

Appendix B

E-UTRA Band 17





CONTENT

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



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



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



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



1 Effective (Isotropic) Radiated Power

1.1. Test Result

ANT1:

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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#0 | 21.85 | 17.00 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 12RB#6 | 21.77 | 16.92 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 12RB#13 | 21.90 | 17.05 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 25RB#0 | 21.80 | 16.95 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 1RB#0 | 23.27 | 18.42 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 1RB#12 | 23.23 | 18.38 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 1RB#24 | 23.13 | 18.28 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 12RB#0 | 21.79 | 16.94 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 12RB#6 | 21.88 | 17.03 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 12RB#13 | 21.81 | 16.96 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23825 | 25RB#0 | 21.87 | 17.02 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23755 | 1RB#0 | 21.88 | 17.03 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23755 | 1RB#12 | 21.99 | 17.14 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23755 | 1RB#24 | 21.85 | 17.00 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23755 | 12RB#0 | 20.91 | 16.06 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23755 | 12RB#6 | 20.74 | 15.89 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23755 | 12RB#13 | 20.92 | 16.07 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23755 | 25RB#0 | 20.90 | 16.05 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23790 | 1RB#0 | 21.84 | 16.99 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23790 | 1RB#12 | 21.94 | 17.09 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23790 | 1RB#24 | 21.99 | 17.14 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23790 | 12RB#0 | 20.75 | 15.90 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23790 | 12RB#6 | 20.82 | 15.97 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23790 | 12RB#13 | 20.86 | 16.01 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23790 | 25RB#0 | 20.99 | 16.14 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23825 | 1RB#0 | 21.77 | 16.92 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23825 | 1RB#12 | 21.76 | 16.91 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23825 | 1RB#24 | 21.91 | 17.06 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23825 | 12RB#0 | 20.94 | 16.09 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23825 | 12RB#6 | 20.85 | 16.00 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23825 | 12RB#13 | 20.87 | 16.02 | 34.77 | PASS |
| Band17 | 5MHz | 64QAM | 23825 | 25RB#0 | 20.77 | 15.92 | 34.77 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 1RB#0 | 23.75 | 18.90 | 34.77 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 1RB#24 | 23.65 | 18.80 | 34.77 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 1RB#49 | 23.54 | 18.69 | 34.77 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 25RB#0 | 22.84 | 17.99 | 34.77 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 25RB#12 | 22.94 | 18.09 | 34.77 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 25RB#25 | 22.90 | 18.05 | 34.77 | PASS |



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

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

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

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



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

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

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

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

| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band17 | 10MHz | 64QAM | 23780 | 1RB#49 | 21.90 | 17.05 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23780 | 25RB#0 | 20.88 | 16.03 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23780 | 25RB#12 | 20.91 | 16.06 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23780 | 25RB#25 | 20.74 | 15.89 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23780 | 50RB#0 | 20.80 | 15.95 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 1RB#0 | 21.81 | 16.96 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 1RB#24 | 21.90 | 17.05 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 1RB#49 | 21.91 | 17.06 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 25RB#0 | 20.99 | 16.14 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 25RB#12 | 20.83 | 15.98 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 25RB#25 | 20.90 | 16.05 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 50RB#0 | 20.96 | 16.11 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 1RB#0 | 21.80 | 16.95 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 1RB#24 | 21.78 | 16.93 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 1RB#49 | 21.95 | 17.10 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 25RB#0 | 20.74 | 15.89 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 25RB#12 | 20.81 | 15.96 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 25RB#25 | 20.81 | 15.96 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 50RB#0 | 20.96 | 16.11 | 34.77 | PASS |



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

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

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

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

ANTO:

| Band | Bandwidth | Modulation | Channel | RB Config. | Result (dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------|--------------|-----------|-------------|---------|
| Band17 | 5MHz | QPSK | 23755 | 1RB#0 | 23.67 | 14.62 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 1RB#12 | 23.69 | 14.64 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 1RB#24 | 23.70 | 14.65 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 12RB#0 | 22.75 | 13.70 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 12RB#6 | 22.82 | 13.77 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 12RB#13 | 22.78 | 13.73 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23755 | 25RB#0 | 22.78 | 13.73 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 1RB#0 | 23.50 | 14.45 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 1RB#12 | 23.69 | 14.64 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 1RB#24 | 23.73 | 14.68 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 12RB#0 | 22.63 | 13.58 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 12RB#6 | 22.66 | 13.61 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 12RB#13 | 22.77 | 13.72 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23790 | 25RB#0 | 22.68 | 13.63 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 1RB#0 | 23.57 | 14.52 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 1RB#12 | 23.62 | 14.57 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 1RB#24 | 23.59 | 14.54 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 12RB#0 | 22.71 | 13.66 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 12RB#6 | 22.65 | 13.60 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 12RB#13 | 22.67 | 13.62 | 34.77 | PASS |
| Band17 | 5MHz | QPSK | 23825 | 25RB#0 | 22.64 | 13.59 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 1RB#0 | 23.01 | 13.96 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 1RB#12 | 23.14 | 14.09 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 1RB#24 | 23.06 | 14.01 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 12RB#0 | 21.65 | 12.60 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 12RB#6 | 21.77 | 12.72 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 12RB#13 | 21.79 | 12.74 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23755 | 25RB#0 | 21.79 | 12.74 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 1RB#0 | 22.80 | 13.75 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 1RB#12 | 23.17 | 14.12 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 1RB#24 | 23.27 | 14.22 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 12RB#0 | 21.72 | 12.67 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 12RB#6 | 21.60 | 12.55 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 12RB#13 | 21.63 | 12.58 | 34.77 | PASS |
| Band17 | 5MHz | 16QAM | 23790 | 25RB#0 | 21.64 | 12.59 | 34.77 | PASS |





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



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

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



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



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

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



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

Remark:

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

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

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



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

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

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

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

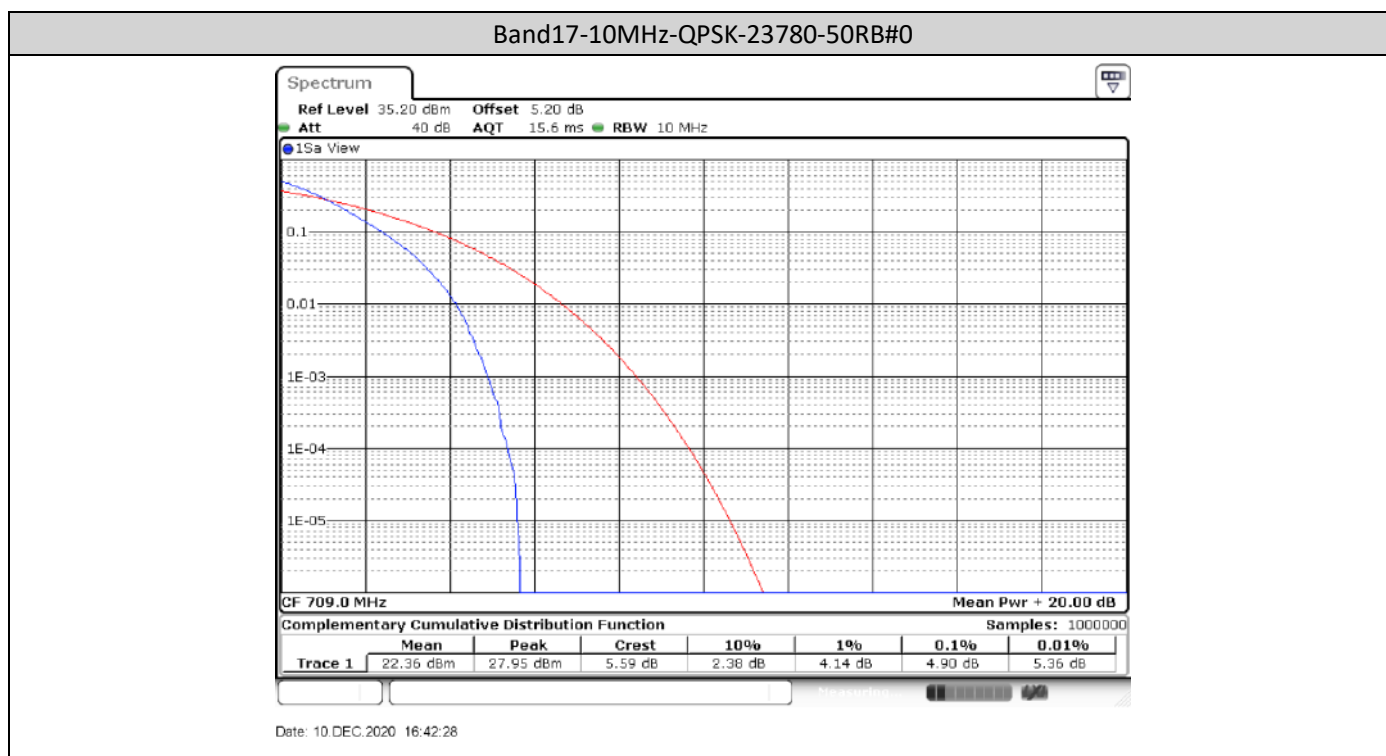


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

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

2.2. Test Plots



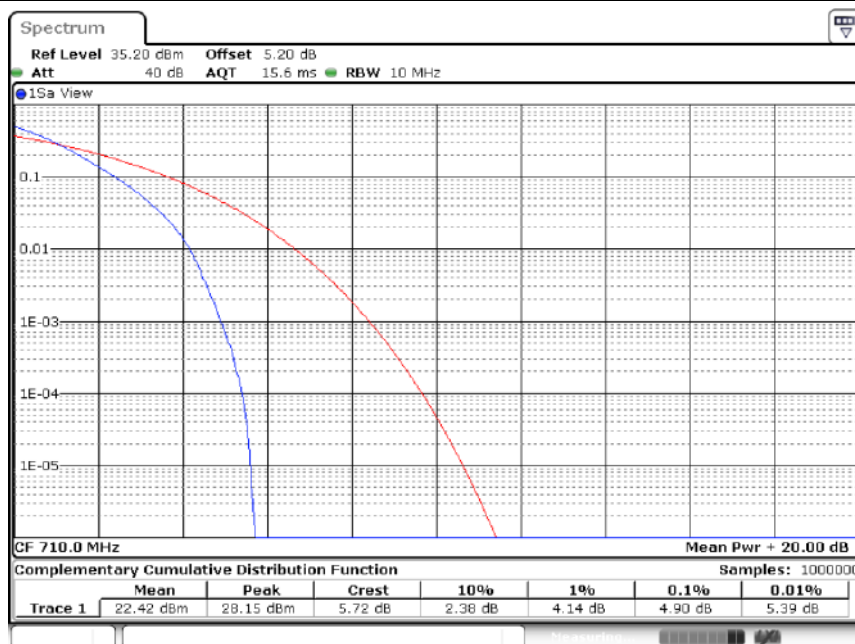
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

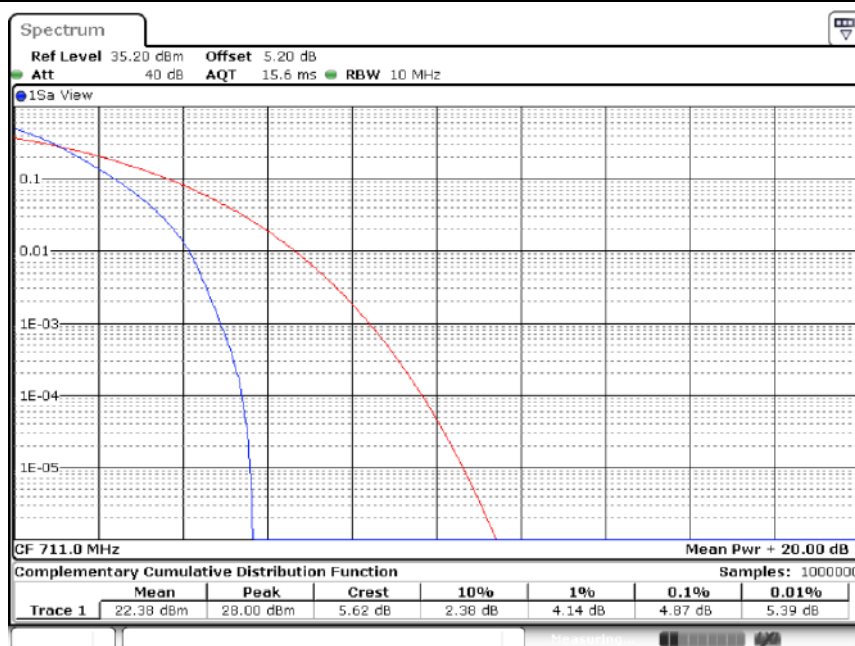
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 10 DEC. 2020 16:42:51

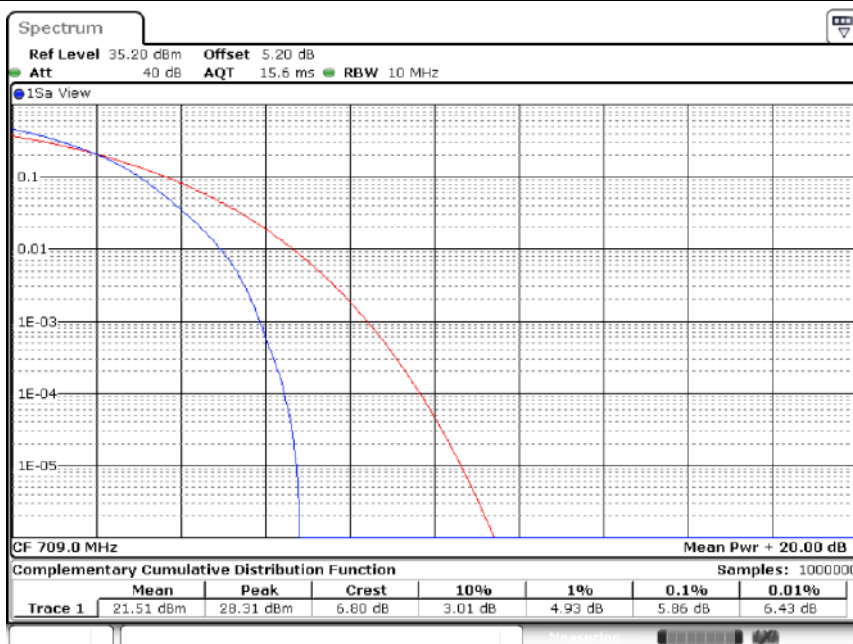
Band17-10MHz-QPSK-23800-50RB#0



Date: 10 DEC. 2020 16:43:13

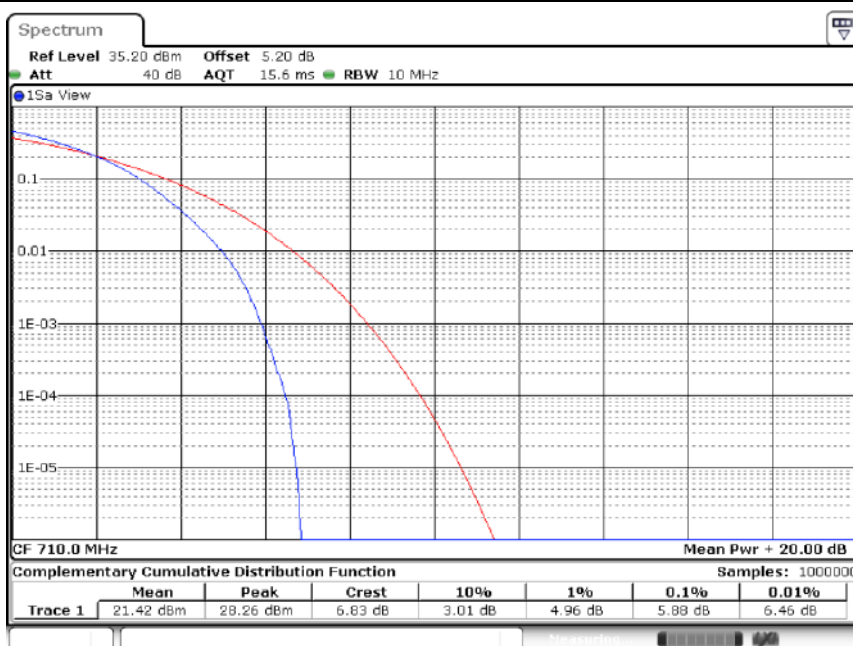


Band17-10MHz-16QAM-23780-50RB#0



Date: 10 DEC. 2020 16:42:39

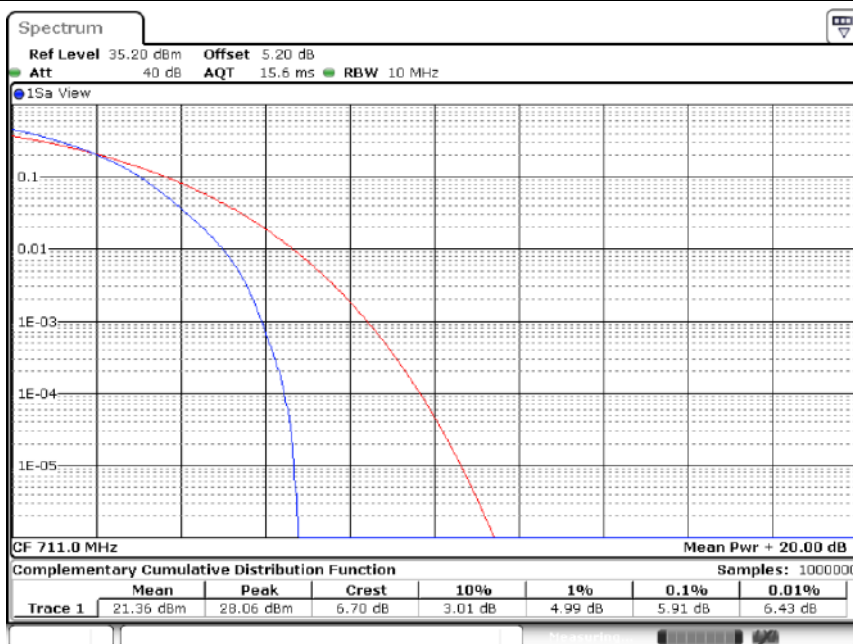
Band17-10MHz-16QAM-23790-50RB#0



Date: 10 DEC. 2020 16:43:02

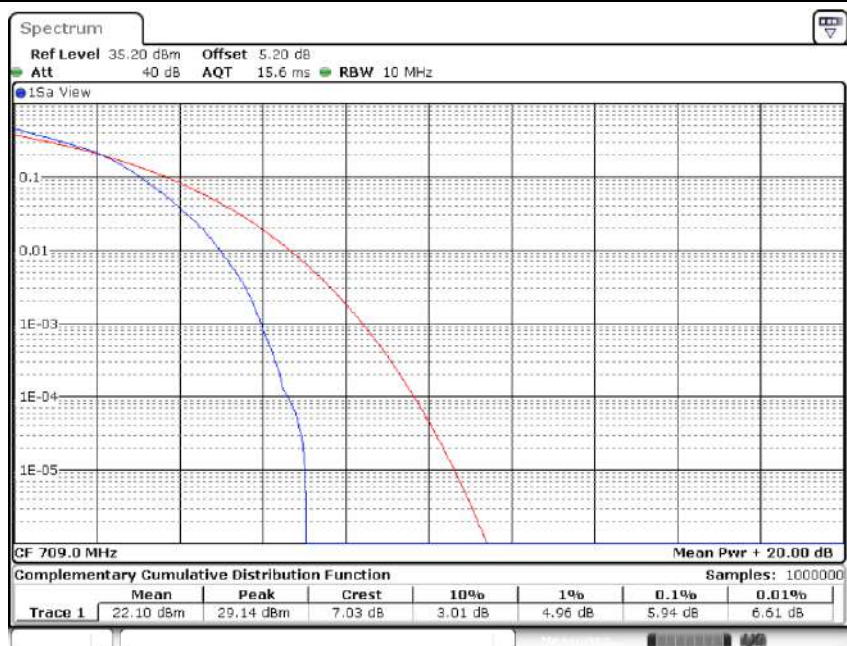


Band17-10MHz-16QAM-23800-50RB#0



Date: 10 DEC. 2020 16:43:25

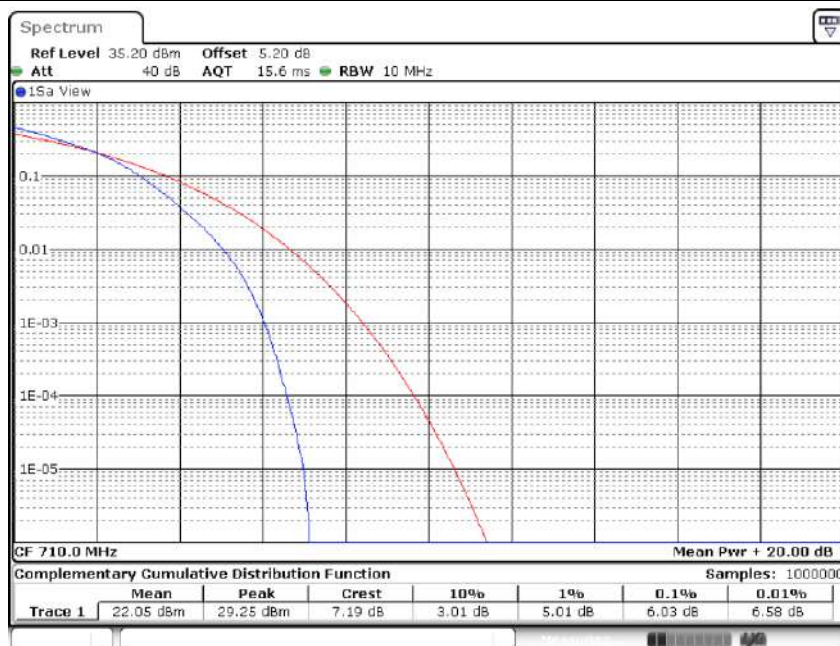
Band17-10MHz-64QAM-23780-50RB#0



Date: 4 JAN 2021 14:04:04



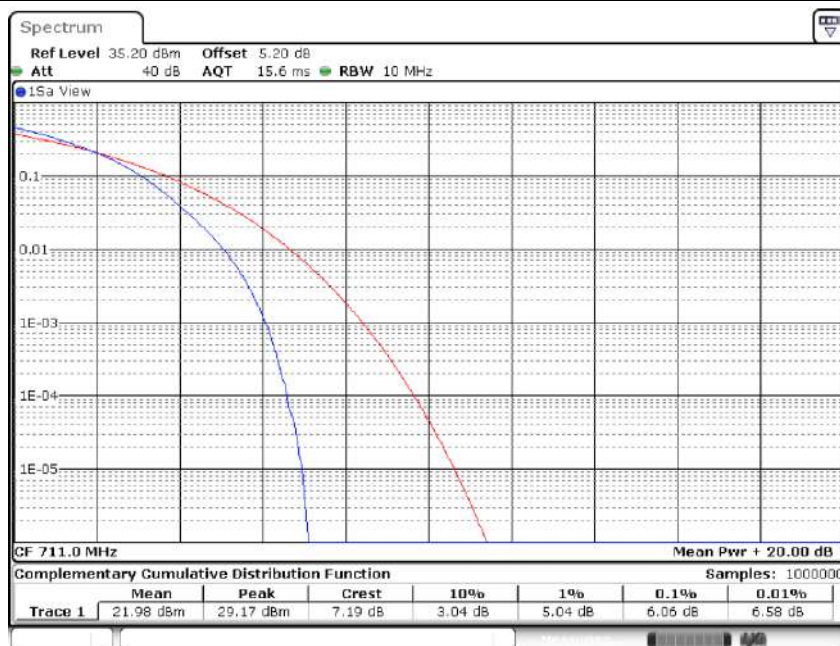
Band17-10MHz-64QAM-23790-50RB#0



Date: 4 JAN 2021 14:04:15



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



Date: 4 JAN 2021 14:04:27

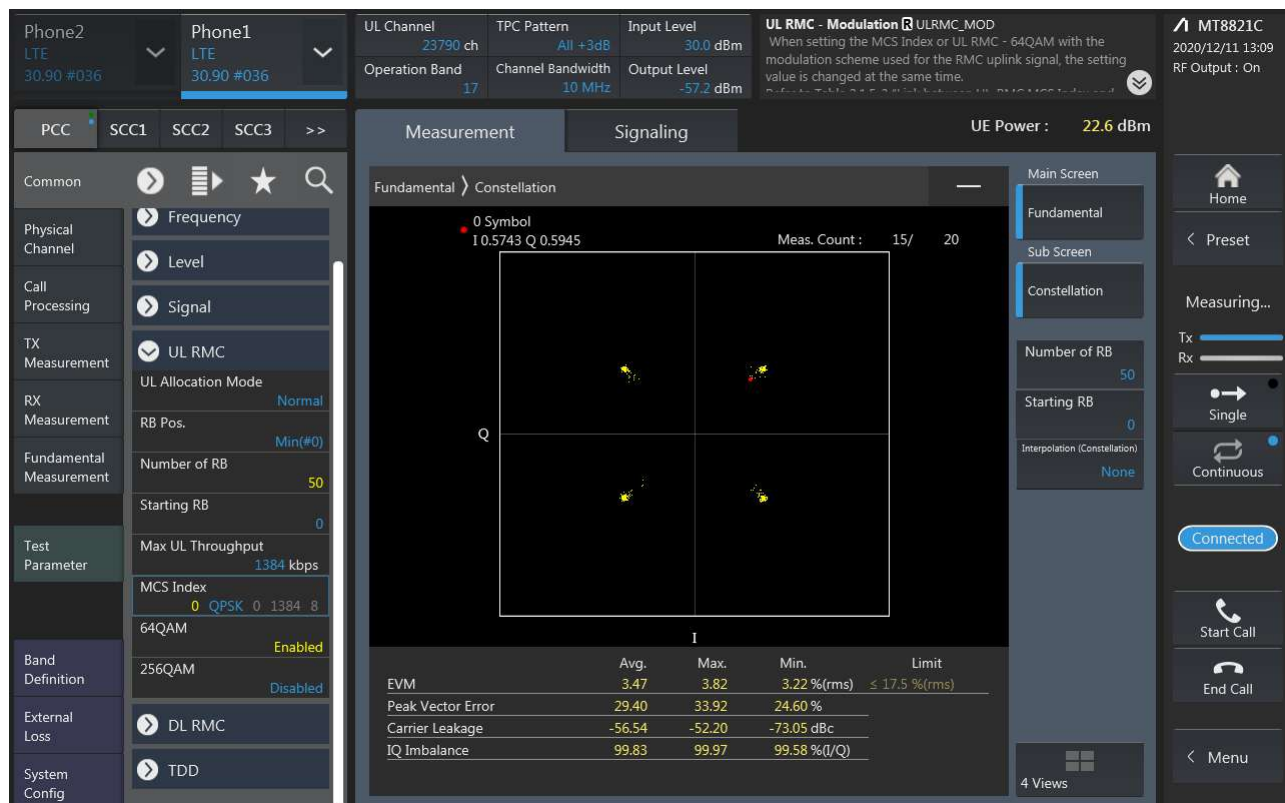




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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

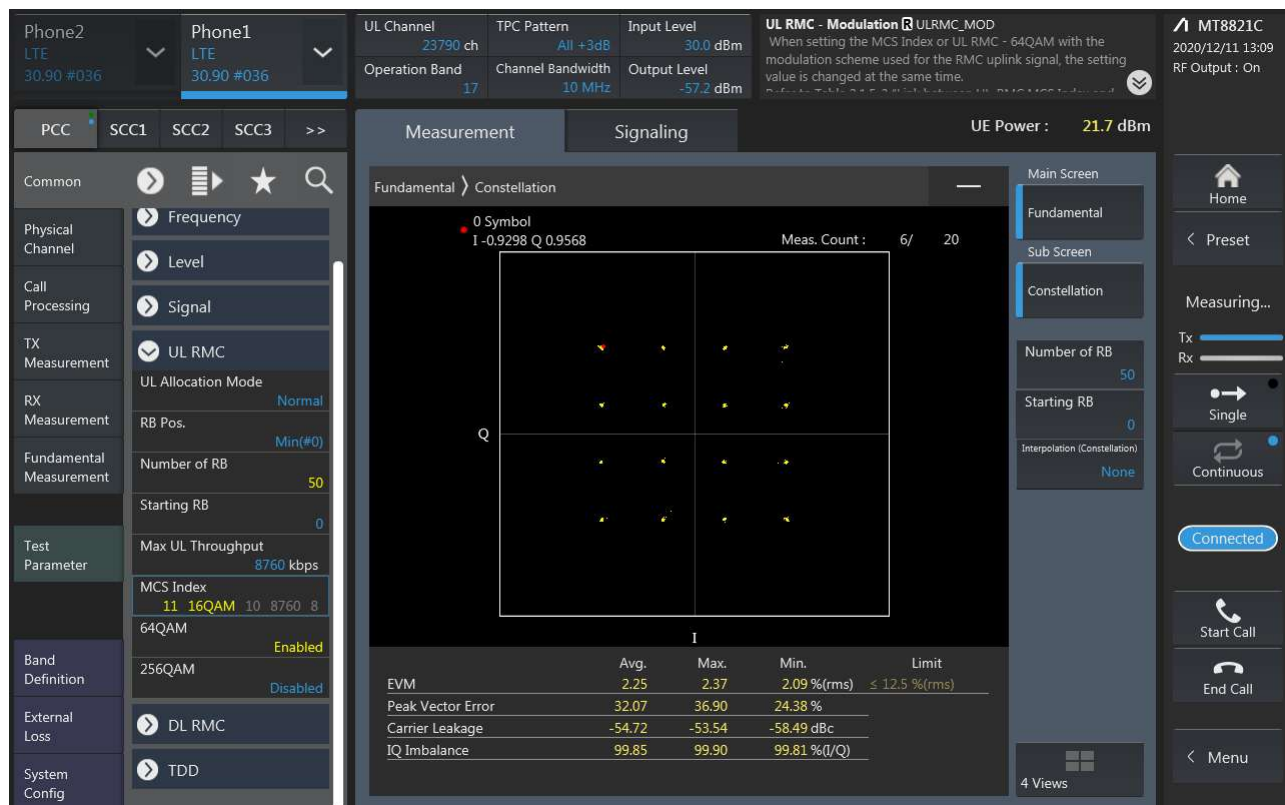
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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



3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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

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

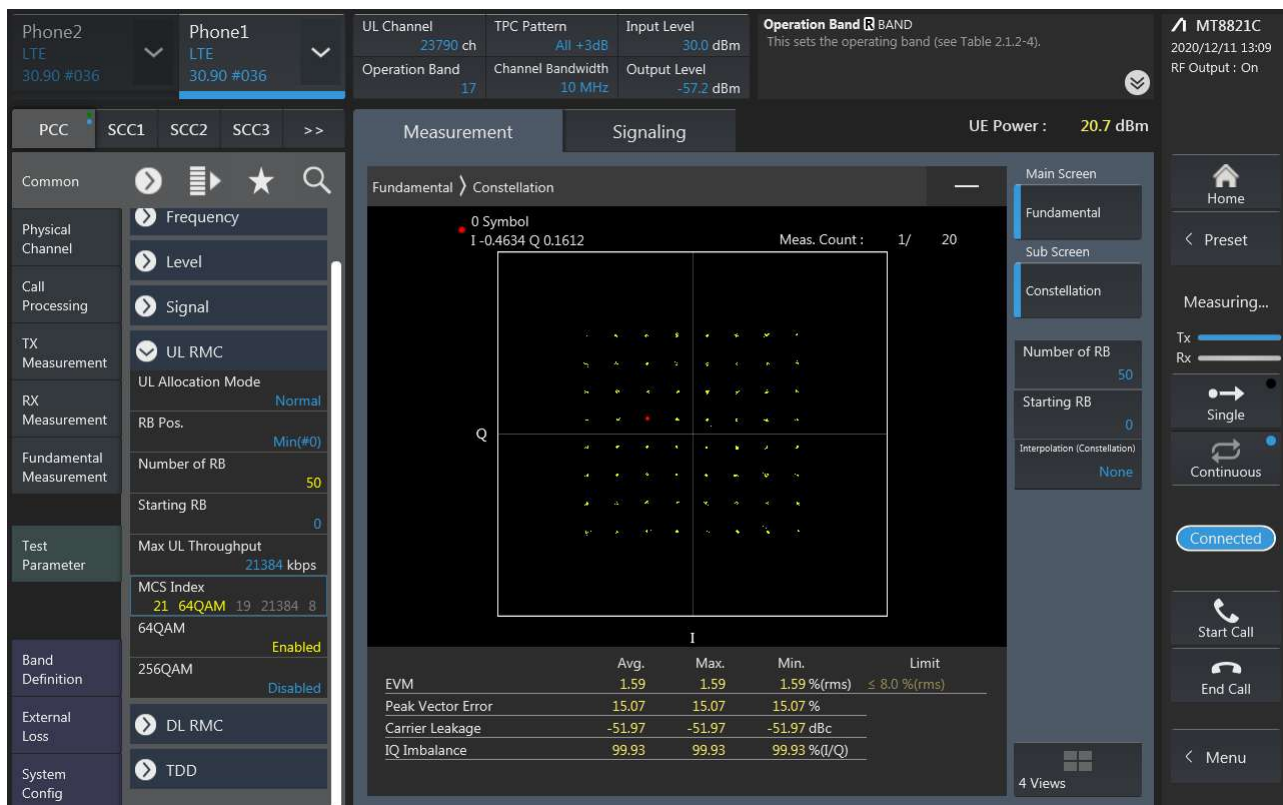
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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



3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH



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

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

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

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



4. 26dB Bandwidth and Occupied Bandwidth

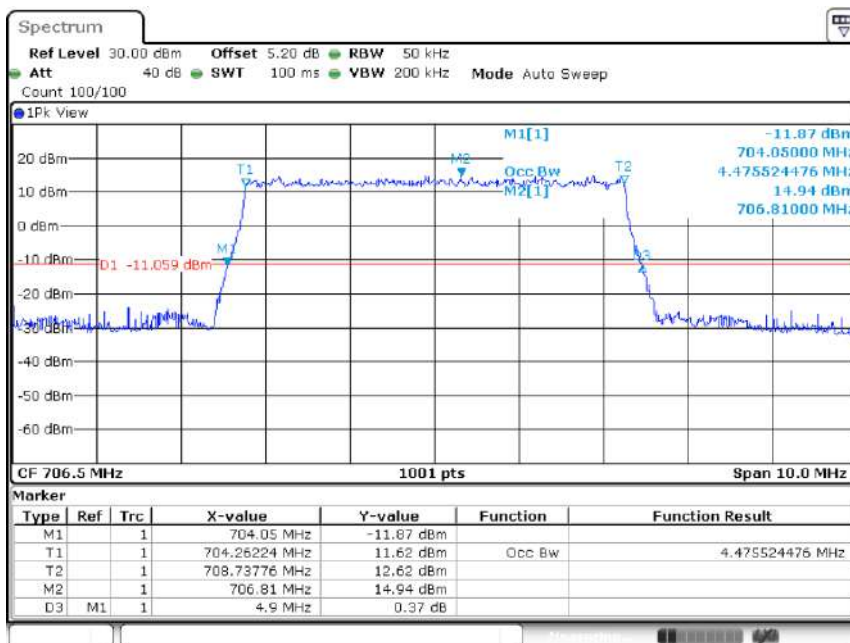
4.1. Test Result

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



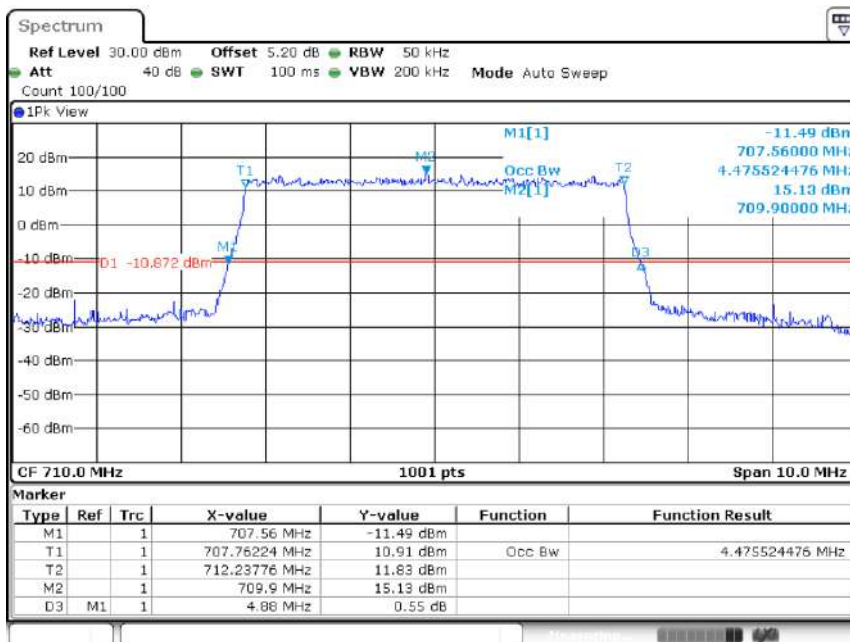
4.2. Test Plots

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



Date: 10 DEC. 2020 16:24:33

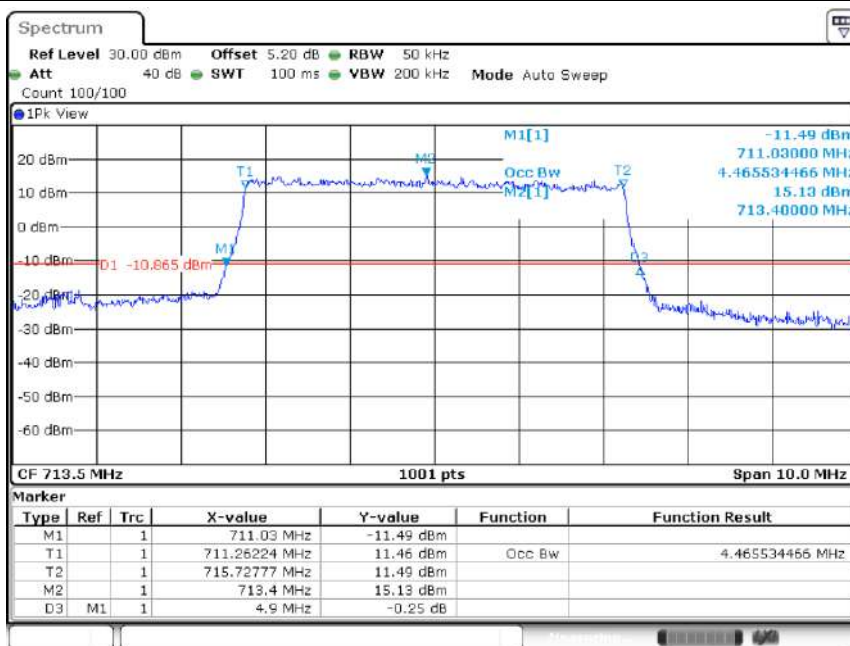
Band17-5MHz-QPSK-23790-25RB#0-4.476



Date: 10 DEC. 2020 16:25:14

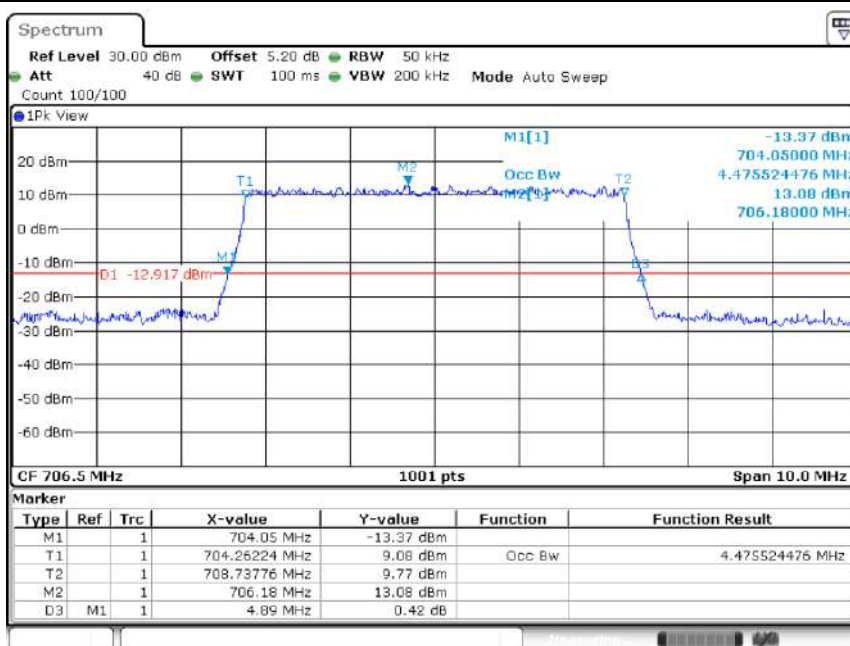


Band17-5MHz-QPSK-23825-25RB#0-4.466



Date: 10 DEC. 2020 16:25:53

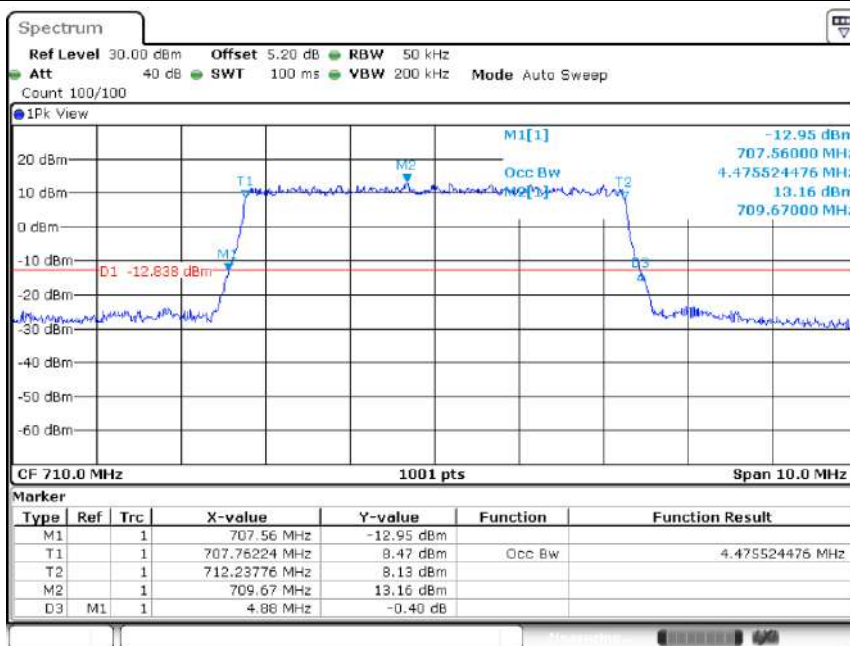
Band17-5MHz-64QAM-23755-25RB#0-4.476



Date: 10 DEC. 2020 17:13:32

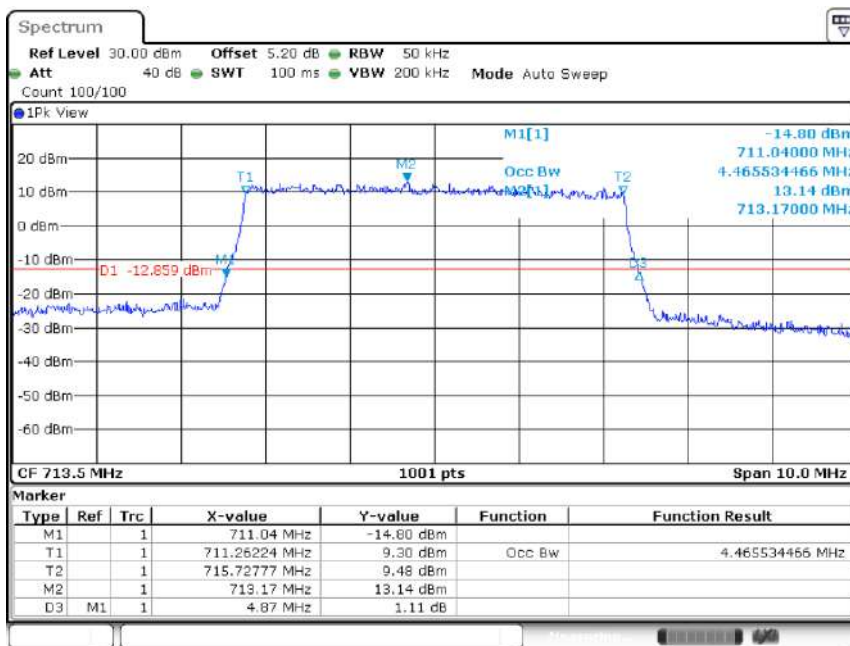


Band17-5MHz-64QAM-23790-25RB#0-4.476



Date: 10 DEC. 2020 17:13:52

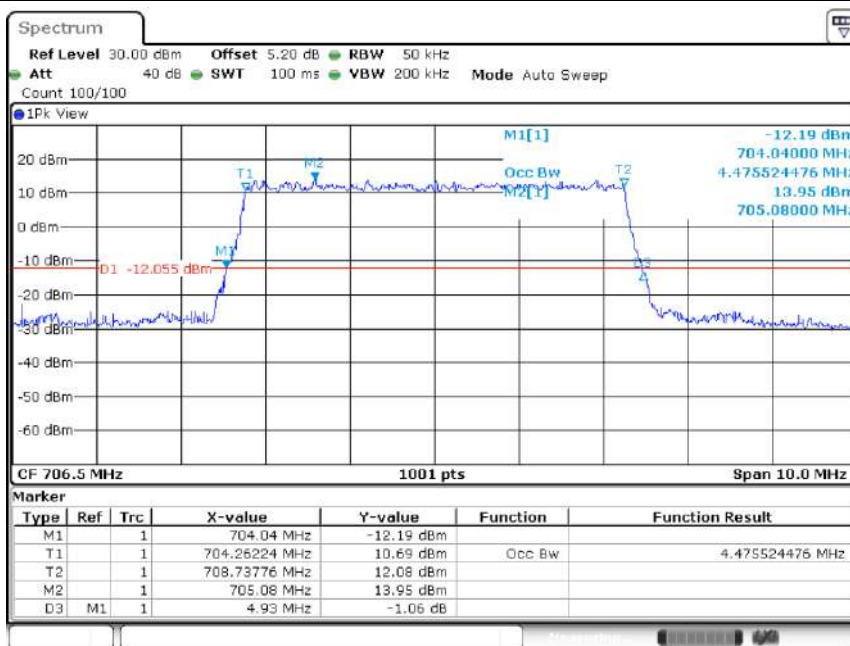
Band17-5MHz-64QAM-23825-25RB#0-4.466



Date: 10 DEC. 2020 17:14:15

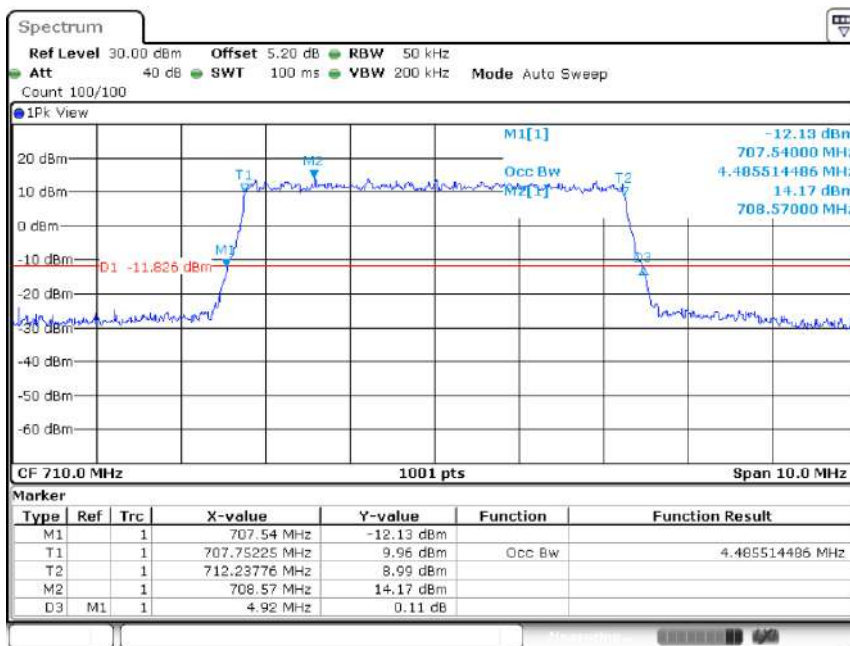


Band17-5MHz-16QAM-23755-25RB#0-4.476



Date: 10 DEC. 2020 16:24:54

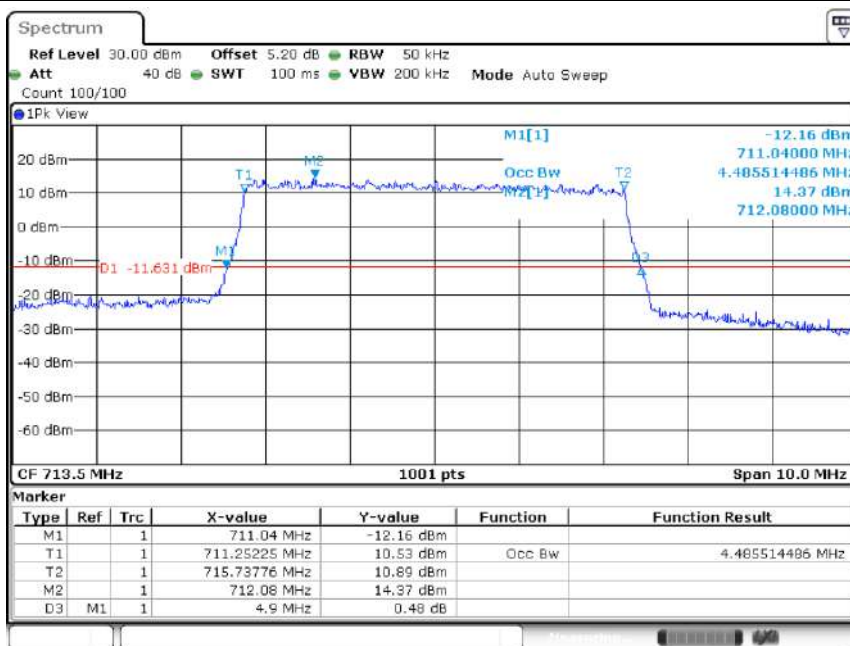
Band17-5MHz-16QAM-23790-25RB#0-4.486



Date: 10 DEC. 2020 16:25:33

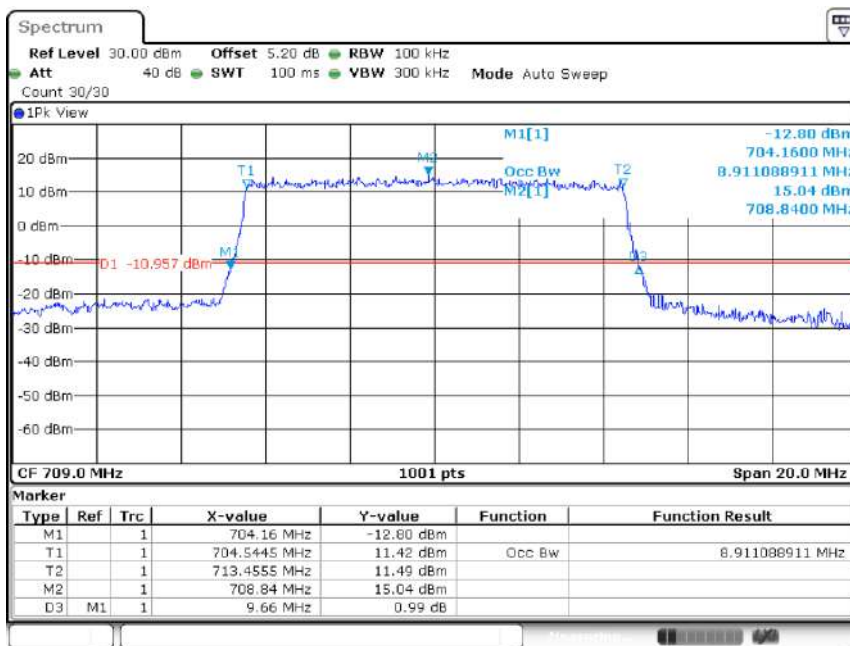


Band17-5MHz-16QAM-23825-25RB#0-4.486



Date: 10 DEC. 2020 16:26:13

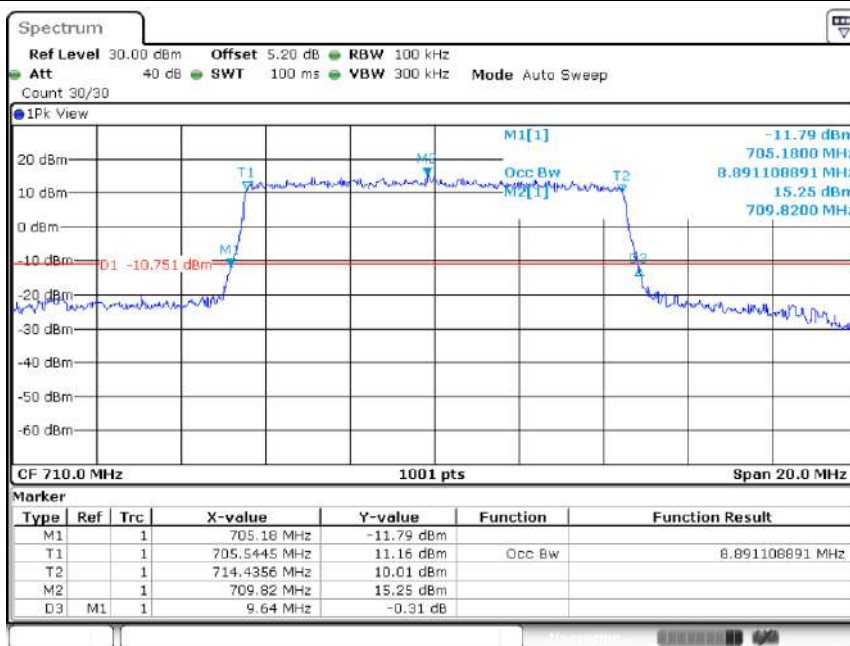
Band17-10MHz-QPSK-23780-50RB#0-8.911



Date: 10 DEC. 2020 16:26:32

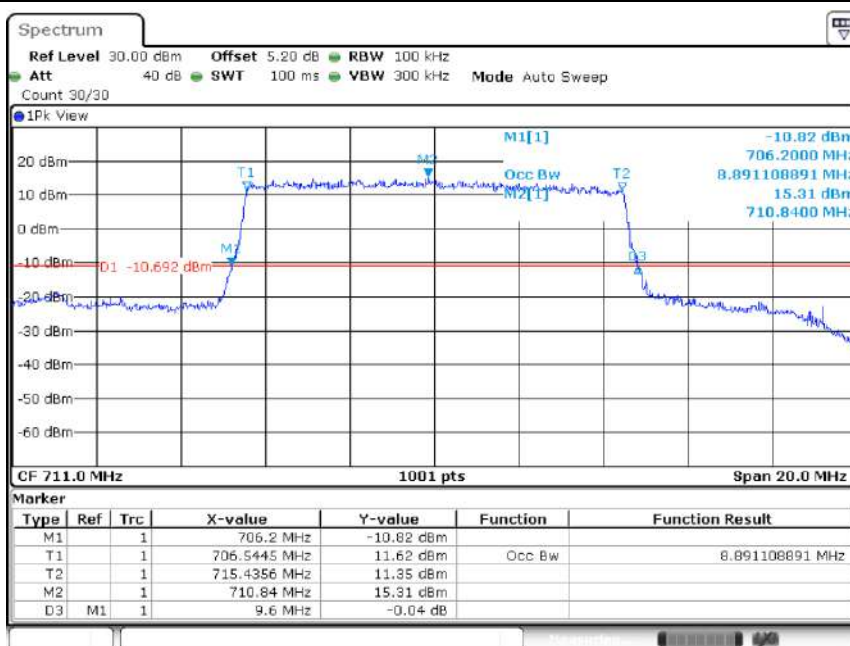


Band17-10MHz-QPSK-23790-50RB#0-8.891



Date: 10 DEC. 2020 16:26:57

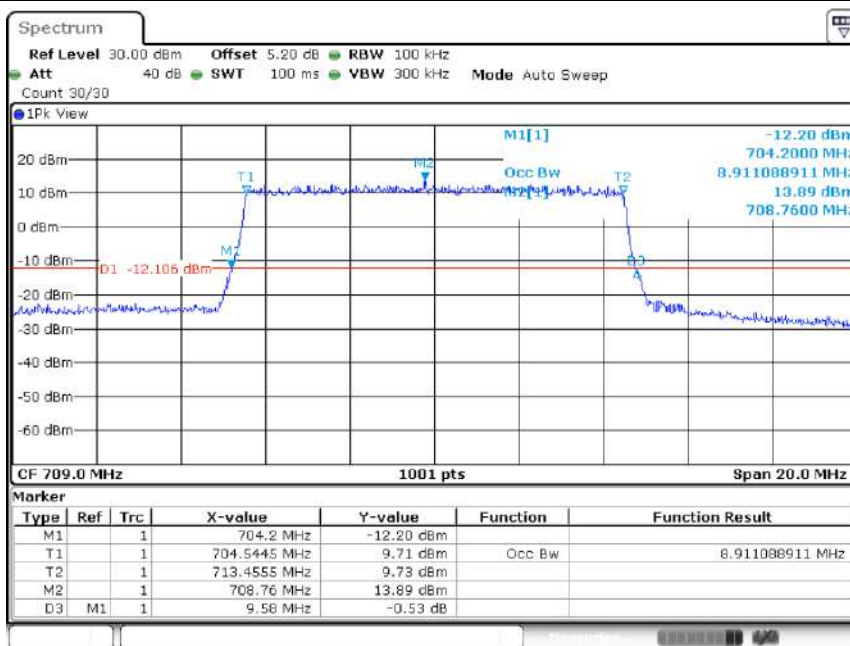
Band17-10MHz-QPSK-23800-50RB#0-8.891



Date: 10 DEC. 2020 16:27:23

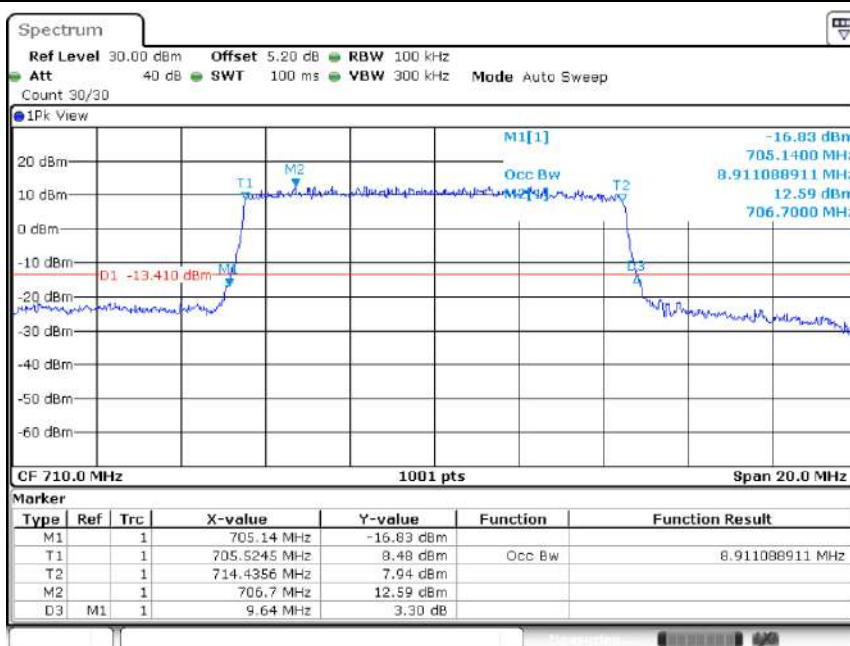


Band17-10MHz-64QAM-23780-50RB#0-8.911



Date: 10 DEC. 2020 17:14:36

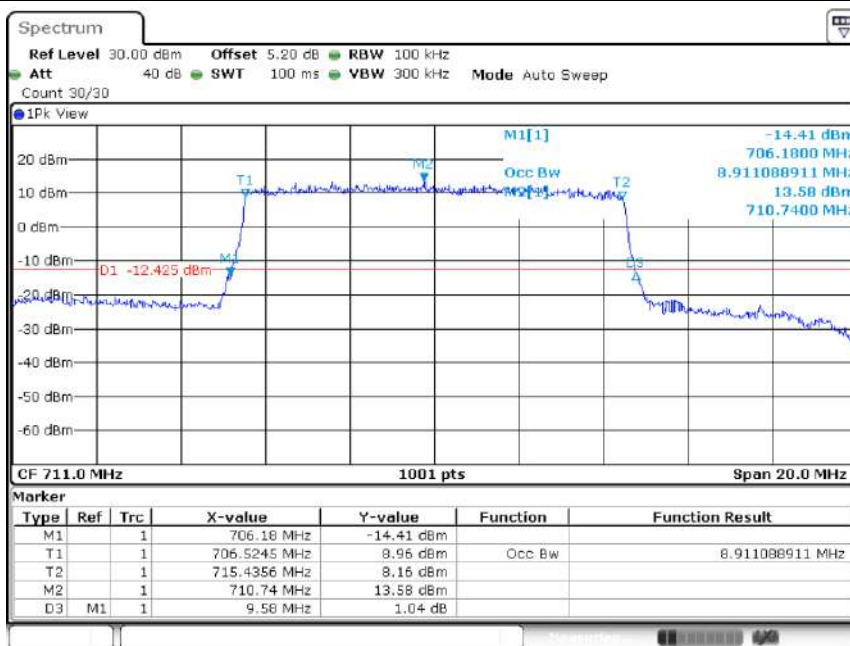
Band17-10MHz-64QAM-23790-50RB#0-8.911



Date: 10 DEC. 2020 17:14:50

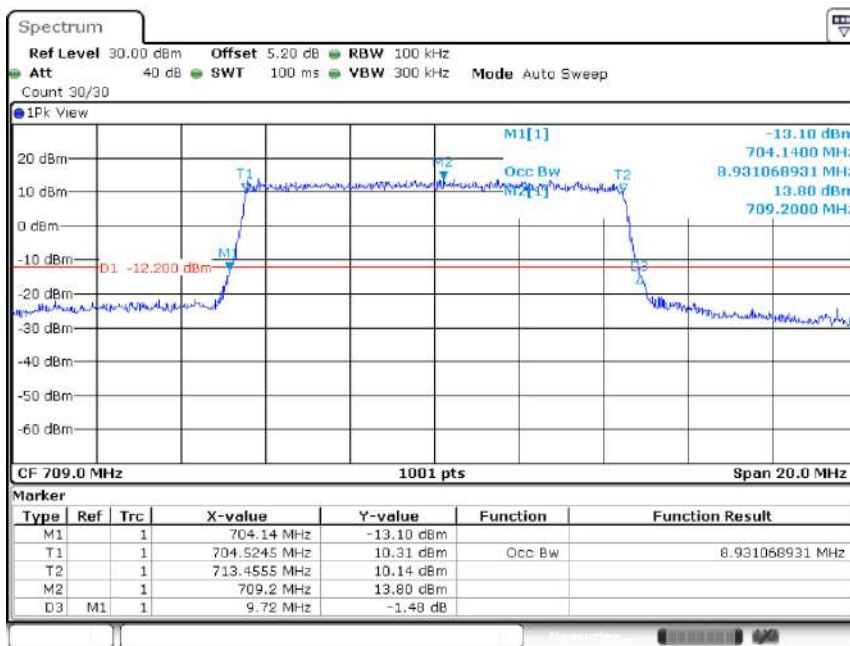


Band17-10MHz-64QAM-23800-50RB#0-8.911



Date: 10 DEC. 2020 17:15:03

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



Date: 10 DEC. 2020 16:26:44



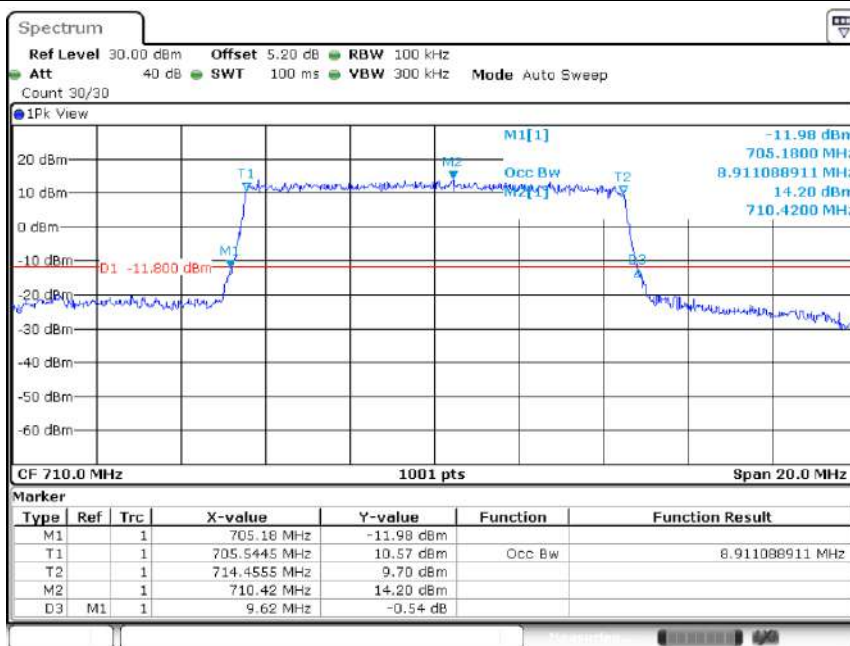
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

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

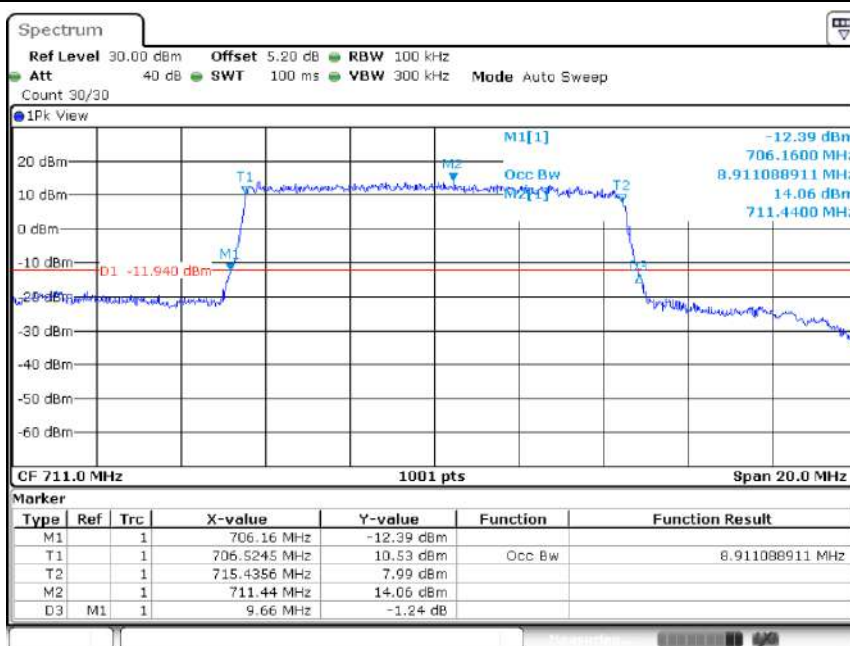
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 10 DEC. 2020 16:27:10

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



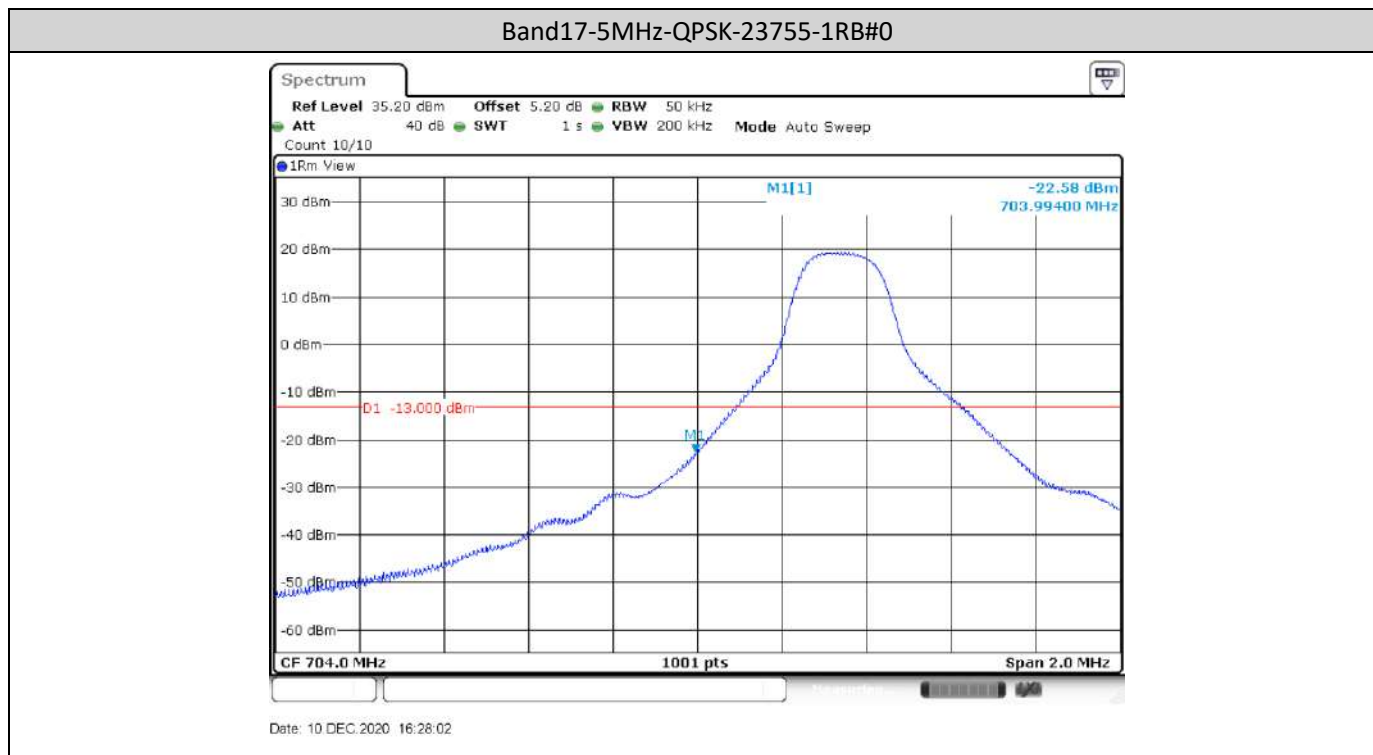
Date: 10 DEC. 2020 16:27:36





5. Band Edge Compliance

5.1. Test Plots



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



Date: 10 DEC. 2020 16:28:43

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



Date: 10 DEC. 2020 16:29:29



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

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

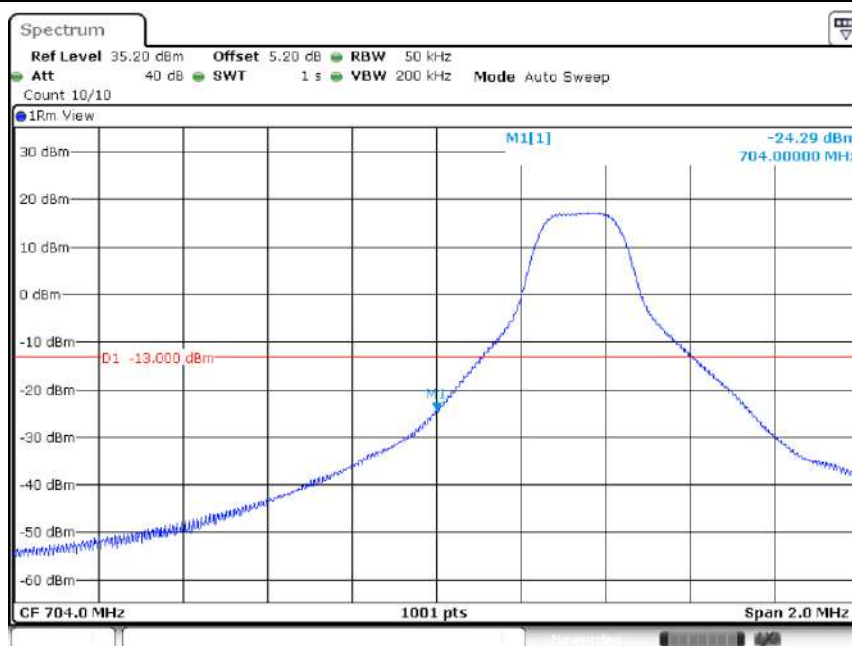
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 10 DEC. 2020 16:30:10

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



Date: 10 DEC. 2020 17:15:31



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

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

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

Member of the SGS Group (SGS SA)

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



Date: 10 DEC. 2020 17:15:52

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



Date: 10 DEC. 2020 17:16:18

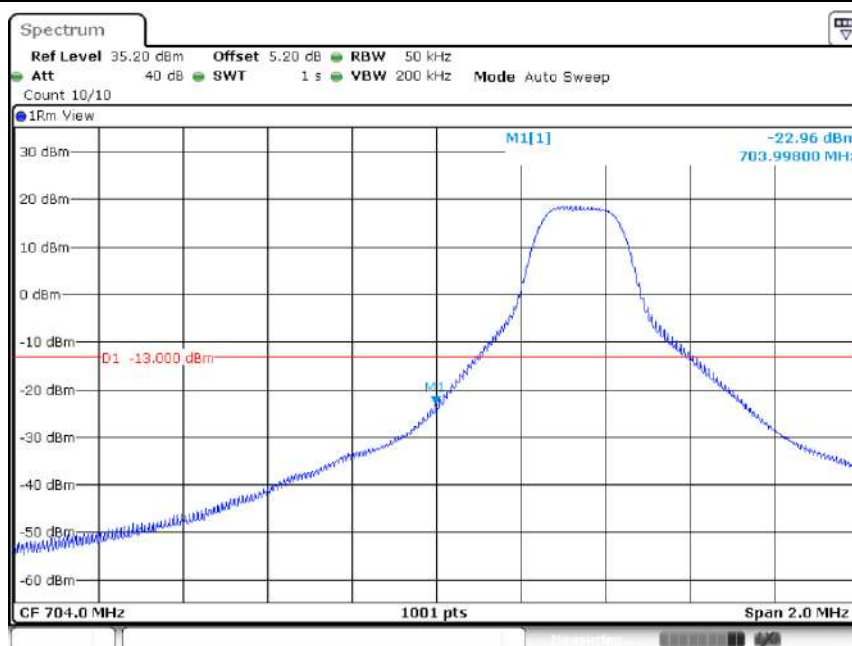


Band17-5MHz-64QAM-23825-25RB#0



Date: 10 DEC. 2020 17:16:38

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



Date: 10 DEC. 2020 16:28:23



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

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

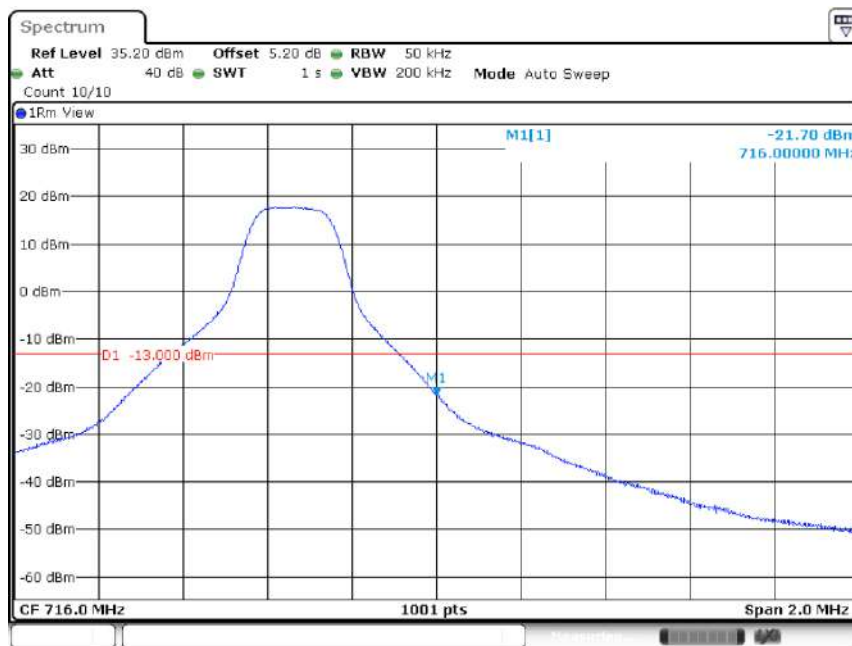
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 10 DEC. 2020 16:29:04

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



Date: 10 DEC. 2020 16:29:49



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

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

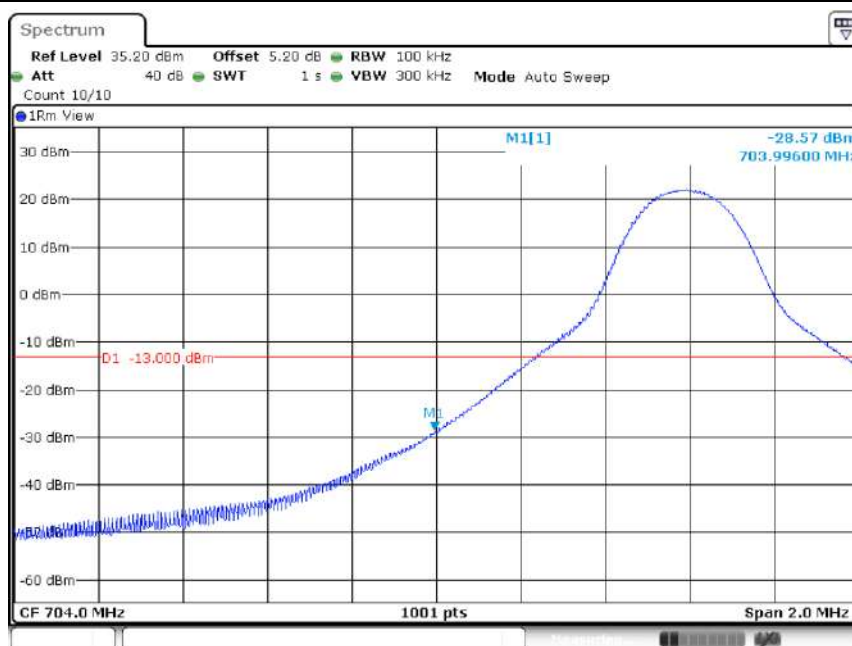
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 10 DEC. 2020 16:30:31

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



Date: 10 DEC. 2020 16:30:58

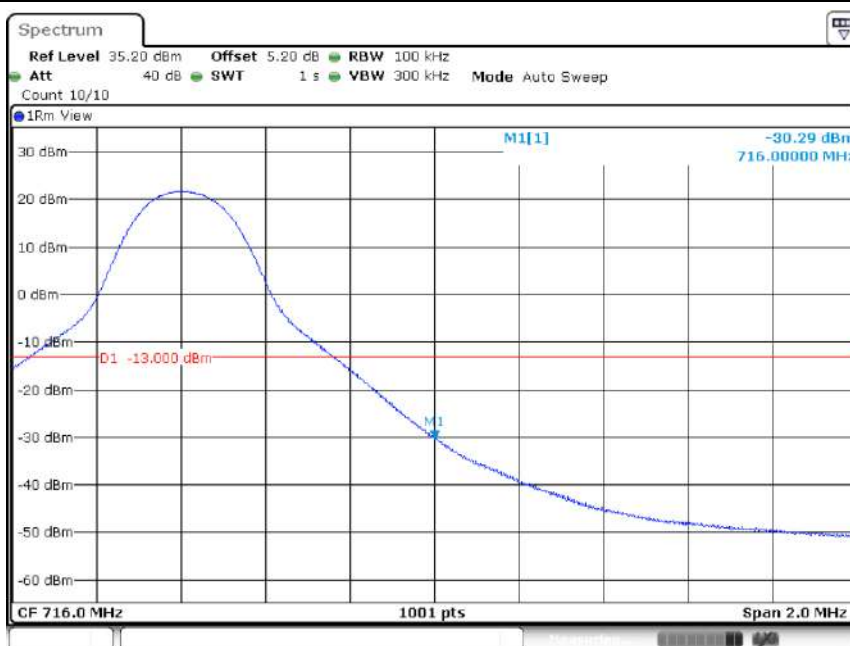


Band17-10MHz-QPSK-23780-50RB#0



Date: 10 DEC. 2020 16:31:40

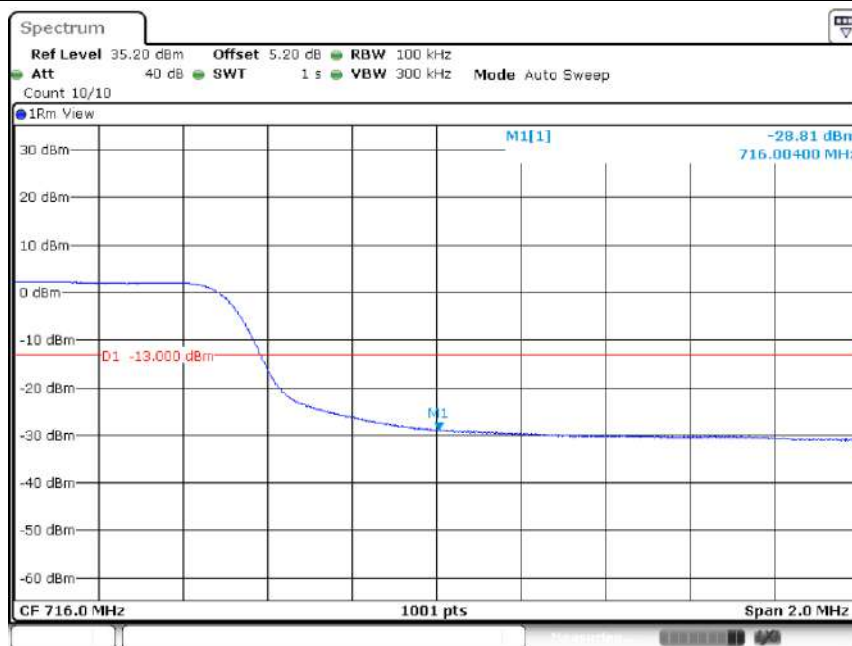
Band17-10MHz-QPSK-23800-1RB#49



Date: 10 DEC. 2020 16:32:25



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



Date: 10 DEC. 2020 16:33:06

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



Date: 10 DEC. 2020 17:17:06



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

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

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

Member of the SGS Group (SGS SA)

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



Date: 10 DEC. 2020 17:17:27

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



Date: 10 DEC. 2020 17:17:52



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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-64QAM-23800-50RB#0



Date: 10 DEC. 2020 17:18:13

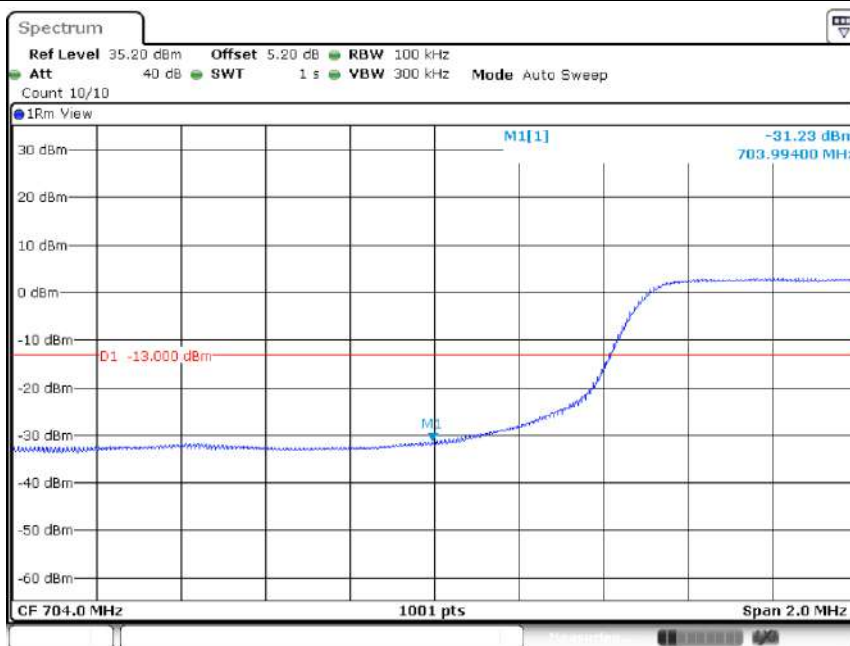
Band17-10MHz-16QAM-23780-1RB#0



Date: 10 DEC. 2020 16:31:19



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



Date: 10 DEC. 2020 16:32:00

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

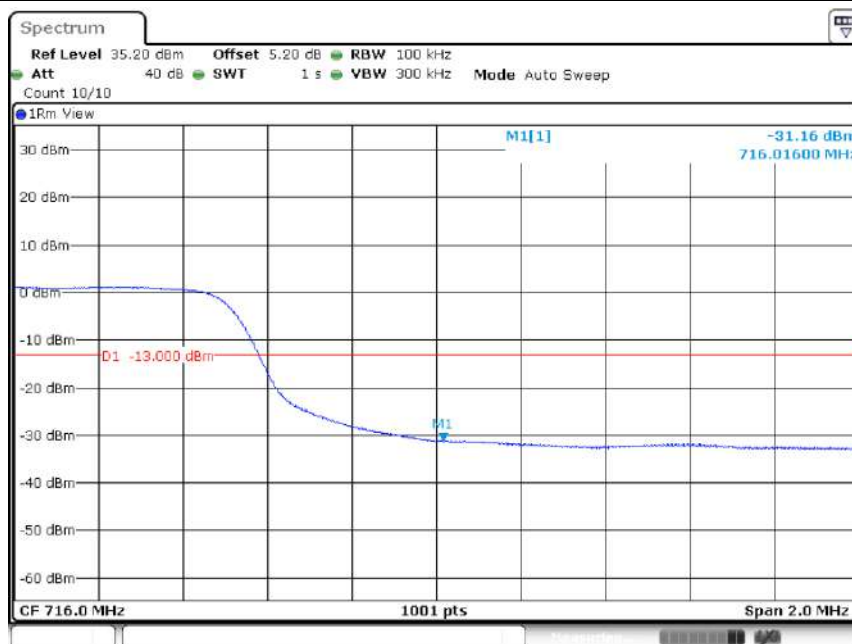


Date: 10 DEC. 2020 16:32:45





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



Date: 10 DEC. 2020 16:33:26



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

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

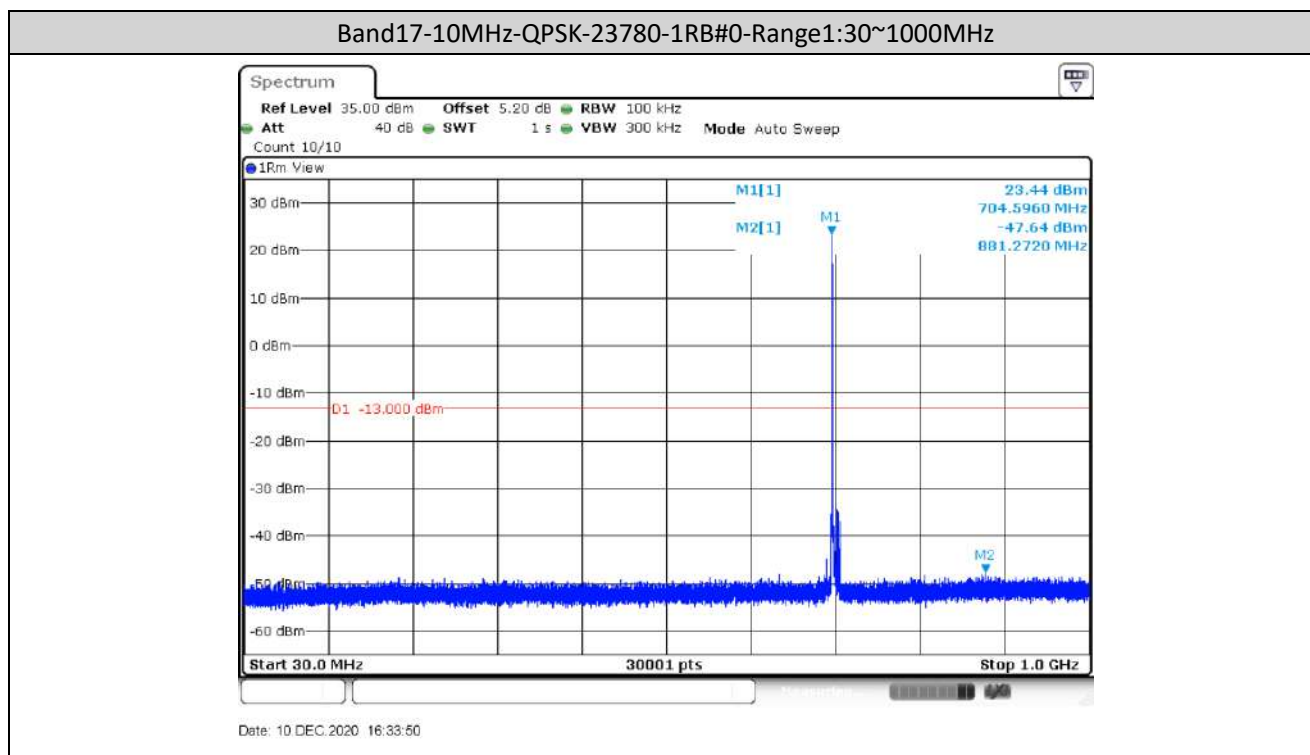
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

6. Spurious Emission at Antenna Terminal

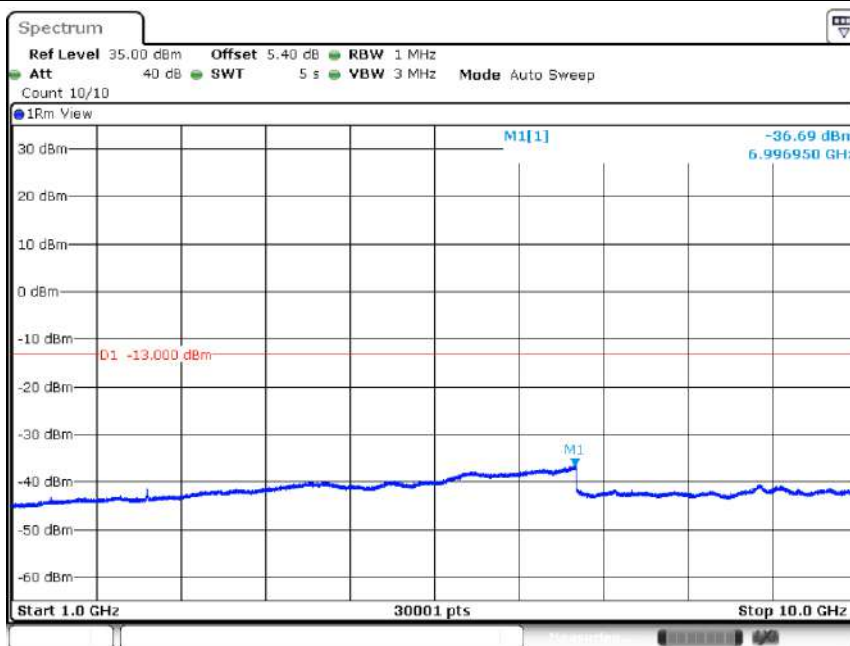
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

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

6.1. Test Plots

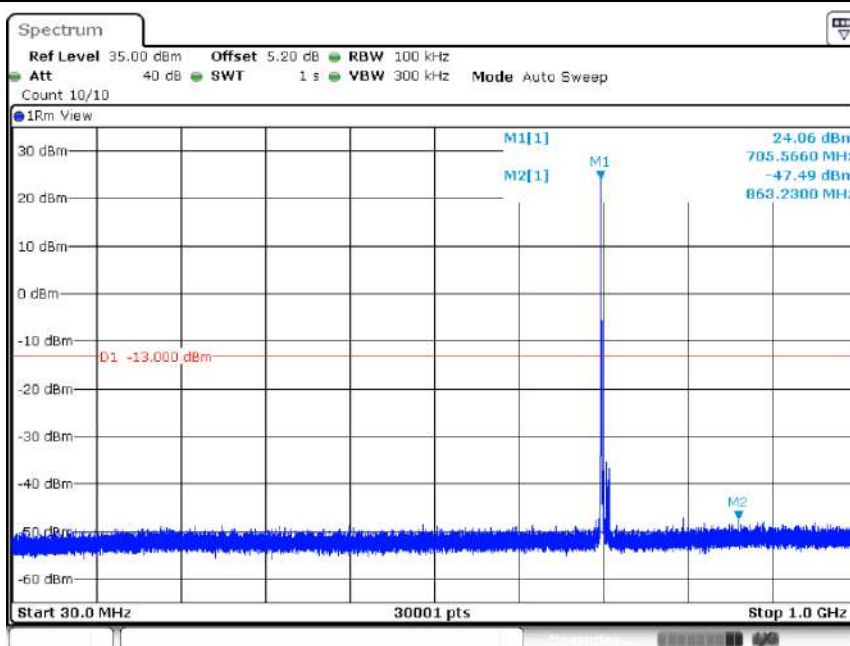


Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~10000MHz



Date: 10 DEC. 2020 16:34:57

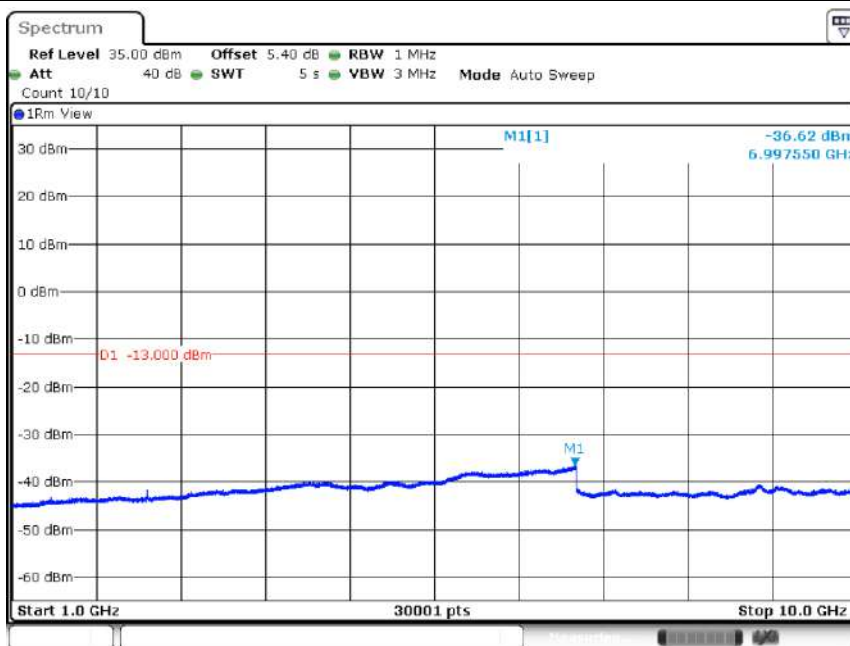
Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



Date: 10 DEC. 2020 16:36:44

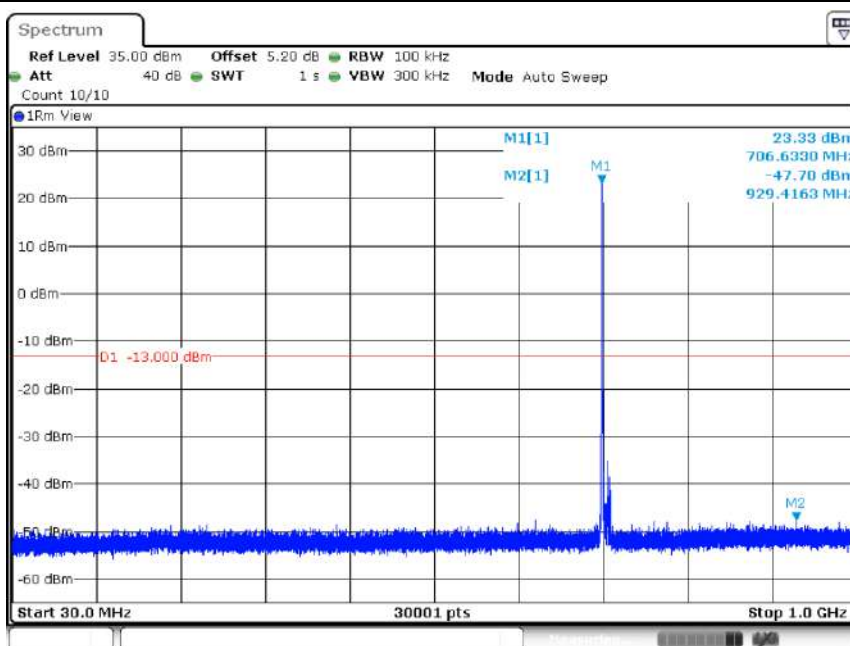


Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~10000MHz



Date: 10 DEC. 2020 16:37:52

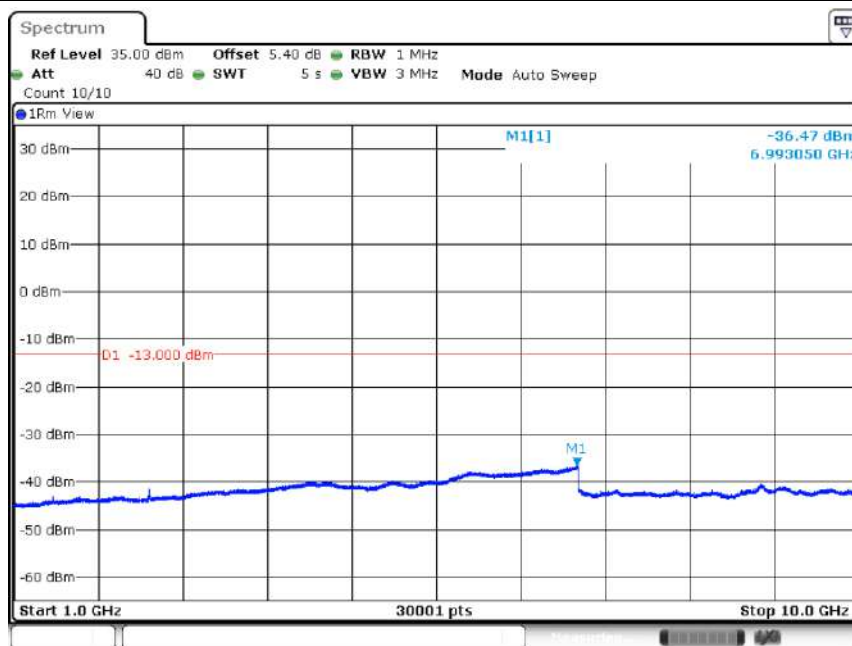
Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



Date: 10 DEC. 2020 16:38:38

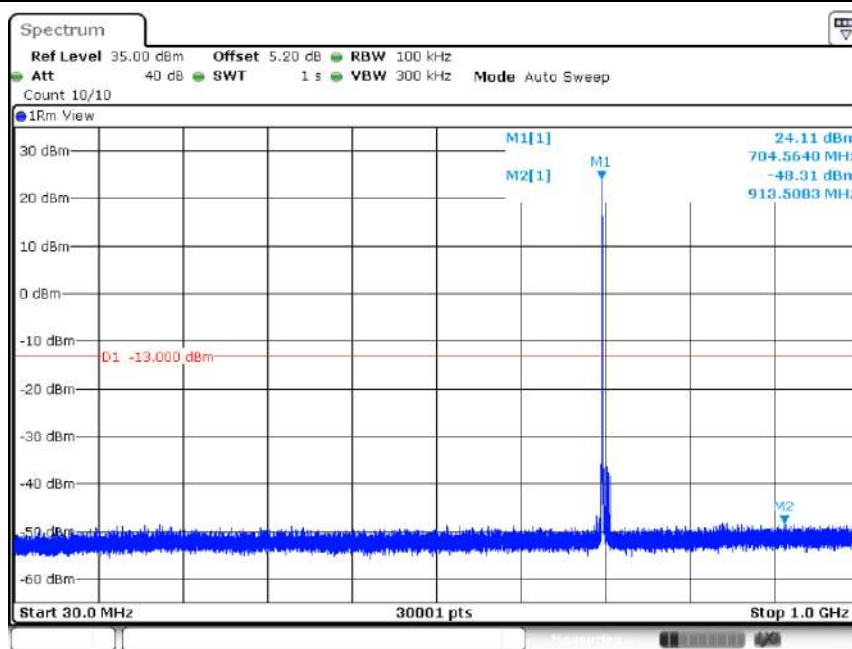


Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~10000MHz



Date: 10 DEC. 2020 16:40:46

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



Date: 10 DEC. 2020 16:35:17



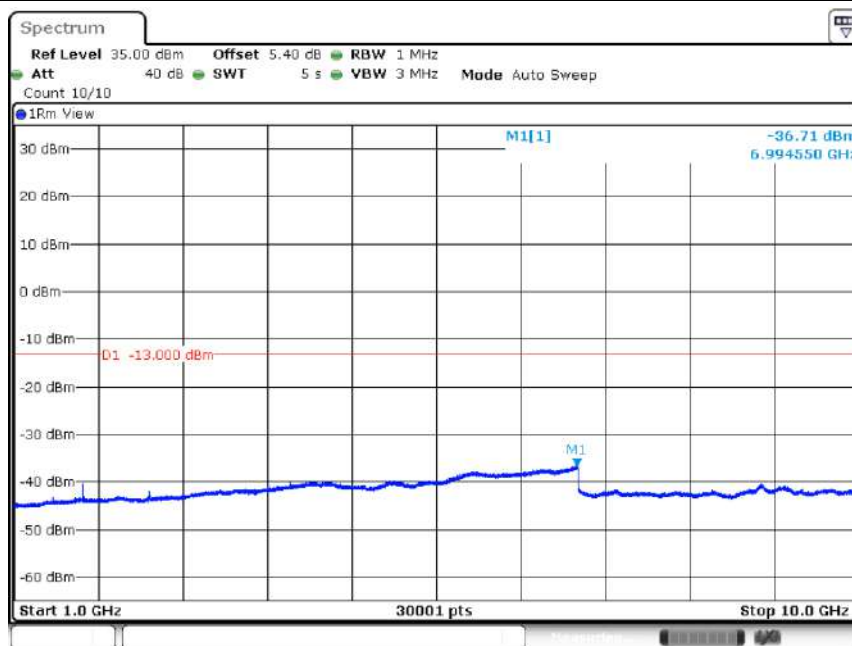
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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

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

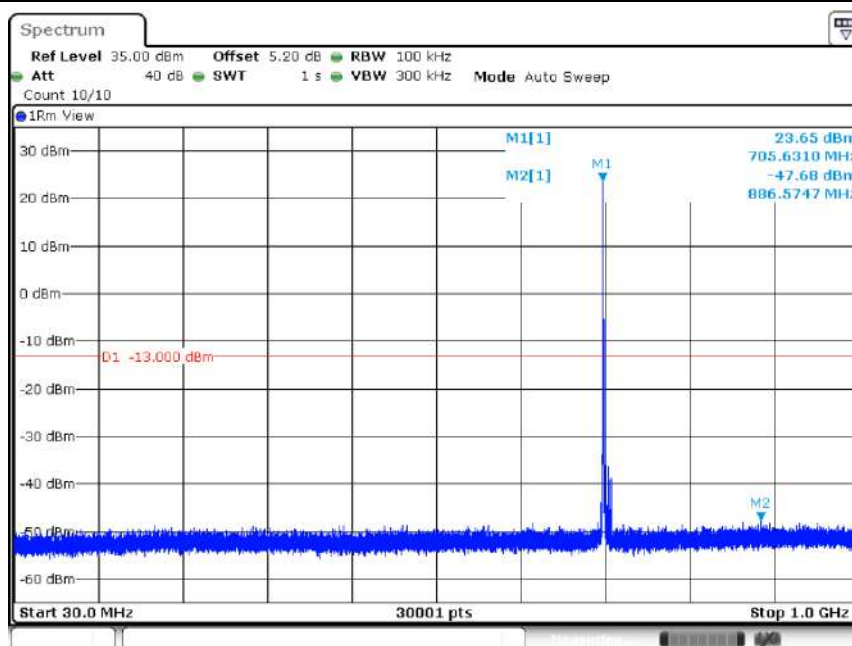
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 10 DEC. 2020 16:36:24

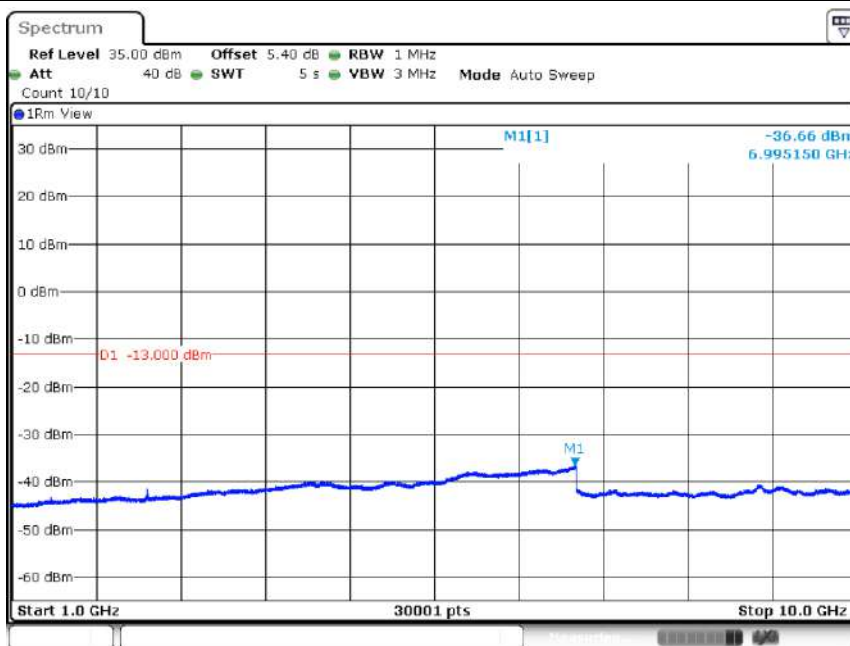
Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



Date: 10 DEC. 2020 16:38:11

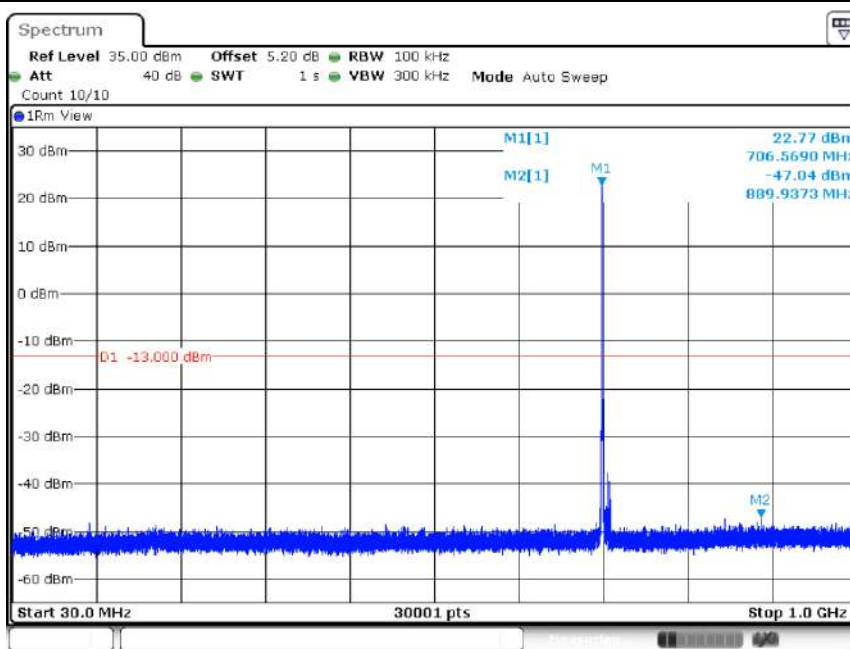


Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~10000MHz



Date: 10 DEC. 2020 16:39:19

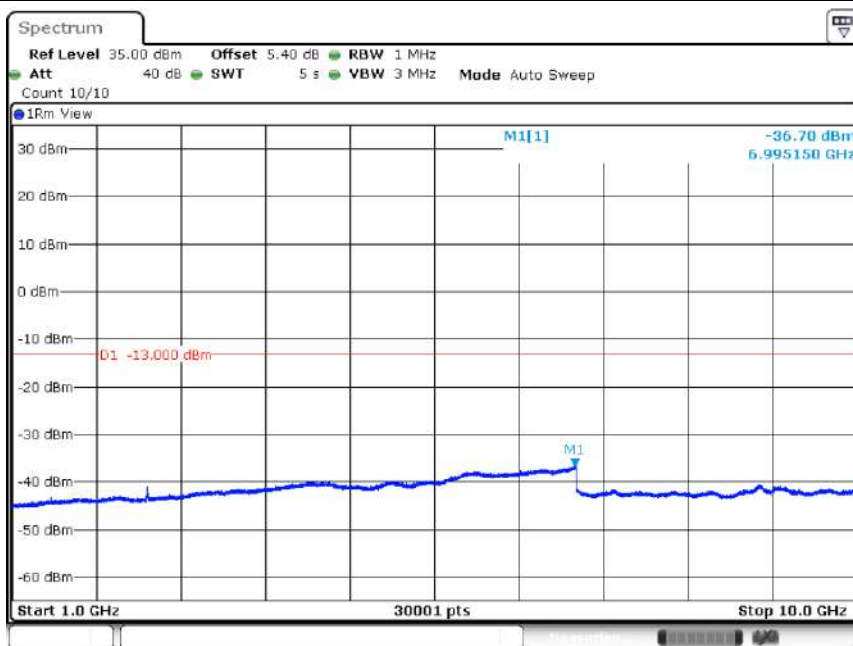
Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



Date: 10 DEC. 2020 16:41:06



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



Date: 10 DEC. 2020 16:42:13





7. Field Strength of Spurious Radiation

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

7.1.1.Test Channel = LCH

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

7.1.2.Test Channel = MCH

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



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

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

7.1.3. Test Channel = HCH

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

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

7.2.1. Test Channel = LCH

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



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

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

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

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

7.2.2. Test Channel = MCH

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

7.2.3. Test Channel = HCH

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

Remark:

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



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

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



8. Frequency Stability

8.1. Frequency Vs Voltage

| Voltage | | | | | | | | | | |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band17 | 10MHz | QPSK | 23780 | 50RB#0 | VL | NT | 2.10 | 0.002962 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 50RB#0 | VN | NT | -0.40 | -0.000564 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23780 | 50RB#0 | VH | NT | -1.80 | -0.002539 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | VL | NT | 1.40 | 0.001972 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | VN | NT | 0.20 | 0.000282 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23790 | 50RB#0 | VH | NT | 2.20 | 0.003099 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23800 | 50RB#0 | VL | NT | -3.20 | -0.004501 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23800 | 50RB#0 | VN | NT | 3.00 | 0.004219 | ±2.5 | PASS |
| Band17 | 10MHz | QPSK | 23800 | 50RB#0 | VH | NT | -2.40 | -0.003376 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | VL | NT | 2.10 | 0.002962 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | VN | NT | 0.90 | 0.001269 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | VH | NT | 1.10 | 0.001551 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | VL | NT | 0.60 | 0.000845 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | VN | NT | 2.50 | 0.003521 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | VH | NT | 1.60 | 0.002254 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | VL | NT | 2.00 | 0.002813 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | VN | NT | 3.80 | 0.005345 | ±2.5 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | VH | NT | 5.60 | 0.007876 | ±2.5 | PASS |
| Band17 | 10MHz | 64QAM | 23780 | 50RB#0 | VL | NT | -1.60 | -0.002257 | ±2.5 | PASS |
| Band17 | 10MHz | 64QAM | 23780 | 50RB#0 | VN | NT | -4.90 | -0.006911 | ±2.5 | PASS |
| Band17 | 10MHz | 64QAM | 23780 | 50RB#0 | VH | NT | -0.70 | -0.000987 | ±2.5 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 50RB#0 | VL | NT | -3.40 | -0.004789 | ±2.5 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 50RB#0 | VN | NT | 4.60 | 0.006479 | ±2.5 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 50RB#0 | VH | NT | -0.70 | -0.000986 | ±2.5 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 50RB#0 | VL | NT | -0.50 | -0.000703 | ±2.5 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 50RB#0 | VN | NT | 1.20 | 0.001688 | ±2.5 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 50RB#0 | VH | NT | 2.60 | 0.003657 | ±2.5 | PASS |



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

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

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

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



8.2. Frequency Vs Temperature

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



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

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



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



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

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



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



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

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

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