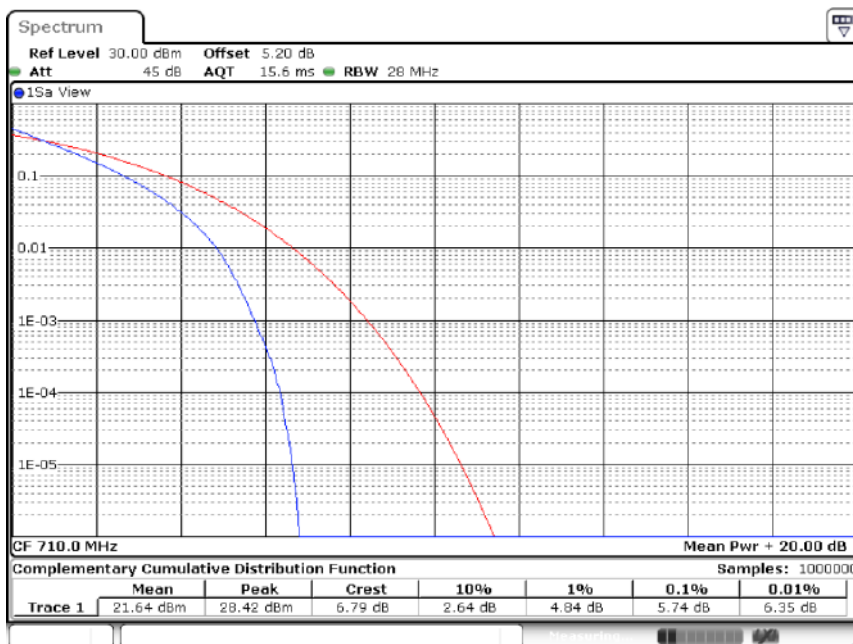
2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.77	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.74	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.71	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.58	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.58	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.52	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	7.25	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	7.25	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	7.19	13	PASS

2.2 Test Plots

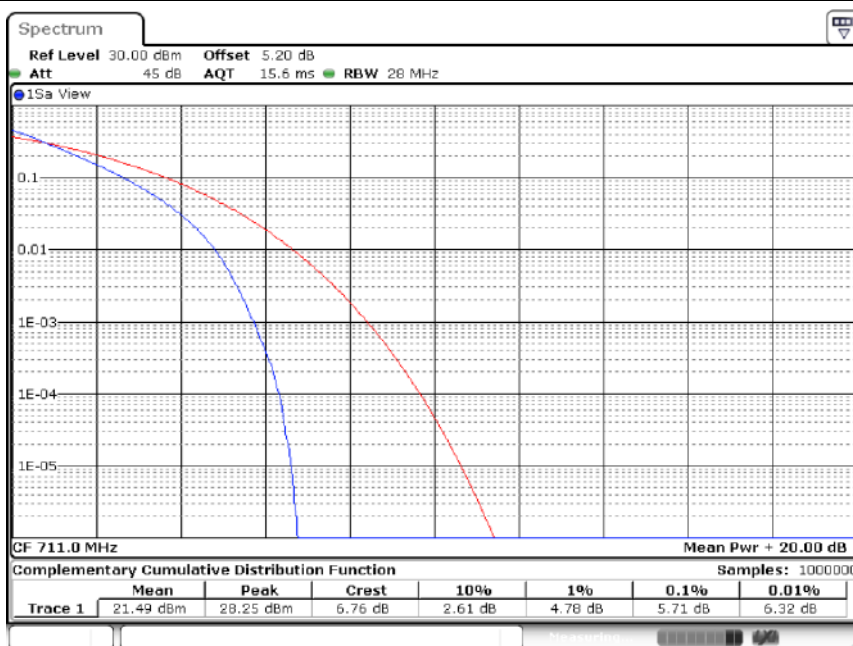


Band17-10MHz-QPSK-23790-50RB#0



Date: 23.OCT.2020 00:02:22

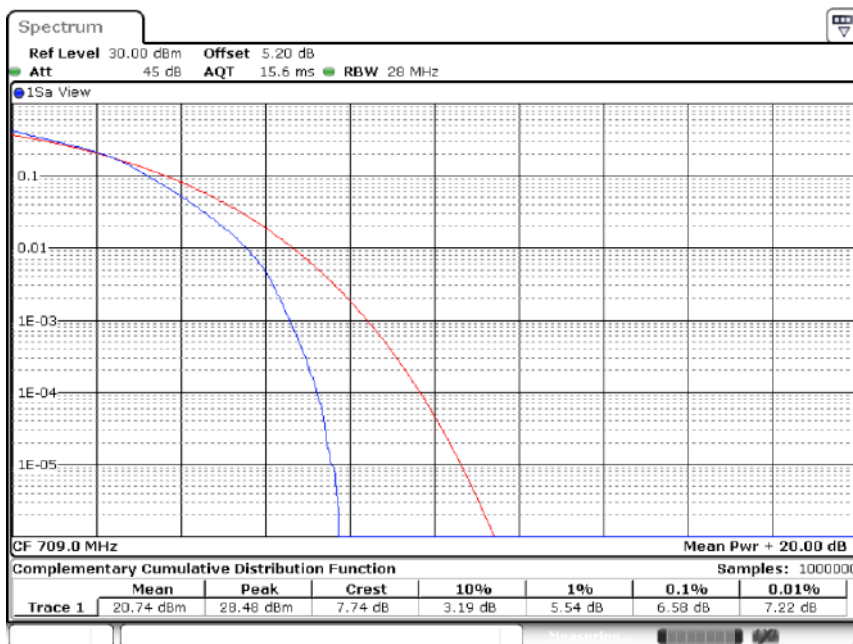
Band17-10MHz-QPSK-23800-50RB#0



Date: 23.OCT.2020 00:02:51

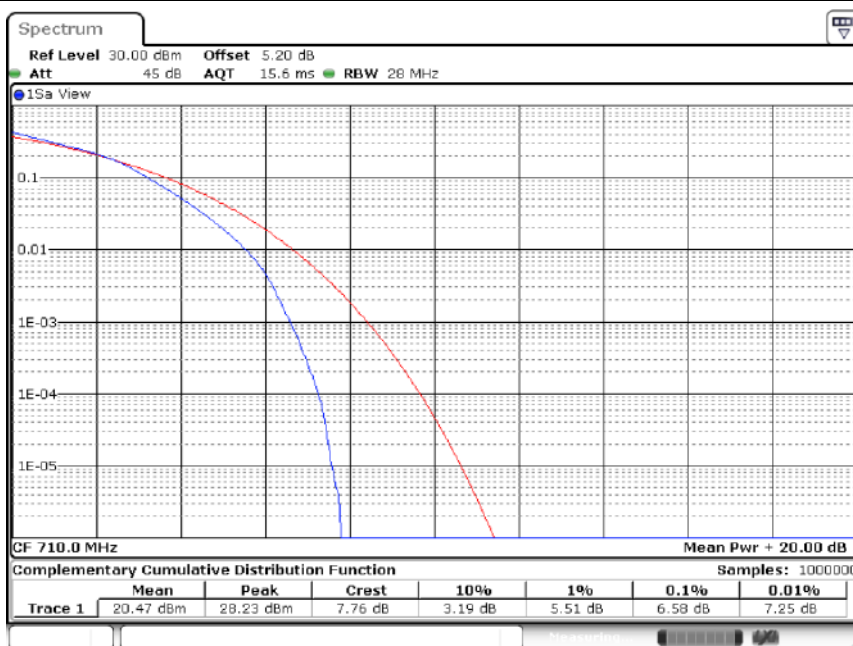


Band17-10MHz-16QAM-23780-50RB#0



Date: 23.OCT.2020 00:02:07

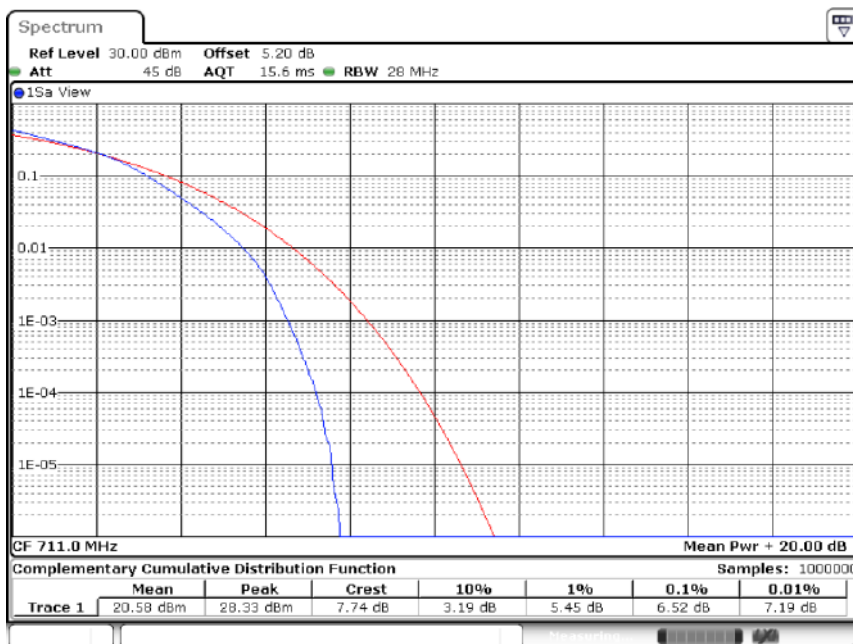
Band17-10MHz-16QAM-23790-50RB#0



Date: 23.OCT.2020 00:02:36

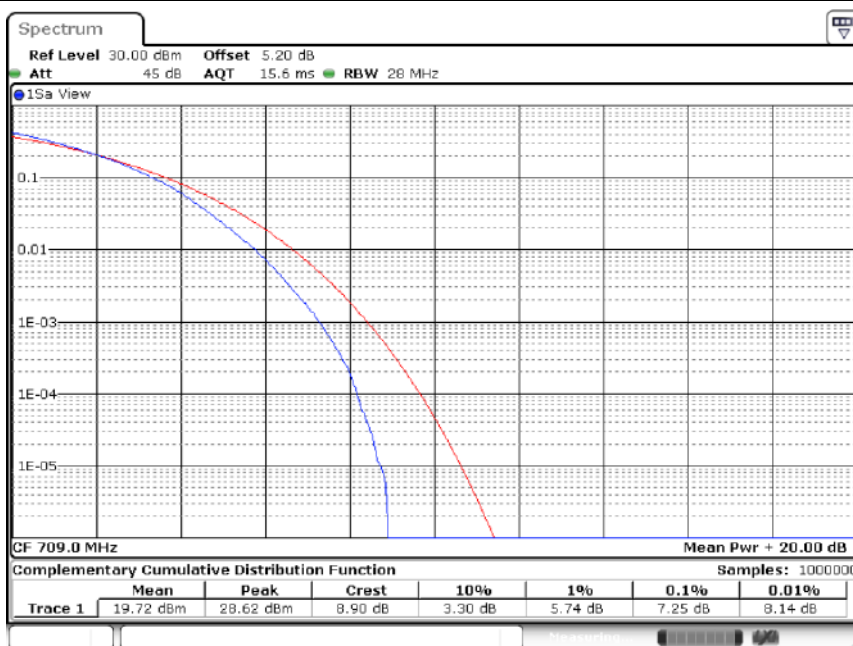


Band17-10MHz-16QAM-23800-50RB#0



Date: 23.OCT.2020 00:03:05

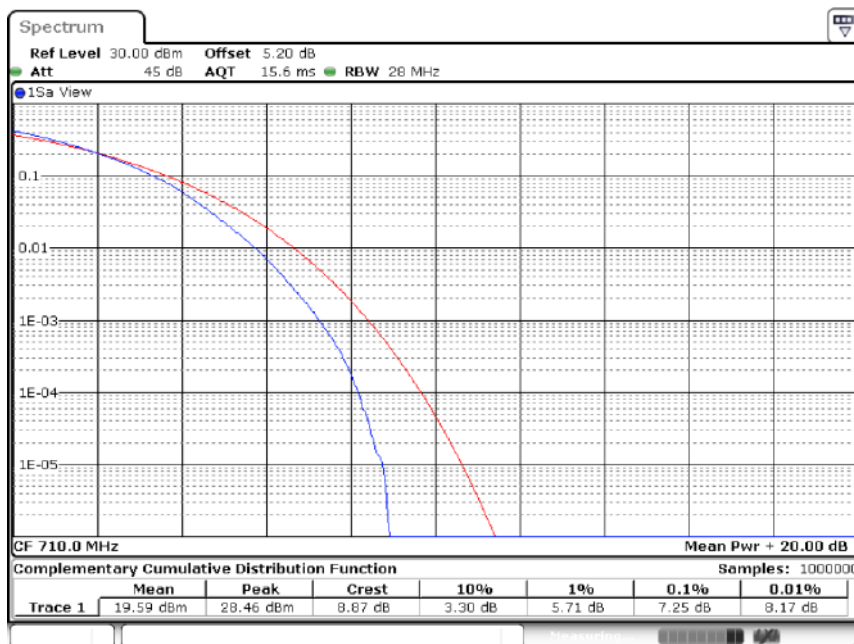
Band17-10MHz-64QAM-23780-50RB#0



Date: 23.OCT.2020 01:14:35

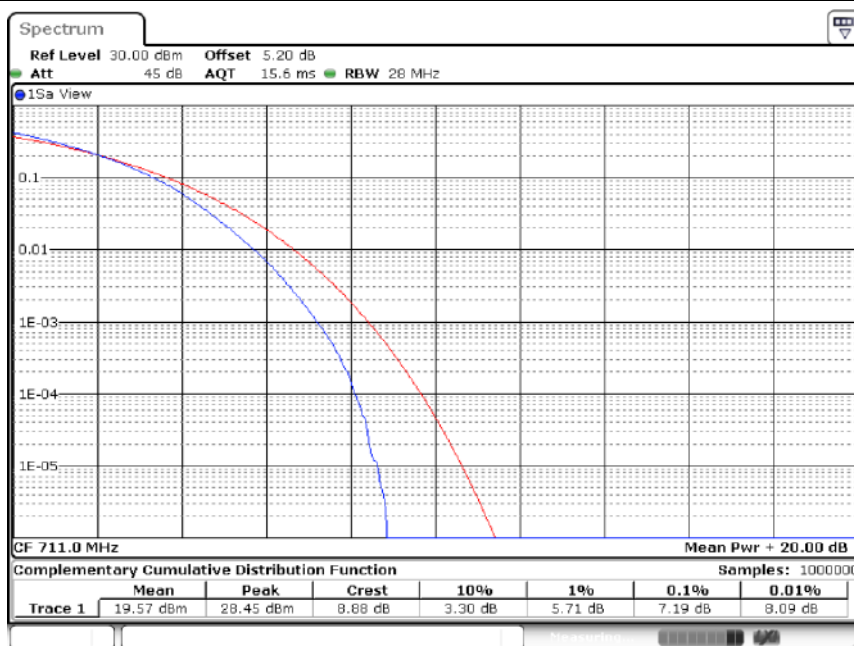


Band17-10MHz-64QAM-23790-50RB#0



Date: 23.OCT.2020 01:14:50

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



Date: 23.OCT.2020 01:15:07

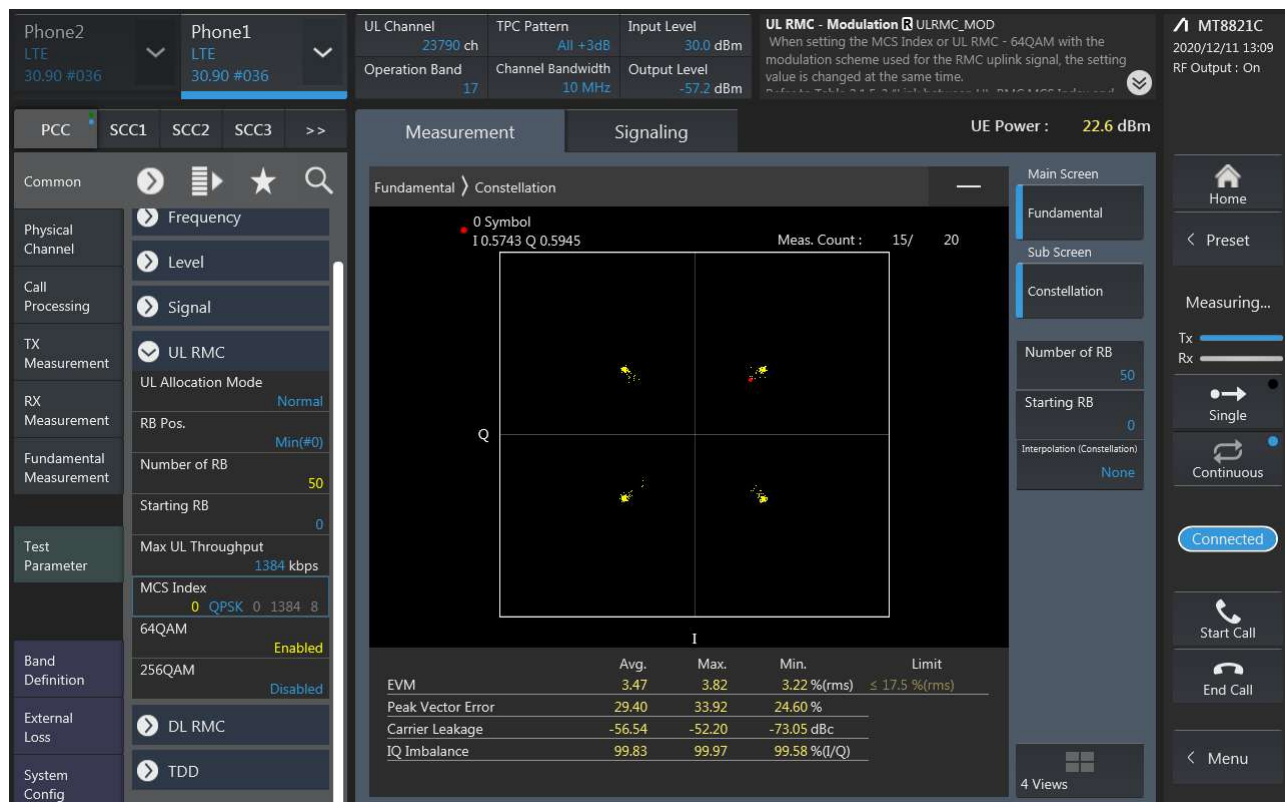




3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 10MHz

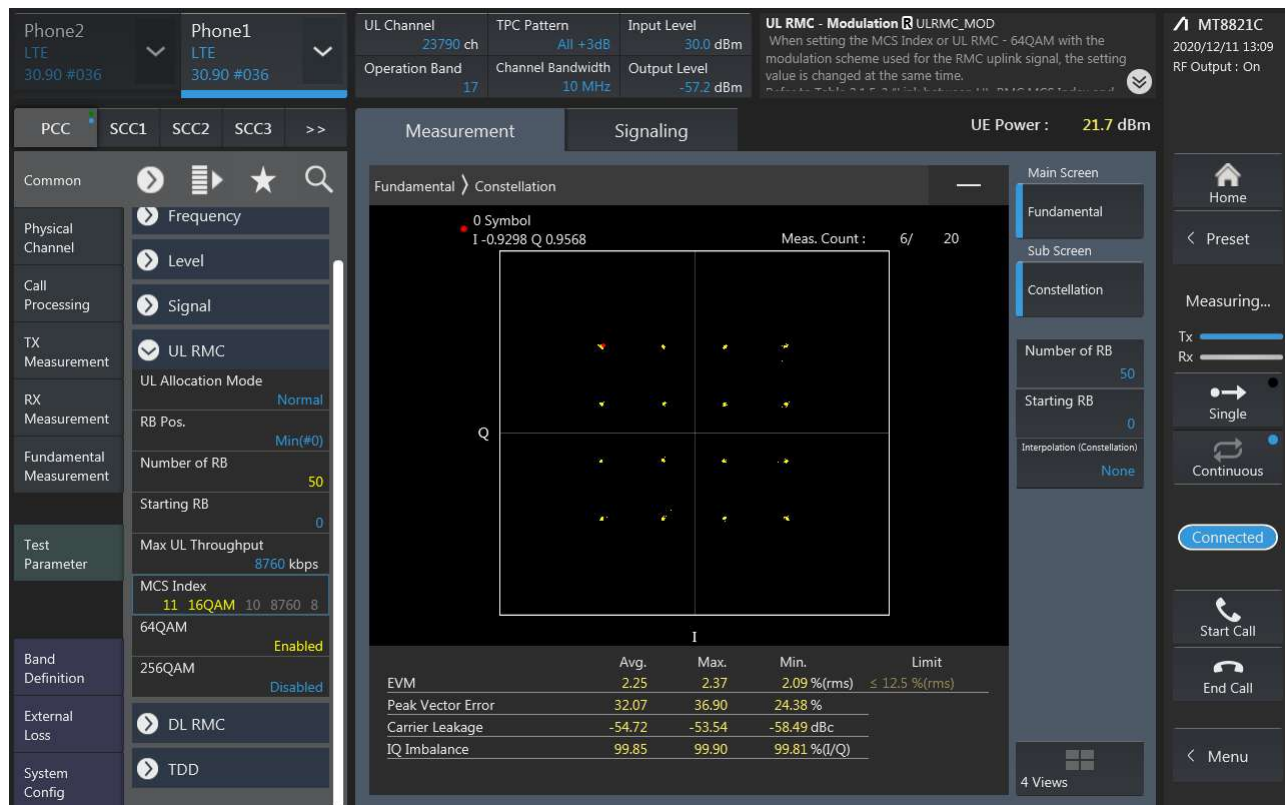
3.1.1 Test Channel = MCH





3.2 Test Mode = LTE /TM2 10MHz

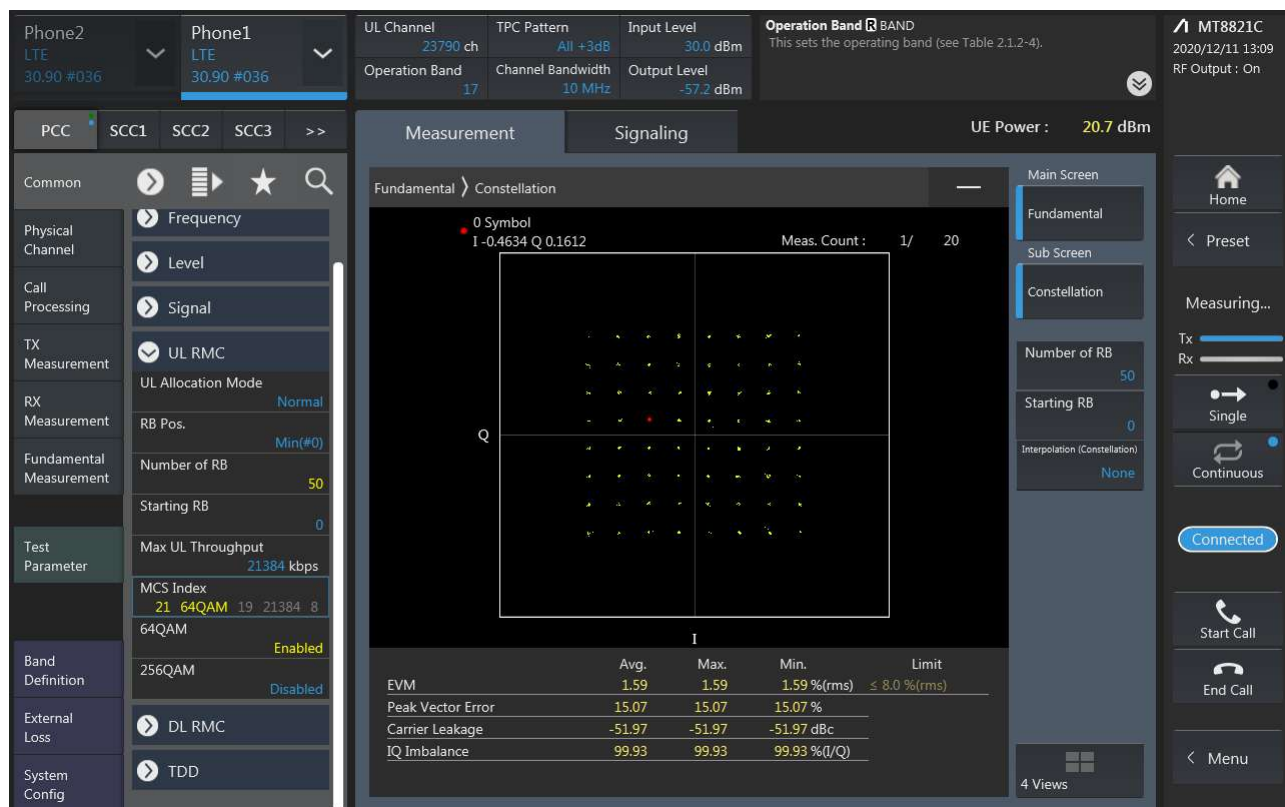
3.2.1 Test Channel = MCH





3.3 Test Mode = LTE /TM3 10MHz

3.3.1 Test Channel = MCH





4 26dB Bandwidth and Occupied Bandwidth

4.1 Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.476	4.930	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.476	4.960	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	4.920	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.496	4.940	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.496	4.980	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.486	4.940	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.970	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.486	4.960	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.476	4.920	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.918	9.800	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.918	9.767	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.918	9.800	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.918	9.800	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.918	9.833	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.918	9.833	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.952	9.767	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.952	9.767	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.918	9.733	PASS

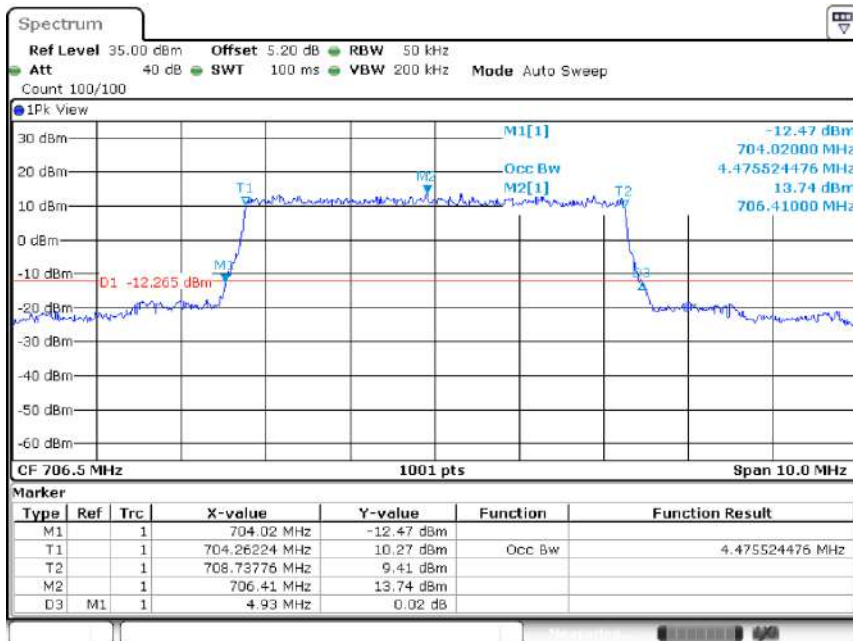


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

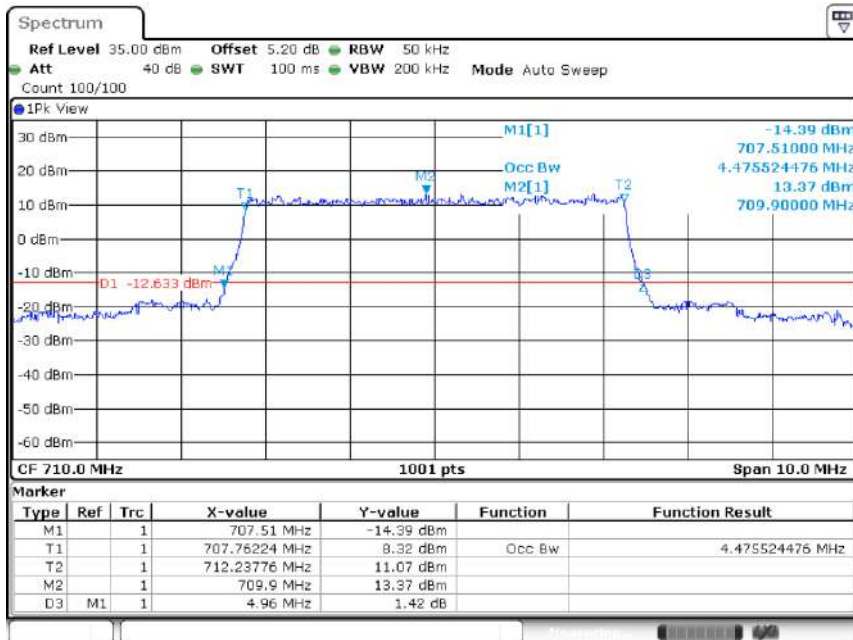
4.2 Test Plots

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



Date: 22.OCT.2020 23:48:45

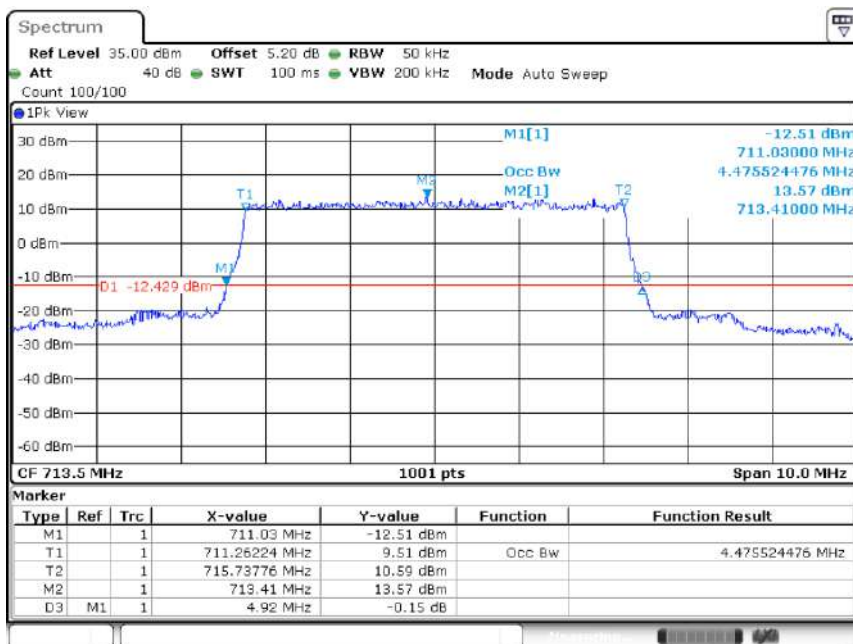
Band17-5MHz-QPSK-23790-25RB#0-4.476



Date: 22.OCT.2020 23:49:31

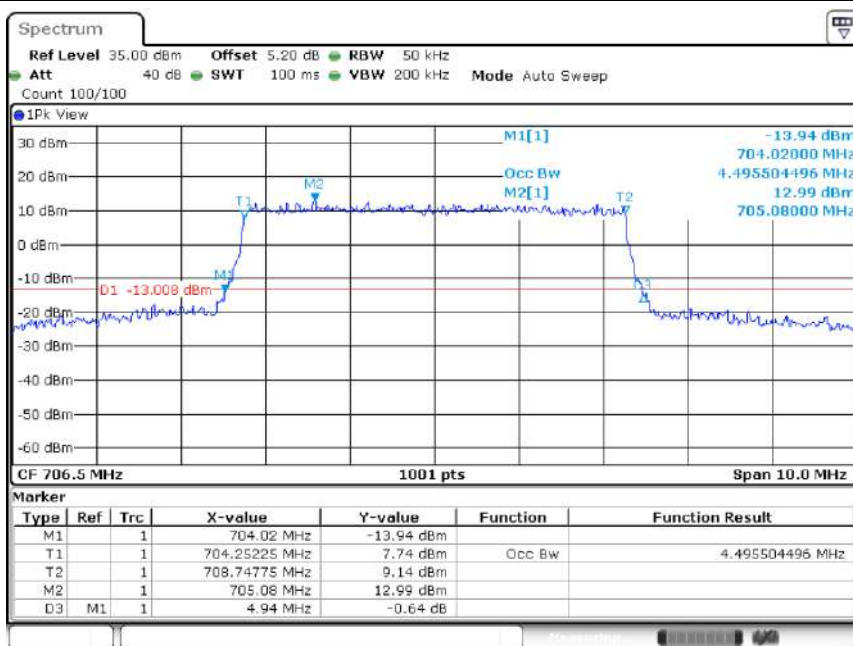


Band17-5MHz-QPSK-23825-25RB#0-4.476



Date: 22.OCT.2020 23:50:17

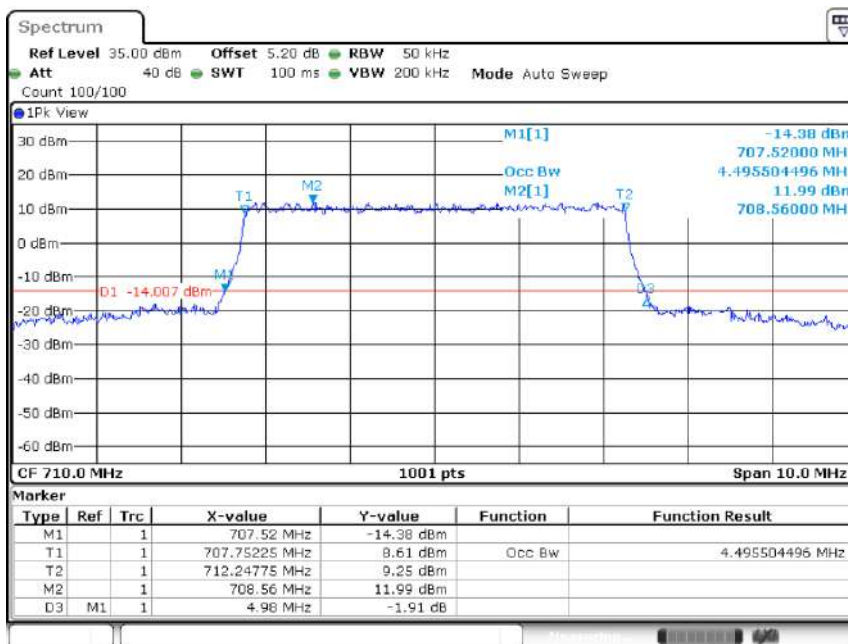
Band17-5MHz-16QAM-23755-25RB#0-4.496



Date: 22.OCT.2020 23:49:08

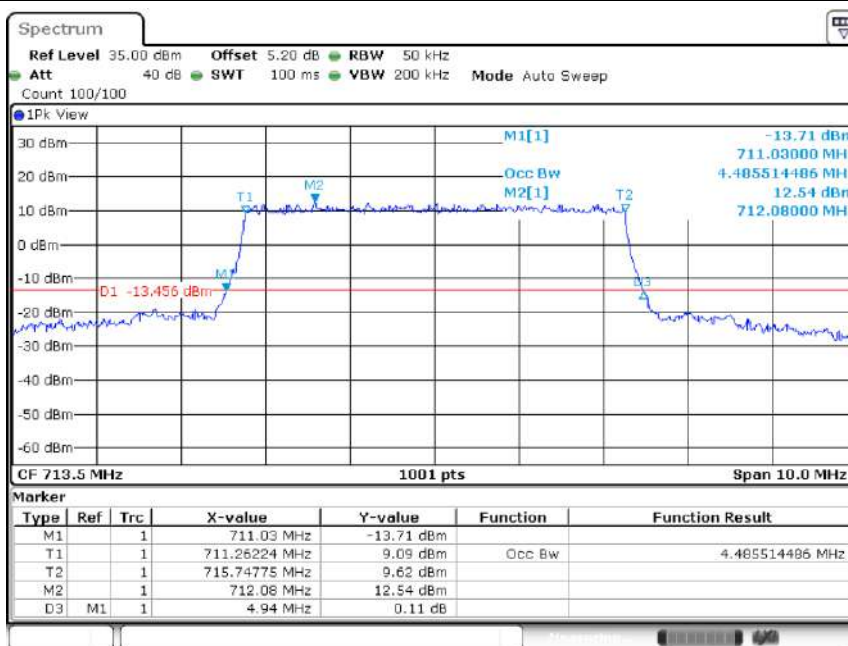


Band17-5MHz-16QAM-23790-25RB#0-4.496



Date: 22.OCT.2020 23:49:54

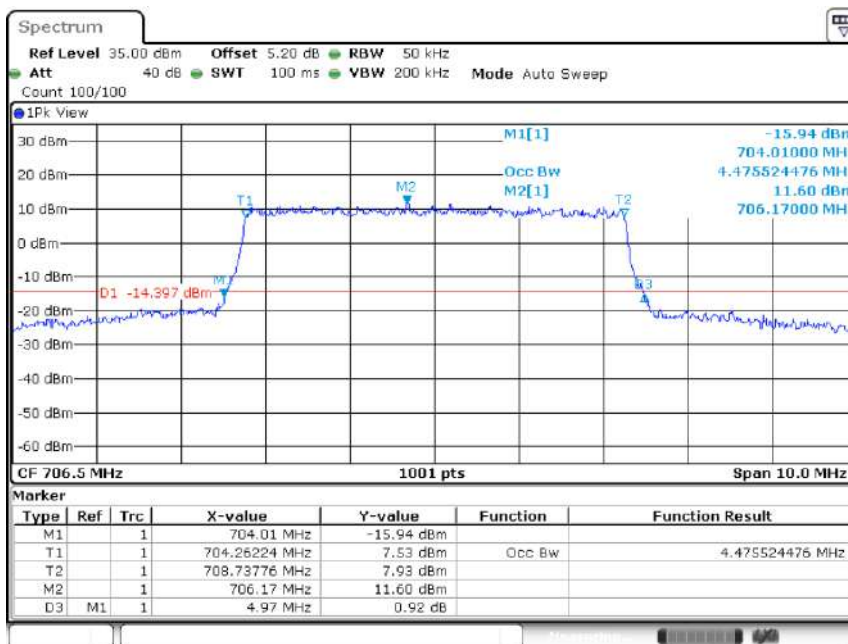
Band17-5MHz-16QAM-23825-25RB#0-4.486



Date: 22.OCT.2020 23:50:40

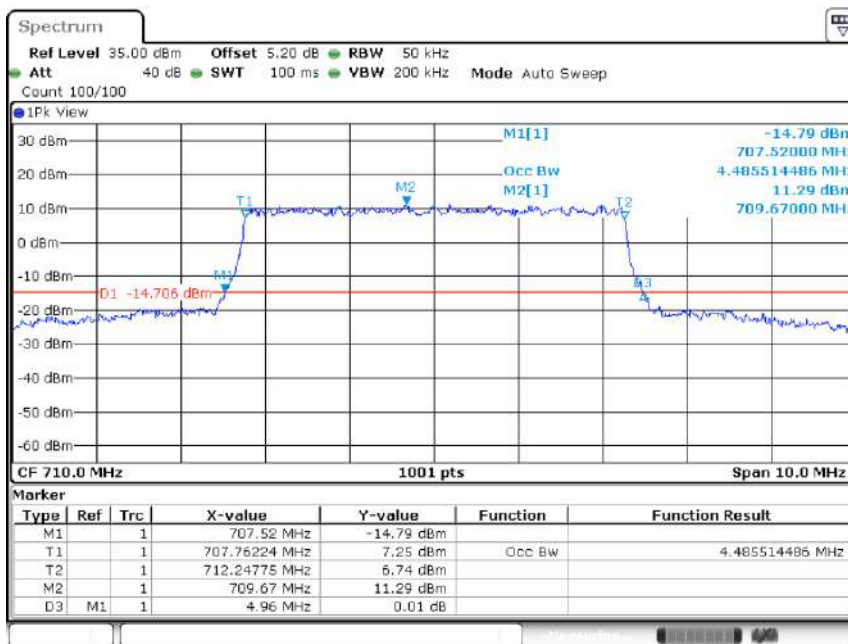


Band17-5MHz-64QAM-23755-25RB#0-4.476



Date: 23.OCT.2020 01:07:54

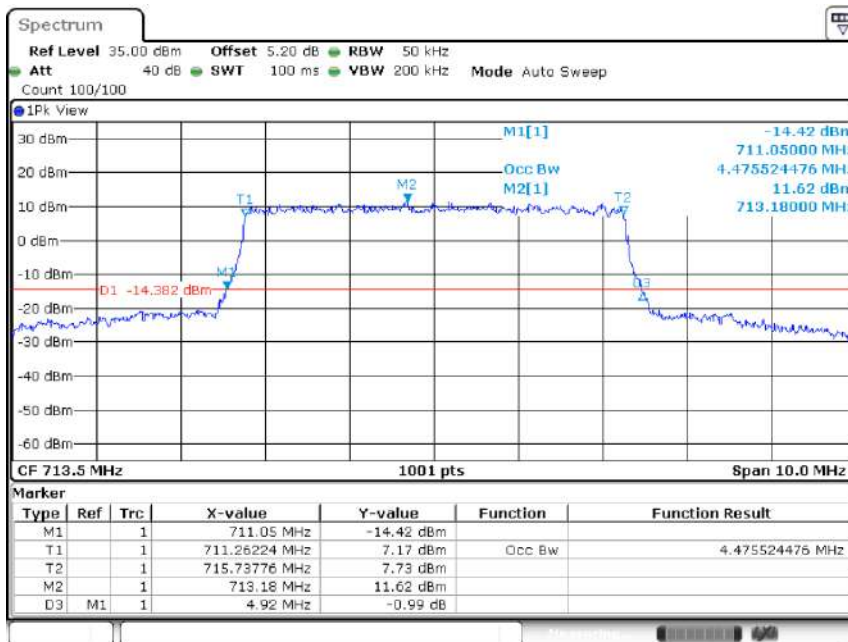
Band17-5MHz-64QAM-23790-25RB#0-4.486



Date: 23.OCT.2020 01:08:17

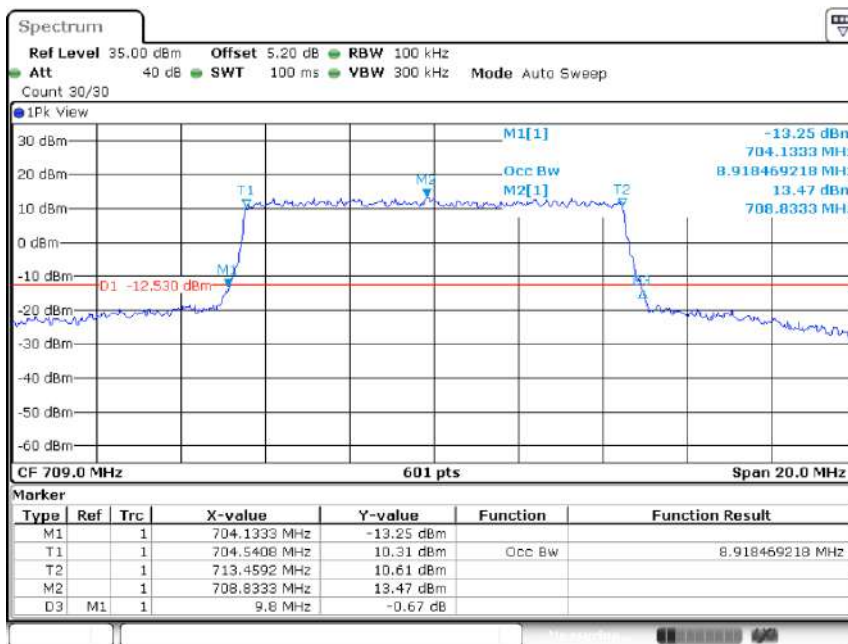


Band17-5MHz-64QAM-23825-25RB#0-4.476



Date: 23.OCT.2020 01:08:40

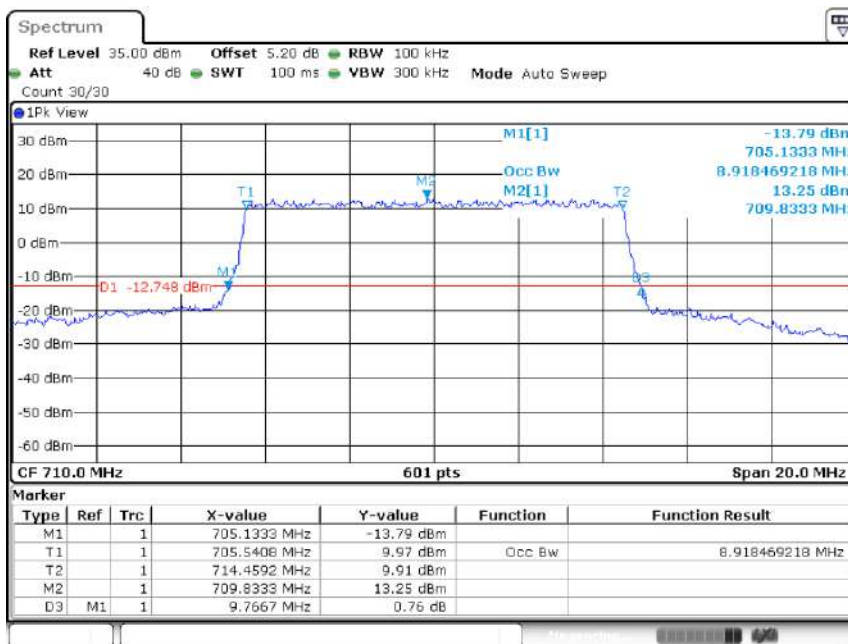
Band17-10MHz-QPSK-23780-50RB#0-8.918



Date: 22.OCT.2020 23:51:02

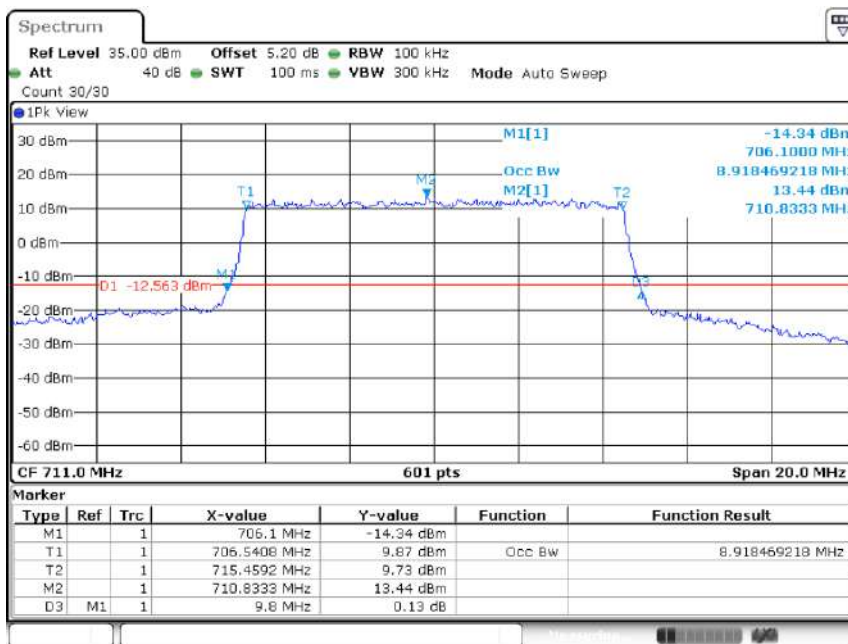


Band17-10MHz-QPSK-23790-50RB#0-8.918



Date: 22.OCT.2020 23:51:34

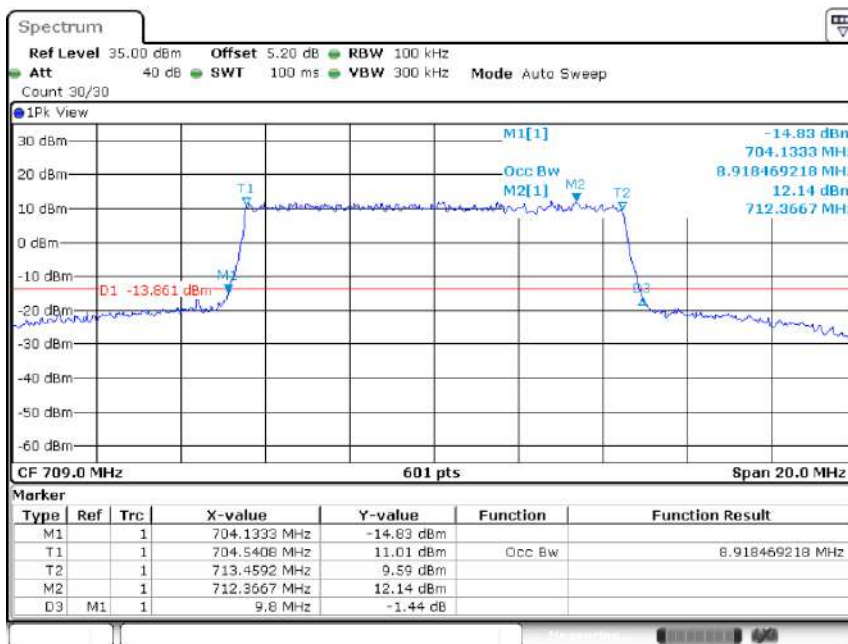
Band17-10MHz-QPSK-23800-50RB#0-8.918



Date: 22.OCT.2020 23:52:06

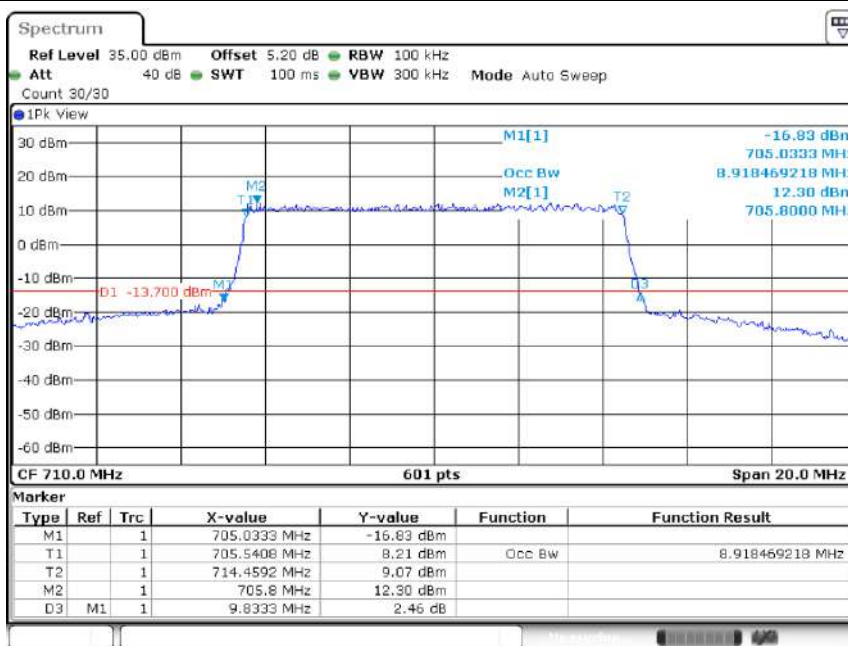


Band17-10MHz-16QAM-23780-50RB#0-8.918



Date: 22.OCT.2020 23:51:18

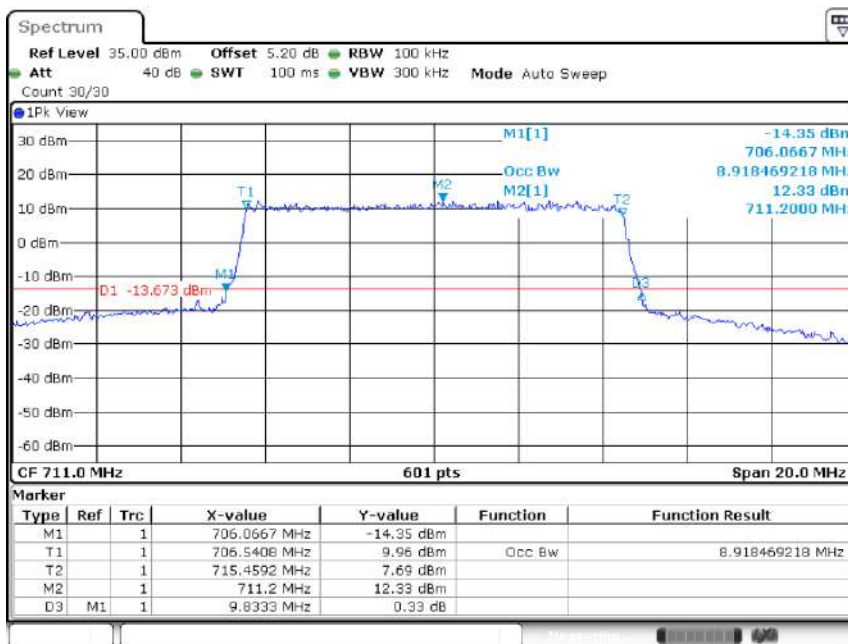
Band17-10MHz-16QAM-23790-50RB#0-8.918



Date: 22.OCT.2020 23:51:50

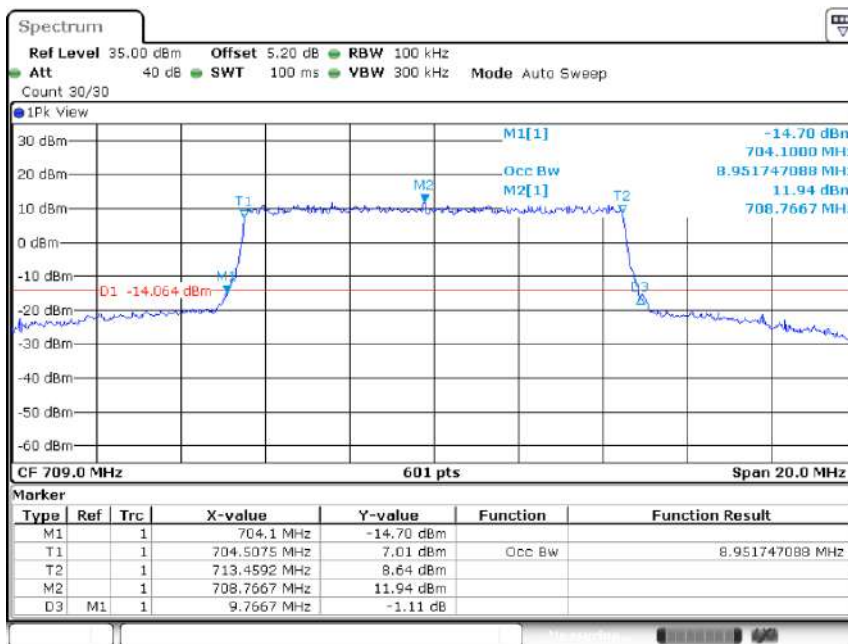


Band17-10MHz-16QAM-23800-50RB#0-8.918



Date: 22.OCT.2020 23:52:22

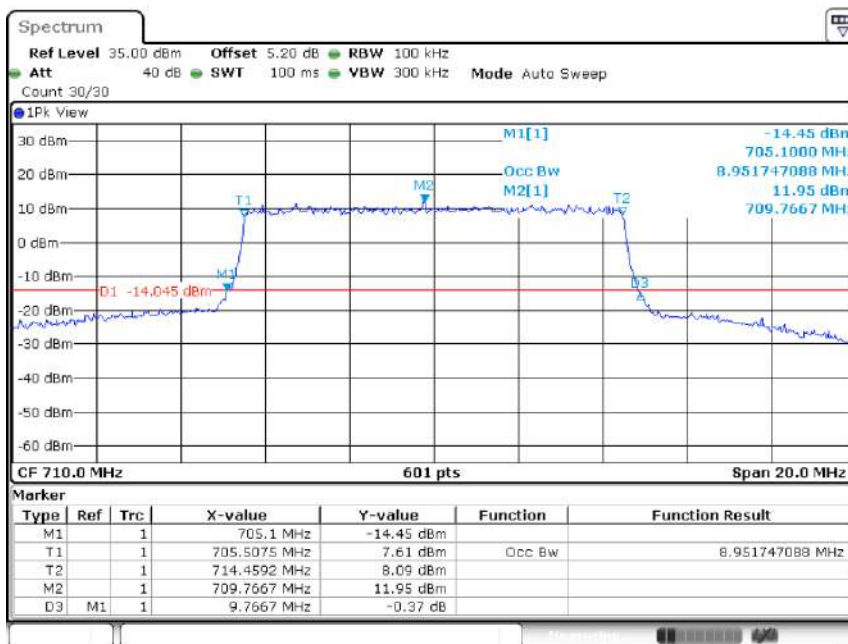
Band17-10MHz-64QAM-23780-50RB#0-8.952



Date: 23.OCT.2020 01:09:03

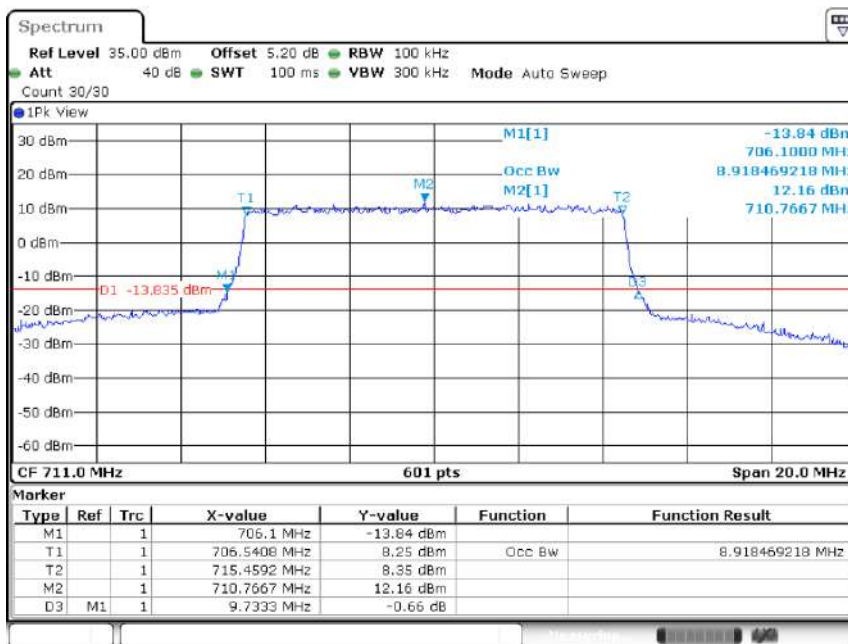


Band17-10MHz-64QAM-23790-50RB#0-8.952



Date: 23.OCT.2020 01:09:19

Band17-10MHz-64QAM-23800-50RB#0-8.918



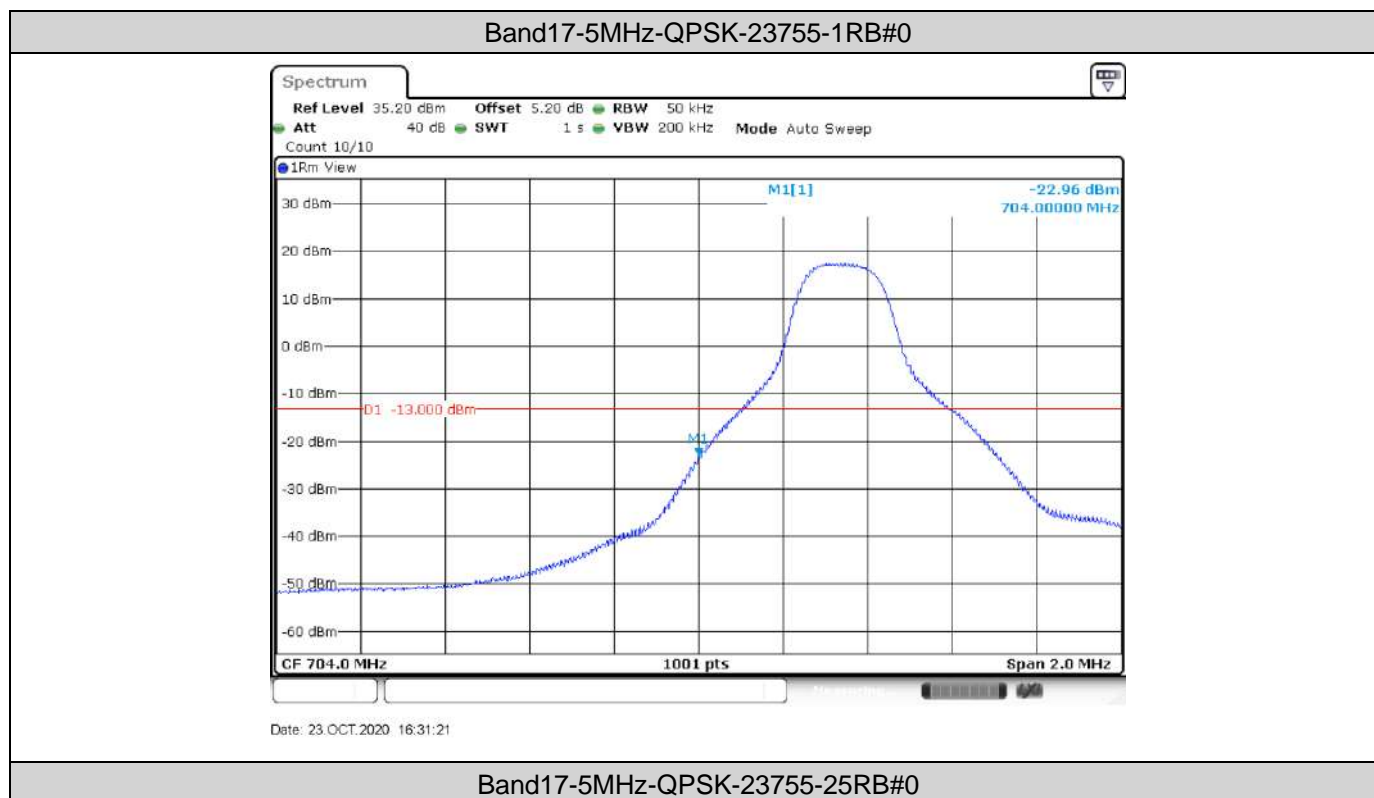
Date: 23.OCT.2020 01:09:36





5 Band Edge Compliance

5.1 Test Plots

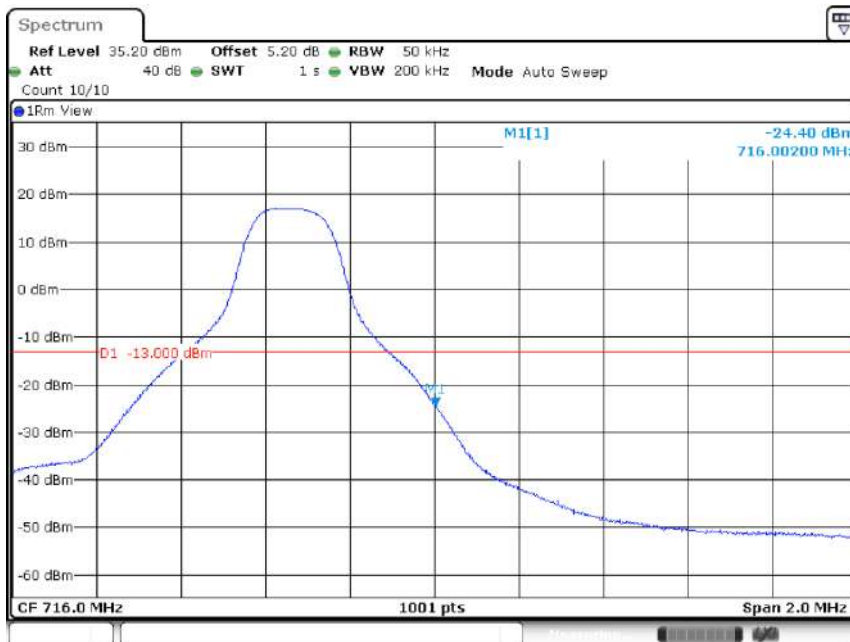




Date: 23.OCT.2020 16:32:02



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



Date: 23.OCT.2020 16:32:48

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



Date: 23.OCT.2020 16:33:29

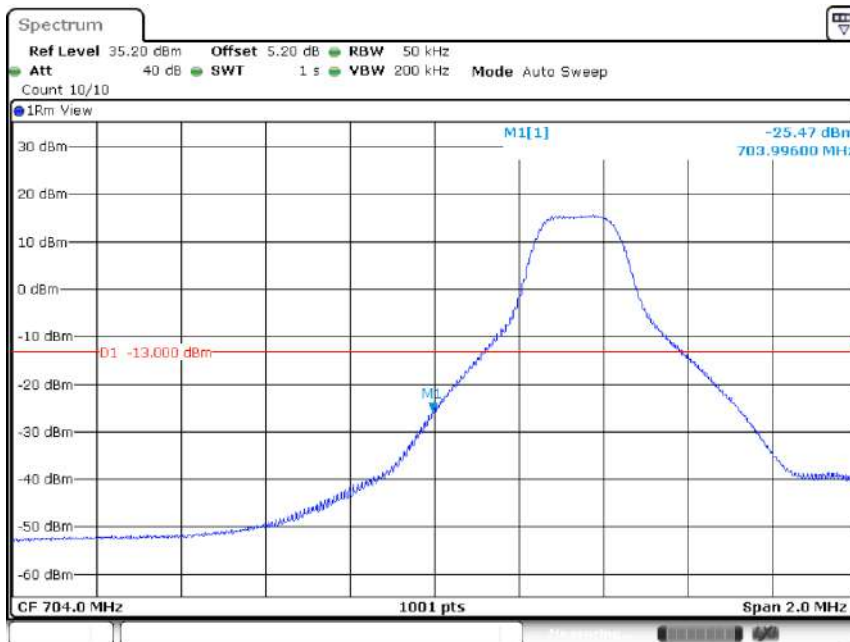


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMAA) Testing 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-64QAM-23755-1RB#0



Date: 23.OCT.2020 16:54:09

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

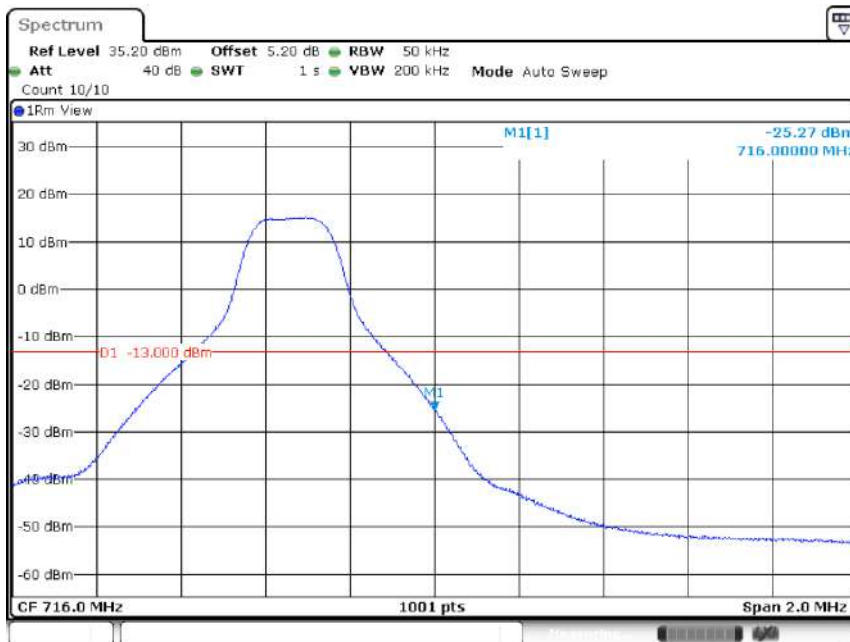


Date: 23.OCT.2020 16:54:29



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: C.N.Doccheck@sgs.com

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



Date: 23.OCT.2020 16:54:55

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



Date: 23.OCT.2020 16:55:16



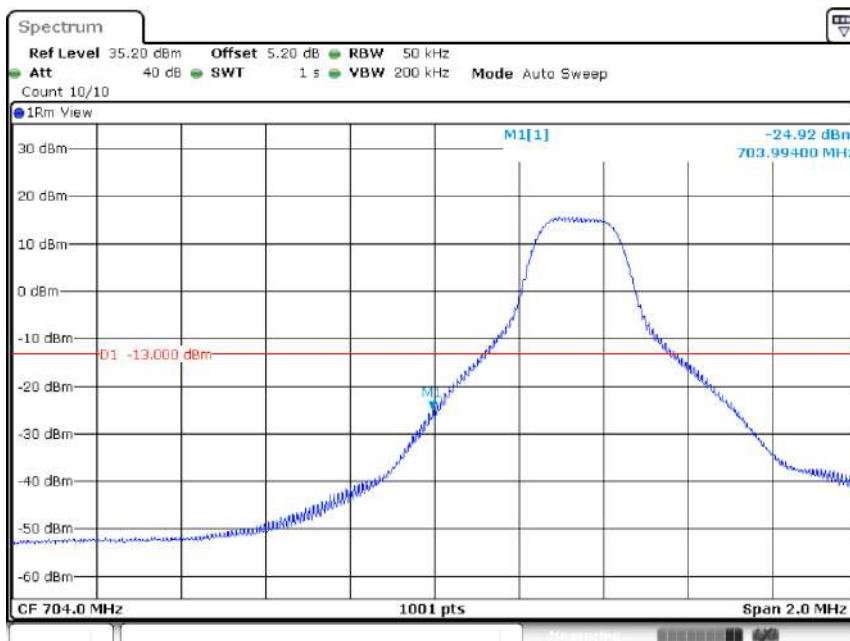
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

Member of the SGS Group (SGS SA)

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



Date: 23.OCT.2020 16:31:41

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



Date: 23.OCT.2020 16:32:23

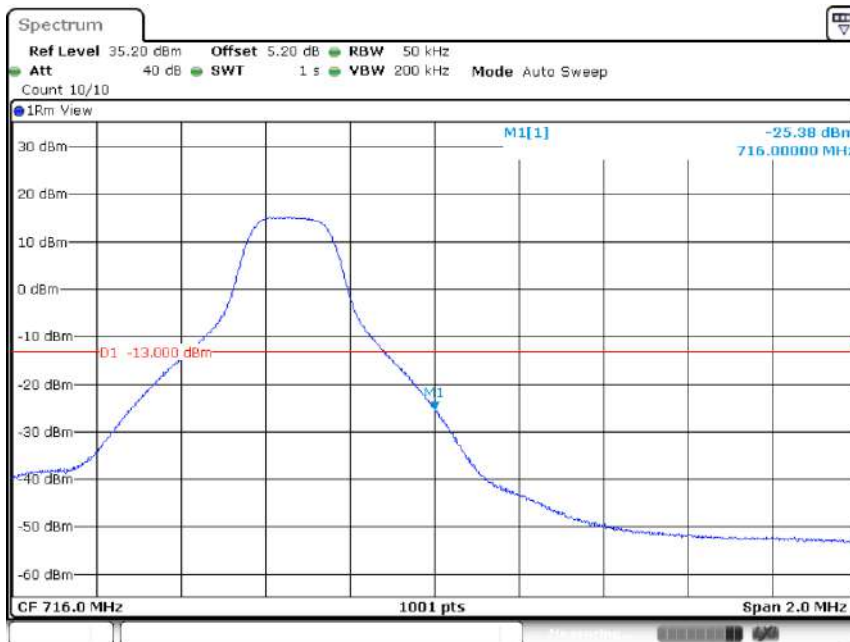


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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-23825-1RB#24



Date: 23.OCT.2020 16:33:09

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



Date: 23.OCT.2020 16:33:50



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

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

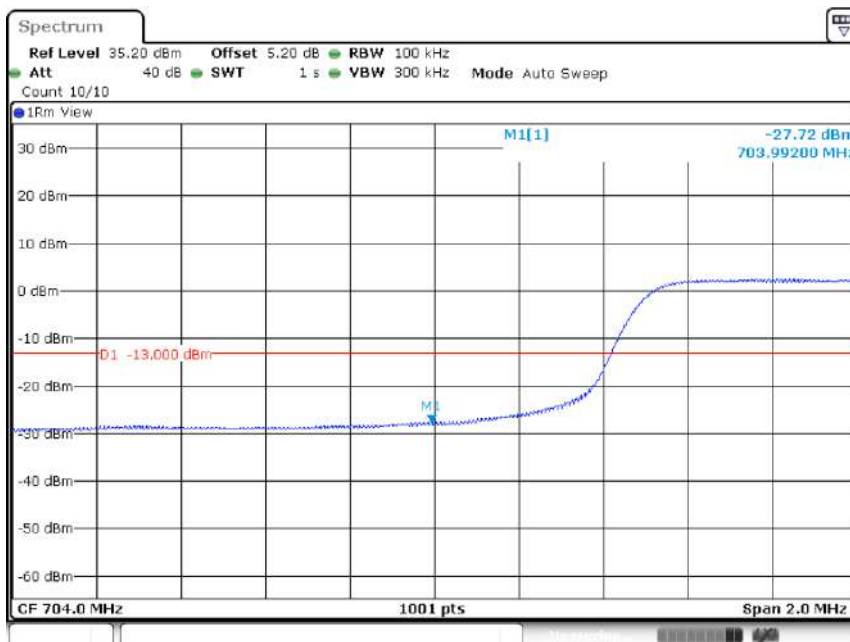
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 23.OCT.2020 16:34:16

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



Date: 23.OCT.2020 16:34:58



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-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: C.N.Doccheck@sgs.com

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

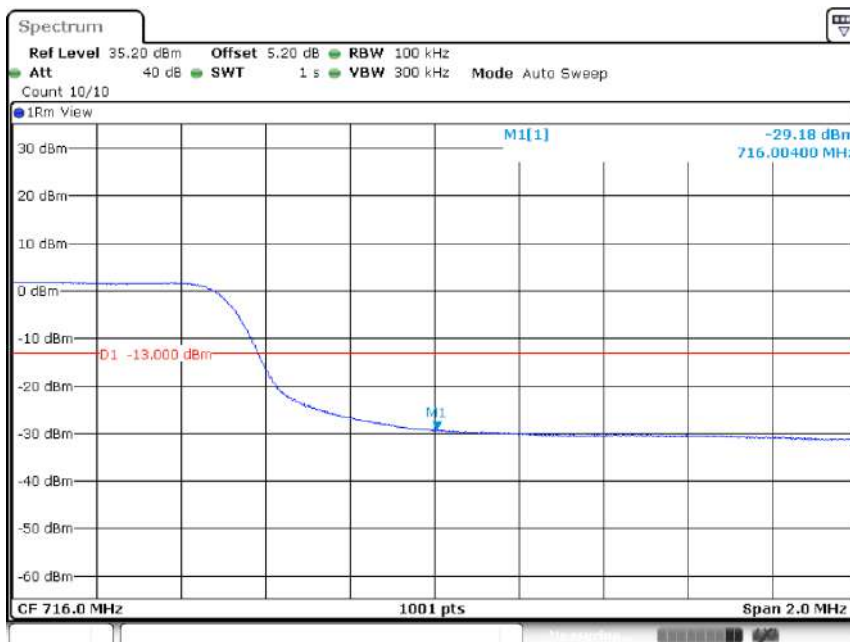
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 23.OCT.2020 16:35:45

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



Date: 23.OCT.2020 16:36:27



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

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

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

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



Date: 23.OCT.2020 16:55:52

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



Date: 23.OCT.2020 16:56:13



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

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

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



Date: 23.OCT.2020 16:56:39

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



Date: 23.OCT.2020 16:56:59



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.

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

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

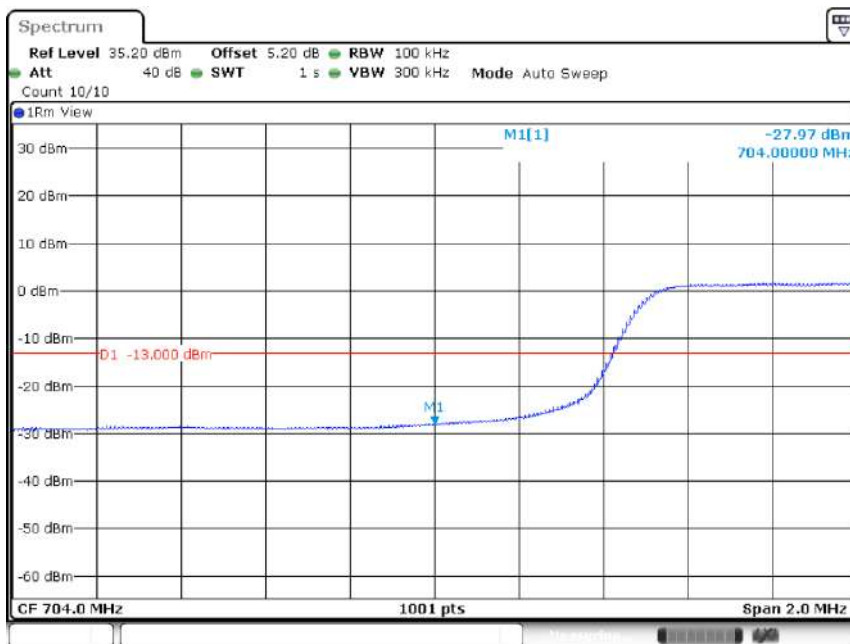
Member of the SGS Group (SGS SA)

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



Date: 23.OCT.2020 16:34:37

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



Date: 23.OCT.2020 16:35:18



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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMA, CNAS) 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-16QAM-23800-1RB#49



Date: 23.OCT.2020 16:36:06

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



Date: 23.OCT.2020 16:36:47



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

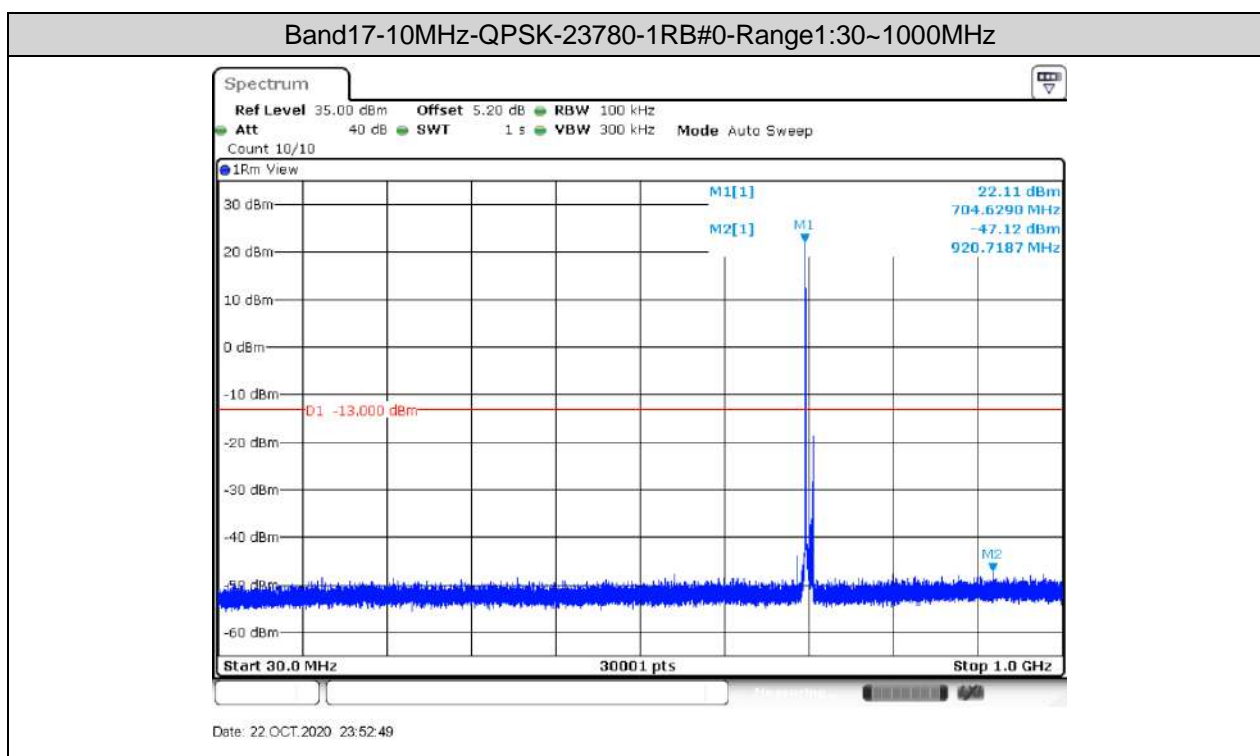
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: C.N.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn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

6 Spurious Emission at Antenna Terminal

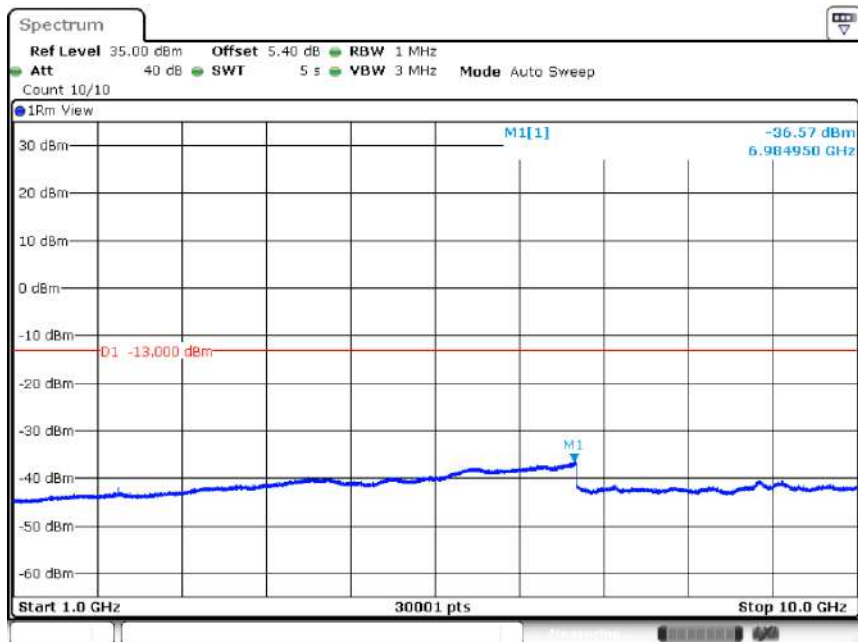
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

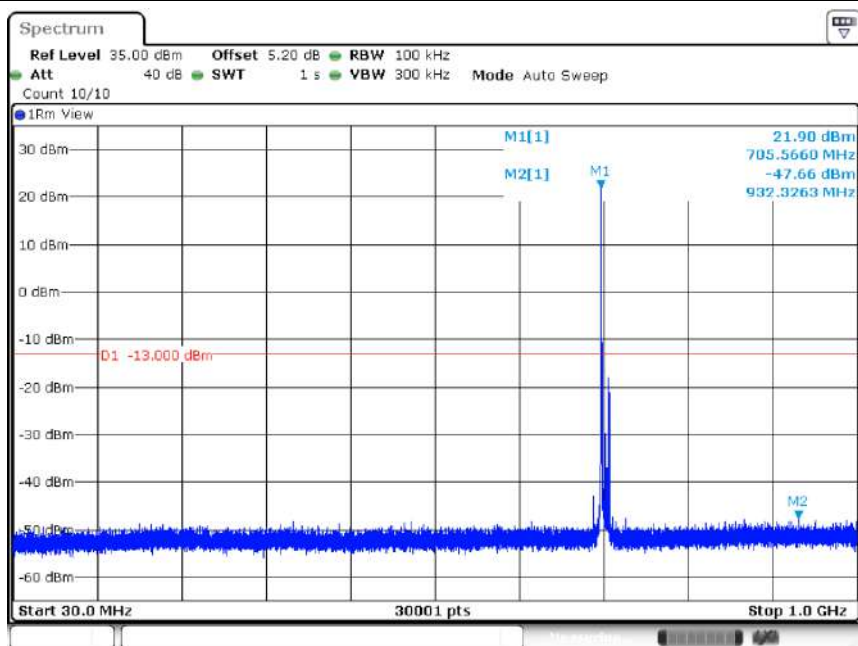


Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 23:53:58

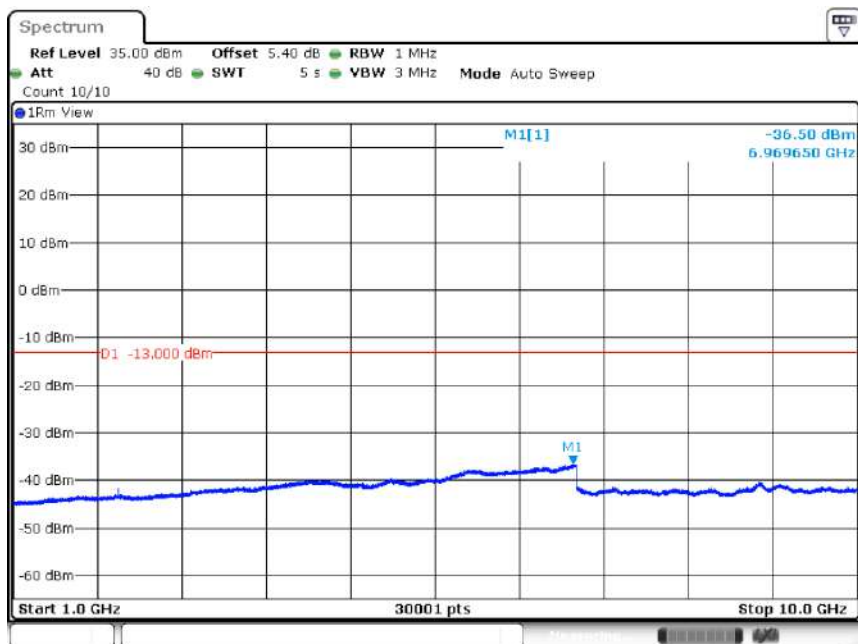
Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 23:55:52

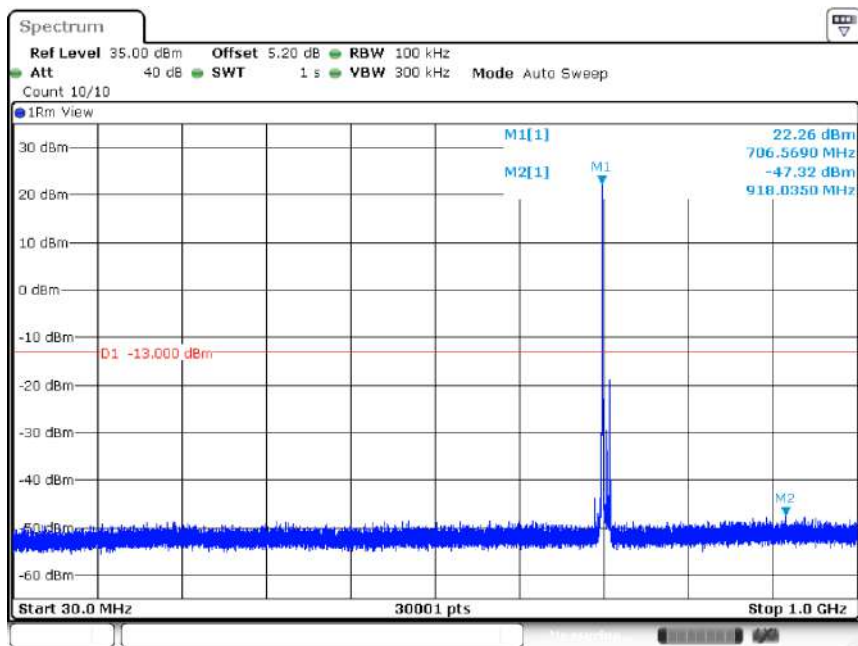


Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 23:57:00

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



Date: 22.OCT.2020 23:58:55

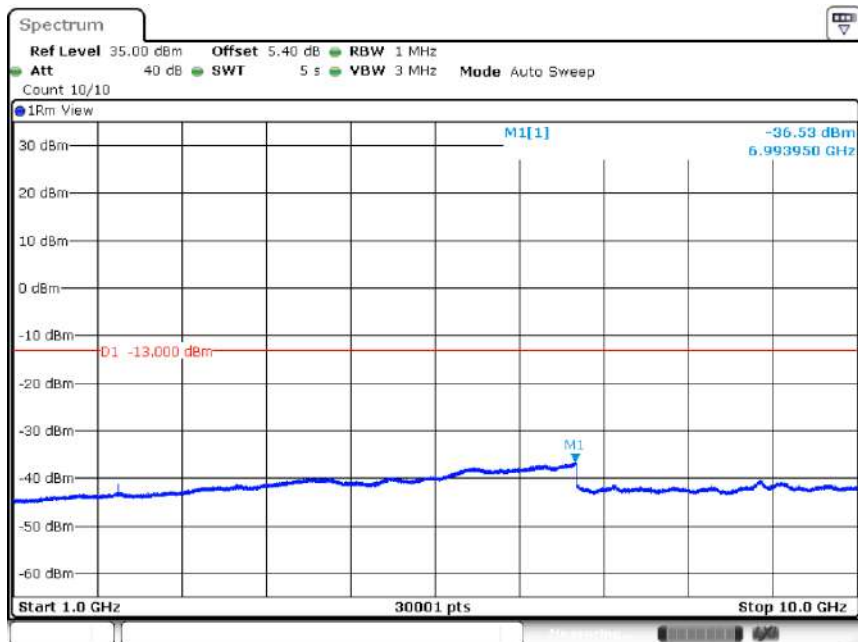
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

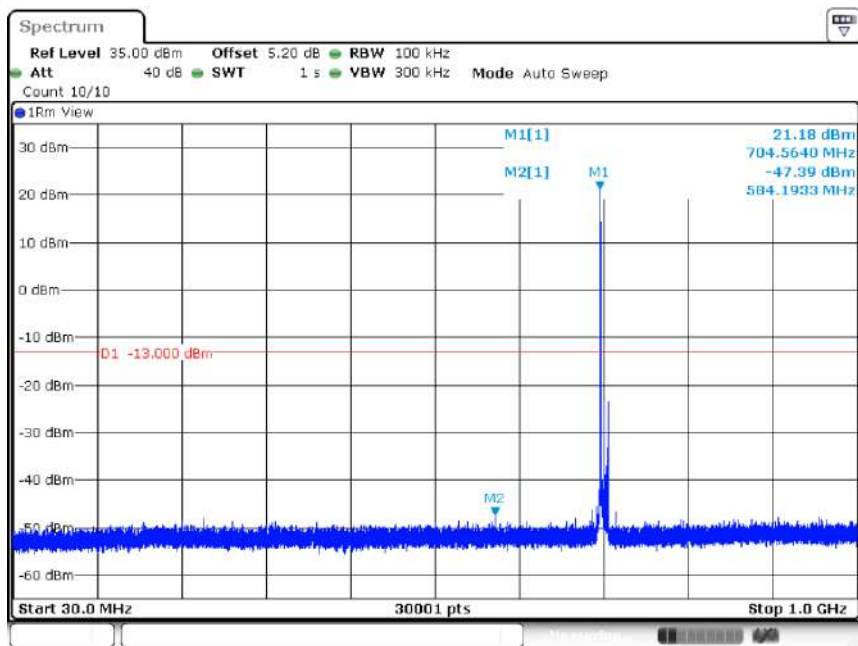
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 23.OCT.2020 00:00:03

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



Date: 22.OCT.2020 23:54:21

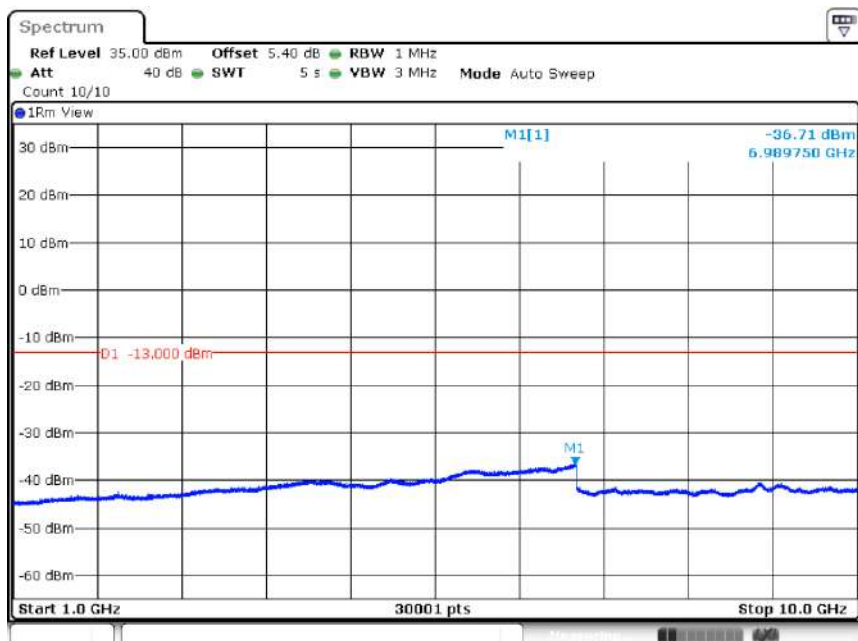


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

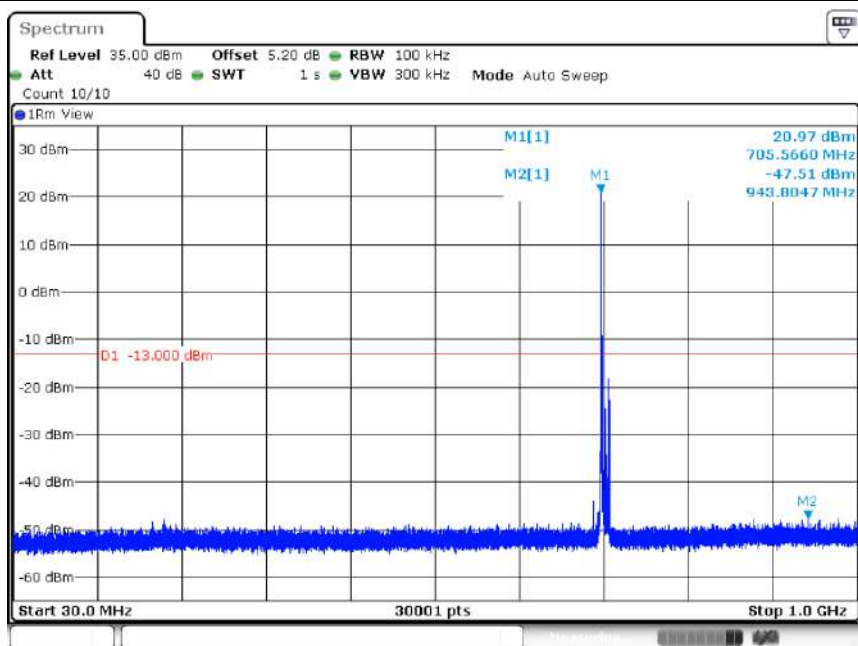
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22.OCT.2020 23:55:29

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



Date: 22.OCT.2020 23:57:23



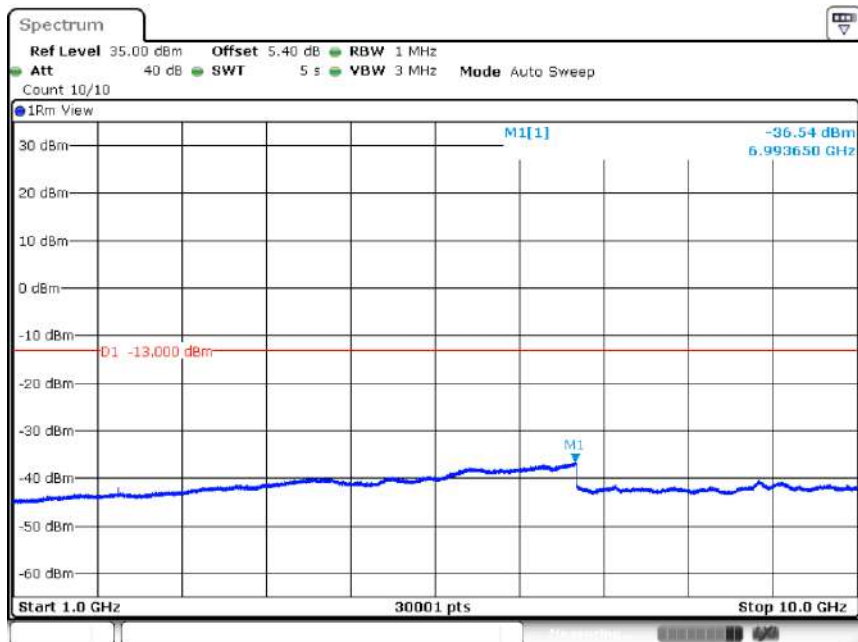
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

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

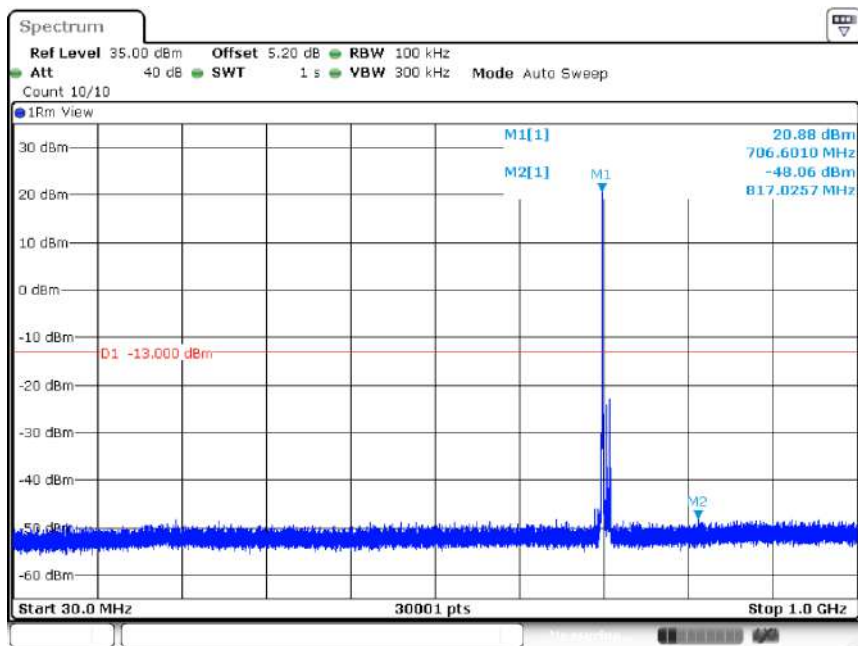
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22.OCT.2020 23:58:31

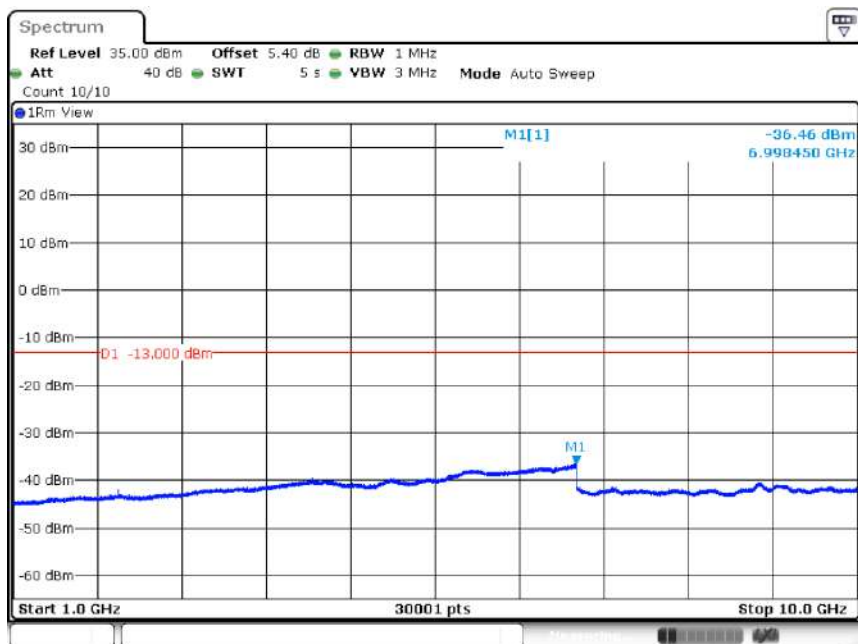
Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



Date: 23.OCT.2020 00:00:26

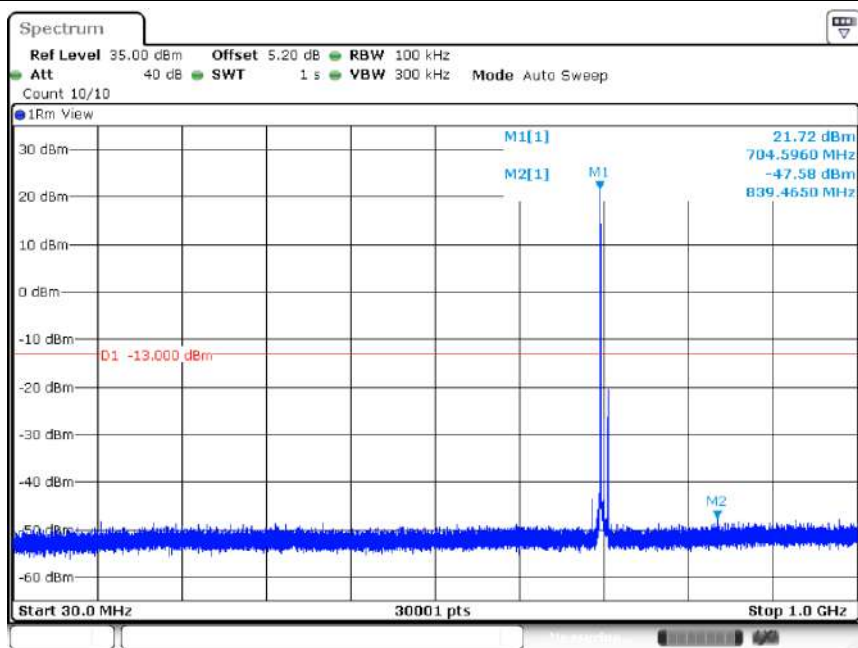


Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~10000MHz



Date: 23.OCT.2020 00:01:34

Band17-10MHz-64QAM-23780-1RB#0-Range1:30~1000MHz



Date: 23.OCT.2020 01:10:04



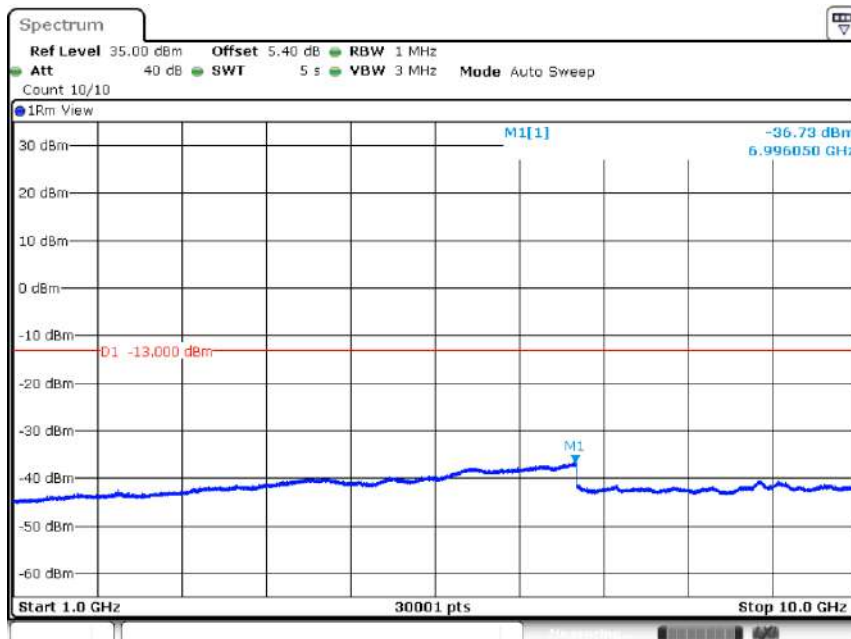
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

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

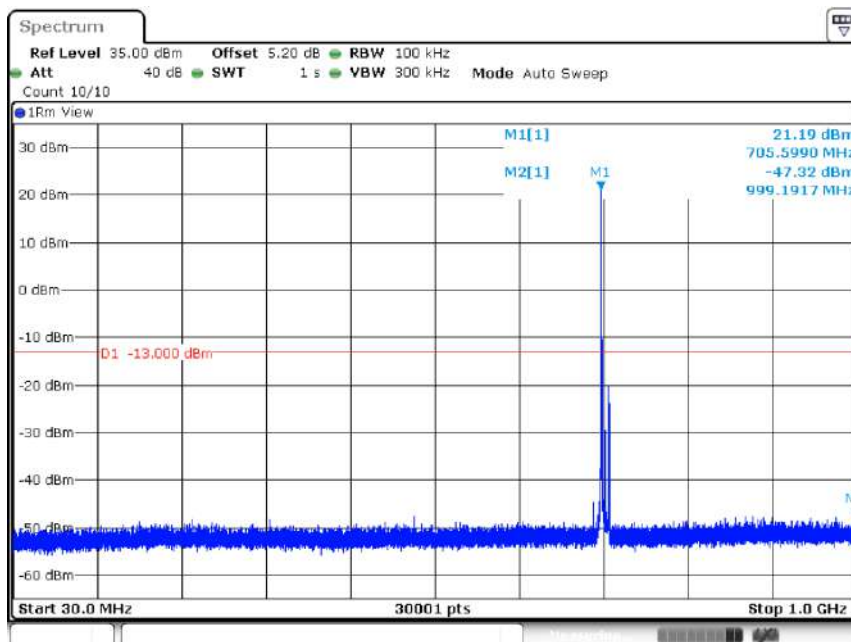
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band17-10MHz-64QAM-23780-1RB#0-Range2:1000~10000MHz



Date: 23.OCT.2020 01:11:12

Band17-10MHz-64QAM-23790-1RB#0-Range1:30~1000MHz



Date: 23.OCT.2020 01:11:35

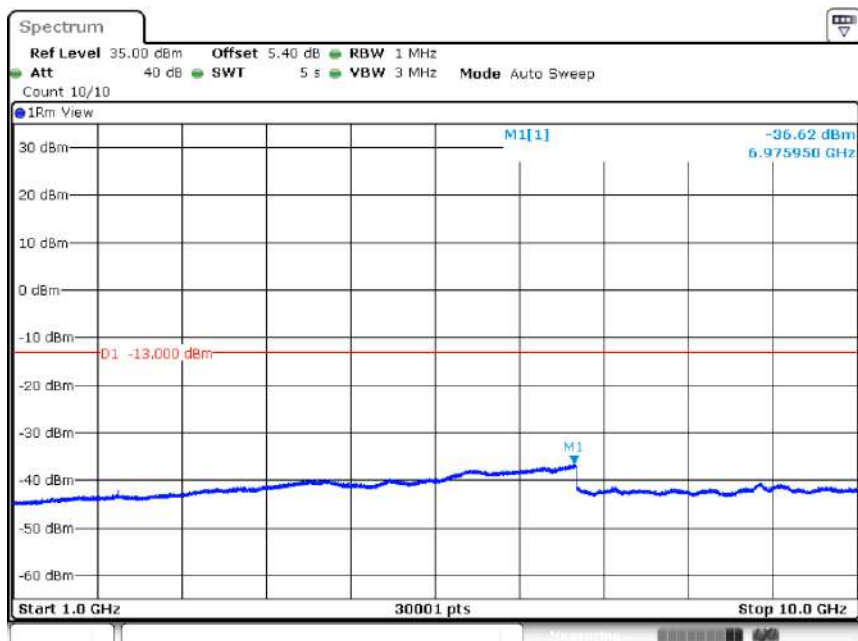


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

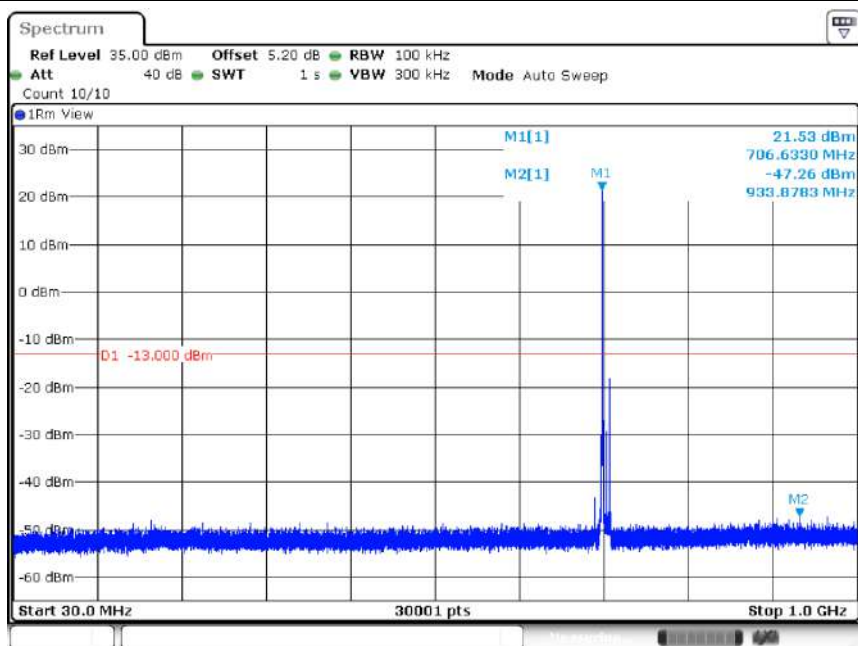
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band17-10MHz-64QAM-23790-1RB#0-Range2:1000~10000MHz



Date: 23.OCT.2020 01:12:44

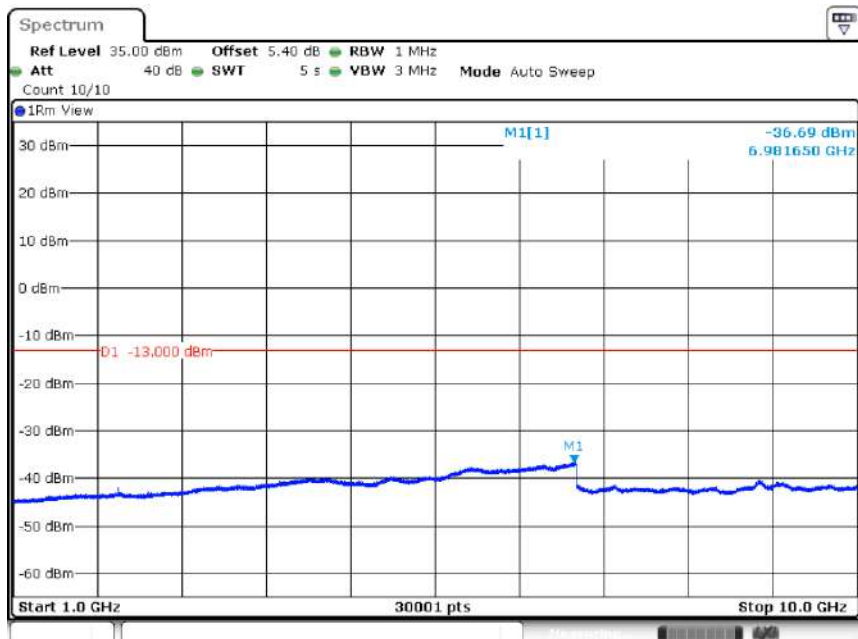
Band17-10MHz-64QAM-23800-1RB#0-Range1:30~1000MHz



Date: 23.OCT.2020 01:13:07



Band17-10MHz-64QAM-23800-1RB#0-Range2:1000~10000MHz



Date: 23.OCT.2020 01:14:15



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

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

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

7 Field Strength of Spurious Radiation

7.1 Test Band = LTE_17_TM1

7.1.1 Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.3496	-70.60	-63.77	-13.00	50.77	174	20	Horizontal
2	230.7515	-70.45	-67.62	-13.00	54.62	185	56	Horizontal
3	2113.8228	-55.85	-47.97	-13.00	34.97	199	172	Horizontal
4	2697.5395	-68.42	-55.56	-13.00	42.56	321	73	Horizontal
5	7448.8180	-56.60	-56.63	-13.00	43.63	215	163	Horizontal
6	9294.0918	-58.91	-53.06	-13.00	40.06	151	110	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



7.2 Test Band = LTE_17_TM1

7.2.1 Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	79.9575	-67.04	-64.92	-13.00	51.92	185	304	Vertical
2	109.1560	-71.26	-65.05	-13.00	52.05	199	92	Vertical
3	399.9765	-69.87	-66.75	-13.00	53.75	321	12	Vertical
4	2113.8228	-59.68	-51.78	-13.00	38.78	251	220	Vertical
5	3675.9470	-52.36	-61.66	-13.00	48.66	184	12	Vertical
6	9324.0530	-58.88	-53.01	-13.00	40.01	164	251	Vertical



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (2020) Internal 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



7.3 Test Band = LTE_17_TM1

7.3.1 Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.7190	-70.52	-63.72	-13.00	50.72	174	60	Horizontal
2	244.8657	-70.42	-67.74	-13.00	54.74	185	8	Horizontal
3	582.2001	-71.35	-64.15	-13.00	51.15	196	304	Horizontal
4	1410.8822	-65.21	-62.93	-13.00	49.93	231	238	Horizontal
5	2116.6233	-56.88	-48.97	-13.00	35.97	262	172	Horizontal
6	9312.0125	-58.90	-53.07	-13.00	40.07	161	330	Horizontal



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

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



7.4 Test Band = LTE_17_TM1

7.4.1 Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	80.5880	-66.65	-64.91	-13.00	51.91	196	356	Vertical
2	112.4056	-70.48	-64.28	-13.00	51.28	185	40	Vertical
3	587.0504	-71.60	-64.60	-13.00	51.60	174	304	Vertical
4	2116.6233	-60.44	-52.50	-13.00	39.50	321	227	Vertical
5	7413.8166	-56.95	-56.46	-13.00	43.46	251	13	Vertical
6	9567.3827	-58.18	-52.89	-13.00	39.89	257	66	Vertical





7.5 Test Band = LTE_17_TM1

7.5.1 Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.2526	-69.84	-63.01	-13.00	50.01	174	89	Horizontal
2	244.7687	-70.81	-68.12	-13.00	55.12	185	300	Horizontal
3	1413.2827	-65.35	-63.03	-13.00	50.03	158	304	Horizontal
4	2119.8240	-56.86	-48.92	-13.00	35.92	258	177	Horizontal
5	7220.0488	-57.63	-57.95	-13.00	44.95	225	273	Horizontal
6	9557.0223	-57.89	-52.92	-13.00	39.92	204	142	Horizontal





7.6 Test Band = LTE_17_TM1

7.6.1 Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	79.8120	-67.38	-65.30	-13.00	52.30	258	250	Vertical
2	111.6296	-70.68	-64.41	-13.00	51.41	296	31	Vertical
3	431.4546	-70.57	-67.12	-13.00	54.12	254	5	Vertical
4	1412.8826	-64.83	-62.07	-13.00	49.07	158	131	Vertical
5	2119.8240	-60.46	-52.48	-13.00	39.48	196	220	Vertical
6	9275.8910	-58.57	-52.89	-13.00	39.89	174	60	Vertical

Remark:

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



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

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



8 Frequency Stability

8.1 Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-2.00	-0.002821	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-1.00	-0.001408	±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	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-1.00	-0.001406	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-3.30	-0.004641	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	0.50	0.000704	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-1.10	-0.001547	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-1.20	-0.001688	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-1.50	-0.002116	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	0.30	0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	-1.50	-0.002116	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	0.40	0.000563	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-1.50	-0.002113	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	-2.30	-0.003235	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	-1.80	-0.002532	±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 and certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
中国·深圳·科技园中区M-10栋一号厂房

t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



8.2 Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	-0.70	-0.000987	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-0.90	-0.001269	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	0.40	0.000564	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-1.00	-0.001410	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	0.50	0.000704	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.20	0.000282	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	0.30	0.000423	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.60	-0.000845	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	0.50	0.000704	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.70	-0.000986	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-0.70	-0.000986	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-2.50	-0.003516	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-3.10	-0.004360	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	-2.10	-0.002954	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-0.60	-0.000844	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-2.20	-0.003094	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-1.00	-0.001406	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-1.20	-0.001688	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-1.50	-0.002110	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-1.00	-0.001410	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-0.40	-0.000564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-1.80	-0.002539	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-1.50	-0.002116	±2.5	PASS



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

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

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

Band17	10MHz	16QAM	23780	50RB#0	NV	30	-2.40	-0.003385	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-0.90	-0.001269	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	0.10	0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-0.90	-0.001268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	-0.80	-0.001127	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	0.20	0.000282	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	0.10	0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-0.90	-0.001268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	0.80	0.001127	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-1.70	-0.002391	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-1.70	-0.002391	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-2.70	-0.003797	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-1.30	-0.001828	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-2.10	-0.002954	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-1.70	-0.002391	±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	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-10	-1.50	-0.002116	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	0.20	0.000282	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	0.30	0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	-1.30	-0.001834	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-1.80	-0.002539	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	-1.70	-0.002398	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	0.30	0.000423	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-0.70	-0.000986	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-10	0.70	0.000986	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	0.10	0.000141	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	-0.80	-0.001127	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	-1.70	-0.002394	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	-0.50	-0.000704	±2.5	PASS



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

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

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
中国·深圳·科技园中区M-10栋一号厂房

t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band17	10MHz	64QAM	23790	50RB#0	NV	40	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-1.30	-0.001828	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-10	-2.20	-0.003094	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-2.70	-0.003797	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	-2.20	-0.003094	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-2.00	-0.002813	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-1.50	-0.002110	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-3.10	-0.004360	±2.5	PASS

The End



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

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

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

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