



# Appendix B

## E-UTRA Band 7



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](mailto:CN.Doccheck@sgs.com)

## CONTENT

|           |                                                    |           |
|-----------|----------------------------------------------------|-----------|
| <b>1</b>  | <b>EFFECTIVE (ISOTROPIC) RADIATED POWER .....</b>  | <b>4</b>  |
| 1.1.      | TEST RESULT .....                                  | 4         |
| <b>2.</b> | <b>PEAK-TO-AVERAGE RATIO (CCDF) .....</b>          | <b>8</b>  |
| 2.1.      | TEST RESULT .....                                  | 8         |
| 2.2.      | TEST PLOTS.....                                    | 8         |
| <b>3.</b> | <b>MODULATION CHARACTERISTICS .....</b>            | <b>12</b> |
| 3.1.      | TEST BAND = LTE BAND 7 .....                       | 12        |
| 3.1.1.    | TEST MODE = LTE /TM1 20MHz .....                   | 12        |
| 3.1.1.1.  | TEST CHANNEL = MCH.....                            | 12        |
| 3.1.2.    | TEST MODE = LTE /TM2 20MHz .....                   | 13        |
| 3.1.2.1.  | TEST CHANNEL = MCH.....                            | 13        |
| <b>4.</b> | <b>26DB BANDWIDTH AND OCCUPIED BANDWIDTH .....</b> | <b>14</b> |
| 4.1.      | TEST RESULT .....                                  | 14        |
| 4.2.      | TEST PLOTS.....                                    | 14        |
| <b>5.</b> | <b>BAND EDGE COMPLIANCE .....</b>                  | <b>27</b> |
| 5.1.      | TEST PLOTS.....                                    | 27        |
| <b>6.</b> | <b>SPURIOUS EMISSION AT ANTENNA TERMINAL .....</b> | <b>43</b> |
| 6.1.      | TEST PLOTS.....                                    | 43        |
| <b>7.</b> | <b>FIELD STRENGTH OF SPURIOUS RADIATION .....</b>  | <b>49</b> |
| 7.1.      | TEST BAND = LTE BAND 7 .....                       | 49        |
| 7.1.1.    | TEST MODE =LTE/TM1 .....                           | 49        |
| 7.1.1.1.  | TEST CHANNEL = LCH .....                           | 49        |
| 7.1.1.2.  | TEST CHANNEL = MCH.....                            | 49        |
| 7.1.1.3.  | TEST CHANNEL = HCH .....                           | 50        |
| 7.2.      | TEST BAND = LTE BAND 7 .....                       | 51        |
| 7.2.1.    | TEST MODE =LTE/TM1 .....                           | 51        |
| 7.2.1.1.  | TEST CHANNEL = LCH .....                           | 51        |
| 7.2.1.2.  | TEST CHANNEL = MCH.....                            | 51        |
| 7.2.1.3.  | TEST CHANNEL = HCH .....                           | 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](mailto: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



|      |                                |    |
|------|--------------------------------|----|
| 8.   | FREQUENCY STABILITY .....      | 53 |
| 8.1. | FREQUENCY VS VOLTAGE .....     | 53 |
| 8.2. | FREQUENCY VS TEMPERATURE ..... | 53 |



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

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



## 1 Effective (Isotropic) Radiated Power

### 1.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------------|------------|-------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | 22.80                | 22.57      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#13           | 23.07                | 22.84      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#24           | 22.82                | 22.59      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#0           | 22.08                | 21.85      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#6           | 22.18                | 21.95      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#13          | 22.10                | 21.87      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 22.08                | 21.85      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0            | 22.92                | 22.69      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#13           | 23.04                | 22.81      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#24           | 22.95                | 22.72      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#0           | 21.94                | 21.71      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#6           | 22.12                | 21.89      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#13          | 22.08                | 21.85      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 22.06                | 21.83      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0            | 22.92                | 22.69      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#13           | 23.06                | 22.83      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#24           | 23.00                | 22.77      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 12RB#0           | 21.99                | 21.76      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 12RB#6           | 22.08                | 21.85      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 12RB#13          | 22.05                | 21.82      | 30.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | 22.04                | 21.81      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#0            | 22.01                | 21.78      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#13           | 22.19                | 21.96      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#24           | 22.16                | 21.93      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#0           | 21.18                | 20.95      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#6           | 21.21                | 20.98      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#13          | 21.13                | 20.90      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | 21.26                | 21.03      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#0            | 22.32                | 22.09      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#13           | 22.27                | 22.04      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#24           | 22.28                | 22.05      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 12RB#0           | 21.14                | 20.91      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 12RB#6           | 21.28                | 21.05      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 12RB#13          | 21.15                | 20.92      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 21.18                | 20.95      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#0            | 22.35                | 22.12      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#13           | 22.31                | 22.08      | 30.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#24           | 22.30                | 22.07      | 30.00       | 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](mailto: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



|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#0  | 21.19 | 20.96 | 30.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#6  | 21.32 | 21.09 | 30.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#13 | 21.19 | 20.96 | 30.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 25RB#0  | 21.16 | 20.93 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#0   | 23.05 | 22.82 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#25  | 23.20 | 22.97 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#49  | 23.01 | 22.78 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#0  | 22.13 | 21.90 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#13 | 22.21 | 21.98 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#25 | 22.17 | 21.94 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 50RB#0  | 22.09 | 21.86 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#0   | 22.92 | 22.69 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#25  | 23.04 | 22.81 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#49  | 23.07 | 22.84 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#0  | 22.04 | 21.81 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#13 | 22.07 | 21.84 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#25 | 22.11 | 21.88 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 50RB#0  | 22.17 | 21.94 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#0   | 22.90 | 22.67 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#25  | 23.02 | 22.79 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#49  | 22.80 | 22.57 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#0  | 21.95 | 21.72 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#13 | 21.99 | 21.76 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#25 | 21.92 | 21.69 | 30.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 50RB#0  | 21.99 | 21.76 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0   | 22.21 | 21.98 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#25  | 22.32 | 22.09 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#49  | 22.30 | 22.07 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#0  | 21.04 | 20.81 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#13 | 21.34 | 21.11 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#25 | 21.25 | 21.02 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0  | 21.27 | 21.04 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0   | 22.21 | 21.98 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#25  | 22.45 | 22.22 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#49  | 22.32 | 22.09 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#0  | 21.31 | 21.08 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#13 | 21.23 | 21.00 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#25 | 21.16 | 20.93 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0  | 21.16 | 20.93 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0   | 22.10 | 21.87 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#25  | 22.03 | 21.80 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#49  | 21.83 | 21.60 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#0  | 21.04 | 20.81 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#13 | 20.97 | 20.74 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#25 | 20.98 | 20.75 | 30.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0  | 20.95 | 20.72 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#0   | 22.82 | 22.59 | 30.00 | 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](mailto: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



|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 15MHz | QPSK  | 20825 | 1RB#38  | 23.11 | 22.88 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#74  | 22.98 | 22.75 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 36RB#0  | 22.01 | 21.78 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 36RB#18 | 22.11 | 21.88 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 36RB#39 | 22.21 | 21.98 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 75RB#0  | 22.14 | 21.91 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#0   | 22.78 | 22.55 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#38  | 22.99 | 22.76 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#74  | 22.92 | 22.69 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 36RB#0  | 22.12 | 21.89 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 36RB#18 | 22.17 | 21.94 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 36RB#39 | 22.10 | 21.87 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 75RB#0  | 22.01 | 21.78 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#0   | 22.78 | 22.55 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#38  | 22.84 | 22.61 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#74  | 22.91 | 22.68 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 36RB#0  | 22.04 | 21.81 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 36RB#18 | 22.02 | 21.79 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 36RB#39 | 21.88 | 21.65 | 30.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 75RB#0  | 21.95 | 21.72 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0   | 22.06 | 21.83 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#38  | 22.27 | 22.04 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#74  | 22.12 | 21.89 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 36RB#0  | 21.19 | 20.96 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 36RB#18 | 21.29 | 21.06 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 36RB#39 | 21.30 | 21.07 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0  | 21.20 | 20.97 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0   | 22.08 | 21.85 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#38  | 22.26 | 22.03 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#74  | 22.46 | 22.23 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 36RB#0  | 21.15 | 20.92 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 36RB#18 | 21.16 | 20.93 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 36RB#39 | 21.19 | 20.96 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0  | 21.16 | 20.93 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0   | 22.07 | 21.84 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#38  | 22.05 | 21.82 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#74  | 22.06 | 21.83 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 36RB#0  | 20.99 | 20.76 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 36RB#18 | 21.06 | 20.83 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 36RB#39 | 20.96 | 20.73 | 30.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0  | 21.01 | 20.78 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#0   | 22.86 | 22.63 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#50  | 23.05 | 22.82 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#99  | 22.83 | 22.60 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#0  | 22.10 | 21.87 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#25 | 22.16 | 21.93 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#50 | 22.22 | 21.99 | 30.00 | 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](mailto:CN.Doccheck@sgs.com)

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

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



|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 20MHz | QPSK  | 20850 | 100RB#0 | 22.24 | 22.01 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#0   | 22.83 | 22.60 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#50  | 23.32 | 23.09 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#99  | 22.75 | 22.52 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#0  | 22.04 | 21.81 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#25 | 22.12 | 21.89 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#50 | 22.07 | 21.84 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 100RB#0 | 22.15 | 21.92 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#0   | 22.78 | 22.55 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#50  | 23.12 | 22.89 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#99  | 22.79 | 22.56 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#0  | 21.97 | 21.74 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#25 | 22.05 | 21.82 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#50 | 21.96 | 21.73 | 30.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | 21.93 | 21.70 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0   | 21.85 | 21.62 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#50  | 22.42 | 22.19 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#99  | 22.38 | 22.15 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#0  | 21.16 | 20.93 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#25 | 21.26 | 21.03 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#50 | 21.32 | 21.09 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 21.24 | 21.01 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0   | 22.32 | 22.09 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#50  | 22.47 | 22.24 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#99  | 22.41 | 22.18 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#0  | 21.20 | 20.97 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#25 | 21.24 | 21.01 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#50 | 21.24 | 21.01 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 21.21 | 20.98 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0   | 21.98 | 21.75 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#50  | 22.48 | 22.25 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#99  | 21.64 | 21.41 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#0  | 21.04 | 20.81 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#25 | 21.03 | 20.80 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#50 | 20.81 | 20.58 | 30.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 20.85 | 20.62 | 30.00 | 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-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](mailto:CN.Doccheck@sgs.com)

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

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

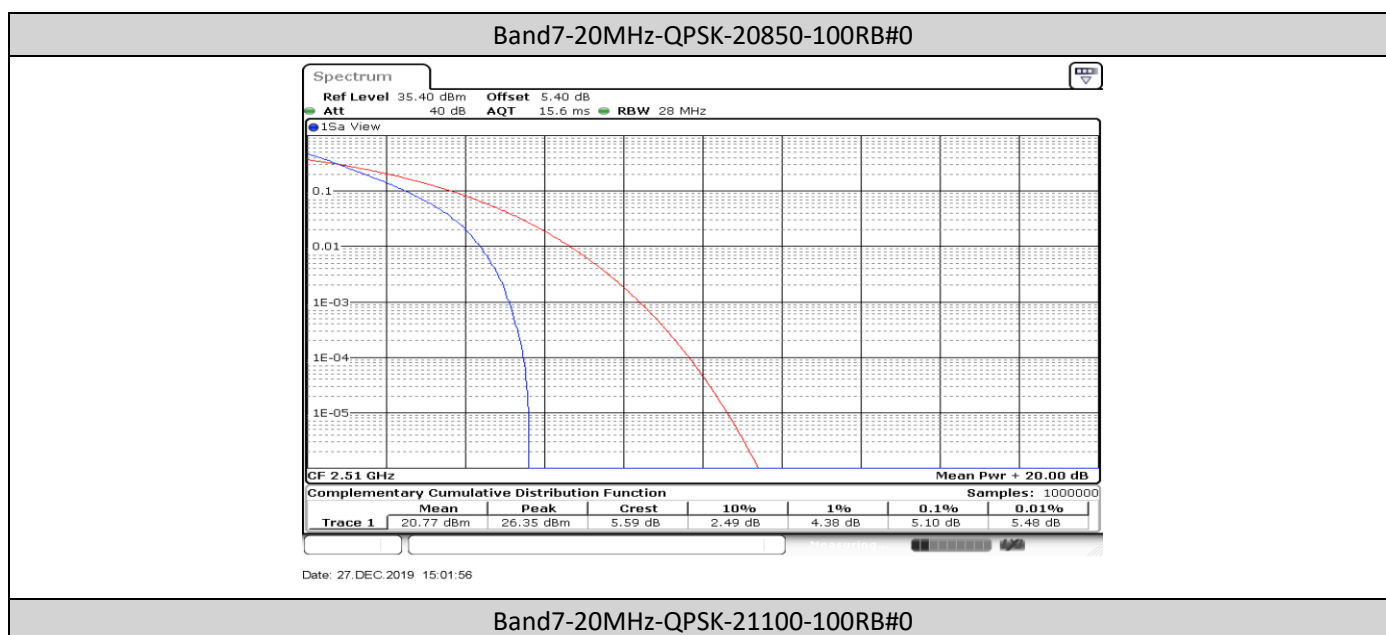


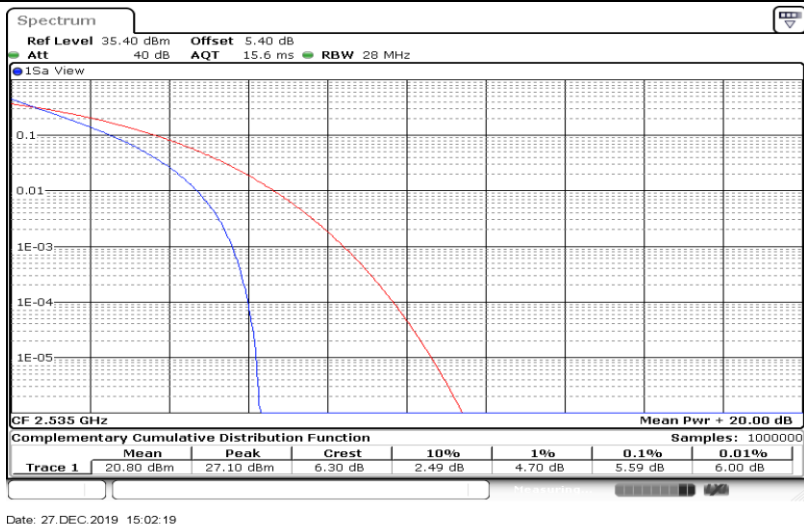
## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | 5.10       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 5.59       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | 5.16       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | 5.97       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | 6.43       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | 6.03       | 13        | PASS    |

### 2.2. Test Plots



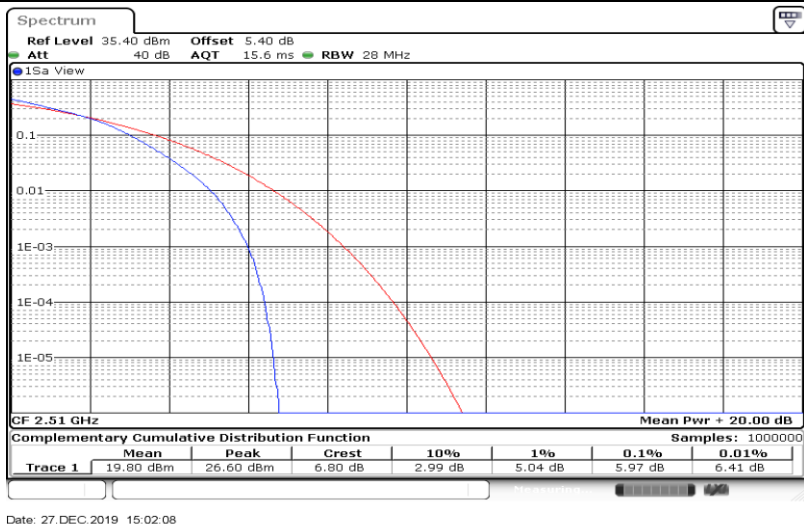


Band7-20MHz-QPSK-21350-100RB#0

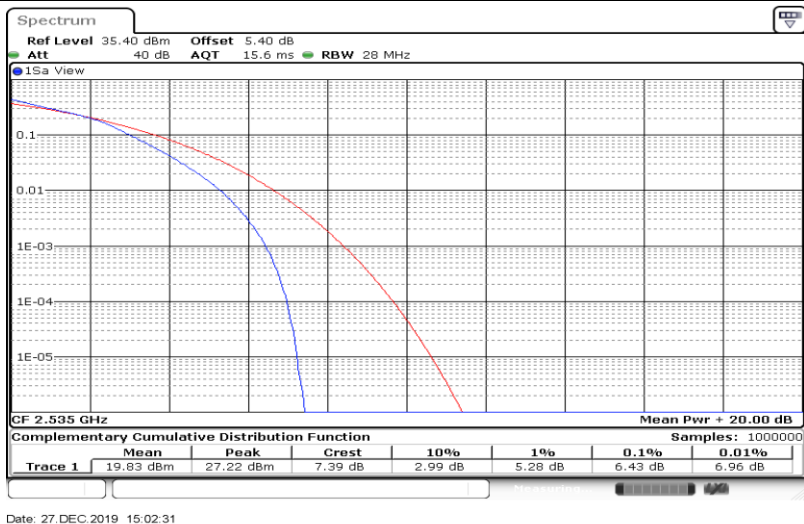


Band7-20MHz-16QAM-20850-100RB#0



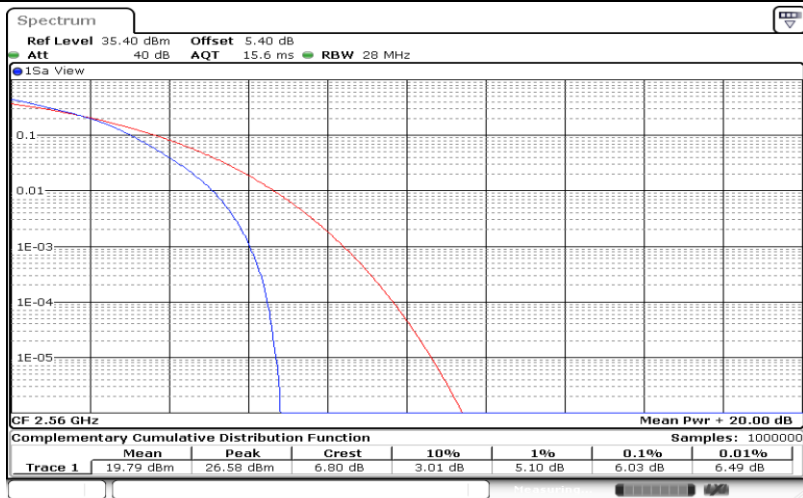


Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-100RB#0





Date: 27.DEC.2019 15:02:53

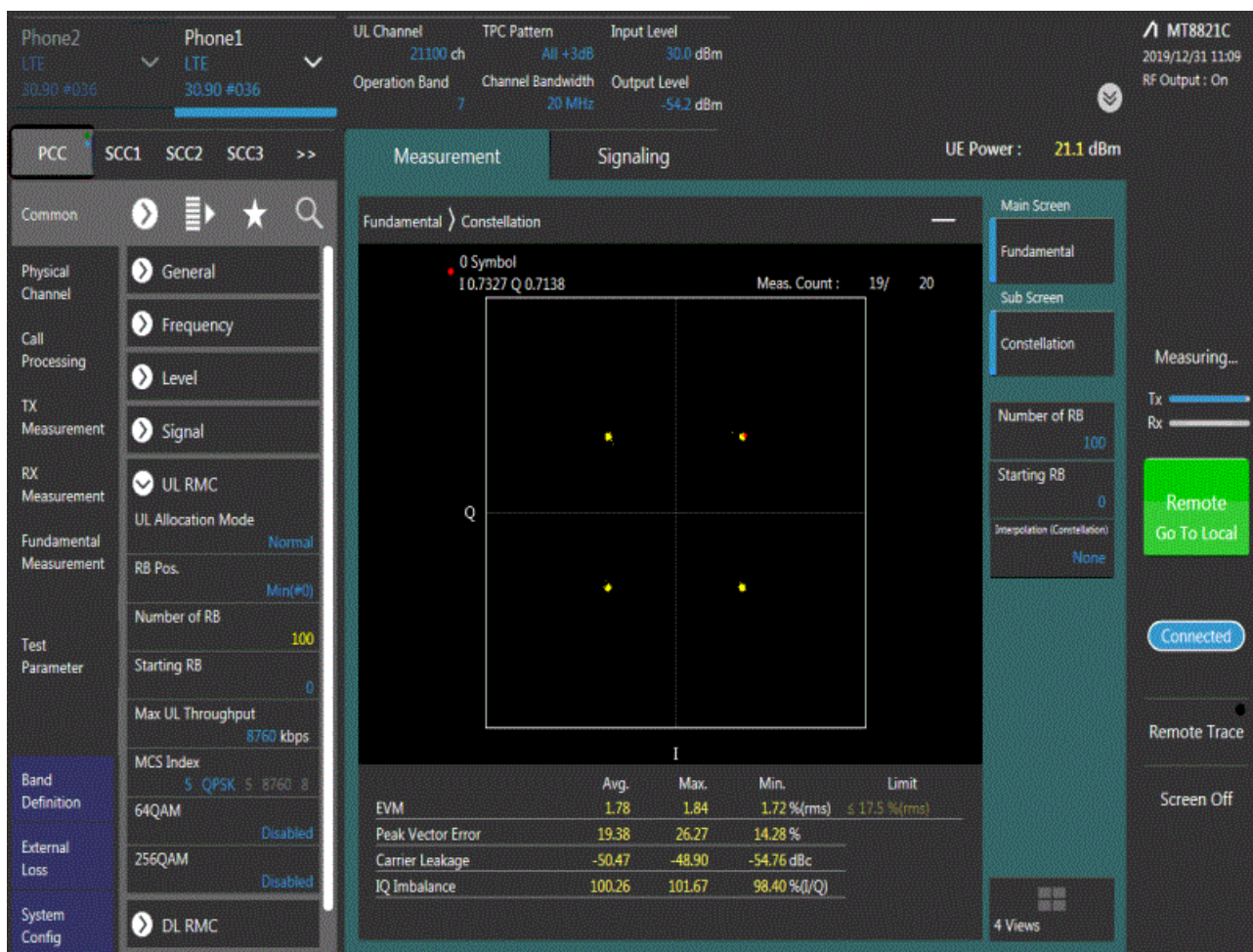


### 3. Modulation Characteristics

#### 3.1. Test Band = LTE Band 7

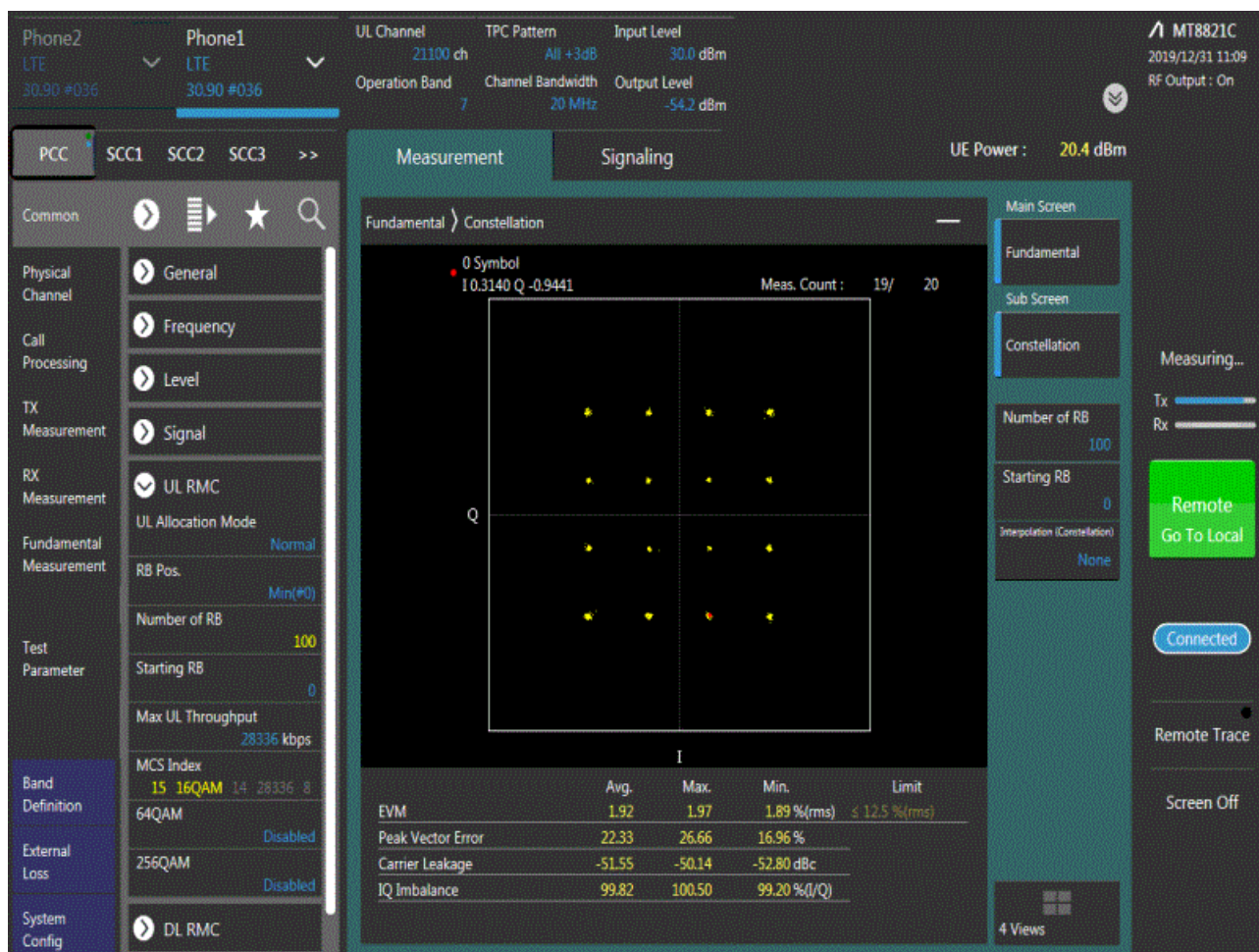
##### 3.1.1. Test Mode = LTE /TM1 20MHz

##### 3.1.1.1. Test Channel = MCH



### 3.1.2. Test Mode = LTE /TM2 20MHz

#### 3.1.2.1. Test Channel = MCH





## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 4.476                    | 4.720                | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 4.486                    | 4.790                | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | 4.476                    | 4.750                | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | 4.476                    | 4.770                | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 4.476                    | 4.800                | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 25RB#0           | 4.496                    | 4.750                | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 50RB#0           | 8.931                    | 9.620                | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 50RB#0           | 8.991                    | 9.420                | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 50RB#0           | 8.991                    | 9.440                | PASS    |
| Band7 | 10MHz     | 16QAM      | 20800   | 50RB#0           | 8.991                    | 9.440                | PASS    |
| Band7 | 10MHz     | 16QAM      | 21100   | 50RB#0           | 8.931                    | 9.340                | PASS    |
| Band7 | 10MHz     | 16QAM      | 21400   | 50RB#0           | 8.931                    | 10.380               | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 75RB#0           | 13.576                   | 14.640               | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 75RB#0           | 13.606                   | 14.520               | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 75RB#0           | 13.576                   | 14.490               | PASS    |
| Band7 | 15MHz     | 16QAM      | 20825   | 75RB#0           | 13.606                   | 14.550               | PASS    |
| Band7 | 15MHz     | 16QAM      | 21100   | 75RB#0           | 13.606                   | 14.490               | PASS    |
| Band7 | 15MHz     | 16QAM      | 21375   | 75RB#0           | 13.546                   | 14.460               | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | 18.062                   | 19.120               | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 18.062                   | 19.120               | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | 18.022                   | 19.160               | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | 18.062                   | 19.080               | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | 18.102                   | 19.040               | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | 18.022                   | 19.120               | PASS    |

### 4.2. Test Plots

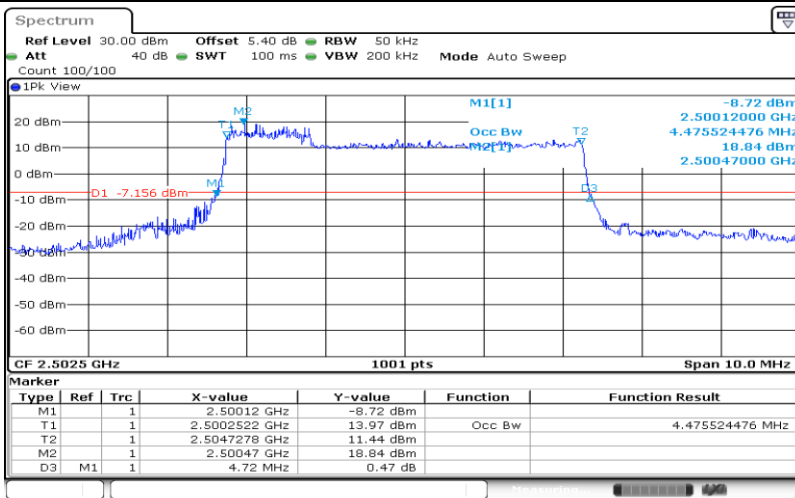
Band7-5MHz-QPSK-20775-25RB#0-4.476



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

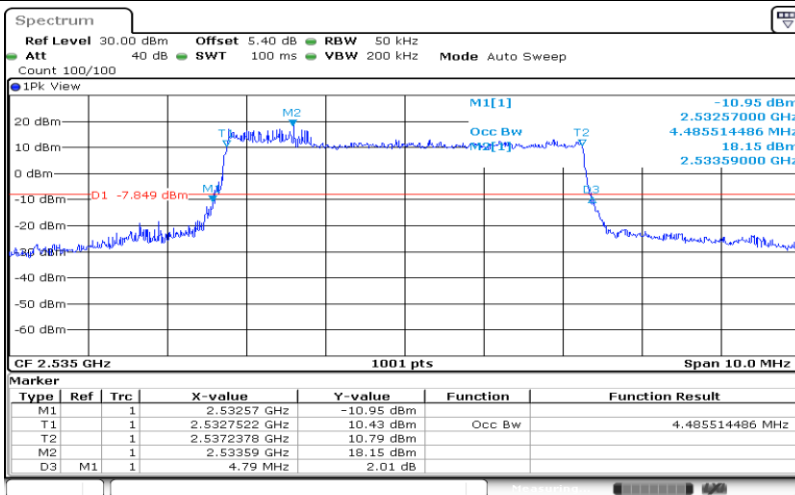
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch (SGS-CSTC Laboratory)

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



Date: 27.DEC.2019 14:40:32

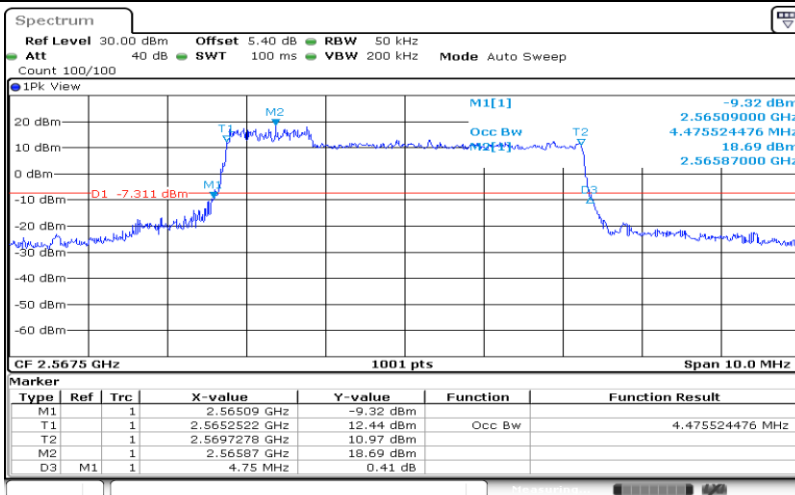
## Band7-5MHz-QPSK-21100-25RB#0-4.486



Date: 27.DEC.2019 14:41:12

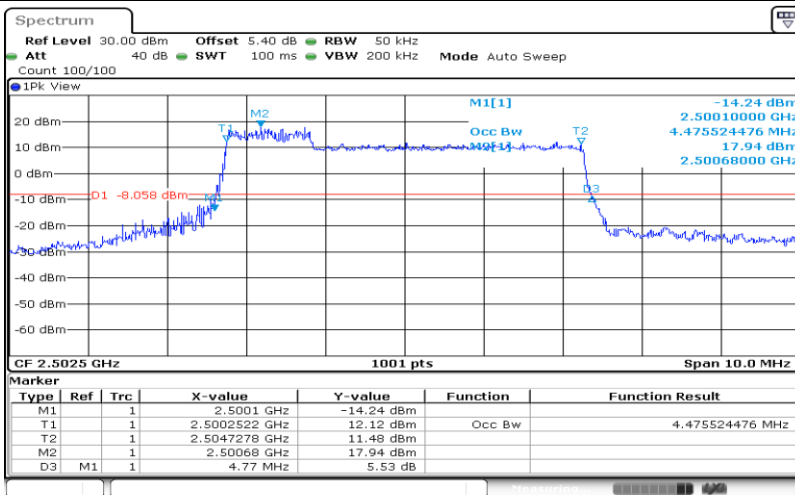
## Band7-5MHz-QPSK-21425-25RB#0-4.476





Date: 27.DEC.2019 14:41:52

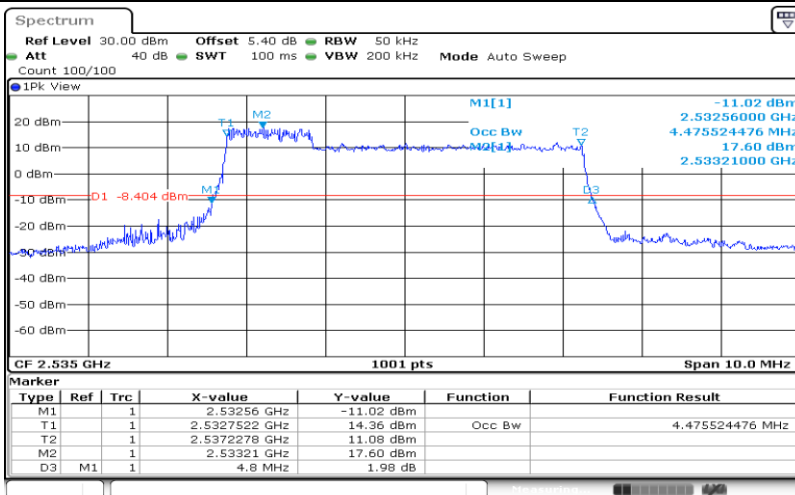
## Band7-5MHz-16QAM-20775-25RB#0-4.476



Date: 27.DEC.2019 14:40:52

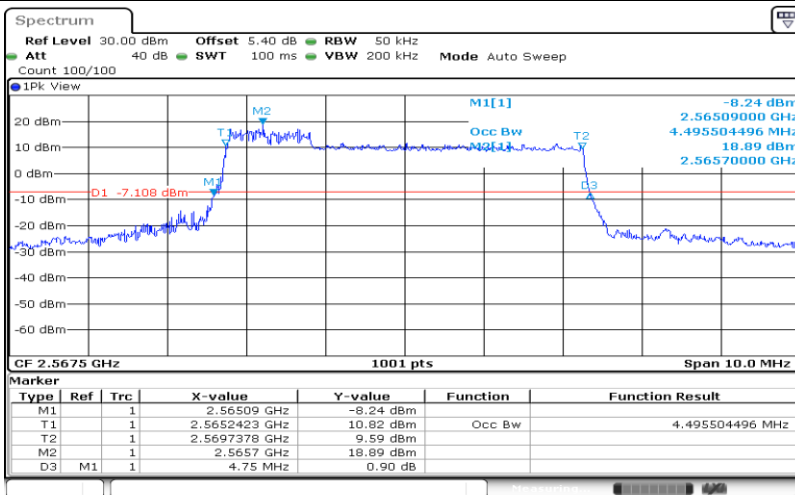
## Band7-5MHz-16QAM-21100-25RB#0-4.476





Date: 27.DEC.2019 14:41:32

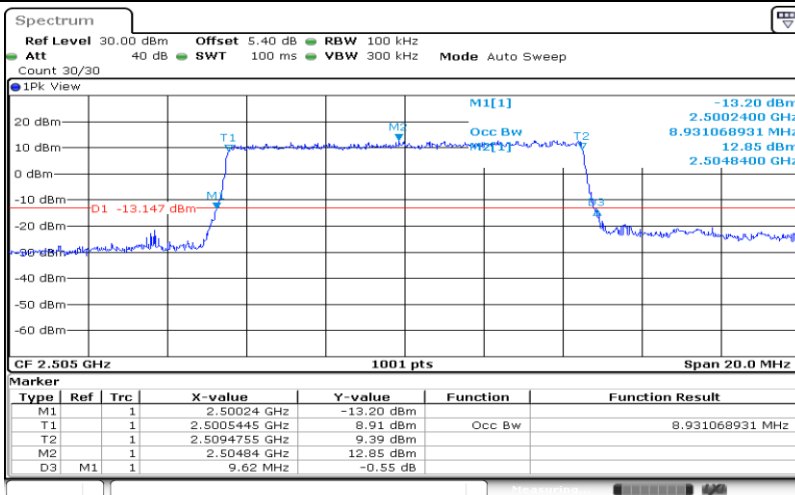
## Band7-5MHz-16QAM-21425-25RB#0-4.496



Date: 27.DEC.2019 14:42:12

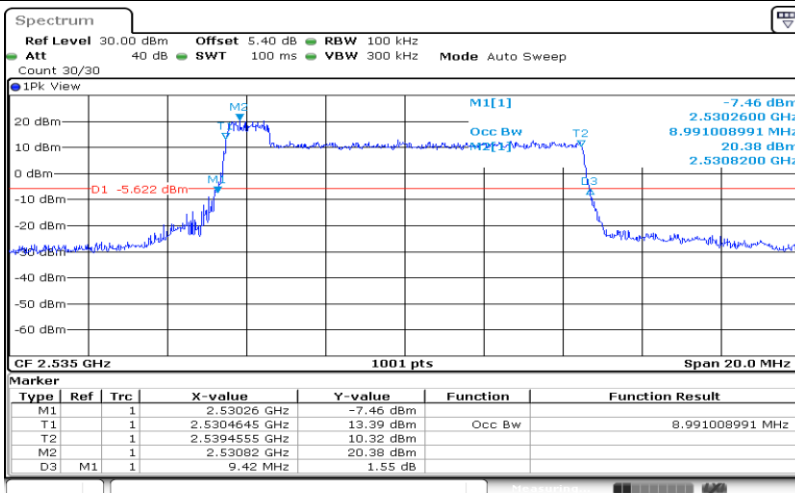
## Band7-10MHz-QPSK-20800-50RB#0-8.931





Date: 27.DEC.2019 14:42:30

## Band7-10MHz-QPSK-21100-50RB#0-8.991



Date: 27.DEC.2019 14:42:55

## Band7-10MHz-QPSK-21400-50RB#0-8.991

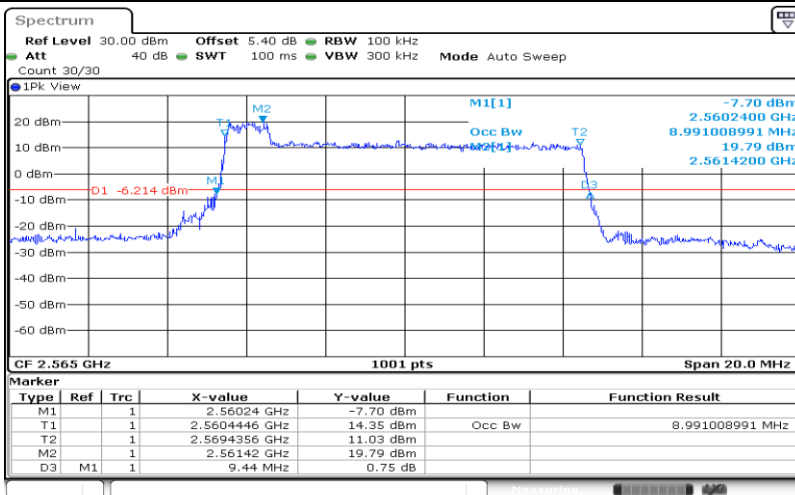


SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch (CCC Laboratory)

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

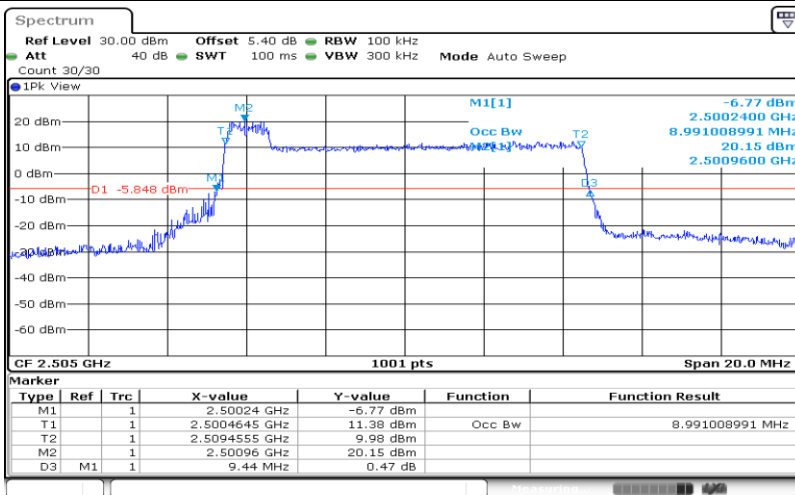
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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



Date: 27.DEC.2019 14:43:21

## Band7-10MHz-16QAM-20800-50RB#0-8.991



Date: 27.DEC.2019 14:42:43

## Band7-10MHz-16QAM-21100-50RB#0-8.931

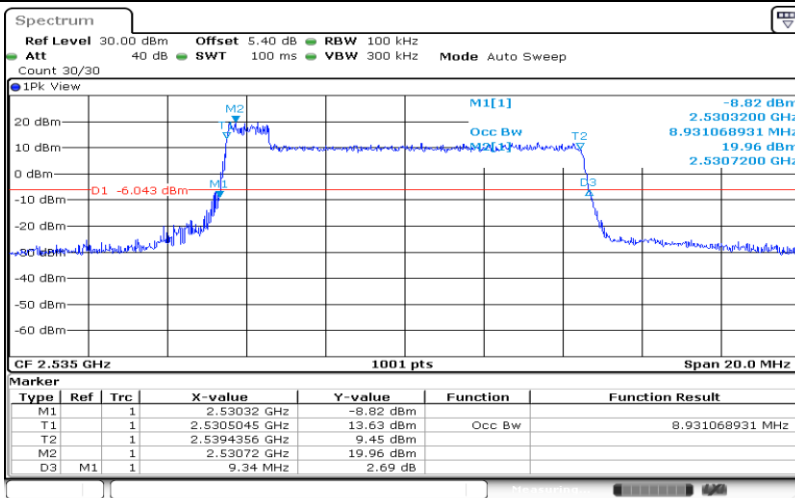


SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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.

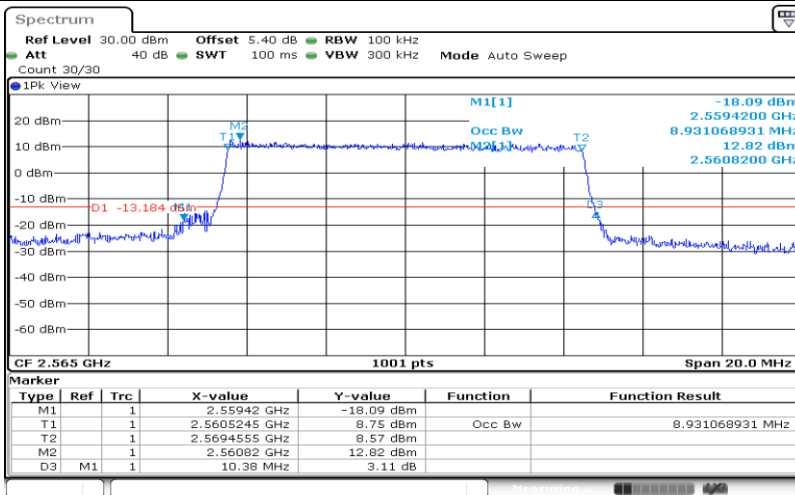
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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



Date: 27.DEC.2019 14:43:08

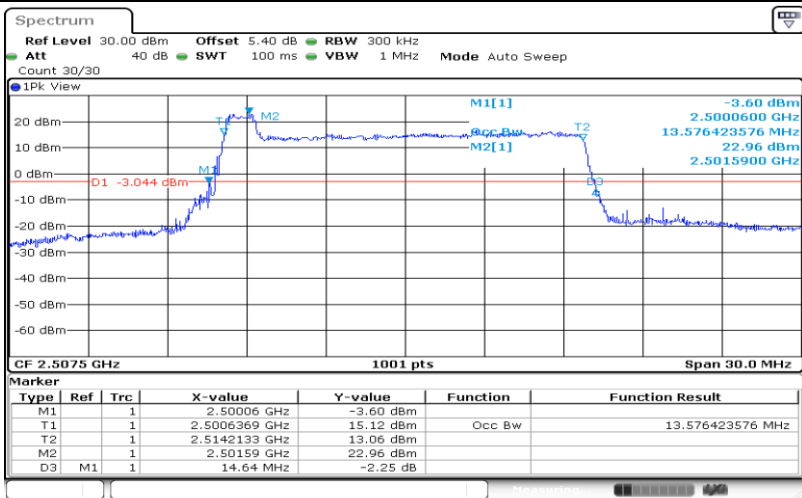
## Band7-10MHz-16QAM-21400-50RB#0-8.931



Date: 27.DEC.2019 14:43:34

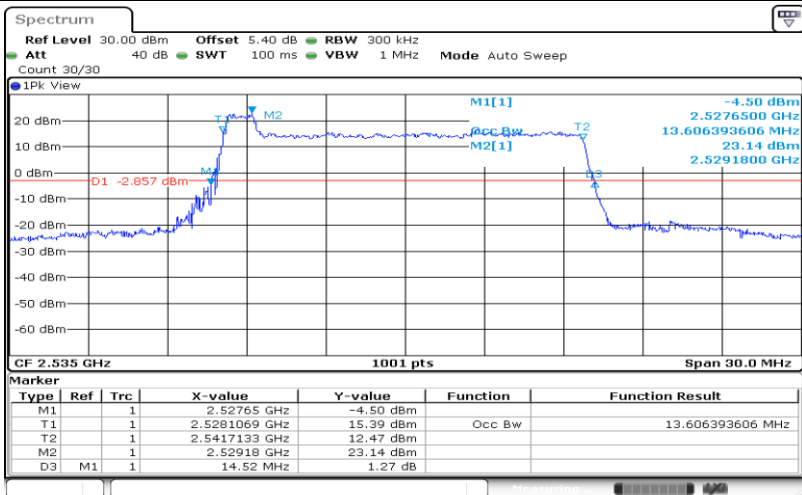
## Band7-15MHz-QPSK-20825-75RB#0-13.576





Date: 27.DEC.2019 14:43:52

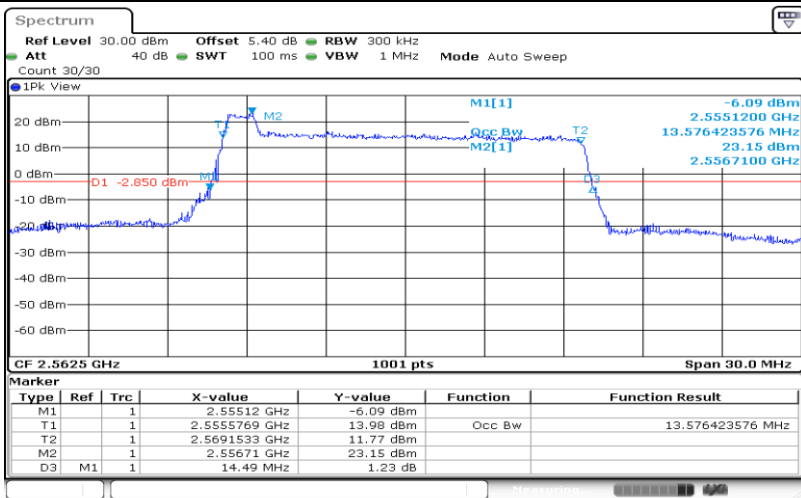
## Band7-15MHz-QPSK-21100-75RB#0-13.606



Date: 27.DEC.2019 14:44:18

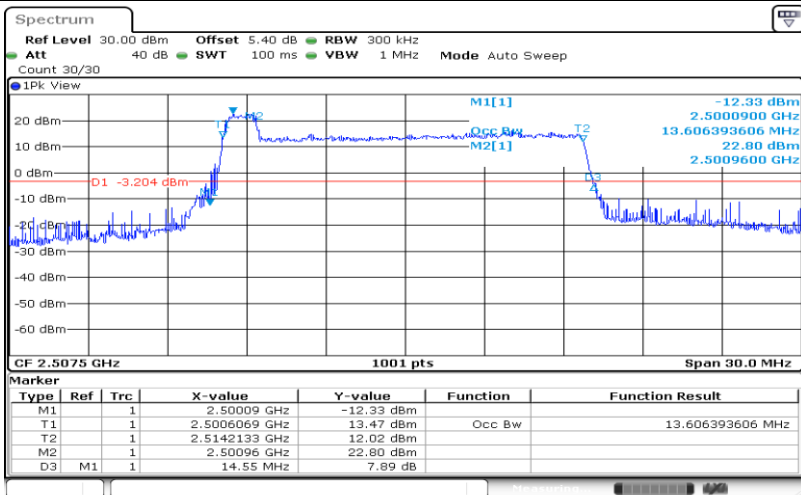
## Band7-15MHz-QPSK-21375-75RB#0-13.576





Date: 27.DEC.2019 14:44:43

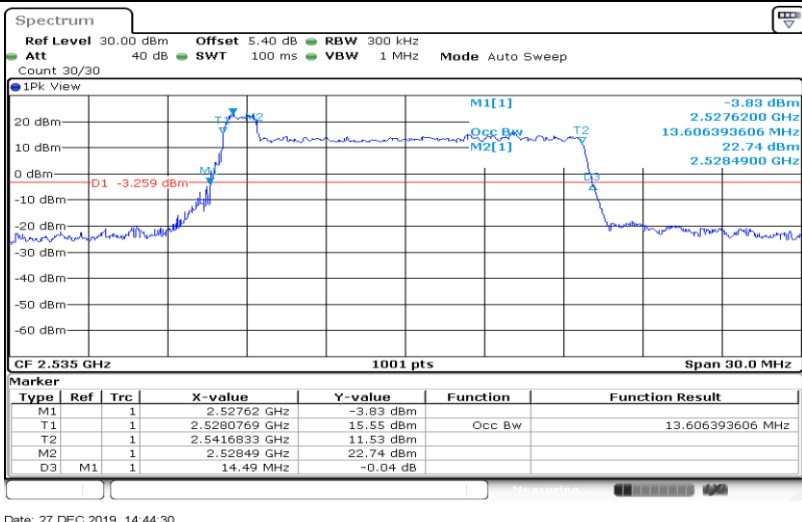
## Band7-15MHz-16QAM-20825-75RB#0-13.606



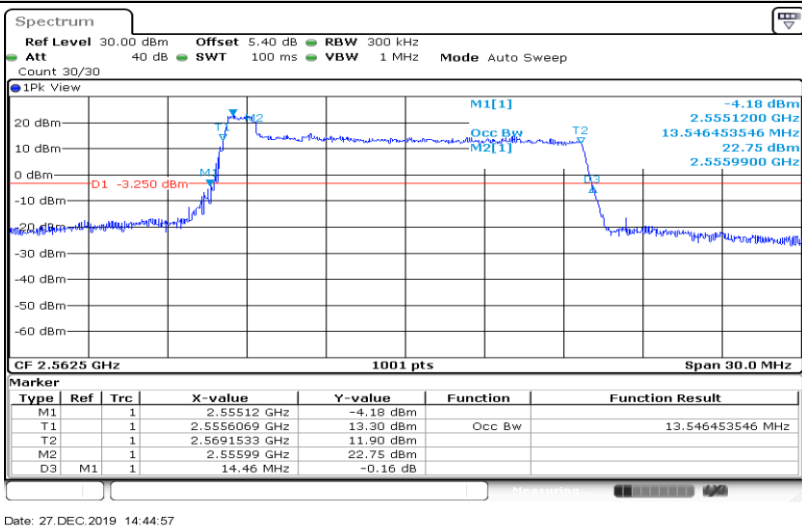
Date: 27.DEC.2019 14:44:05

## Band7-15MHz-16QAM-21100-75RB#0-13.606



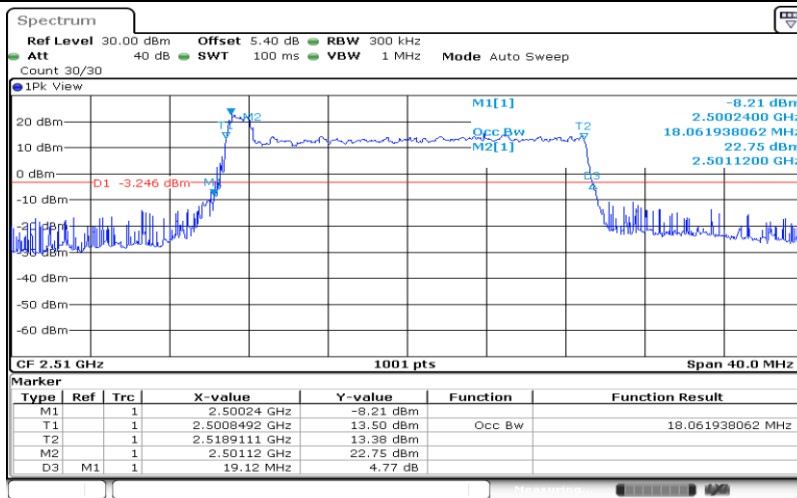


## Band7-15MHz-16QAM-21375-75RB#0-13.546



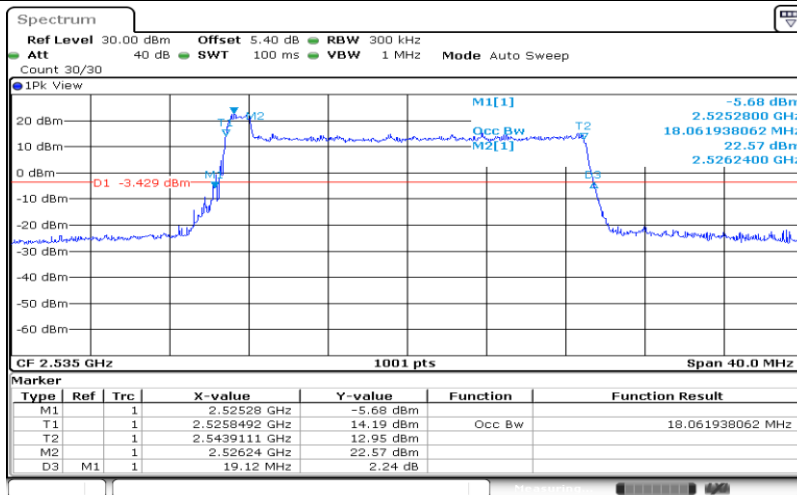
## Band7-20MHz-QPSK-20850-100RB#0-18.062





Date: 27.DEC.2019 14:45:14

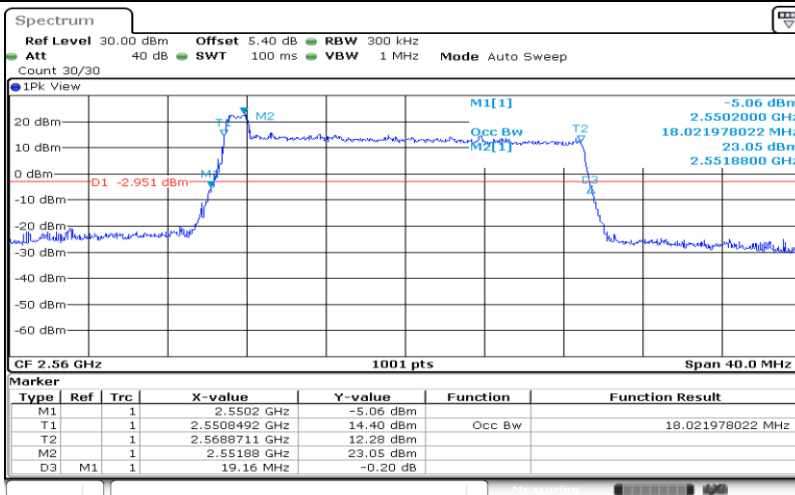
## Band7-20MHz-QPSK-21100-100RB#0-18.062



Date: 27.DEC.2019 14:45:40

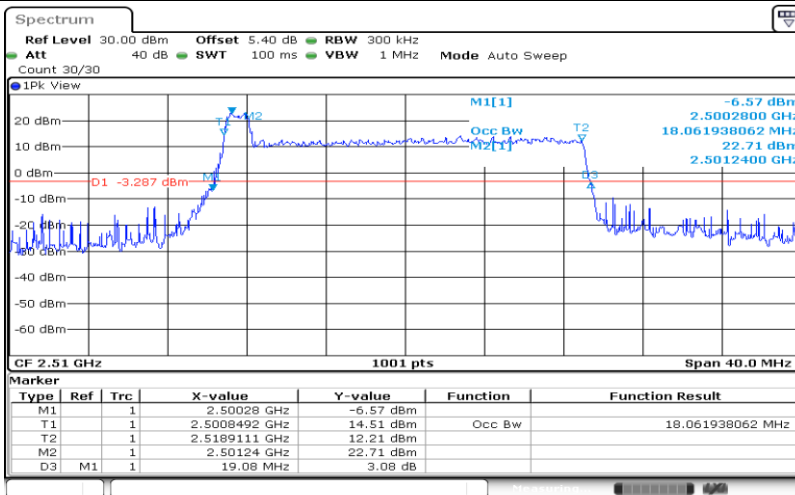
## Band7-20MHz-QPSK-21350-100RB#0-18.022





Date: 27.DEC.2019 14:46:07

## Band7-20MHz-16QAM-20850-100RB#0-18.062



Date: 27.DEC.2019 14:45:27

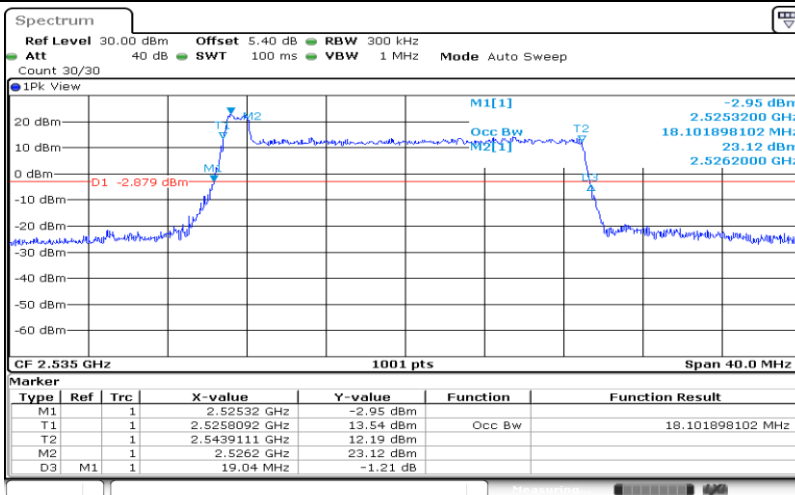
## Band7-20MHz-16QAM-21100-100RB#0-18.102

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

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

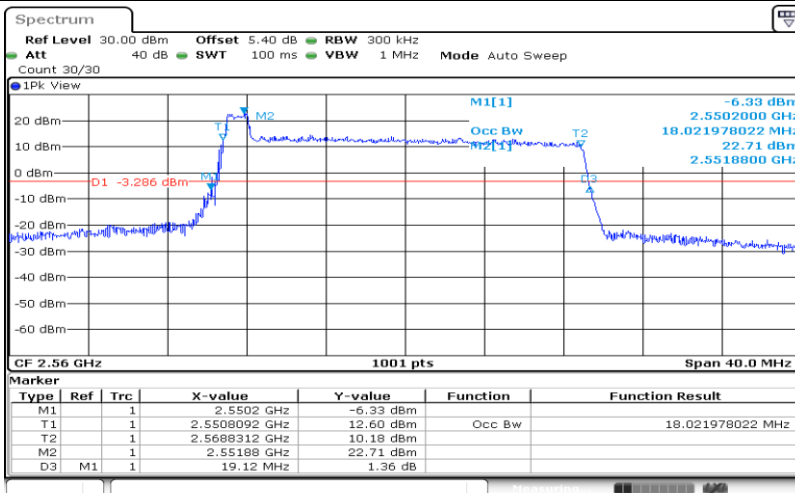
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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



Date: 27.DEC.2019 14:45:54

## Band7-20MHz-16QAM-21350-100RB#0-18.022



Date: 27.DEC.2019 14:46:19



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

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

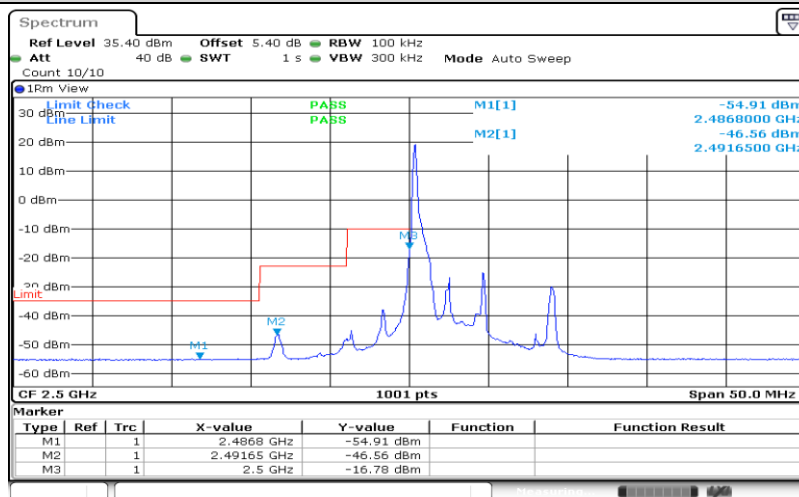
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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

## 5. Band Edge Compliance

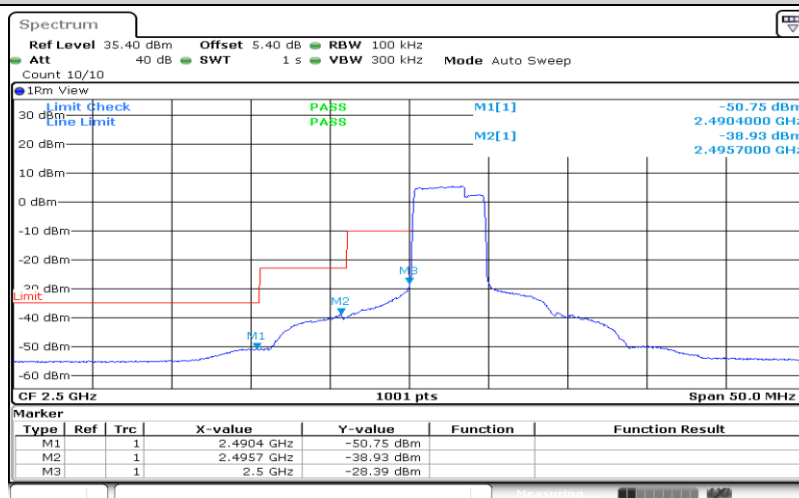
### 5.1. Test Plots

Band7-5MHz-QPSK-20775-1RB#0



Date: 27.DEC.2019 14:46:45

Band7-5MHz-QPSK-20775-25RB#0



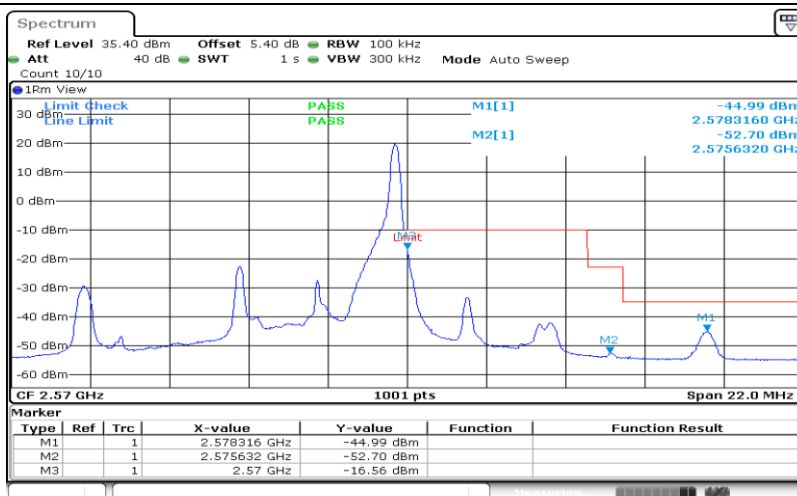
Date: 27.DEC.2019 14:48:15

Band7-5MHz-QPSK-21425-1RB#24



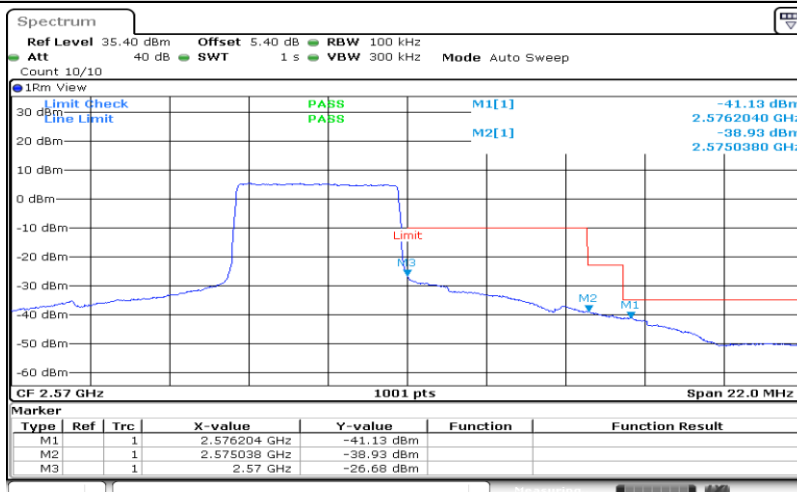
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 27.DEC.2019 14:47:30

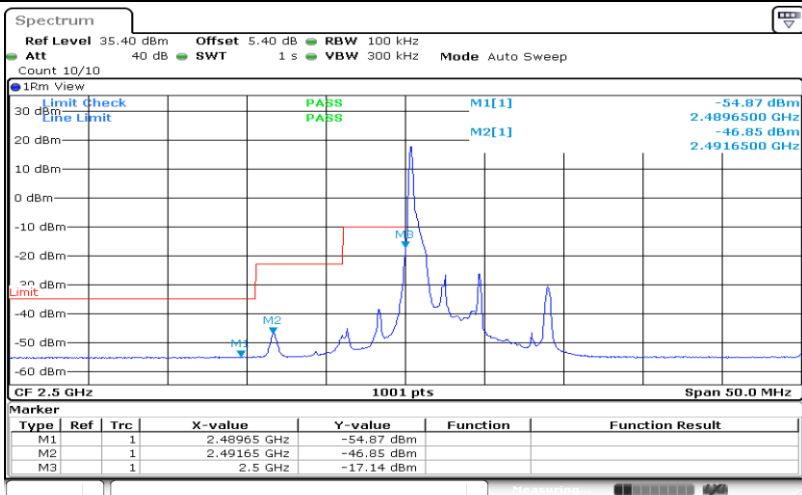
### Band7-5MHz-QPSK-21425-25RB#0



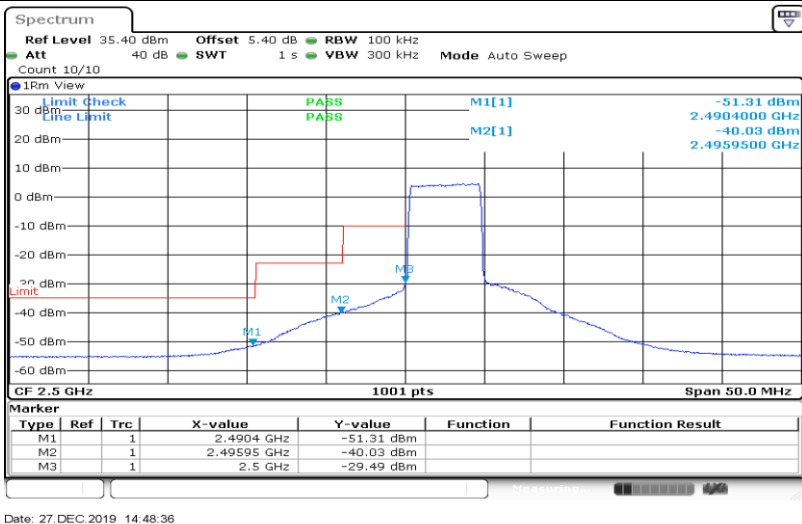
Date: 27.DEC.2019 14:48:56

### Band7-5MHz-16QAM-20775-1RB#0



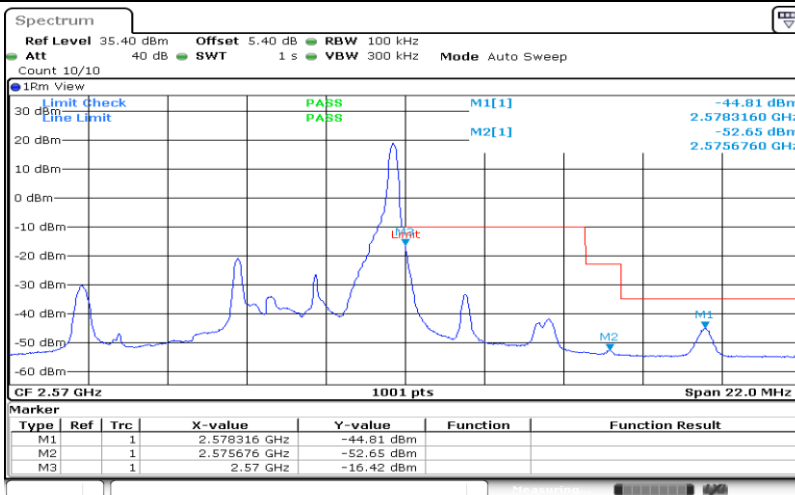


## Band7-5MHz-16QAM-20775-25RB#0

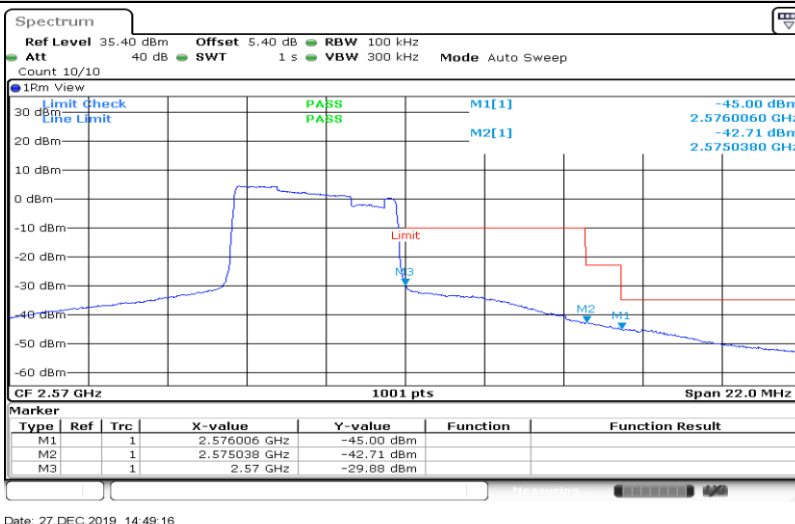


## Band7-5MHz-16QAM-21425-1RB#24



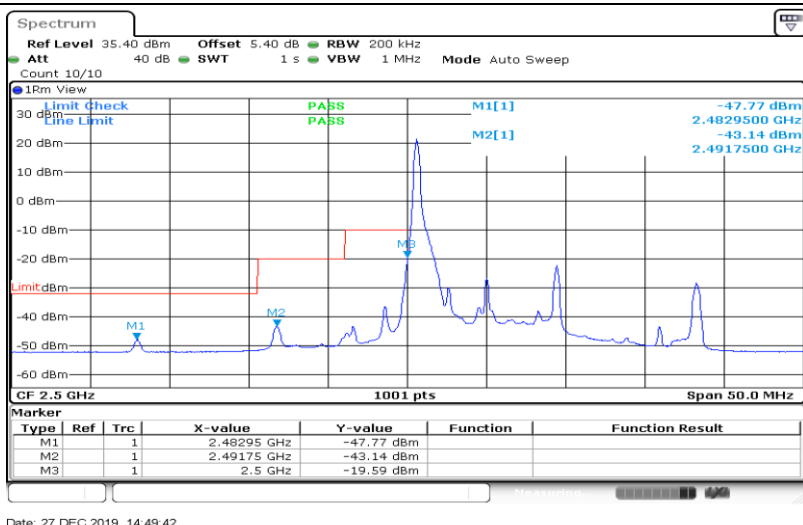


## Band7-5MHz-16QAM-21425-25RB#0

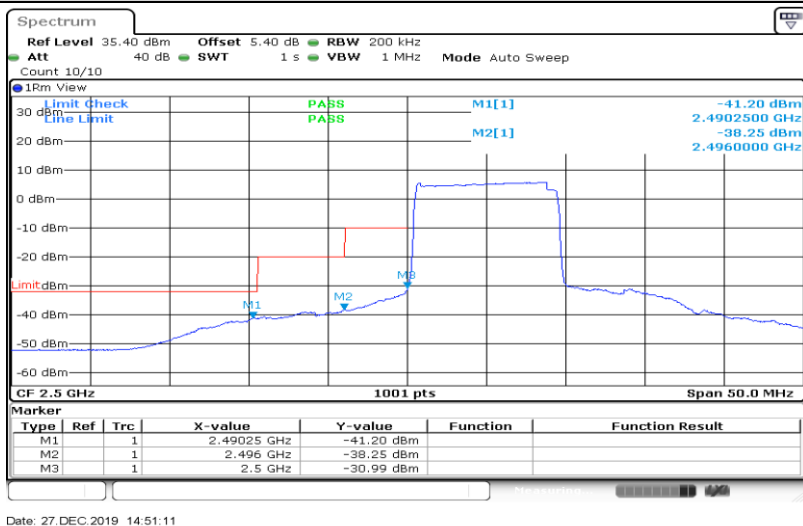


## Band7-10MHz-QPSK-20800-1RB#0





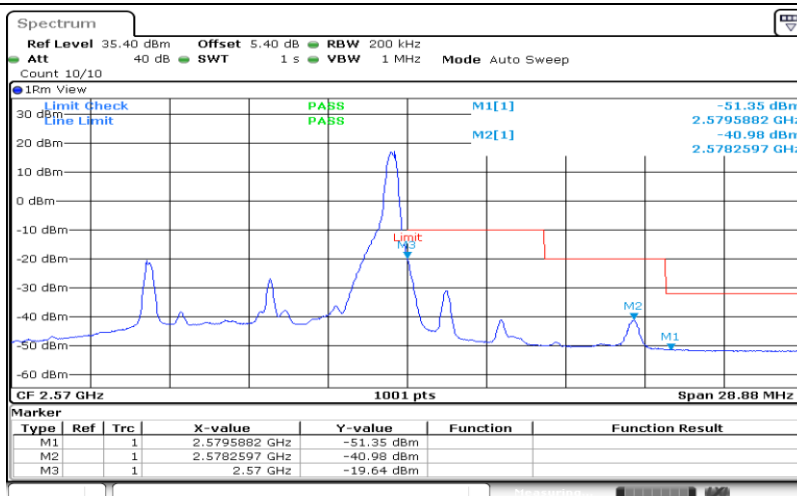
Band7-10MHz-QPSK-20800-50RB#0



Band7-10MHz-QPSK-21400-1RB#49

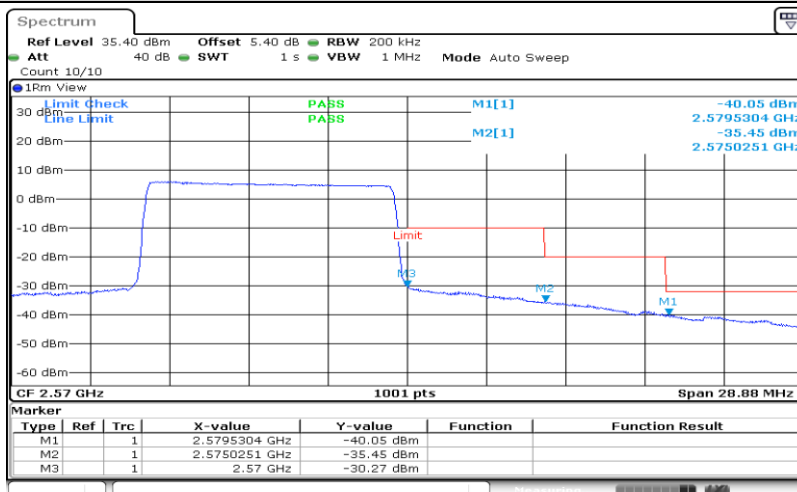


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 27.DEC.2019 14:50:26

### Band7-10MHz-QPSK-21400-50RB#0



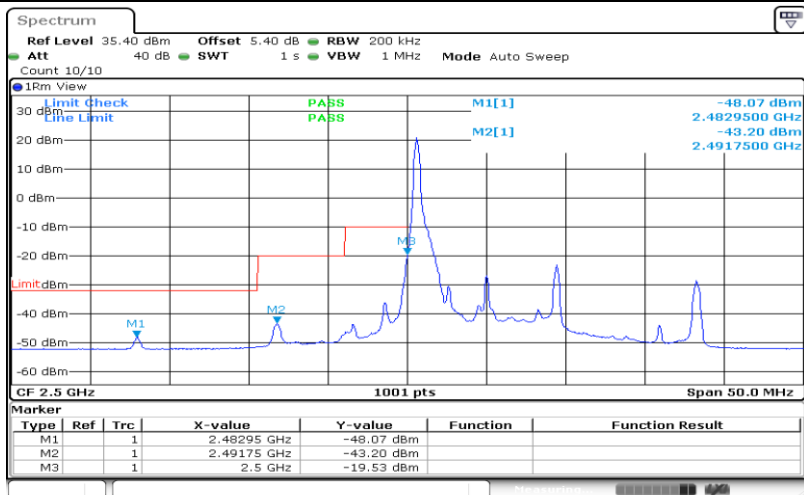
Date: 27.DEC.2019 14:51:52

### Band7-10MHz-16QAM-20800-1RB#0



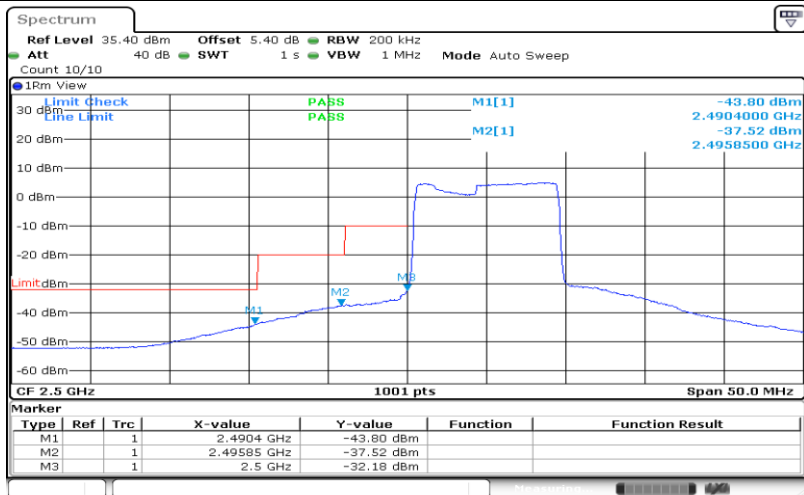
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 27.DEC.2019 14:50:02

### Band7-10MHz-16QAM-20800-50RB#0



Date: 27.DEC.2019 14:51:32

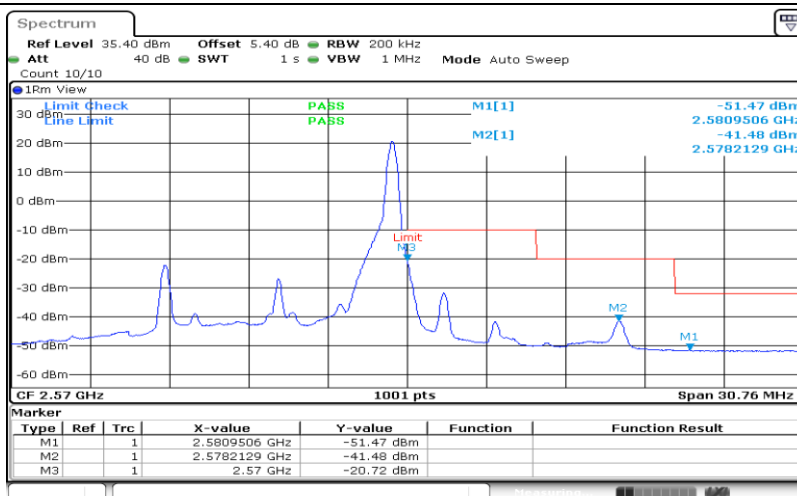
### Band7-10MHz-16QAM-21400-1RB#49



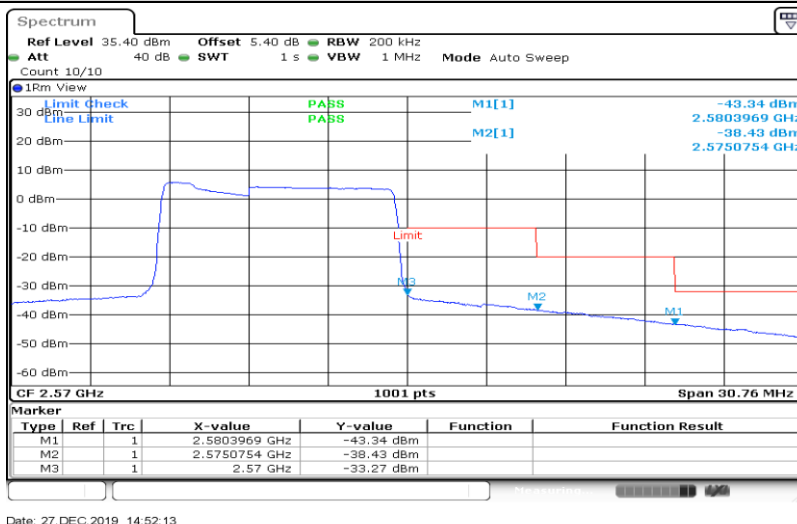
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch (CCC Laboratory)

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

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

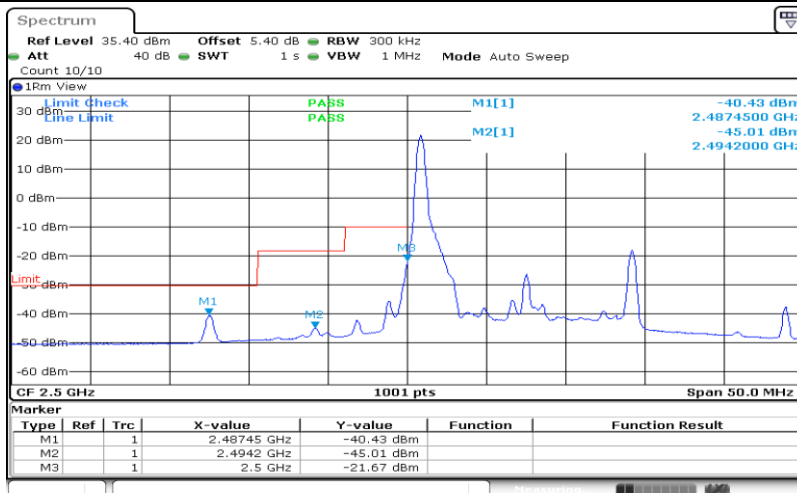


## Band7-10MHz-16QAM-21400-50RB#0



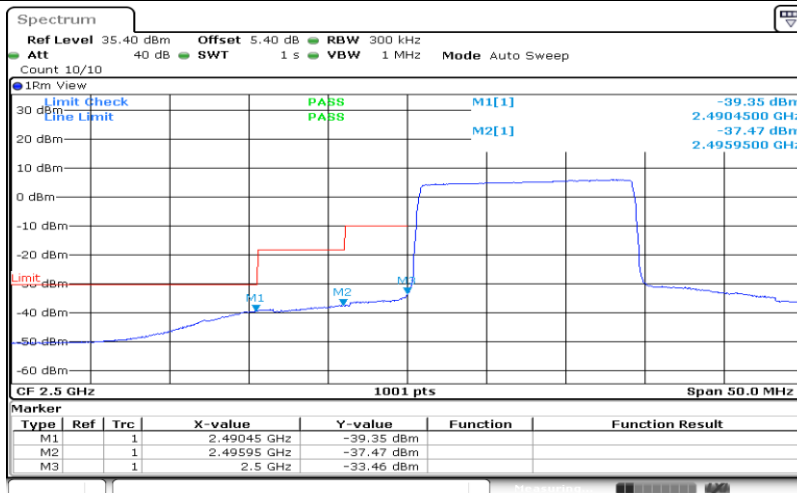
## Band7-15MHz-QPSK-20825-1RB#0





Date: 27.DEC.2019 14:52:38

### Band7-15MHz-QPSK-20825-75RB#0



Date: 27.DEC.2019 14:54:08

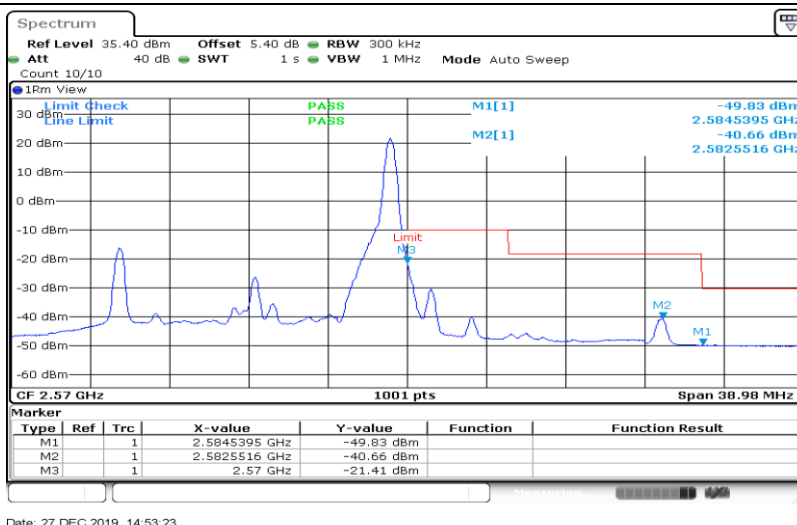
### Band7-15MHz-QPSK-21375-1RB#74



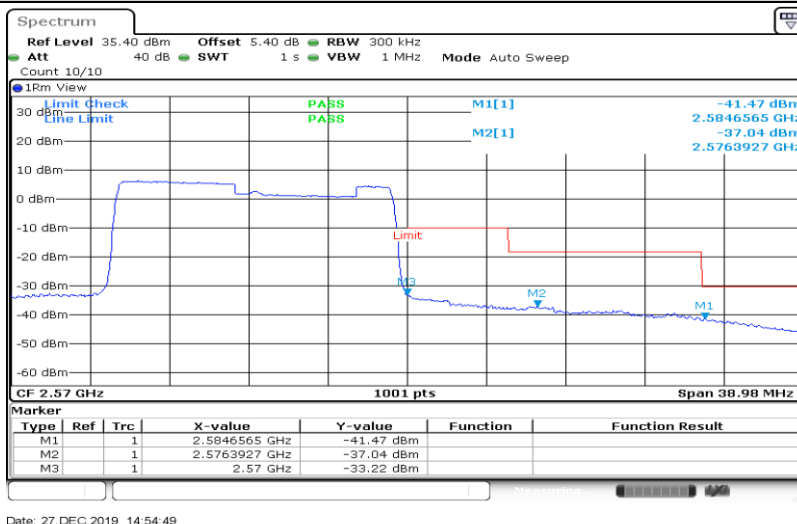
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch (CCC Laboratory)

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

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

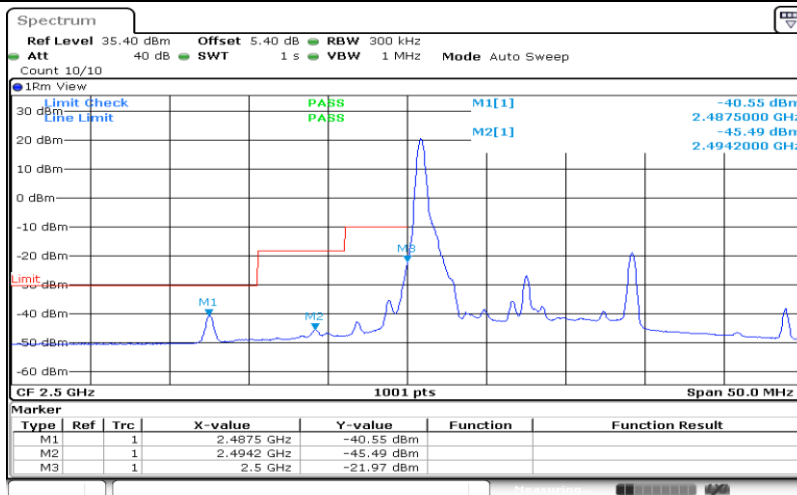


## Band7-15MHz-QPSK-21375-75RB#0



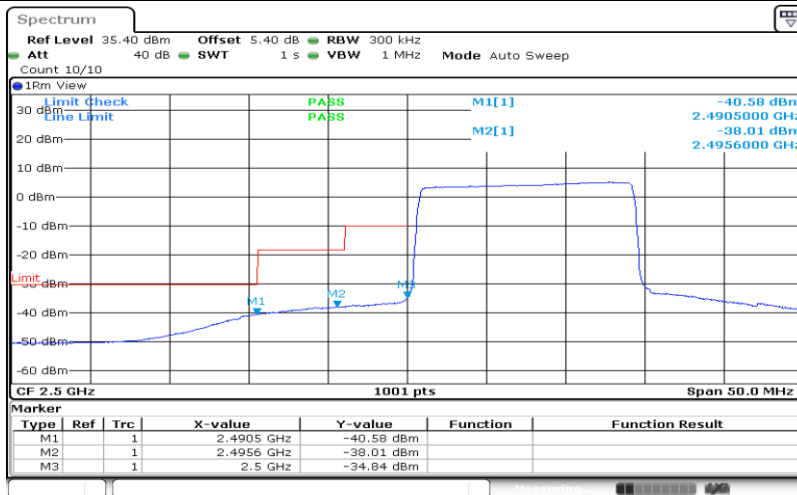
## Band7-15MHz-16QAM-20825-1RB#0





Date: 27.DEC.2019 14:52:58

### Band7-15MHz-16QAM-20825-75RB#0



Date: 27.DEC.2019 14:54:28

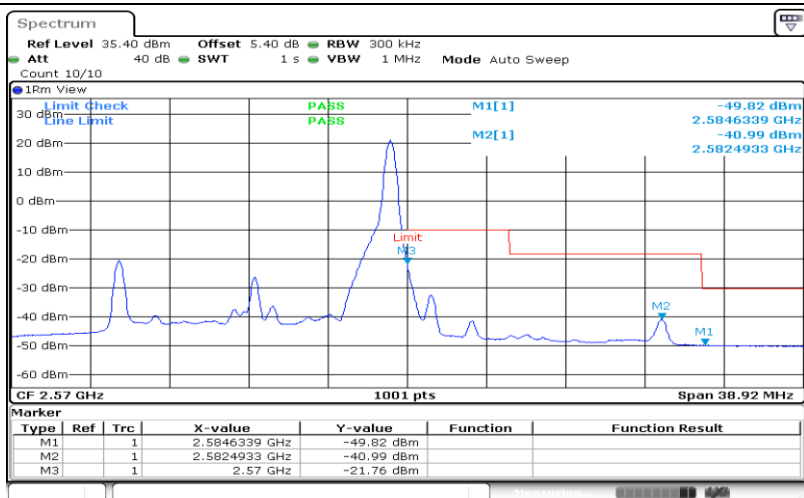
### Band7-15MHz-16QAM-21375-1RB#74



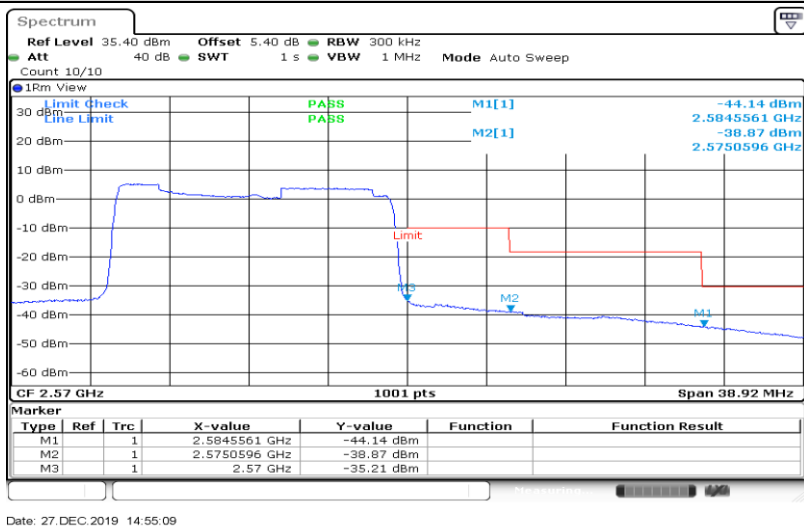
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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 and certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto: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

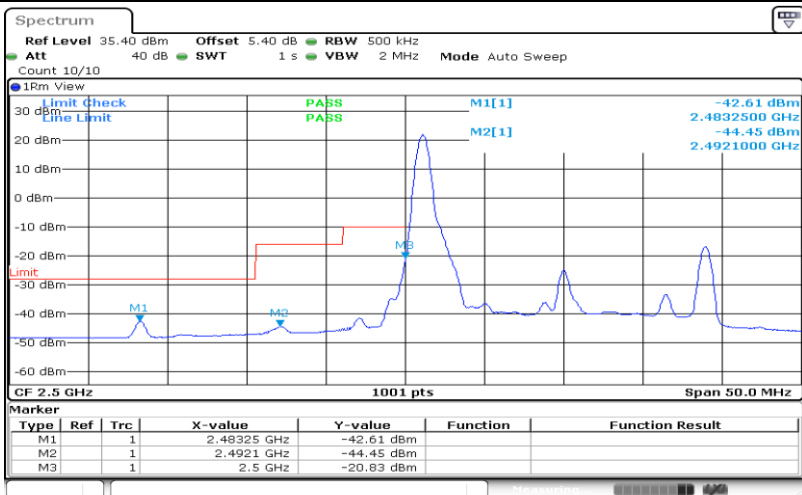


## Band7-15MHz-16QAM-21375-75RB#0



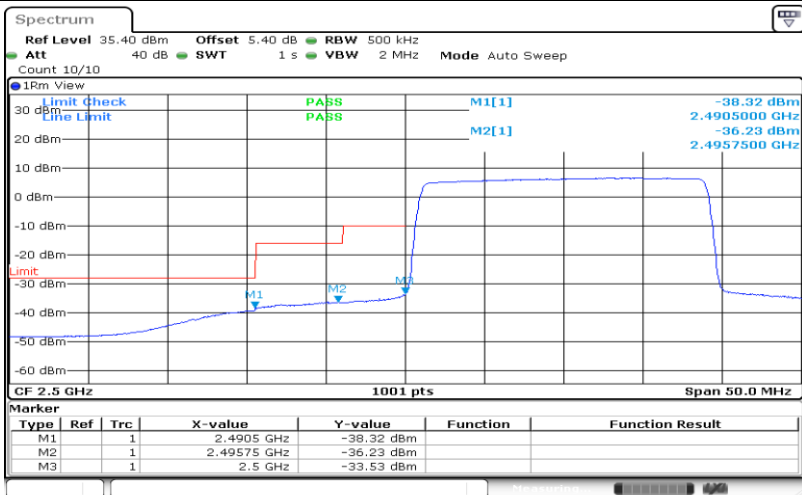
## Band7-20MHz-QPSK-20850-1RB#0





Date: 27.DEC.2019 14:55:34

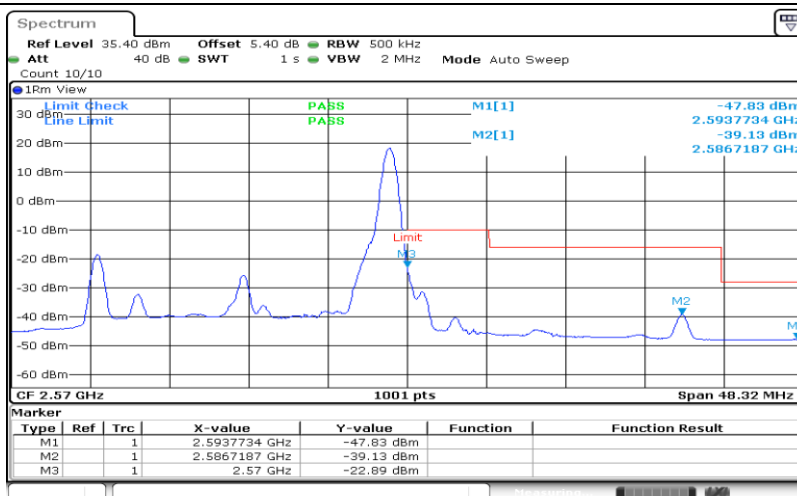
## Band7-20MHz-QPSK-20850-100RB#0



Date: 27.DEC.2019 14:57:04

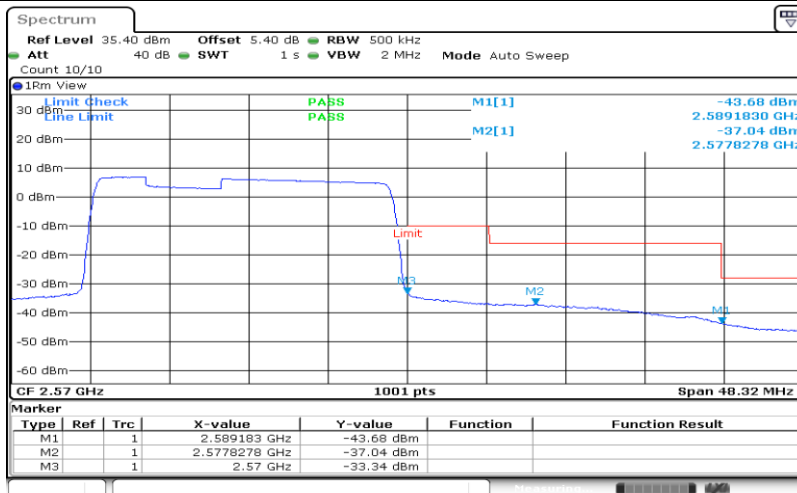
## Band7-20MHz-QPSK-21350-1RB#99





Date: 27.DEC.2019 14:56:19

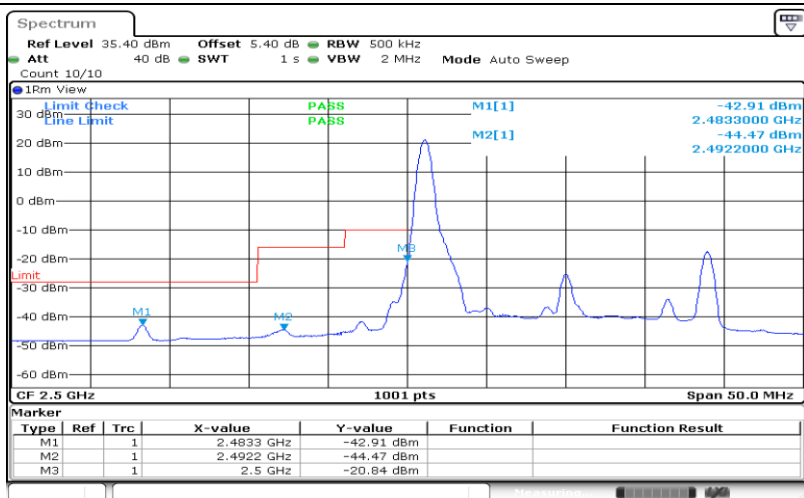
### Band7-20MHz-QPSK-21350-100RB#0



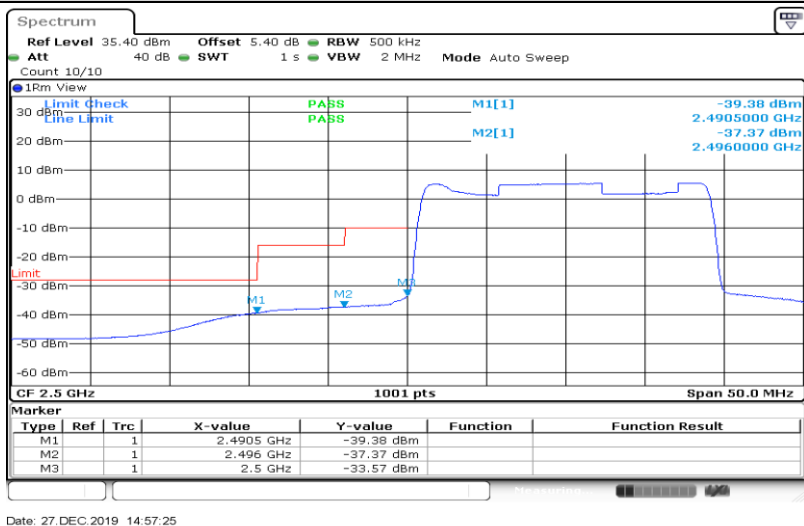
Date: 27.DEC.2019 14:57:45

### Band7-20MHz-16QAM-20850-1RB#0



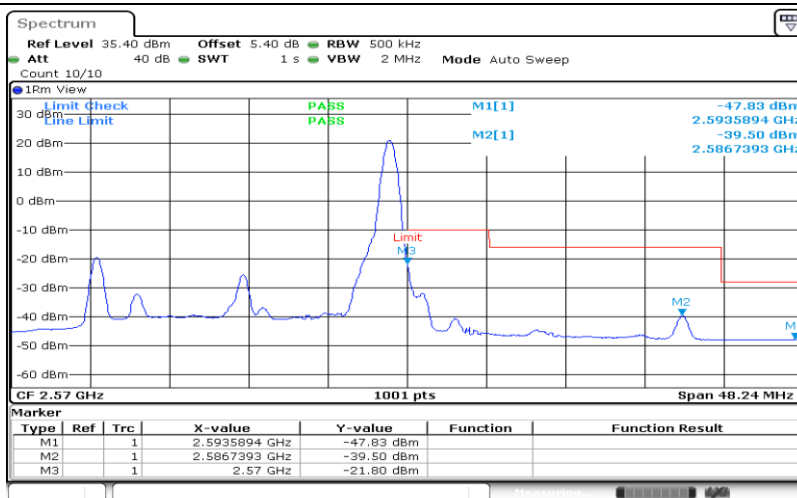


## Band7-20MHz-16QAM-20850-100RB#0

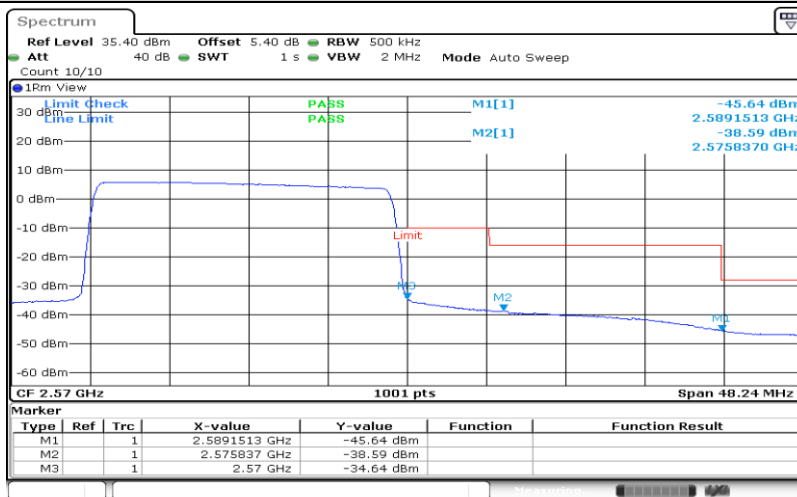


## Band7-20MHz-16QAM-21350-1RB#99





## Band7-20MHz-16QAM-21350-100RB#0



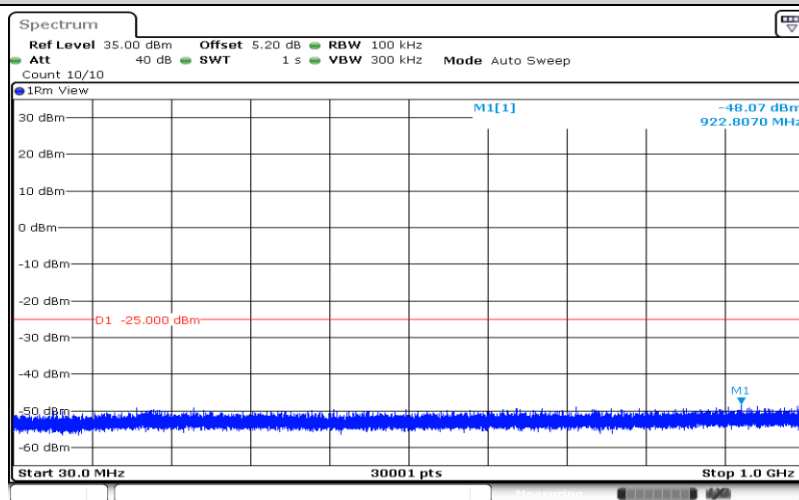
## 6. Spurious Emission at Antenna Terminal

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.

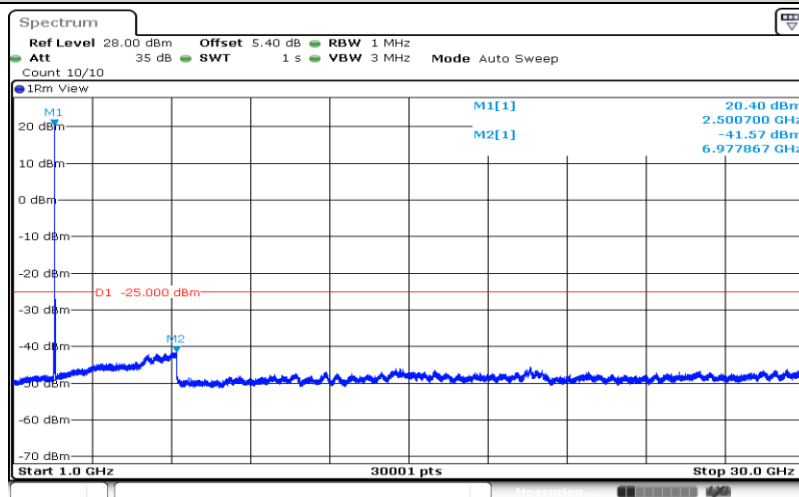
### 6.1. Test Plots

Band7-20MHz-QPSK-20850-1RB#0-Range1:30~1000MHz



Date: 27.DEC.2019 14:58:29

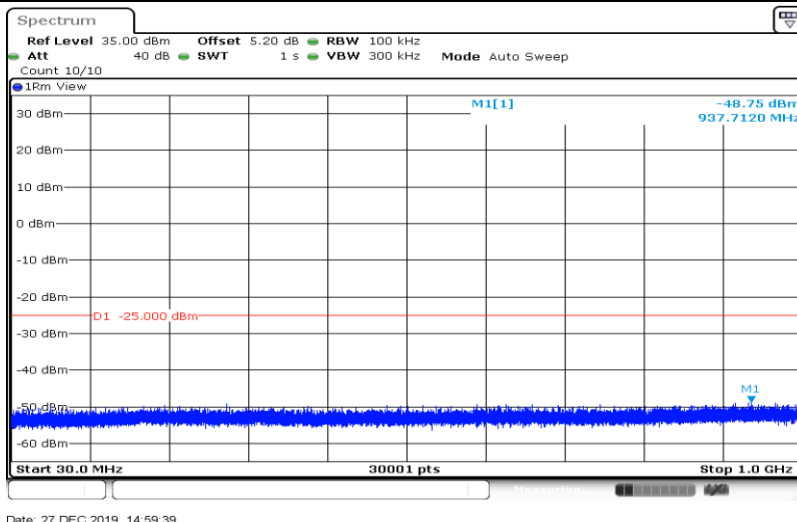
Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~30000MHz



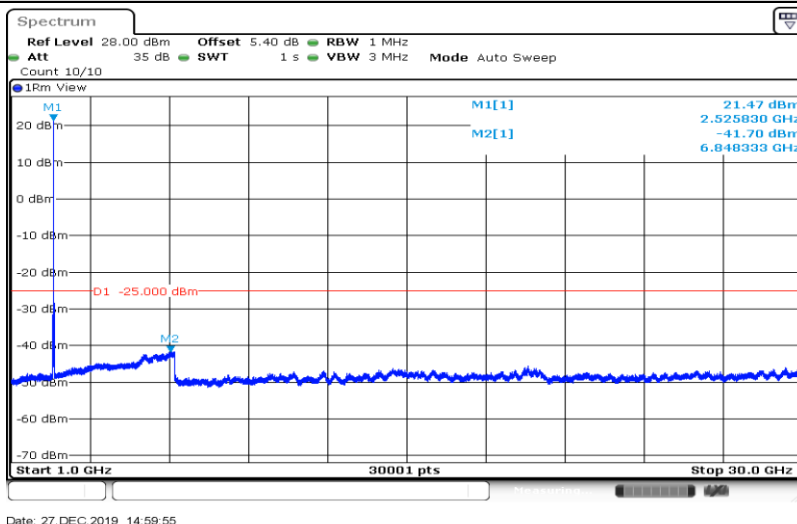
Date: 27.DEC.2019 14:58:45

Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz





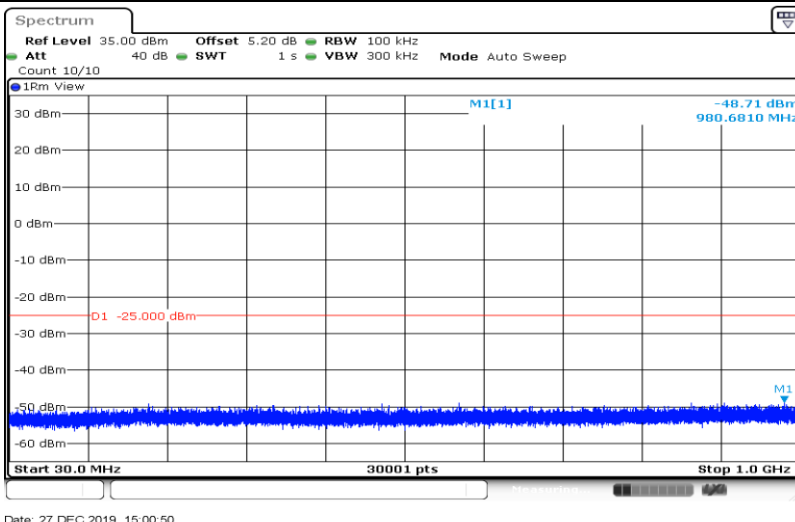
Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



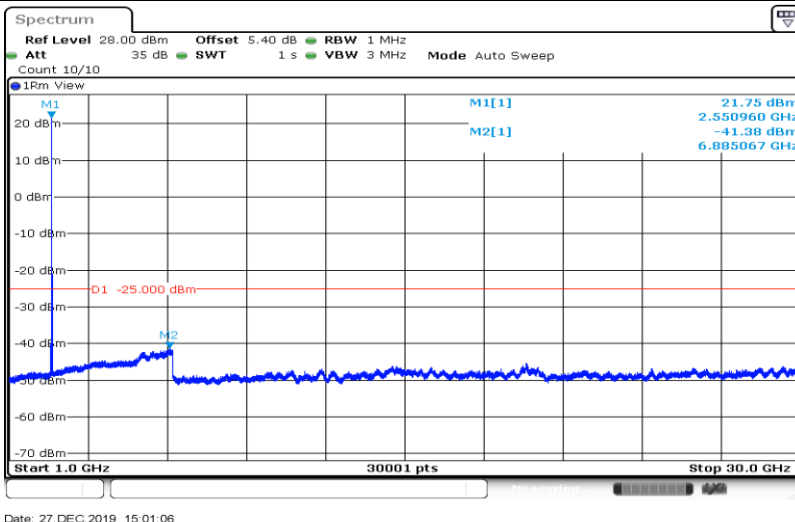
Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz



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](mailto:CN.Doccheck@sgs.com)

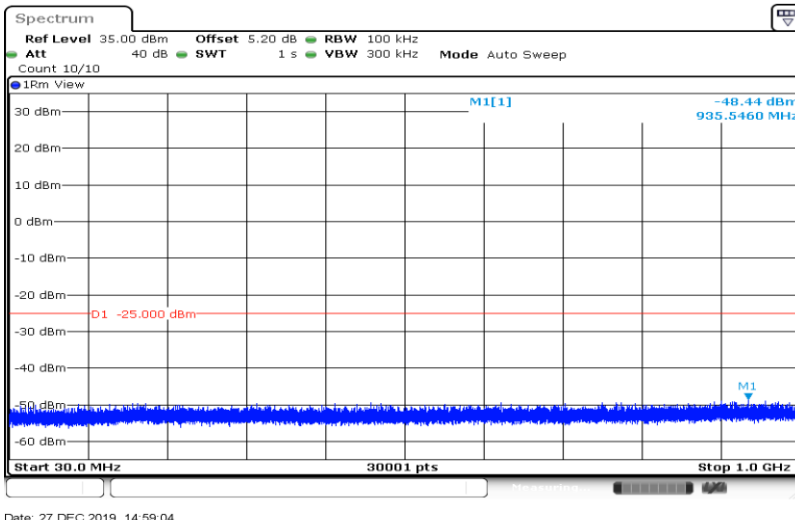


## Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz

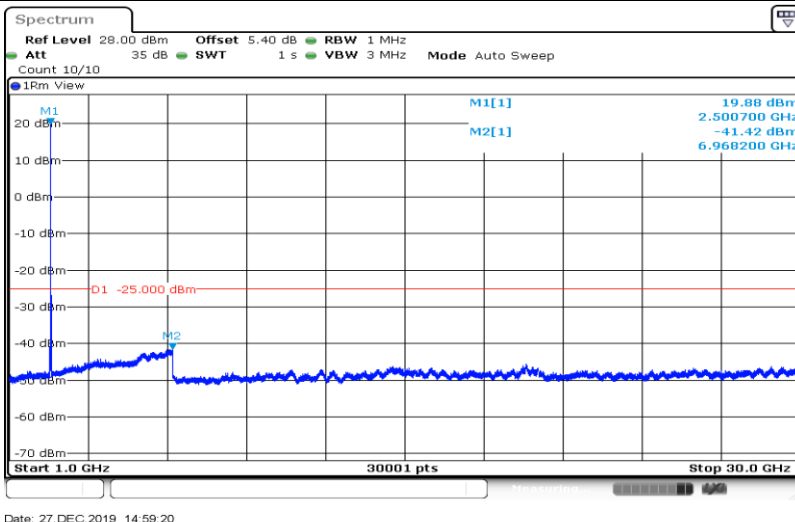


## Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz





Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz



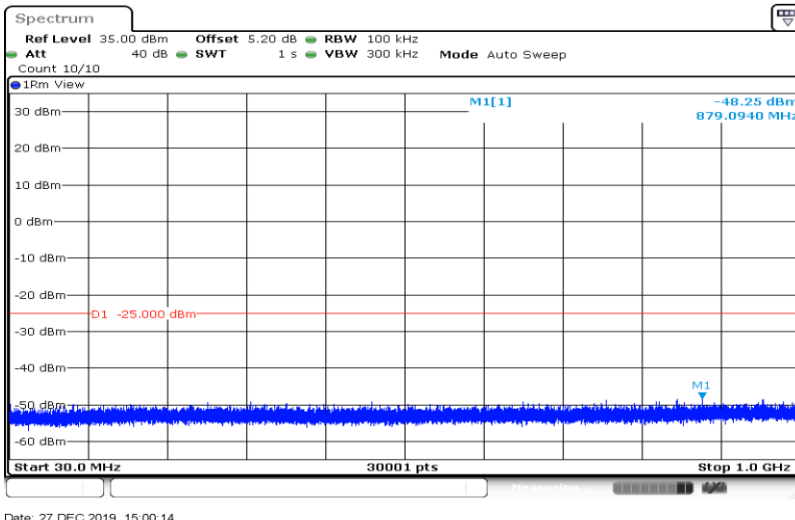
Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



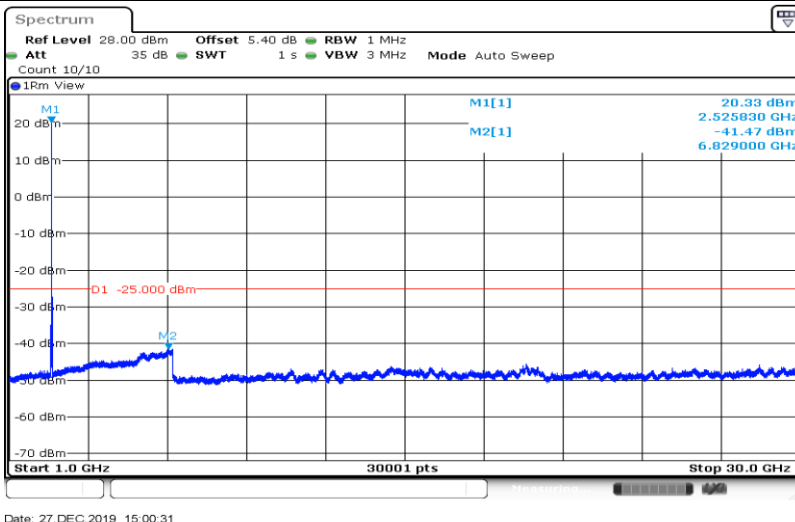
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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



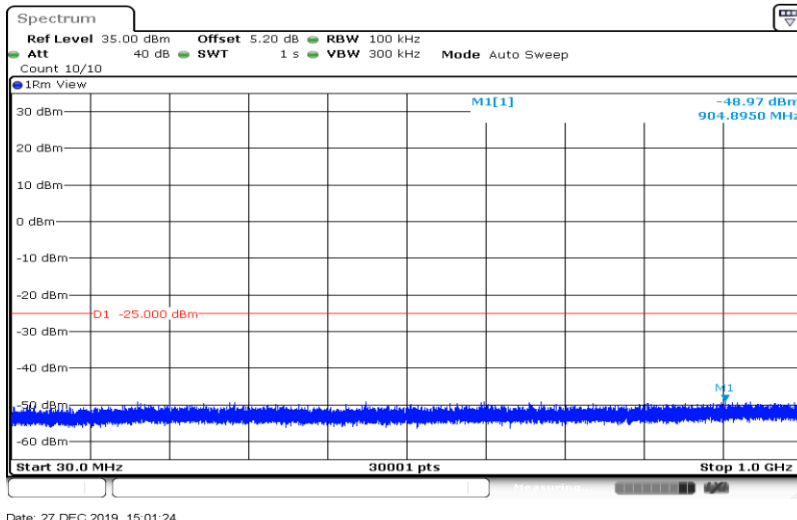
Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



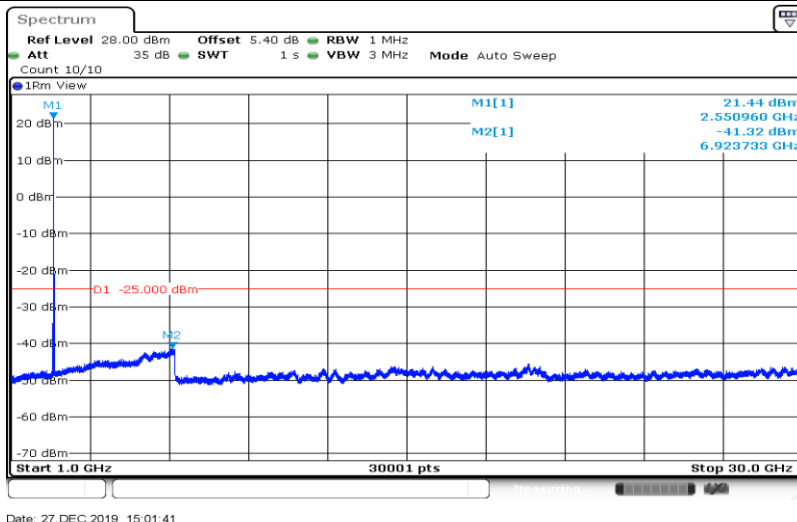
Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz



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](mailto:CN.Doccheck@sgs.com)



Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz



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](mailto: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



## 7. Field Strength of Spurious Radiation

The 5029E data:

### 7.1. Test Band = LTE Band 7

#### 7.1.1. Test Mode = LTE/TM1

##### 7.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 110.4170        | -65.39      | -25.00           | 40.39       | Vertical     |
| 5002.2801       | -49.45      | -25.00           | 24.45       | Vertical     |
| 7503.1801       | -43.34      | -25.00           | 18.34       | Vertical     |
| 10004.0802      | -39.51      | -25.00           | 14.51       | Vertical     |
| 14360.2544      | -52.74      | -25.00           | 27.74       | Vertical     |
| 17998.8000      | -46.27      | -25.00           | 21.27       | Vertical     |
| 42.5621         | -64.89      | -25.00           | 39.89       | Horizontal   |
| 5002.2801       | -50.60      | -25.00           | 25.60       | Horizontal   |
| 7503.1801       | -39.65      | -25.00           | 14.65       | Horizontal   |
| 10004.6802      | -35.69      | -25.00           | 10.69       | Horizontal   |
| 12505.5802      | -53.51      | -25.00           | 28.51       | Horizontal   |
| 16394.3358      | -49.07      | -25.00           | 24.07       | Horizontal   |

##### 7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 109.6895        | -65.72      | -25.00           | 40.72       | Vertical     |
| 5052.0821       | -50.64      | -25.00           | 25.64       | Vertical     |
| 7578.1831       | -45.80      | -25.00           | 20.80       | Vertical     |
| 10104.2842      | -42.08      | -25.00           | 17.08       | Vertical     |
| 14522.2609      | -52.01      | -25.00           | 27.01       | Vertical     |
| 17794.1918      | -48.77      | -25.00           | 23.77       | Vertical     |
| 42.9987         | -65.19      | -25.00           | 40.19       | Horizontal   |
| 5052.0821       | -49.68      | -25.00           | 24.68       | Horizontal   |
| 7578.1831       | -41.28      | -25.00           | 16.28       | Horizontal   |
| 10104.2842      | -38.37      | -25.00           | 13.37       | Horizontal   |
| 12630.3852      | -53.91      | -25.00           | 28.91       | Horizontal   |
| 16837.1535      | -50.17      | -25.00           | 25.17       | 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](mailto:CN.Doccheck@sgs.com)

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

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



### 7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 111.4841        | -65.52      | -25.00           | 40.52       | Vertical     |
| 748.4179        | -63.34      | -25.00           | 38.34       | Vertical     |
| 5102.4841       | -49.28      | -25.00           | 24.28       | Vertical     |
| 7653.1861       | -46.34      | -25.00           | 21.34       | Vertical     |
| 10204.4882      | -43.75      | -25.00           | 18.75       | Vertical     |
| 17996.9999      | -45.77      | -25.00           | 20.77       | Vertical     |
| 44.5507         | -63.97      | -25.00           | 38.97       | Horizontal   |
| 829.6595        | -62.29      | -25.00           | 37.29       | Horizontal   |
| 5101.8841       | -49.43      | -25.00           | 24.43       | Horizontal   |
| 7653.1861       | -41.04      | -25.00           | 16.04       | Horizontal   |
| 10204.4882      | -41.71      | -25.00           | 16.71       | Horizontal   |
| 16374.5350      | -49.18      | -25.00           | 24.18       | Horizontal   |



The 5029F data:

## 7.2. Test Band = LTE Band 7

### 7.2.1. Test Mode = LTE/TM1

#### 7.2.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 116.7223        | -65.57      | -25.00           | 40.57       | Vertical     |
| 1650.9302       | -45.82      | -25.00           | 20.82       | Vertical     |
| 5002.2801       | -50.42      | -25.00           | 25.42       | Vertical     |
| 7503.1801       | -39.06      | -25.00           | 14.06       | Vertical     |
| 10004.0802      | -43.61      | -25.00           | 18.61       | Vertical     |
| 17998.1999      | -42.18      | -25.00           | 17.18       | Vertical     |
| 44.4052         | -64.44      | -25.00           | 39.44       | Horizontal   |
| 830.5325        | -62.62      | -25.00           | 37.62       | Horizontal   |
| 5002.2801       | -48.49      | -25.00           | 23.49       | Horizontal   |
| 7503.1801       | -36.13      | -25.00           | 11.13       | Horizontal   |
| 10004.0802      | -41.61      | -25.00           | 16.61       | Horizontal   |
| 16364.9346      | -45.82      | -25.00           | 20.82       | Horizontal   |

#### 7.2.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 111.2416        | -64.63      | -25.00           | 39.63       | Vertical     |
| 754.4322        | -62.70      | -25.00           | 37.70       | Vertical     |
| 5052.0821       | -48.84      | -25.00           | 23.84       | Vertical     |
| 7578.1831       | -39.43      | -25.00           | 14.43       | Vertical     |
| 10104.2842      | -45.27      | -25.00           | 20.27       | Vertical     |
| 17993.3997      | -42.53      | -25.00           | 17.53       | Vertical     |
| 45.2298         | -65.20      | -25.00           | 40.20       | Horizontal   |
| 677.1679        | -64.71      | -25.00           | 39.71       | Horizontal   |
| 5052.0821       | -47.38      | -25.00           | 22.38       | Horizontal   |
| 7578.1831       | -39.70      | -25.00           | 14.70       | Horizontal   |
| 10104.2842      | -41.55      | -25.00           | 16.55       | Horizontal   |
| 16398.5359      | -45.53      | -25.00           | 20.53       | Horizontal   |



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

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

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

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

### 7.2.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 109.2045        | -66.39      | -25.00           | 41.39       | Vertical     |
| 1671.3343       | -45.71      | -25.00           | 20.71       | Vertical     |
| 5102.4841       | -51.43      | -25.00           | 26.43       | Vertical     |
| 7653.1861       | -40.95      | -25.00           | 15.95       | Vertical     |
| 14495.2598      | -49.35      | -25.00           | 24.35       | Vertical     |
| 17986.7995      | -42.37      | -25.00           | 17.37       | Vertical     |
| 42.2226         | -65.42      | -25.00           | 40.42       | Horizontal   |
| 249.4735        | -68.99      | -25.00           | 43.99       | Horizontal   |
| 5102.4841       | -47.49      | -25.00           | 22.49       | Horizontal   |
| 7653.1861       | -41.07      | -25.00           | 16.07       | Horizontal   |
| 10204.4882      | -44.38      | -25.00           | 19.38       | Horizontal   |
| 16392.5357      | -45.87      | -25.00           | 20.87       | Horizontal   |

**Remark:**

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



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

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

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



## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | VL            | NT               | -18.50         | -0.007371       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | VN            | NT               | 9.80           | 0.003904        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | VH            | NT               | -3.70          | -0.001474       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | VL            | NT               | 7.50           | 0.002959        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | VN            | NT               | 6.60           | 0.002629        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | VH            | NT               | -5.90          | -0.002327       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | VL            | NT               | 0.10           | 0.000039        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | VN            | NT               | -14.80         | -0.005781       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | VH            | NT               | -14.90         | -0.005820       | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | VL            | NT               | 6.60           | 0.002629        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | VN            | NT               | -5.40          | -0.002151       | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | VH            | NT               | 1.00           | 0.000398        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0      | VL            | NT               | 1.40           | 0.000552        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0      | VN            | NT               | -17.80         | -0.007022       | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0      | VH            | NT               | -0.80          | -0.000316       | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0      | VL            | NT               | -2.50          | -0.000977       | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0      | VN            | NT               | -17.80         | -0.006953       | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0      | VH            | NT               | 2.80           | 0.001094        | ±2.5        | PASS    |

### 8.2. Frequency Vs Temperature

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | -30              | -3.60          | -0.001434       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | -20              | 8.40           | 0.003347        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 0                | -5.50          | -0.002191       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 10               | 6.90           | 0.002749        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 20               | 13.10          | 0.005219        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 30               | 6.00           | 0.002390        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 40               | 8.50           | 0.003386        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 50               | -3.60          | -0.001434       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | -30              | -6.80          | -0.002682       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | -20              | -13.50         | -0.005325       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 0                | -16.00         | -0.006312       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 10               | -4.00          | -0.001578       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 20               | -4.40          | -0.001736       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 30               | 1.00           | 0.000394        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 40               | 9.00           | 0.003550        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 50               | -5.20          | -0.002051       | ±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](mailto: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  
中国·深圳·科技园中区M-10栋一号厂房

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



|       |       |       |       |         |    |     |        |           |      |      |
|-------|-------|-------|-------|---------|----|-----|--------|-----------|------|------|
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | NV | -30 | 2.30   | 0.000898  | ±2.5 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | NV | -20 | -11.00 | -0.004297 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | NV | 0   | -6.20  | -0.002422 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | NV | 10  | -10.90 | -0.004258 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | NV | 20  | 0.30   | 0.000117  | ±2.5 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | NV | 30  | 7.70   | 0.003008  | ±2.5 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | NV | 40  | -9.10  | -0.003555 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | NV | 50  | -11.20 | -0.004375 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | -30 | -12.80 | -0.005100 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | -20 | -13.50 | -0.005378 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 0   | -13.10 | -0.005219 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 10  | 1.40   | 0.000558  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 20  | -12.60 | -0.005020 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 30  | 1.70   | 0.000677  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 40  | -11.60 | -0.004622 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 50  | 0.50   | 0.000199  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | -30 | -13.60 | -0.005365 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | -20 | -1.90  | -0.000750 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 0   | -0.80  | -0.000316 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 10  | -13.90 | -0.005483 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 20  | 3.00   | 0.001183  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 30  | -8.40  | -0.003314 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 40  | -3.40  | -0.001341 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 50  | -4.80  | -0.001893 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | -30 | 4.70   | 0.001836  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | -20 | -19.40 | -0.007578 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 0   | -3.40  | -0.001328 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 10  | -20.70 | -0.008086 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 20  | -5.00  | -0.001953 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 30  | -2.70  | -0.001055 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 40  | 1.30   | 0.000508  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 50  | -15.40 | -0.006016 | ±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.

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