



# Appendix B

## E-UTRA Band 38



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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>12</b> |
| 2.1.      | TEST RESULT.....                                   | 12        |
| 2.2.      | TEST PLOTS .....                                   | 12        |
| <b>3.</b> | <b>MODULATION CHARACTERISTICS .....</b>            | <b>17</b> |
| 3.1.      | TEST MODE = LTE /TM1 20MHZ .....                   | 17        |
| 3.1.1.    | TEST CHANNEL = MCH .....                           | 17        |
| 3.2.      | TEST MODE = LTE /TM2 20MHZ .....                   | 18        |
| 3.2.1.    | TEST CHANNEL = MCH .....                           | 18        |
| 3.3.      | TEST MODE = LTE /TM3 20MHZ .....                   | 19        |
| 3.3.1.    | TEST CHANNEL = MCH .....                           | 19        |
| <b>4.</b> | <b>26DB BANDWIDTH AND OCCUPIED BANDWIDTH .....</b> | <b>20</b> |
| 4.1.      | TEST RESULT.....                                   | 20        |
| 4.2.      | TEST PLOTS .....                                   | 21        |
| <b>5.</b> | <b>BAND EDGE COMPLIANCE .....</b>                  | <b>40</b> |
| 5.1.      | TEST PLOTS .....                                   | 40        |
| <b>6.</b> | <b>SPURIOUS EMISSION AT ANTENNA TERMINAL .....</b> | <b>65</b> |
| 6.1.      | TEST PLOTS .....                                   | 65        |
| <b>7.</b> | <b>FIELD STRENGTH OF SPURIOUS RADIATION.....</b>   | <b>75</b> |
| 7.1.      | TEST MODE =LTE/TM1 20MHZ(UP ANTENNA) .....         | 75        |
| 7.1.1.    | TEST CHANNEL = LCH .....                           | 75        |
| 7.1.2.    | TEST CHANNEL = MCH .....                           | 75        |
| 7.1.3.    | TEST CHANNEL = HCH .....                           | 76        |
| 7.2.      | TEST MODE =LTE/TM1 20MHZ(DOWN ANTENNA) .....       | 77        |
| 7.2.1.    | TEST CHANNEL = LCH .....                           | 77        |
| 7.2.2.    | TEST CHANNEL = MCH .....                           | 77        |
| 7.2.3.    | TEST CHANNEL = HCH .....                           | 78        |



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 (SGS-CSTC) Laboratory

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



|      |                                |    |
|------|--------------------------------|----|
| 8.   | FREQUENCY STABILITY.....       | 79 |
| 8.1. | FREQUENCY VS VOLTAGE.....      | 79 |
| 8.2. | FREQUENCY VS TEMPERATURE ..... | 79 |



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 |
|--------|-----------|------------|---------|------------------|----------------------|------------|-------------|---------|
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#0            | 22.57                | 21.56      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#12           | 22.54                | 21.53      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#24           | 23.11                | 22.1       | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 12RB#6           | 21.80                | 20.79      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 12RB#0           | 21.72                | 20.71      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 12RB#13          | 21.58                | 20.57      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 25RB#0           | 21.79                | 20.78      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#24           | 22.66                | 21.65      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#0            | 22.85                | 21.84      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#12           | 23.11                | 22.1       | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 12RB#0           | 21.62                | 20.61      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 12RB#6           | 21.60                | 20.59      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 12RB#13          | 21.66                | 20.65      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 25RB#0           | 21.90                | 20.89      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#12           | 22.93                | 21.92      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#0            | 22.57                | 21.56      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#24           | 23.09                | 22.08      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 12RB#13          | 21.61                | 20.6       | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 12RB#6           | 21.60                | 20.59      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 12RB#0           | 21.88                | 20.87      | 33.00       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 25RB#0           | 21.76                | 20.75      | 33.00       | PASS    |
| Band38 | 5MHz      | 64QAM      | 37775   | 1RB#0            | 21.18                | 20.17      | 33.00       | PASS    |
| Band38 | 5MHz      | 64QAM      | 37775   | 1RB#24           | 21.05                | 20.04      | 33.00       | PASS    |
| Band38 | 5MHz      | 64QAM      | 37775   | 1RB#12           | 21.49                | 20.48      | 33.00       | PASS    |
| Band38 | 5MHz      | 64QAM      | 37775   | 12RB#0           | 20.16                | 19.15      | 33.00       | PASS    |
| Band38 | 5MHz      | 64QAM      | 37775   | 12RB#6           | 19.89                | 18.88      | 33.00       | PASS    |
| Band38 | 5MHz      | 64QAM      | 37775   | 12RB#13          | 20.07                | 19.06      | 33.00       | 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 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  
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

[www.sgs.com](http://www.sgs.com)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)



|        |      |       |       |         |       |       |       |      |
|--------|------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 5MHz | 64QAM | 37775 | 25RB#0  | 19.96 | 18.95 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 1RB#0   | 21.18 | 20.17 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 1RB#12  | 21.12 | 20.11 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 1RB#24  | 21.63 | 20.62 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 12RB#13 | 20.00 | 18.99 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 12RB#6  | 19.98 | 18.97 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 12RB#0  | 20.09 | 19.08 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38000 | 25RB#0  | 20.27 | 19.26 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 1RB#0   | 21.35 | 20.34 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 1RB#12  | 21.09 | 20.08 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 1RB#24  | 21.49 | 20.48 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 12RB#0  | 19.99 | 18.98 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 12RB#6  | 19.91 | 18.9  | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 12RB#13 | 20.03 | 19.02 | 33.00 | PASS |
| Band38 | 5MHz | 64QAM | 38225 | 25RB#0  | 20.16 | 19.15 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#0   | 21.92 | 20.91 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#24  | 21.85 | 20.84 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#12  | 22.07 | 21.06 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 12RB#13 | 20.89 | 19.88 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 12RB#6  | 20.59 | 19.58 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 12RB#0  | 20.73 | 19.72 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 25RB#0  | 20.56 | 19.55 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 1RB#0   | 21.92 | 20.91 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 1RB#12  | 21.87 | 20.86 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 1RB#24  | 22.36 | 21.35 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 12RB#0  | 20.65 | 19.64 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 12RB#6  | 20.75 | 19.74 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 12RB#13 | 20.84 | 19.83 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 25RB#0  | 20.87 | 19.86 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 1RB#0   | 22.03 | 21.02 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 1RB#24  | 21.62 | 20.61 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 1RB#12  | 22.06 | 21.05 | 33.00 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 12RB#0  | 20.64 | 19.63 | 33.00 | 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)



|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 5MHz  | 16QAM | 38225 | 12RB#6  | 20.76 | 19.75 | 33.00 | PASS |
| Band38 | 5MHz  | 16QAM | 38225 | 12RB#13 | 20.64 | 19.63 | 33.00 | PASS |
| Band38 | 5MHz  | 16QAM | 38225 | 25RB#0  | 20.87 | 19.86 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 1RB#49  | 22.65 | 21.64 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 1RB#24  | 22.56 | 21.55 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 1RB#0   | 23.18 | 22.17 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 25RB#12 | 21.83 | 20.82 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 25RB#0  | 21.80 | 20.79 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 25RB#25 | 21.58 | 20.57 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 50RB#0  | 21.87 | 20.86 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 1RB#24  | 22.75 | 21.74 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 1RB#49  | 22.85 | 21.84 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 1RB#0   | 23.17 | 22.16 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 25RB#25 | 21.67 | 20.66 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 25RB#0  | 21.64 | 20.63 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 25RB#12 | 21.79 | 20.78 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 50RB#0  | 21.93 | 20.92 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 1RB#49  | 23.02 | 22.01 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 1RB#24  | 22.58 | 21.57 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 1RB#0   | 23.12 | 22.11 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 25RB#25 | 21.67 | 20.66 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 25RB#0  | 21.71 | 20.7  | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 25RB#12 | 21.90 | 20.89 | 33.00 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 50RB#0  | 21.85 | 20.84 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 1RB#24  | 21.03 | 20.02 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 1RB#49  | 20.96 | 19.95 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 1RB#0   | 21.18 | 20.17 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 25RB#0  | 20.00 | 18.99 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 25RB#12 | 19.70 | 18.69 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 25RB#25 | 19.84 | 18.83 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 37800 | 50RB#0  | 19.67 | 18.66 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 1RB#49  | 21.03 | 20.02 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 1RB#0   | 20.98 | 19.97 | 33.00 | 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 / 深圳分公司 / SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch / 深圳分公司

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

|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 10MHz | 64QAM | 38000 | 1RB#24  | 21.47 | 20.46 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 25RB#0  | 19.76 | 18.75 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 25RB#12 | 19.86 | 18.85 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 25RB#25 | 19.95 | 18.94 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38000 | 50RB#0  | 19.98 | 18.97 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 1RB#0   | 21.14 | 20.13 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 1RB#49  | 20.73 | 19.72 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 1RB#24  | 21.17 | 20.16 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 25RB#25 | 19.75 | 18.74 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 25RB#0  | 19.87 | 18.86 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 25RB#12 | 19.75 | 18.74 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM | 38200 | 50RB#0  | 19.98 | 18.97 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#0   | 21.94 | 20.93 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#24  | 21.86 | 20.85 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#49  | 22.15 | 21.14 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 25RB#12 | 20.90 | 19.89 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 25RB#0  | 20.51 | 19.5  | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 25RB#25 | 20.87 | 19.86 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 50RB#0  | 20.67 | 19.66 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#0   | 21.92 | 20.91 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#49  | 21.90 | 20.89 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#24  | 22.41 | 21.4  | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 25RB#0  | 20.69 | 19.68 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 25RB#25 | 20.79 | 19.78 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 25RB#12 | 20.84 | 19.83 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 50RB#0  | 20.97 | 19.96 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#0   | 22.15 | 21.14 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#49  | 21.75 | 20.74 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#24  | 22.20 | 21.19 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 25RB#0  | 20.75 | 19.74 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 25RB#12 | 20.78 | 19.77 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 25RB#25 | 20.78 | 19.77 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 50RB#0  | 20.89 | 19.88 | 33.00 | 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.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



|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 15MHz | QPSK  | 37825 | 1RB#74  | 22.78 | 21.77 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 1RB#38  | 22.60 | 21.59 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 1RB#0   | 23.19 | 22.18 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 36RB#39 | 21.96 | 20.95 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 36RB#18 | 21.82 | 20.81 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 36RB#0  | 21.67 | 20.66 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 75RB#0  | 21.91 | 20.9  | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 1RB#0   | 22.87 | 21.86 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 1RB#38  | 22.92 | 21.91 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 1RB#74  | 23.19 | 22.18 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 36RB#0  | 21.79 | 20.78 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 36RB#18 | 21.71 | 20.7  | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 36RB#39 | 21.91 | 20.9  | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 75RB#0  | 21.94 | 20.93 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 1RB#0   | 23.07 | 22.06 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 1RB#38  | 22.64 | 21.63 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 1RB#74  | 23.17 | 22.16 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 36RB#0  | 21.80 | 20.79 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 36RB#18 | 21.82 | 20.81 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 36RB#39 | 21.98 | 20.97 | 33.00 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 75RB#0  | 21.99 | 20.98 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 1RB#74  | 21.05 | 20.04 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 1RB#38  | 20.97 | 19.96 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 1RB#0   | 21.26 | 20.25 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 36RB#0  | 20.01 | 19    | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 36RB#18 | 19.62 | 18.61 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 36RB#39 | 19.98 | 18.97 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 37825 | 75RB#0  | 19.78 | 18.77 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 1RB#38  | 21.03 | 20.02 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 1RB#74  | 21.01 | 20    | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 1RB#0   | 21.52 | 20.51 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 36RB#39 | 19.80 | 18.79 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 36RB#0  | 19.90 | 18.89 | 33.00 | 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 / 深圳分公司 / SGS-CSTC Standards Technical Services Co., Ltd. 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



|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 15MHz | 64QAM | 38000 | 36RB#18 | 19.95 | 18.94 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38000 | 75RB#0  | 20.08 | 19.07 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 1RB#0   | 21.26 | 20.25 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 1RB#38  | 20.86 | 19.85 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 1RB#74  | 21.31 | 20.3  | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 36RB#18 | 19.86 | 18.85 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 36RB#0  | 19.89 | 18.88 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 36RB#39 | 19.89 | 18.88 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM | 38175 | 75RB#0  | 20.00 | 18.99 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#38  | 21.95 | 20.94 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#0   | 21.92 | 20.91 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#74  | 22.24 | 21.23 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 36RB#0  | 21.04 | 20.03 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 36RB#39 | 20.64 | 19.63 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 36RB#18 | 20.90 | 19.89 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 75RB#0  | 20.74 | 19.73 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#38  | 22.05 | 21.04 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#74  | 21.97 | 20.96 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#0   | 22.50 | 21.49 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 36RB#0  | 20.81 | 19.8  | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 36RB#18 | 20.84 | 19.83 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 36RB#39 | 20.91 | 19.9  | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 75RB#0  | 21.06 | 20.05 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#0   | 22.18 | 21.17 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#38  | 21.86 | 20.85 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#74  | 22.27 | 21.26 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 36RB#0  | 20.75 | 19.74 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 36RB#18 | 20.80 | 19.79 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 36RB#39 | 20.81 | 19.8  | 33.00 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 75RB#0  | 20.94 | 19.93 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#0   | 22.86 | 21.85 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#49  | 22.67 | 21.66 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#99  | 23.27 | 22.26 | 33.00 | 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 / 深圳分公司 / SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Laboratory

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



|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 20MHz | QPSK  | 37850 | 50RB#25 | 21.97 | 20.96 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 50RB#0  | 21.94 | 20.93 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 50RB#50 | 21.67 | 20.66 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 100RB#0 | 21.92 | 20.91 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 1RB#99  | 22.99 | 21.98 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 1RB#0   | 22.97 | 21.96 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 1RB#49  | 23.33 | 22.32 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 50RB#0  | 21.86 | 20.85 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 50RB#25 | 21.79 | 20.78 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 50RB#50 | 22.01 | 21    | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 100RB#0 | 21.99 | 20.98 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 1RB#49  | 23.10 | 22.09 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 1RB#0   | 22.78 | 21.77 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 1RB#99  | 23.20 | 22.19 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 50RB#25 | 21.88 | 20.87 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 50RB#0  | 21.83 | 20.82 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 50RB#50 | 21.98 | 20.97 | 33.00 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 100RB#0 | 21.99 | 20.98 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 1RB#0   | 21.06 | 20.05 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 1RB#49  | 21.03 | 20.02 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 1RB#99  | 21.35 | 20.34 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 50RB#50 | 20.15 | 19.14 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 50RB#0  | 19.75 | 18.74 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 50RB#25 | 20.01 | 19    | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | 19.85 | 18.84 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 1RB#0   | 21.16 | 20.15 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 1RB#49  | 21.08 | 20.07 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 1RB#99  | 21.61 | 20.6  | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 50RB#0  | 19.92 | 18.91 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 50RB#25 | 19.95 | 18.94 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 50RB#50 | 20.02 | 19.01 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | 20.17 | 19.16 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 1RB#99  | 21.29 | 20.28 | 33.00 | 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 / 深圳分公司 / SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch / 深圳分公司

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

|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band38 | 20MHz | 64QAM | 38150 | 1RB#0   | 20.97 | 19.96 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 1RB#49  | 21.38 | 20.37 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 50RB#0  | 19.86 | 18.85 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 50RB#50 | 19.91 | 18.9  | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 50RB#25 | 19.92 | 18.91 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | 20.05 | 19.04 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0   | 22.07 | 21.06 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#49  | 21.94 | 20.93 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#99  | 22.38 | 21.37 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 50RB#0  | 21.05 | 20.04 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 50RB#25 | 20.78 | 19.77 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 50RB#50 | 20.96 | 19.95 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 20.85 | 19.84 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#0   | 22.07 | 21.06 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#99  | 22.01 | 21    | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#49  | 22.52 | 21.51 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 50RB#0  | 20.89 | 19.88 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 50RB#25 | 20.87 | 19.86 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 50RB#50 | 20.98 | 19.97 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 21.16 | 20.15 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#0   | 22.24 | 21.23 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#99  | 21.98 | 20.97 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#49  | 22.38 | 21.37 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 50RB#50 | 20.88 | 19.87 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 50RB#25 | 20.80 | 19.79 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 50RB#0  | 20.92 | 19.91 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 21.05 | 20.04 | 33.00 | 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

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  
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

[www.sgs.com](http://www.sgs.com)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

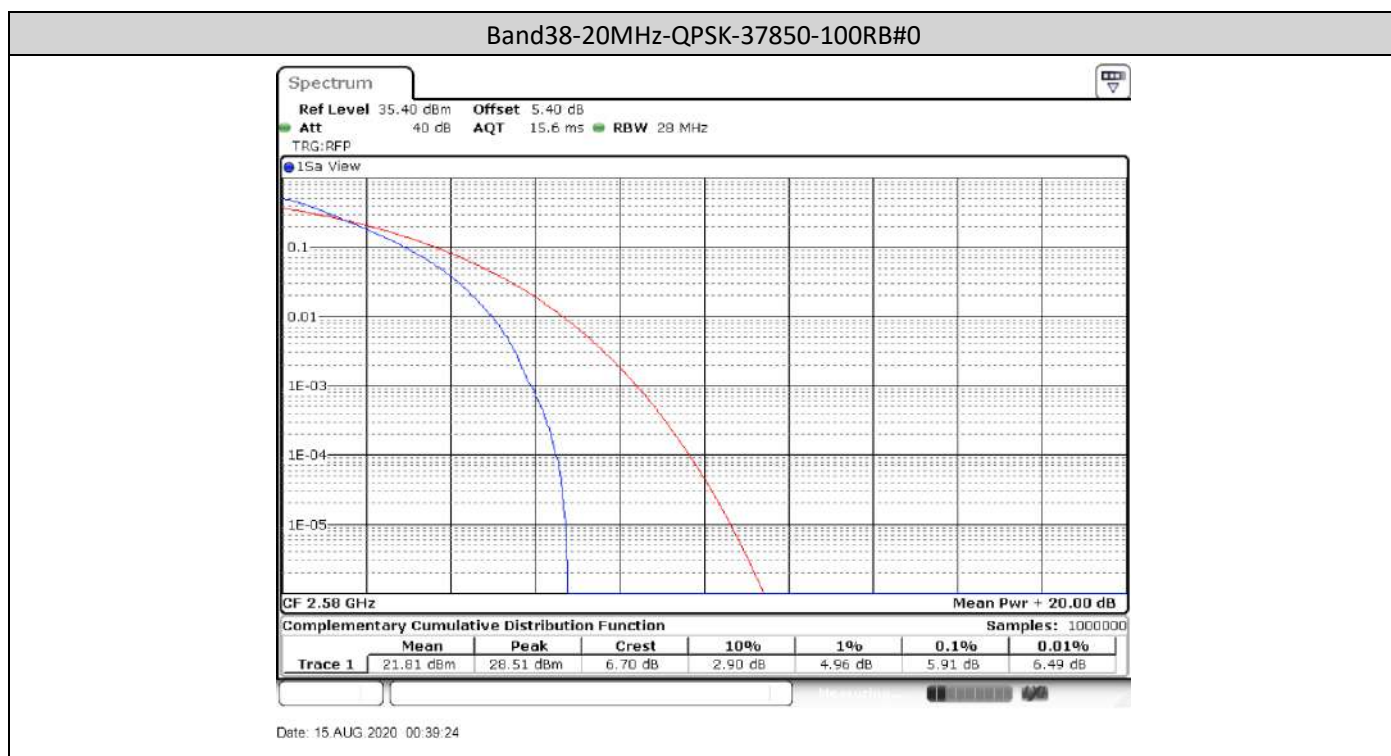


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band38 | 20MHz     | QPSK       | 37850   | 100RB#0          | 5.91       | 13        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0          | 8.61       | 13        | PASS    |
| Band38 | 20MHz     | QPSK       | 38150   | 100RB#0          | 8.43       | 13        | PASS    |
| Band38 | 20MHz     | 64QAM      | 37850   | 100RB#0          | 8.46       | 13        | PASS    |
| Band38 | 20MHz     | 64QAM      | 38000   | 100RB#0          | 9.88       | 13        | PASS    |
| Band38 | 20MHz     | 64QAM      | 38150   | 100RB#0          | 9.71       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 37850   | 100RB#0          | 9.54       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38000   | 100RB#0          | 9.36       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38150   | 100RB#0          | 9.13       | 13        | PASS    |

### 2.2. Test Plots

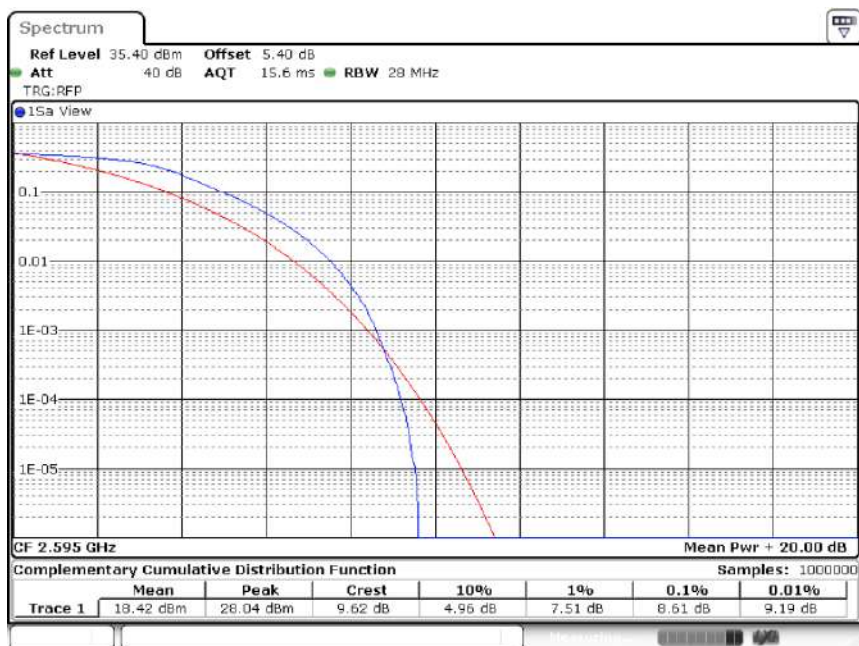


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

## Band38-20MHz-QPSK-38000-100RB#0



Date: 15 AUG 2020 00:39:47

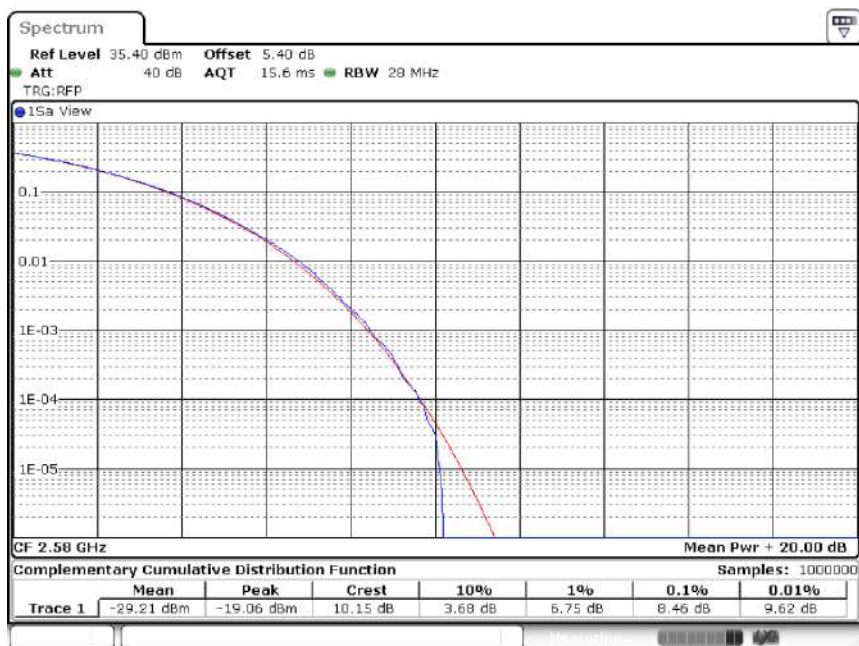
## Band38-20MHz-QPSK-38150-100RB#0



Date: 15 AUG 2020 00:40:10



## Band38-20MHz-64QAM-37850-100RB#0



Date: 15 AUG 2020 02:47:35

## Band38-20MHz-64QAM-38000-100RB#0



Date: 15 AUG 2020 02:47:47

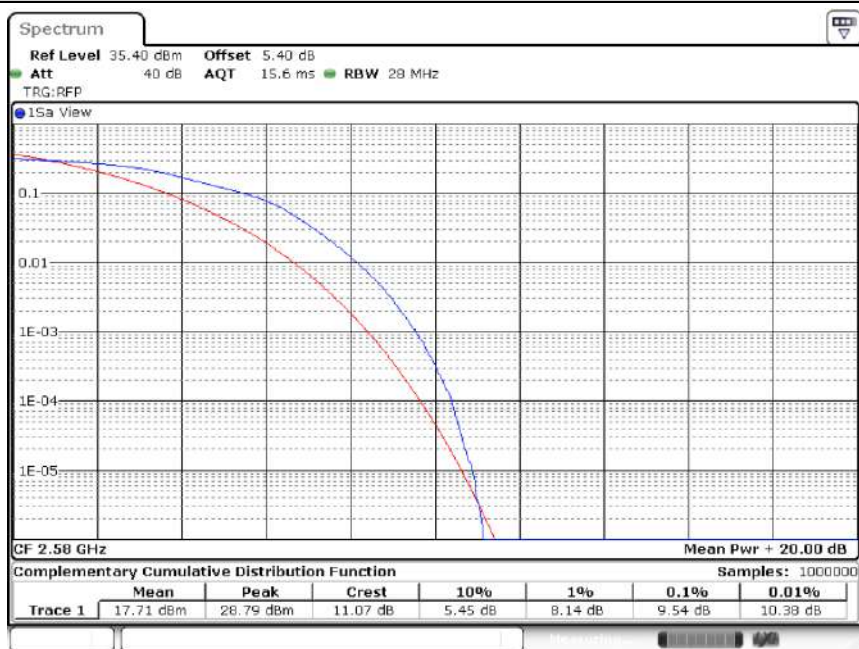


## Band38-20MHz-64QAM-38150-100RB#0



Date: 15 AUG 2020 02:47:58

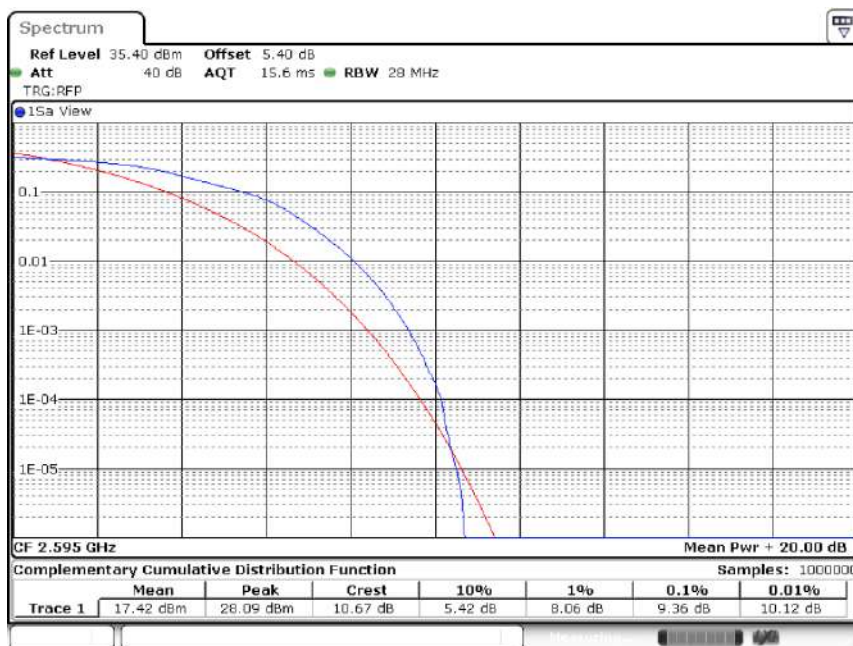
## Band38-20MHz-16QAM-37850-100RB#0



Date: 15 AUG 2020 00:39:36

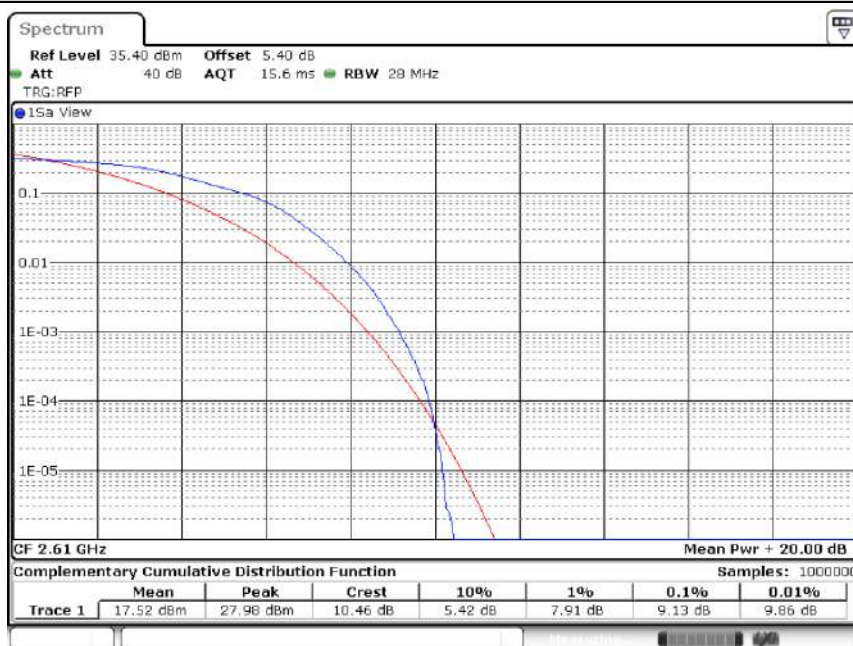


Band38-20MHz-16QAM-38000-100RB#0



Date: 15 AUG 2020 00:39:59

Band38-20MHz-16QAM-38150-100RB#0



Date: 15 AUG 2020 00:40:22



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.

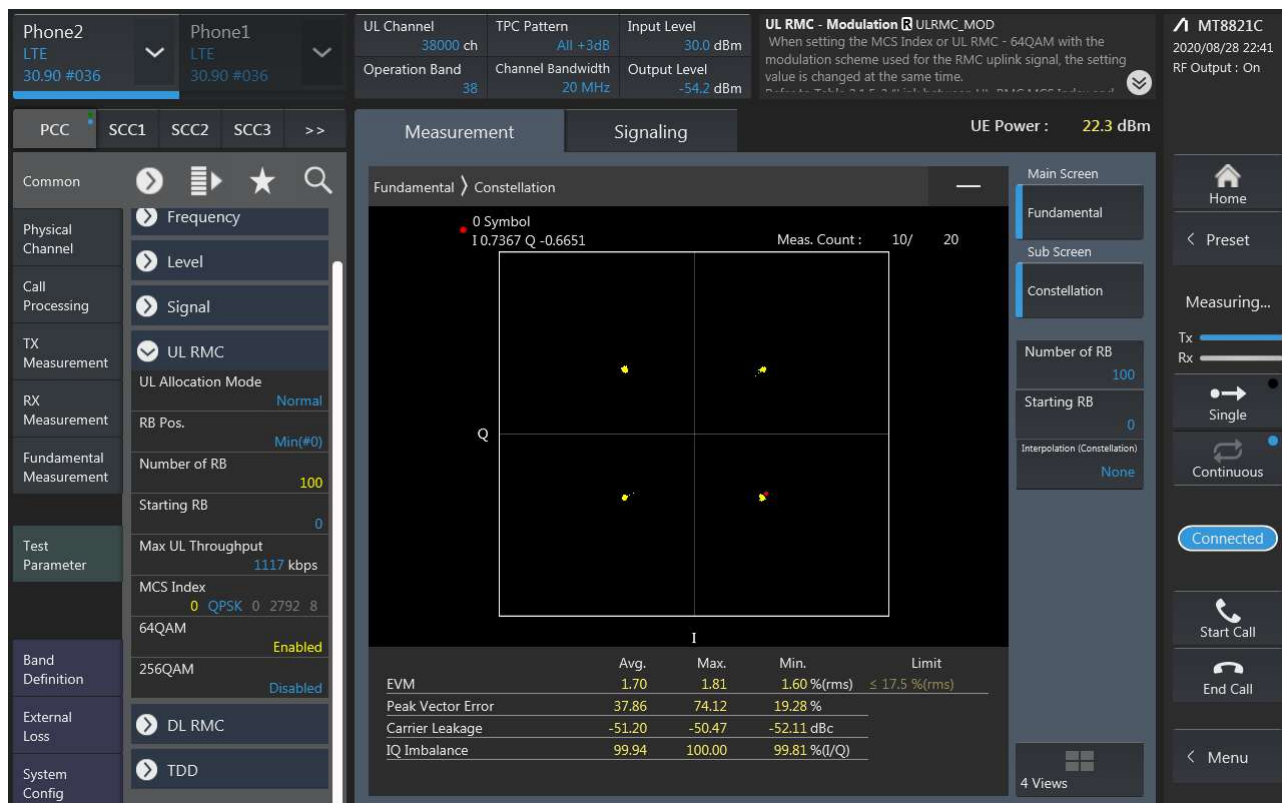
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



### 3. Modulation Characteristics

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

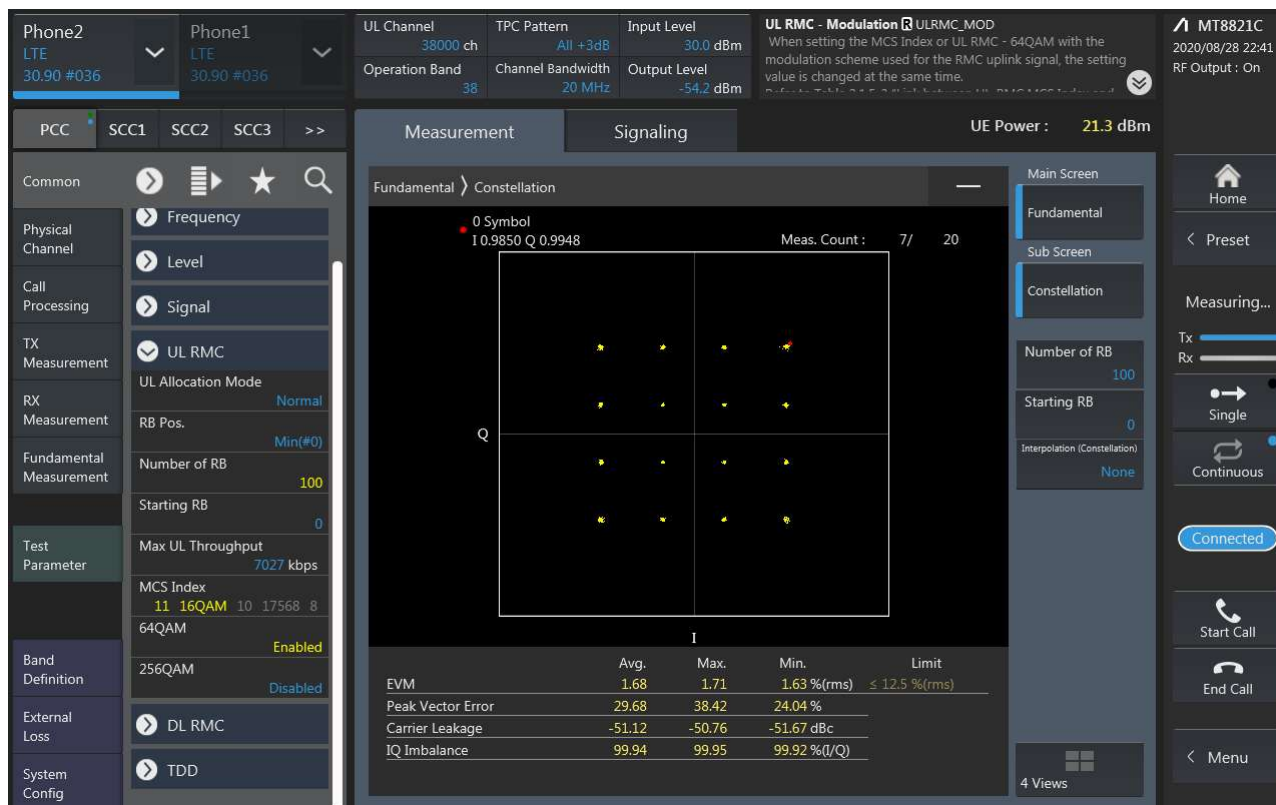
##### 3.1.1. Test Channel = MCH





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

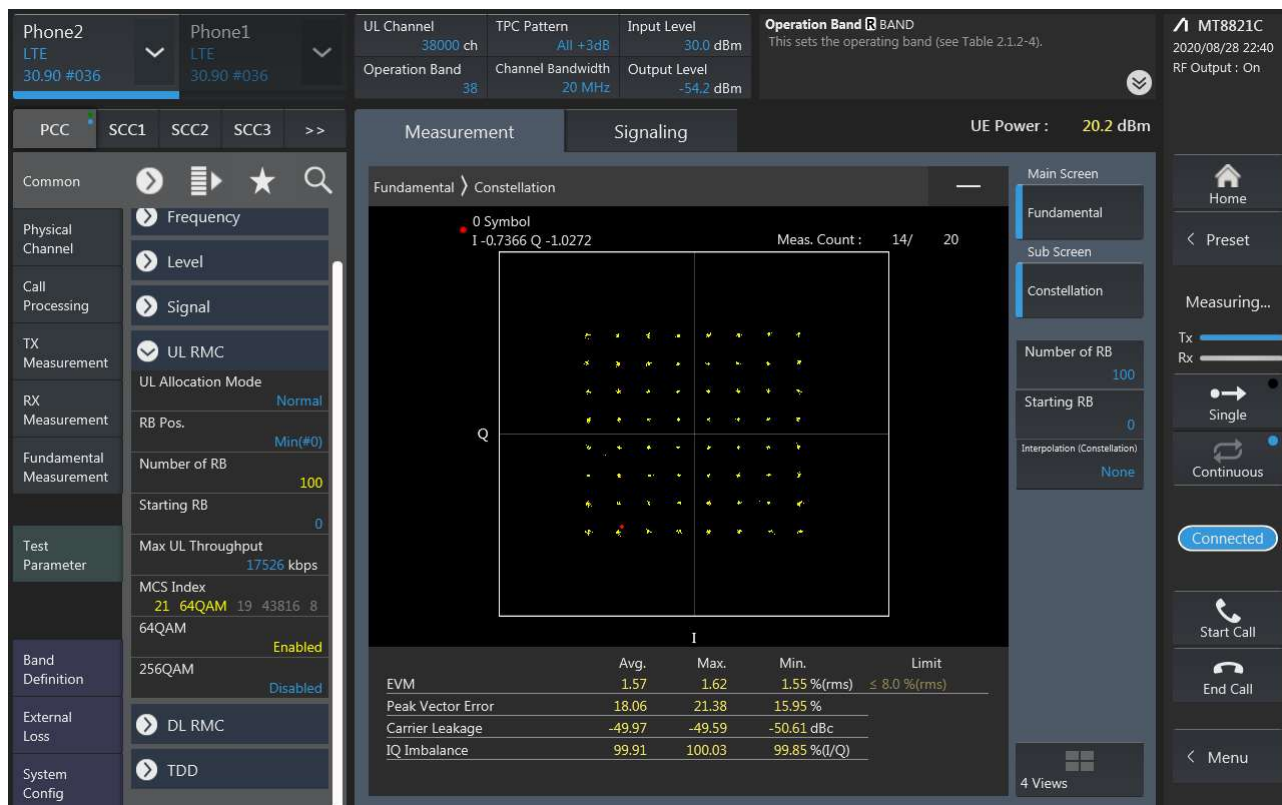
### 3.2.1. Test Channel = MCH





### 3.3. Test Mode = LTE /TM3 20MHz

#### 3.3.1. Test Channel = MCH



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



## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band38 | 5MHz      | QPSK       | 37775   | 25RB#0           | 4.476                    | 4.980                | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 25RB#0           | 4.476                    | 4.990                | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 25RB#0           | 4.476                    | 5.010                | PASS    |
| Band38 | 5MHz      | 64QAM      | 37775   | 25RB#0           | 4.486                    | 5.150                | PASS    |
| Band38 | 5MHz      | 64QAM      | 38000   | 25RB#0           | 4.486                    | 5.100                | PASS    |
| Band38 | 5MHz      | 64QAM      | 38225   | 25RB#0           | 4.486                    | 5.100                | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 25RB#0           | 4.496                    | 4.950                | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 25RB#0           | 4.496                    | 4.940                | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 25RB#0           | 4.496                    | 4.960                | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 50RB#0           | 8.911                    | 9.740                | PASS    |
| Band38 | 10MHz     | QPSK       | 38000   | 50RB#0           | 8.911                    | 9.740                | PASS    |
| Band38 | 10MHz     | QPSK       | 38200   | 50RB#0           | 8.911                    | 9.760                | PASS    |
| Band38 | 10MHz     | 64QAM      | 37800   | 50RB#0           | 8.931                    | 9.800                | PASS    |
| Band38 | 10MHz     | 64QAM      | 38000   | 50RB#0           | 8.931                    | 9.800                | PASS    |
| Band38 | 10MHz     | 64QAM      | 38200   | 50RB#0           | 8.931                    | 9.800                | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 50RB#0           | 8.911                    | 9.640                | PASS    |
| Band38 | 10MHz     | 16QAM      | 38000   | 50RB#0           | 8.911                    | 9.660                | PASS    |
| Band38 | 10MHz     | 16QAM      | 38200   | 50RB#0           | 8.911                    | 9.640                | PASS    |
| Band38 | 15MHz     | QPSK       | 37825   | 75RB#0           | 13.516                   | 16.260               | PASS    |
| Band38 | 15MHz     | QPSK       | 38000   | 75RB#0           | 13.516                   | 16.050               | PASS    |
| Band38 | 15MHz     | QPSK       | 38175   | 75RB#0           | 13.487                   | 16.410               | PASS    |
| Band38 | 15MHz     | 64QAM      | 37825   | 75RB#0           | 13.457                   | 14.910               | PASS    |
| Band38 | 15MHz     | 64QAM      | 38000   | 75RB#0           | 13.457                   | 14.850               | PASS    |
| Band38 | 15MHz     | 64QAM      | 38175   | 75RB#0           | 13.457                   | 14.970               | PASS    |
| Band38 | 15MHz     | 16QAM      | 37825   | 75RB#0           | 13.487                   | 15.240               | PASS    |
| Band38 | 15MHz     | 16QAM      | 38000   | 75RB#0           | 13.487                   | 15.060               | PASS    |
| Band38 | 15MHz     | 16QAM      | 38175   | 75RB#0           | 13.457                   | 15.060               | PASS    |
| Band38 | 20MHz     | QPSK       | 37850   | 100RB#0          | 17.942                   | 19.720               | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0          | 17.942                   | 19.600               | PASS    |
| Band38 | 20MHz     | QPSK       | 38150   | 100RB#0          | 17.942                   | 19.920               | PASS    |
| Band38 | 20MHz     | 64QAM      | 37850   | 100RB#0          | 17.902                   | 19.520               | 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)

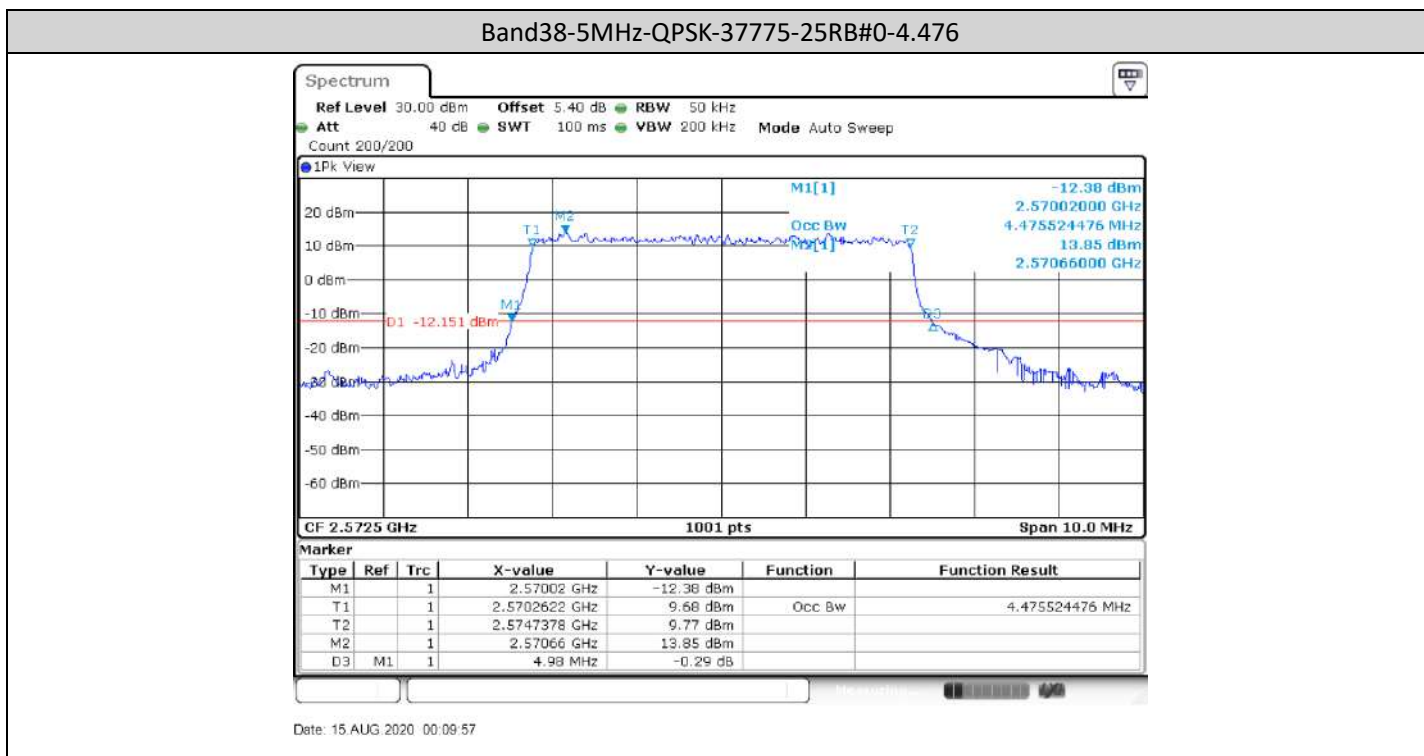
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch, 2020 Shenzhen Laboratory

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

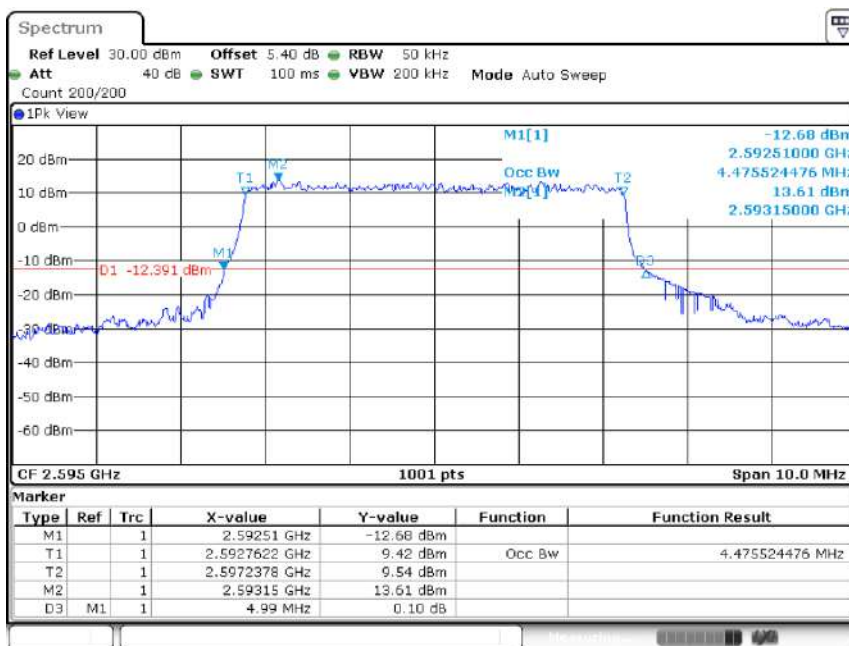


|        |       |       |       |         |        |        |      |
|--------|-------|-------|-------|---------|--------|--------|------|
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | 17.942 | 19.480 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | 17.902 | 19.600 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 17.902 | 20.280 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 17.942 | 20.000 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 17.902 | 20.120 | PASS |

## 4.2. Test Plots

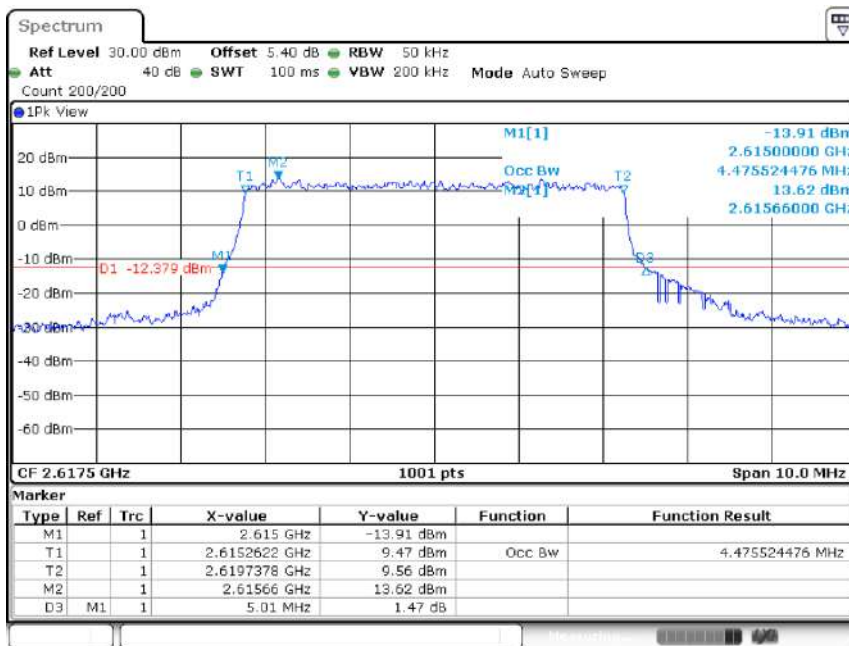


## Band38-5MHz-QPSK-38000-25RB#0-4.476



Date: 15 AUG 2020 00:11:03

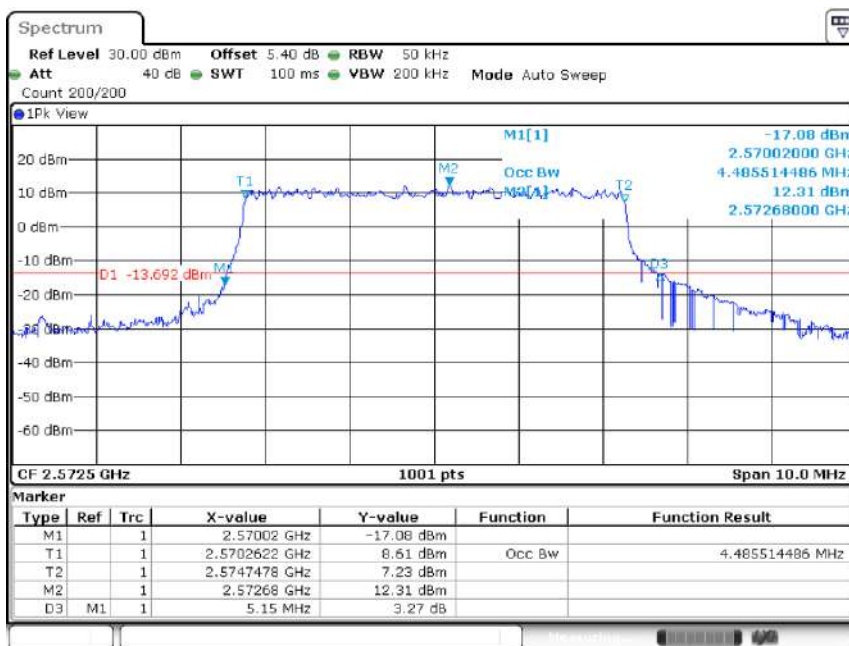
## Band38-5MHz-QPSK-38225-25RB#0-4.476



Date: 15 AUG 2020 00:12:09

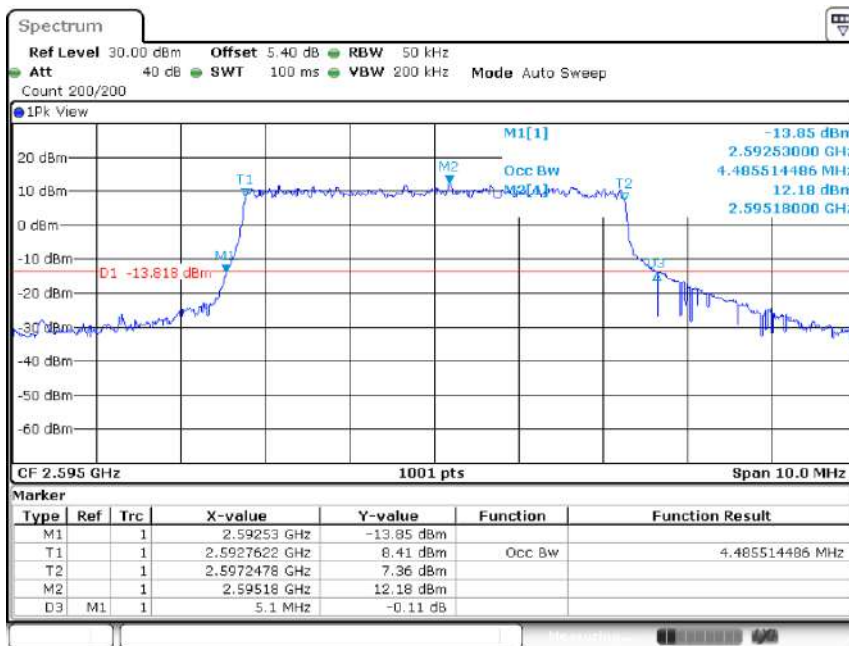


## Band38-5MHz-64QAM-37775-25RB#0-4.486



Date: 15 AUG 2020 02:32:00

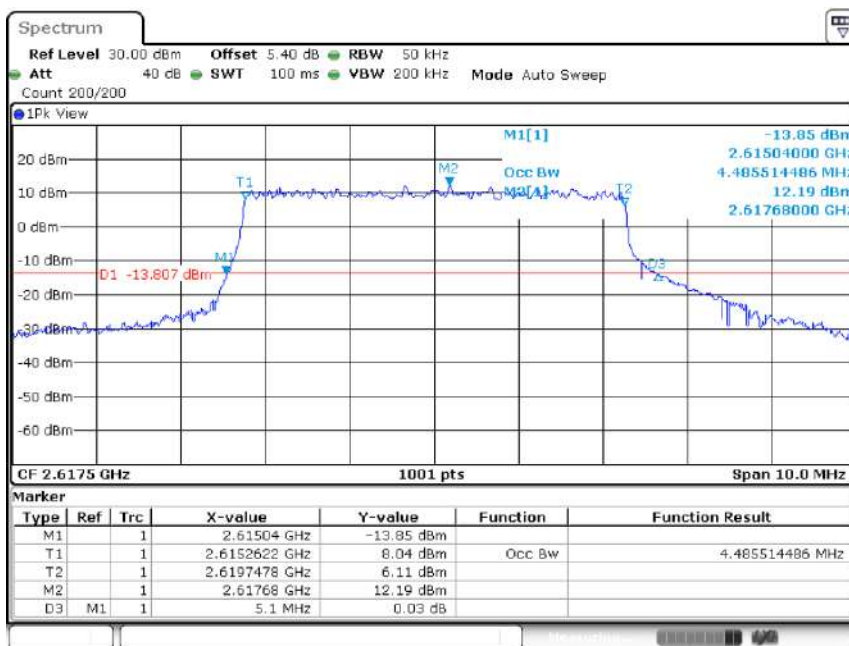
## Band38-5MHz-64QAM-38000-25RB#0-4.486



Date: 15 AUG 2020 02:32:34

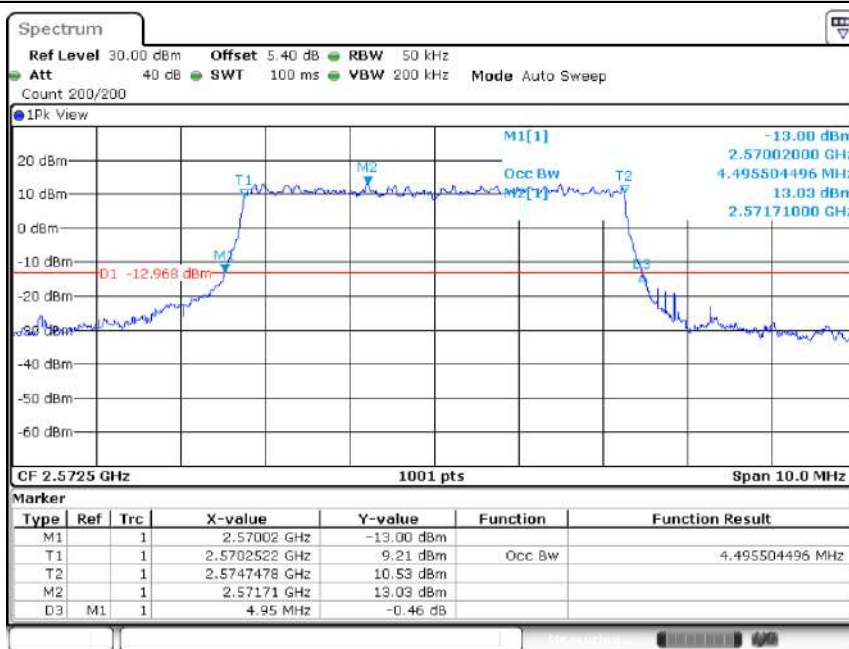


## Band38-5MHz-64QAM-38225-25RB#0-4.486



Date: 15 AUG 2020 02:33:07

## Band38-5MHz-16QAM-37775-25RB#0-4.496



Date: 15 AUG 2020 00:10:30



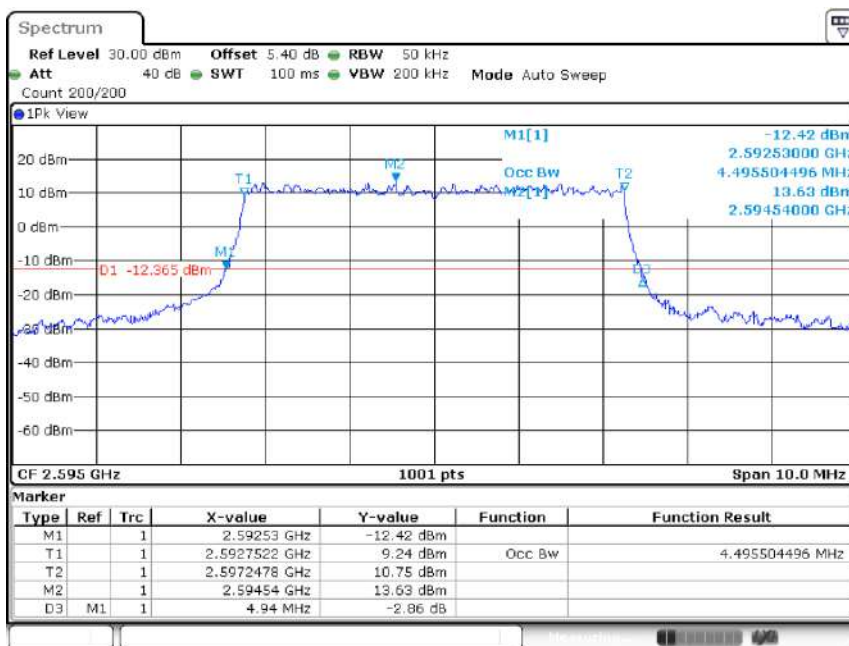
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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

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

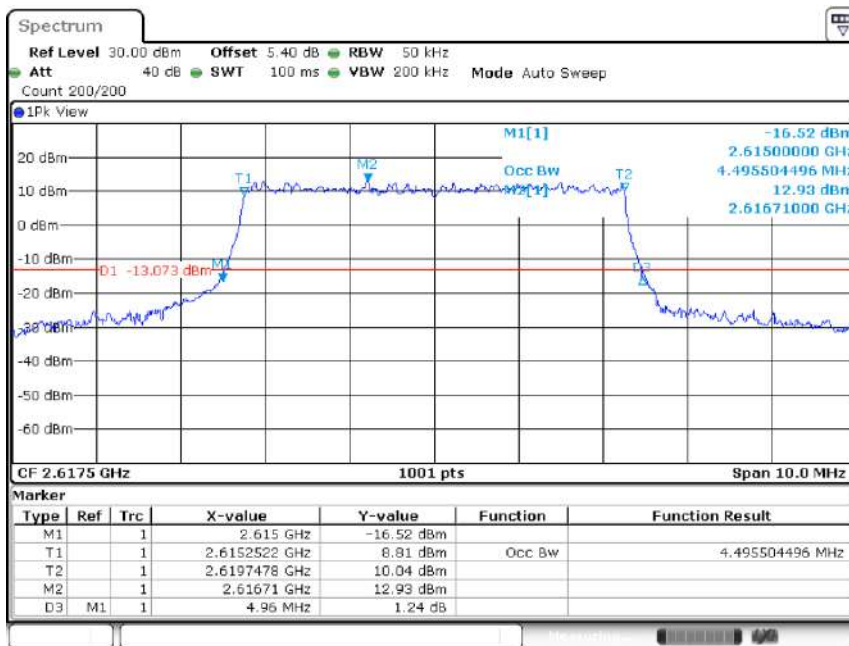
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## Band38-5MHz-16QAM-38000-25RB#0-4.496



Date: 15 AUG 2020 00:11:36

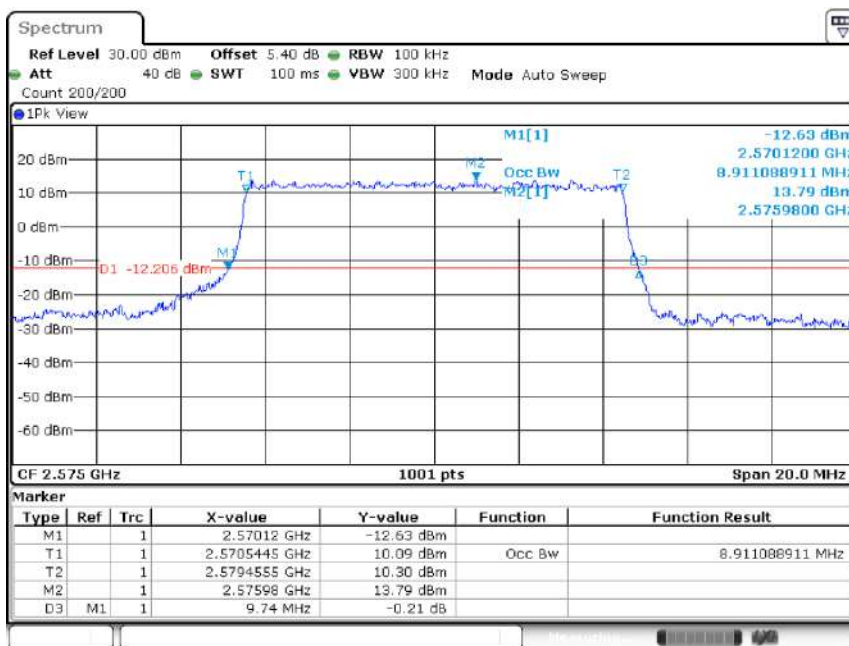
## Band38-5MHz-16QAM-38225-25RB#0-4.496



Date: 15 AUG 2020 00:12:41

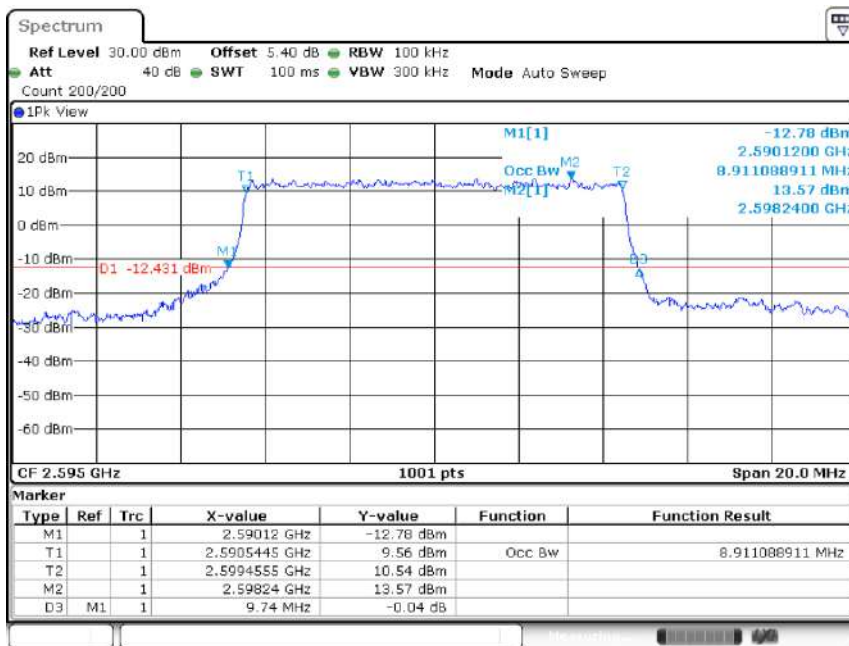


## Band38-10MHz-QPSK-37800-50RB#0-8.911



Date: 15 AUG 2020 00:13:20

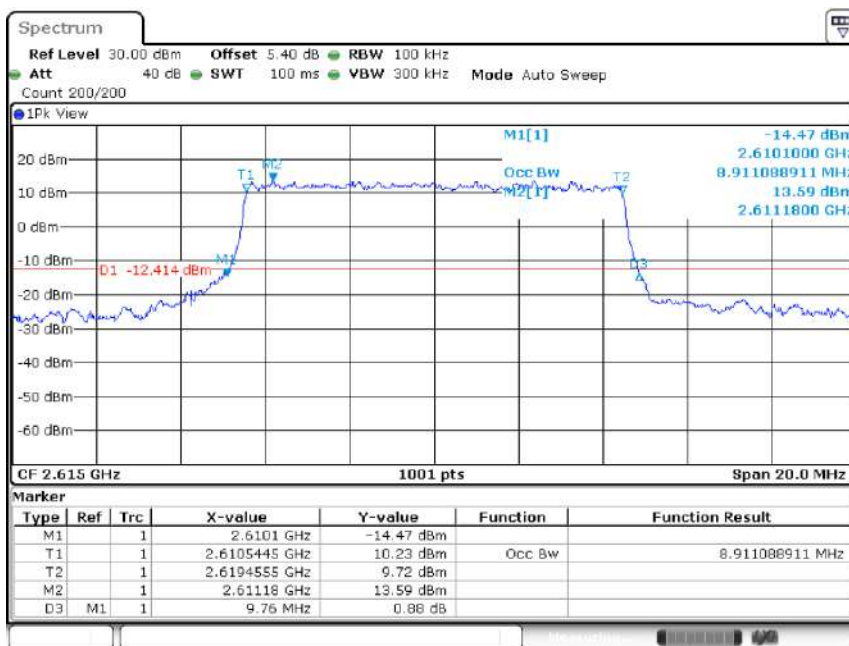
## Band38-10MHz-QPSK-38000-50RB#0-8.911



Date: 15 AUG 2020 00:14:26

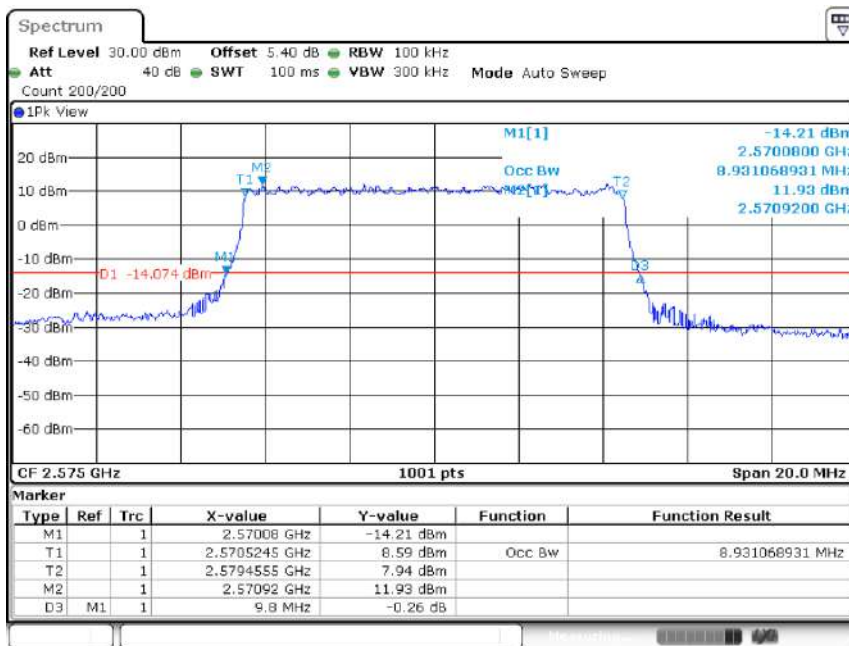


## Band38-10MHz-QPSK-38200-50RB#0-8.911



Date: 15 AUG 2020 00:15:32

## Band38-10MHz-64QAM-37800-50RB#0-8.931



Date: 15 AUG 2020 02:33:47



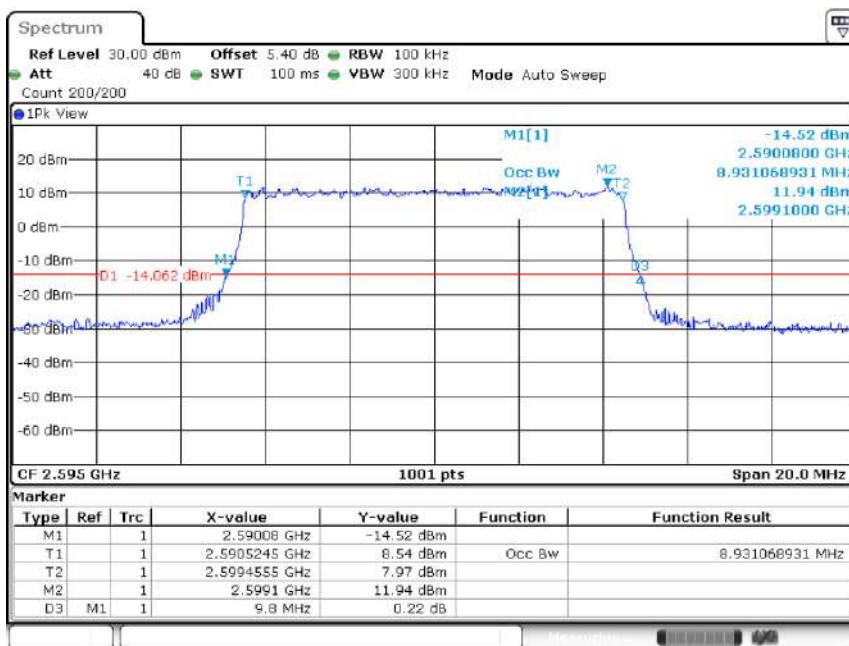
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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

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

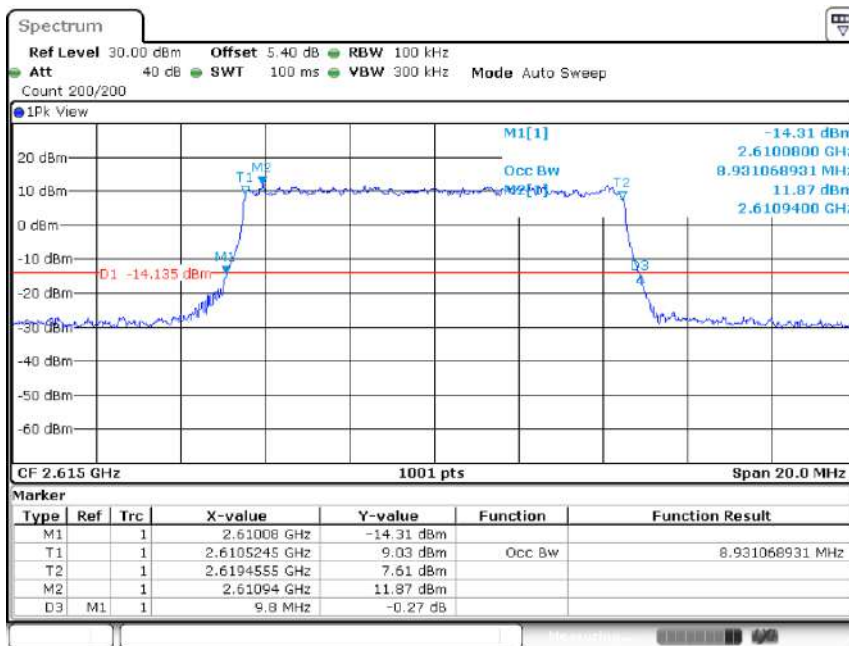
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## Band38-10MHz-64QAM-38000-50RB#0-8.931



Date: 15 AUG 2020 02:34:20

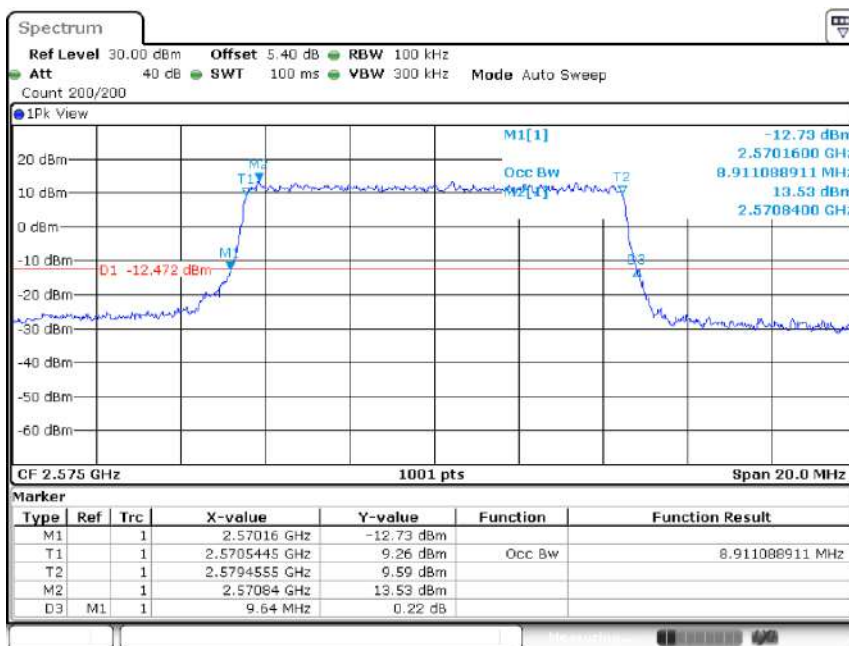
## Band38-10MHz-64QAM-38200-50RB#0-8.931



Date: 15 AUG 2020 02:34:53

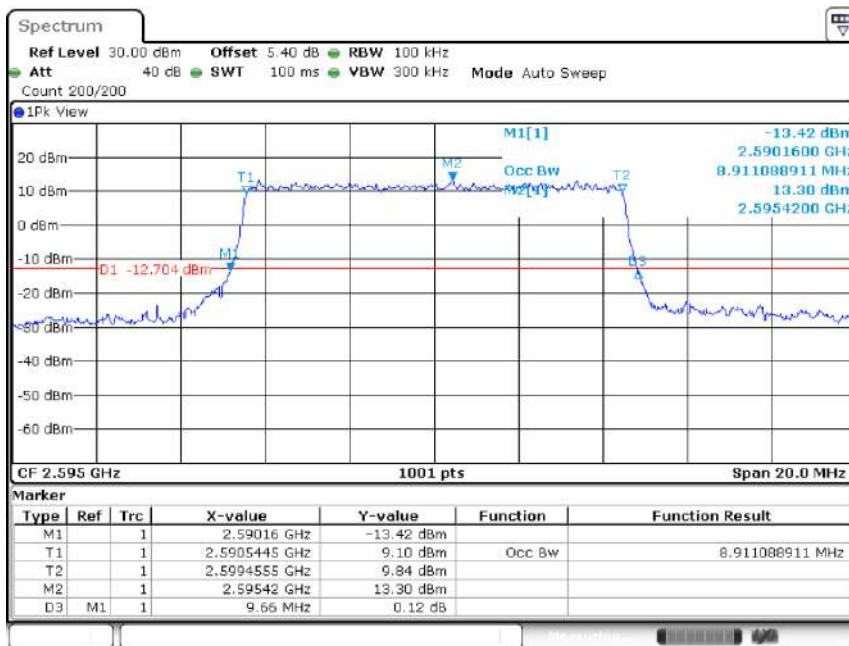


## Band38-10MHz-16QAM-37800-50RB#0-8.911



Date: 15 AUG 2020 00:13:53

## Band38-10MHz-16QAM-38000-50RB#0-8.911



Date: 15 AUG 2020 00:14:59



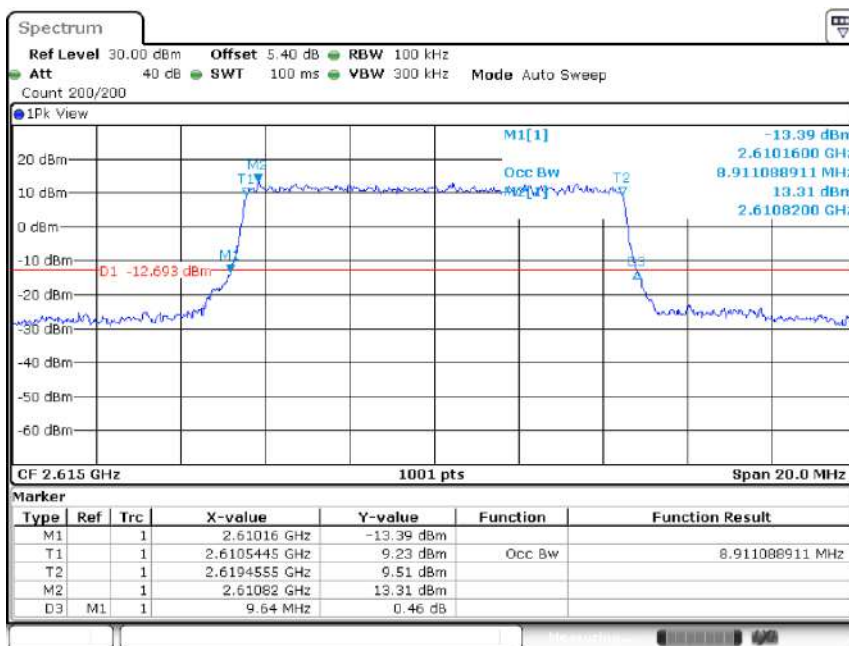
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

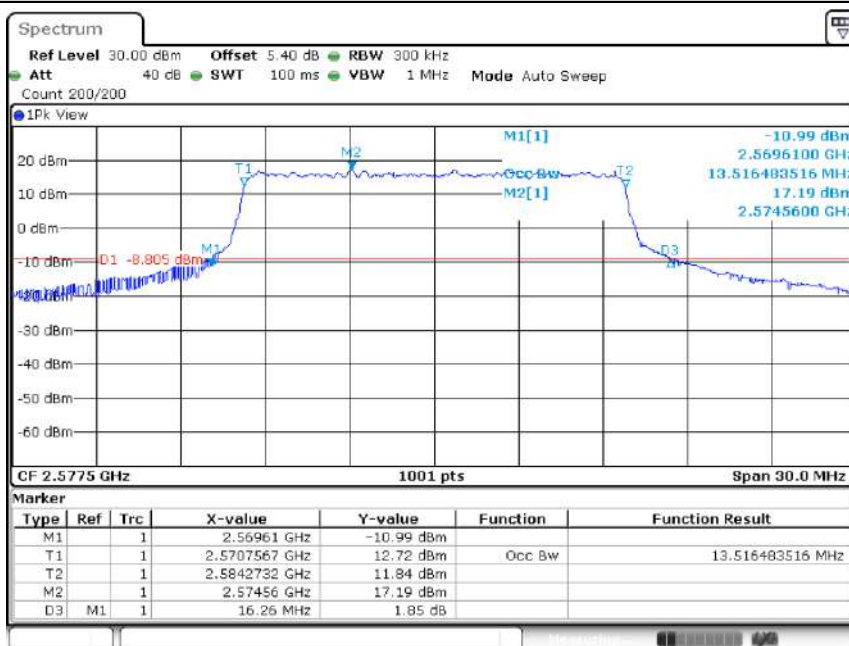
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## Band38-10MHz-16QAM-38200-50RB#0-8.911



Date: 15 AUG 2020 00:16:05

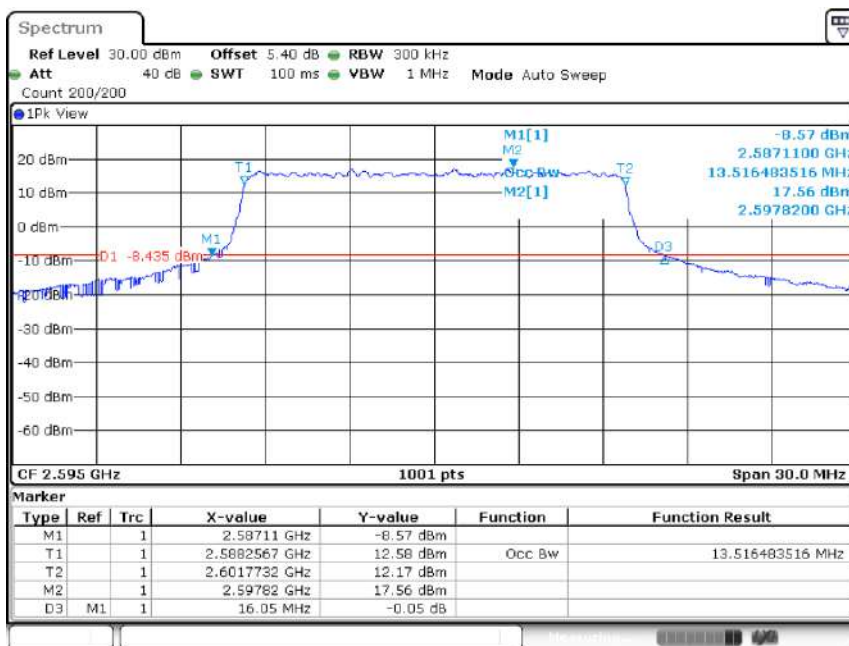
## Band38-15MHz-QPSK-37825-75RB#0-13.516



Date: 21 AUG 2020 14:37:48

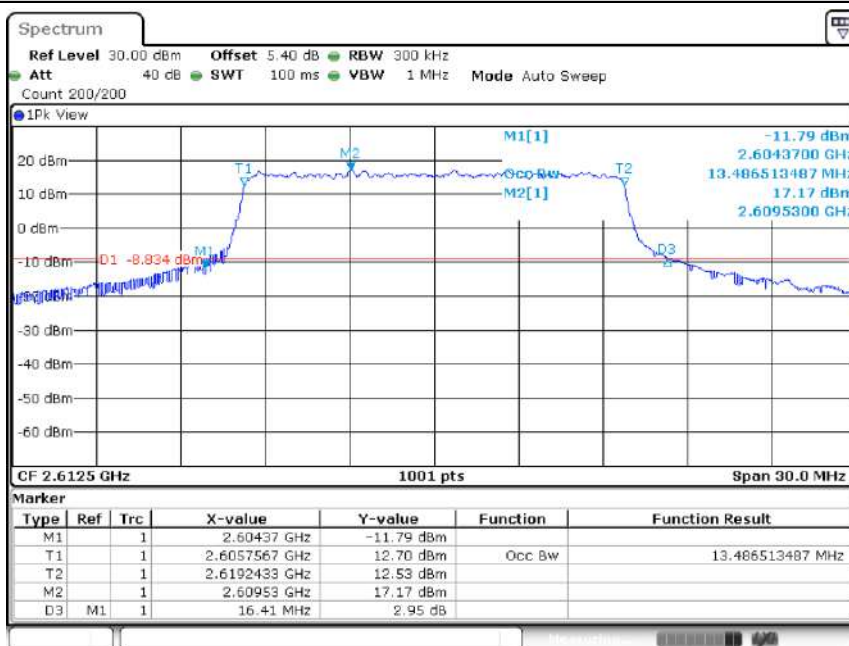


## Band38-15MHz-QPSK-38000-75RB#0-13.516



Date: 21 AUG 2020 14:40:17

## Band38-15MHz-QPSK-38175-75RB#0-13.487



Date: 21 AUG 2020 14:42:04



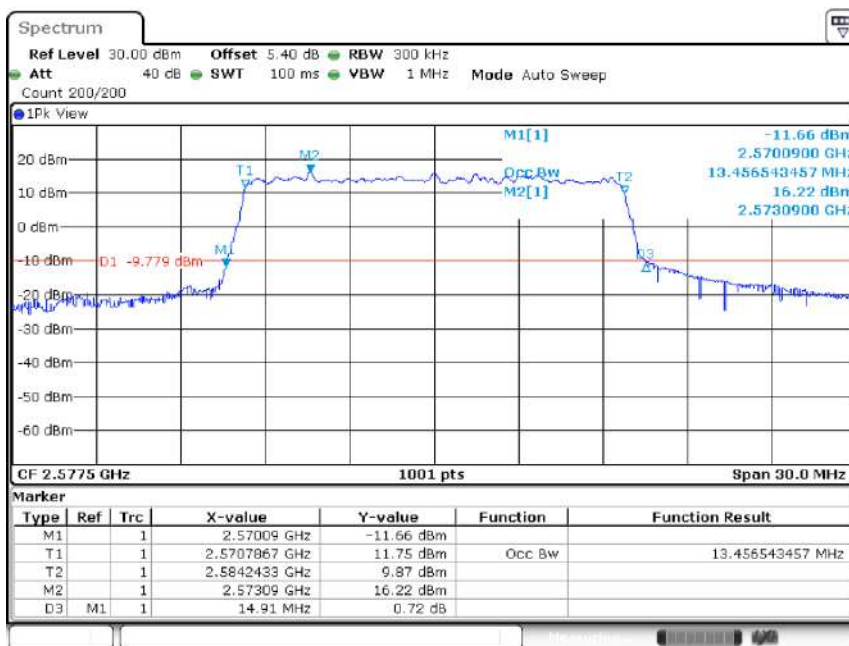
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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) 83071443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

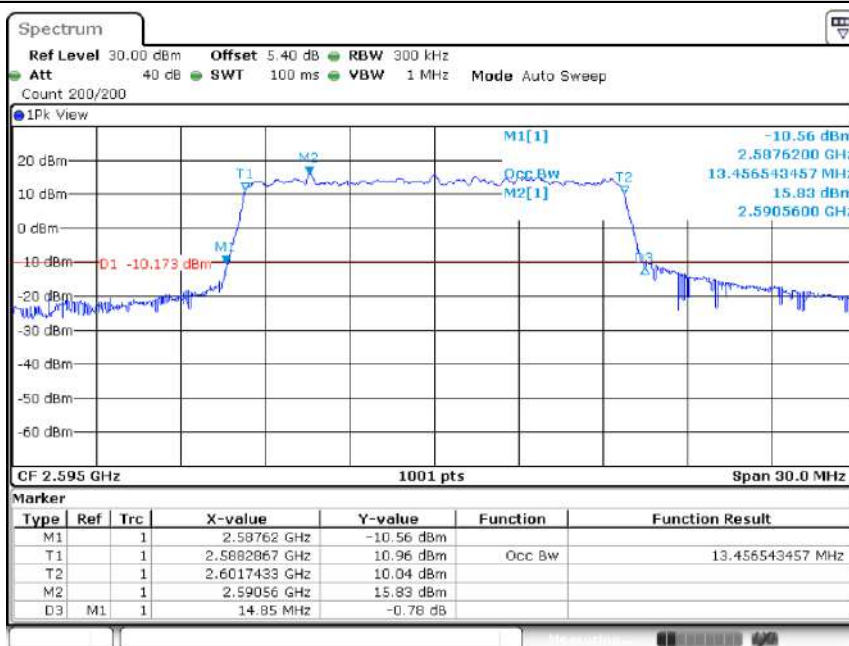
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## Band38-15MHz-64QAM-37825-75RB#0-13.457



Date: 15 AUG 2020 02:35:33

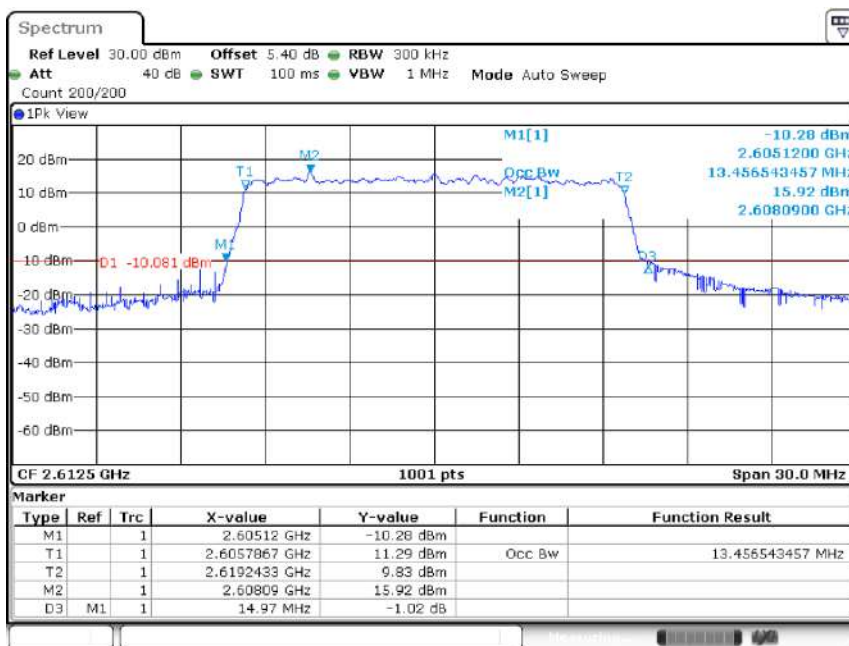
## Band38-15MHz-64QAM-38000-75RB#0-13.457



Date: 15 AUG 2020 02:36:06

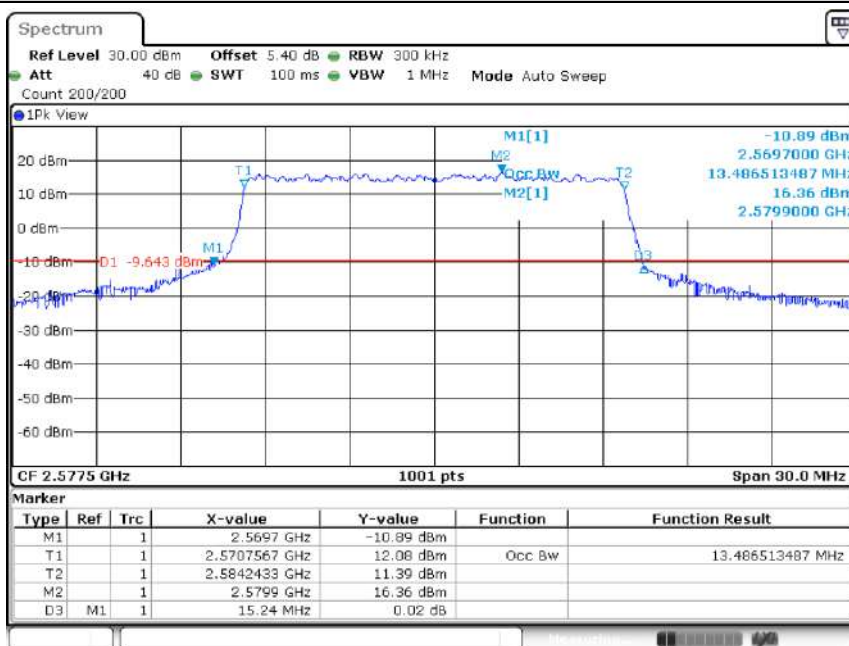


## Band38-15MHz-64QAM-38175-75RB#0-13.457



Date: 15 AUG 2020 02:36:39

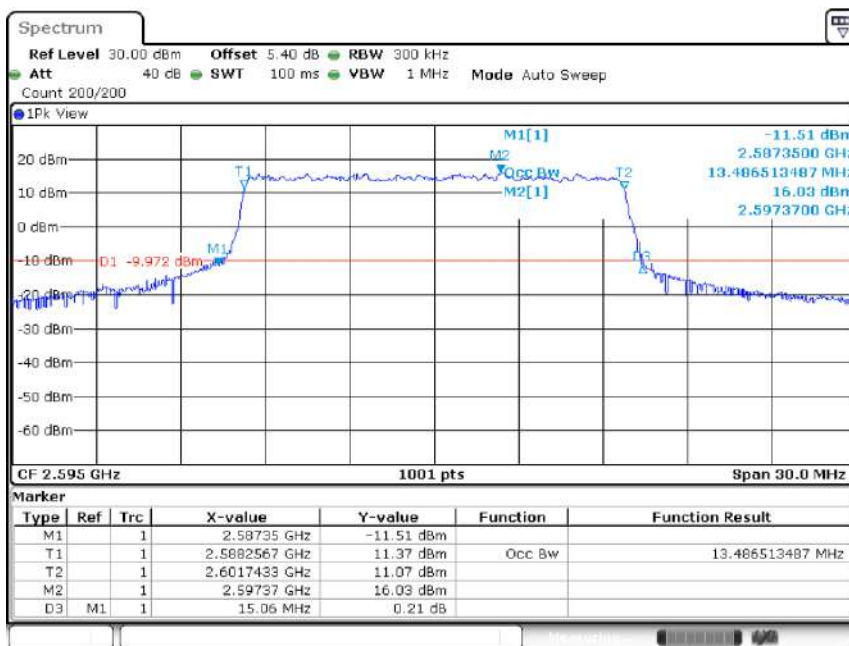
## Band38-15MHz-16QAM-37825-75RB#0-13.487



Date: 21 AUG 2020 14:38:21

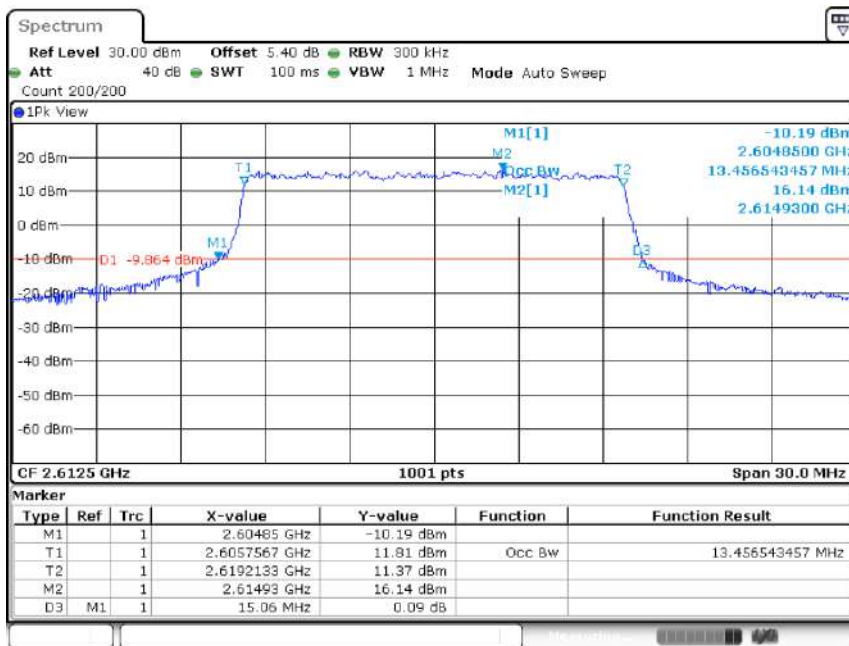


## Band38-15MHz-16QAM-38000-75RB#0-13.487



Date: 21 AUG 2020 14:40:50

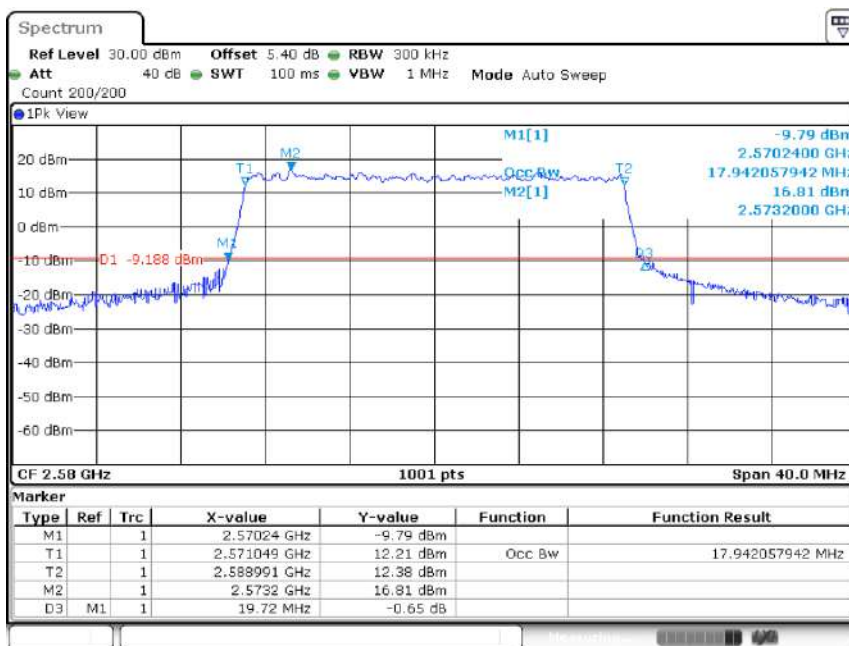
## Band38-15MHz-16QAM-38175-75RB#0-13.457



Date: 21 AUG 2020 14:42:37

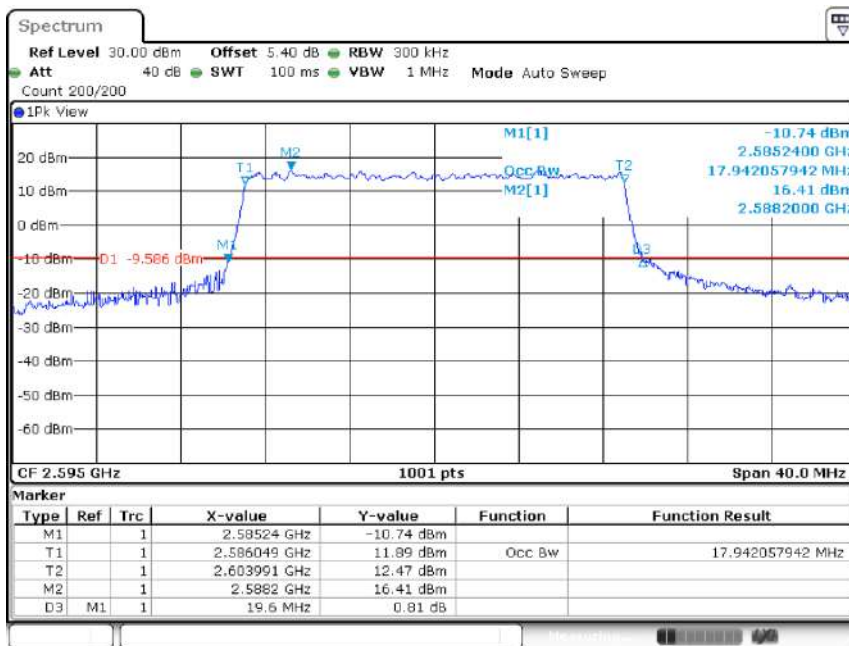


## Band38-20MHz-QPSK-37850-100RB#0-17.942



Date: 15 AUG 2020 00:20:08

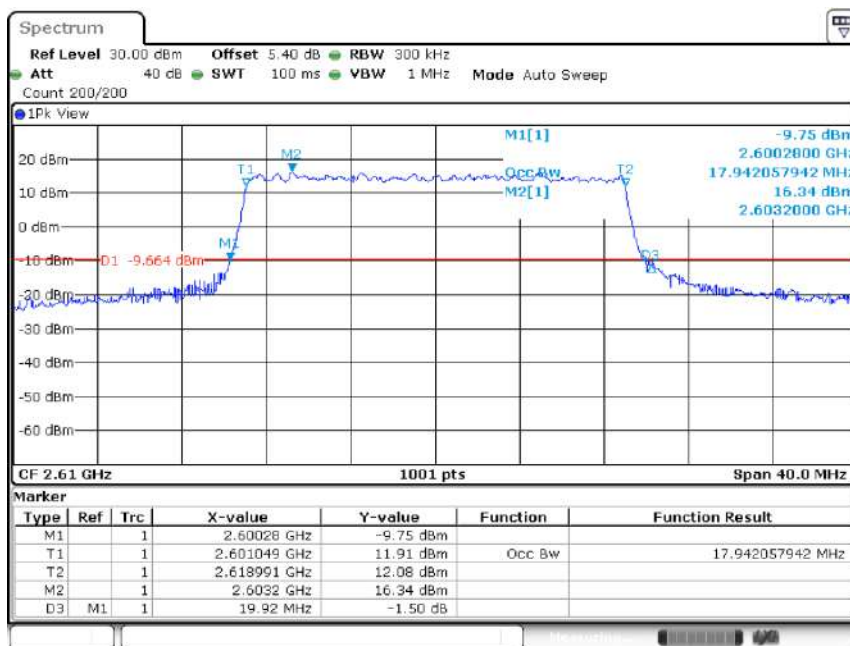
## Band38-20MHz-QPSK-38000-100RB#0-17.942



Date: 15 AUG 2020 00:21:14

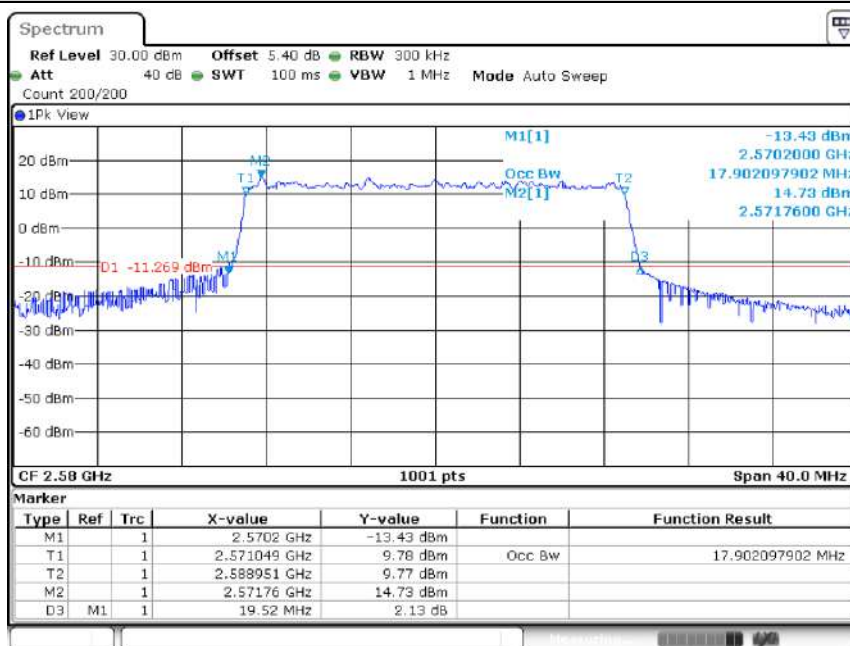


## Band38-20MHz-QPSK-38150-100RB#0-17.942



Date: 15 AUG 2020 00:22:20

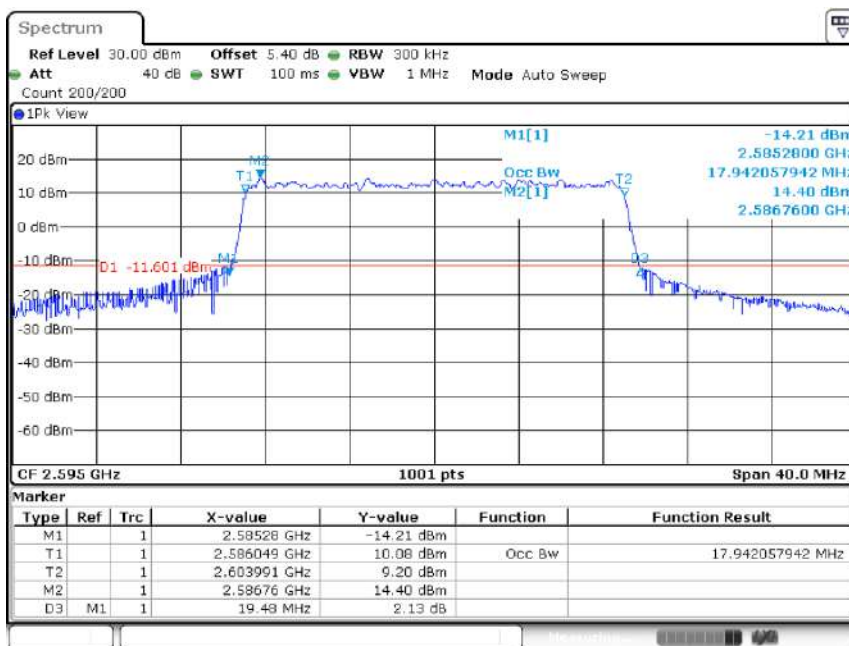
## Band38-20MHz-64QAM-37850-100RB#0-17.902



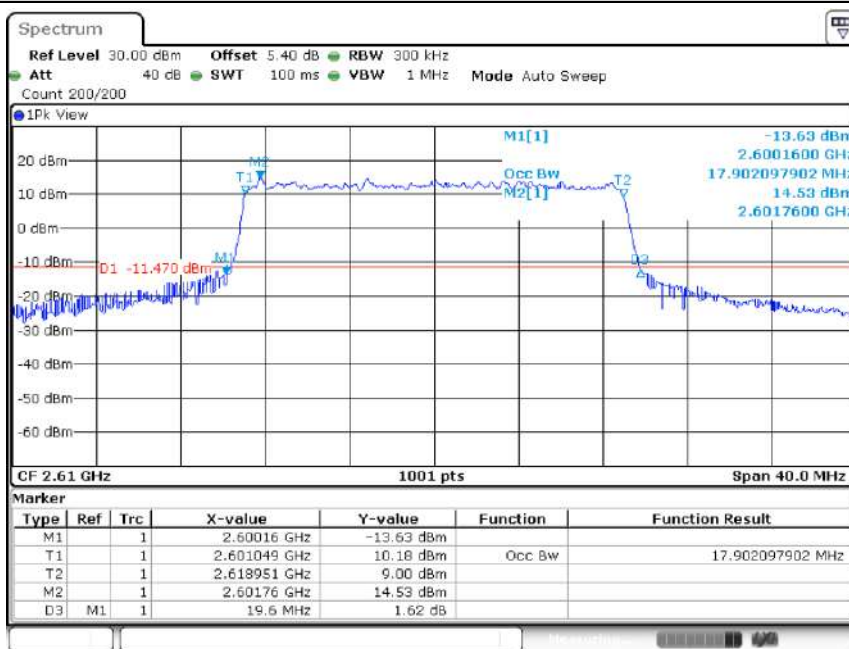
Date: 15 AUG 2020 02:37:19



## Band38-20MHz-64QAM-38000-100RB#0-17.942



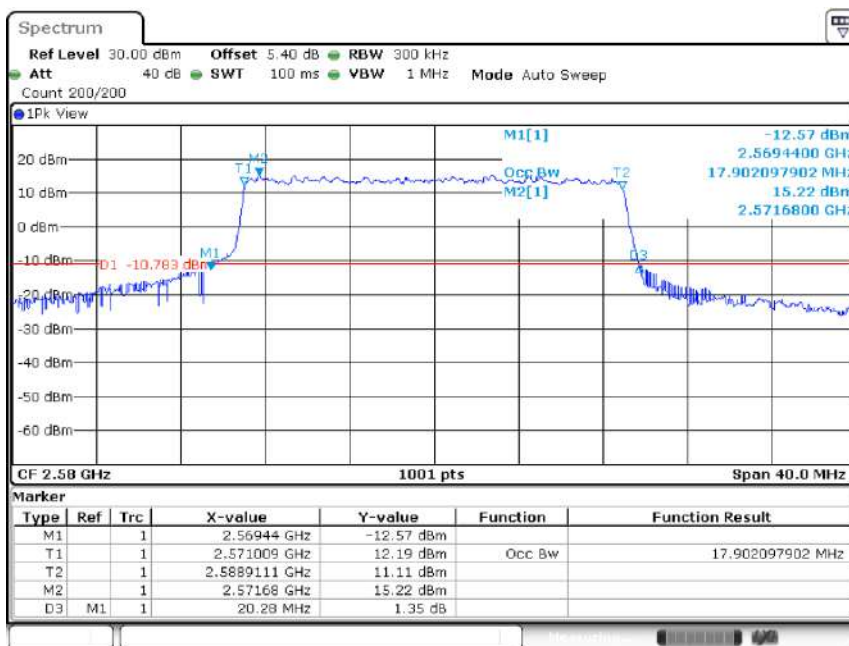
## Band38-20MHz-64QAM-38150-100RB#0-17.902



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.

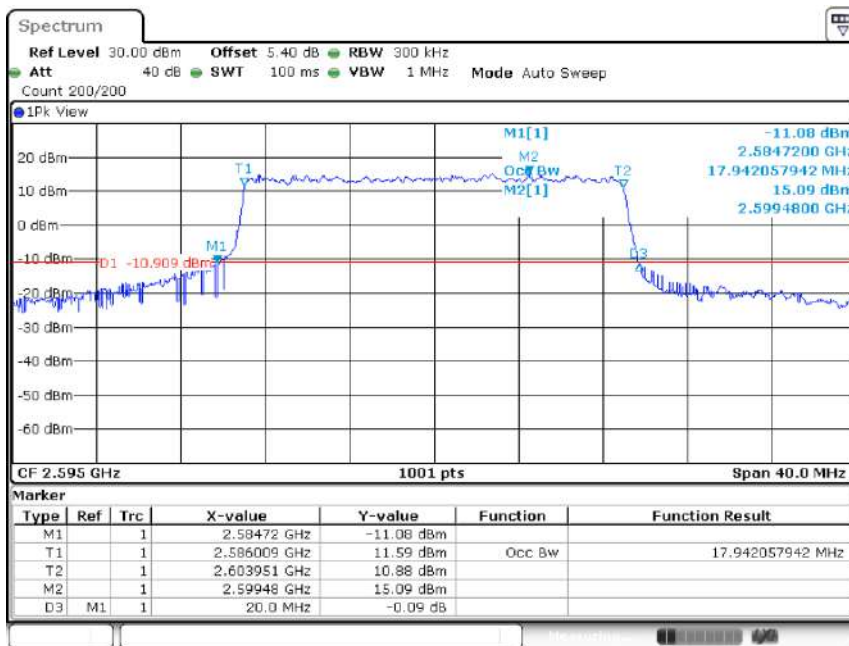
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 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

## Band38-20MHz-16QAM-37850-100RB#0-17.902



Date: 15 AUG 2020 00:20:41

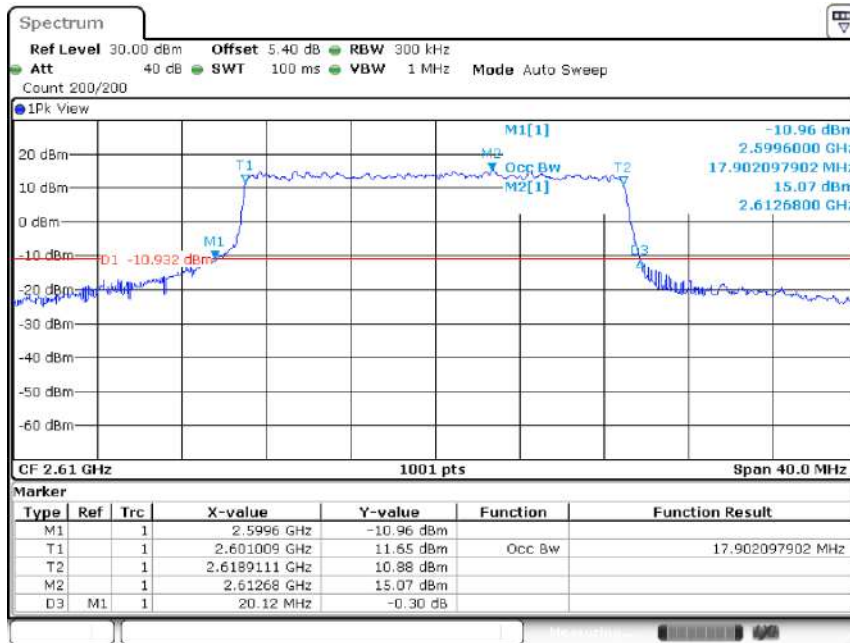
## Band38-20MHz-16QAM-38000-100RB#0-17.942



Date: 15 AUG 2020 00:21:47



Band38-20MHz-16QAM-38150-100RB#0-17.902

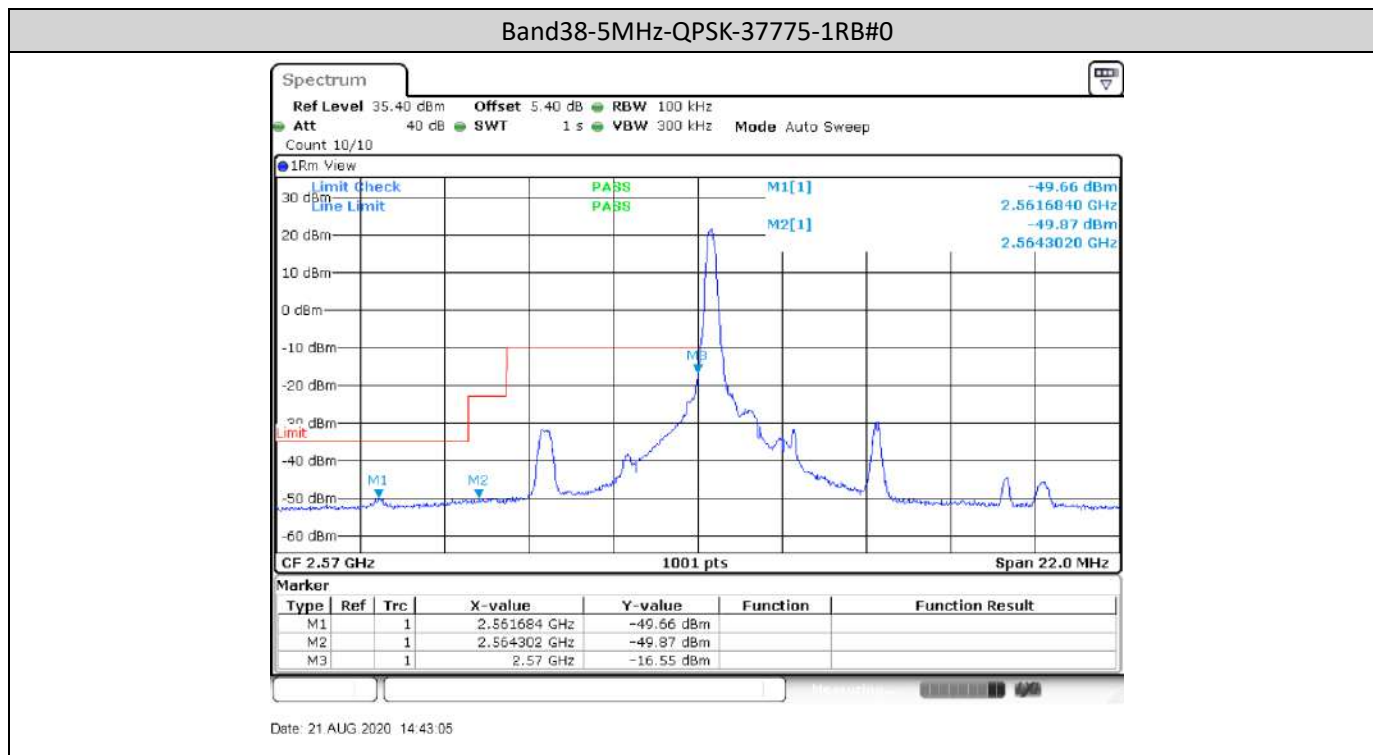


Date: 15.AUG.2020 00:22:53



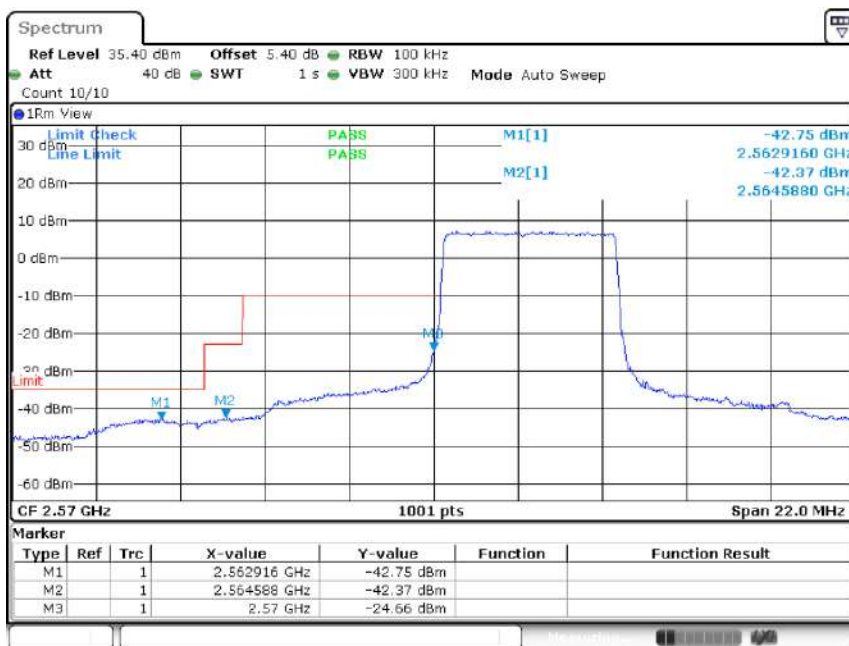
## 5. Band Edge Compliance

### 5.1. Test Plots



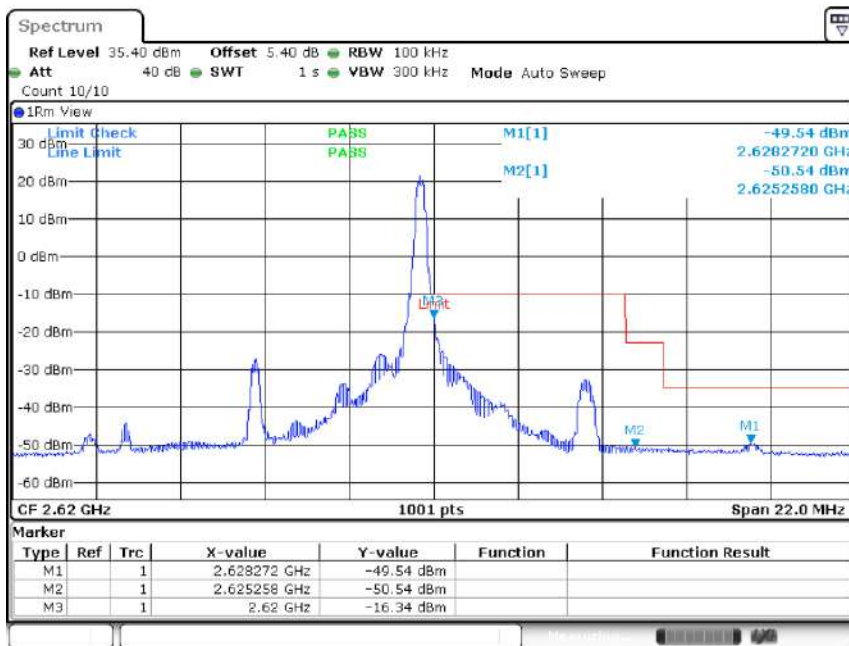
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

## Band38-5MHz-QPSK-37775-25RB#0



Date: 21 AUG 2020 14:45:16

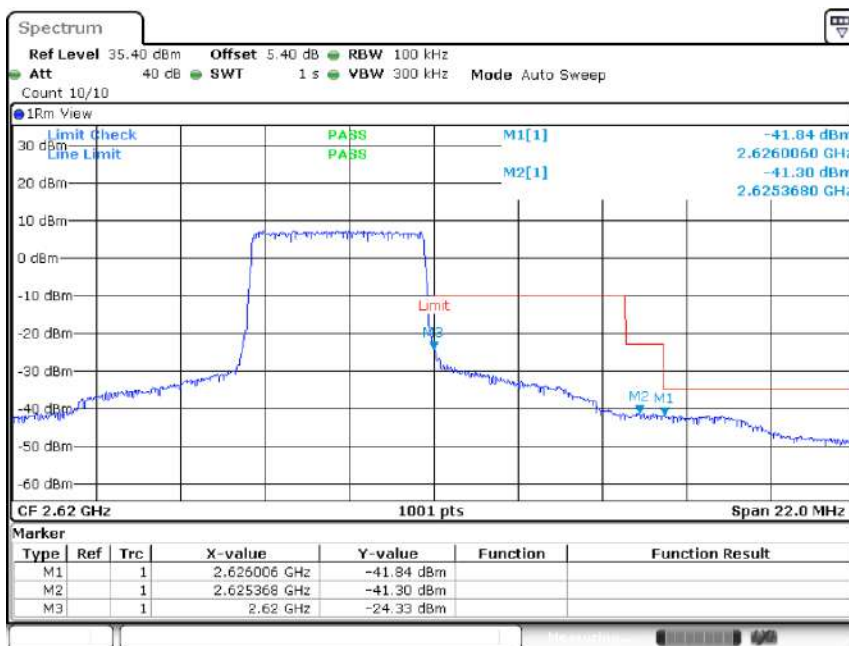
## Band38-5MHz-QPSK-38225-1RB#24



Date: 21 AUG 2020 14:44:10

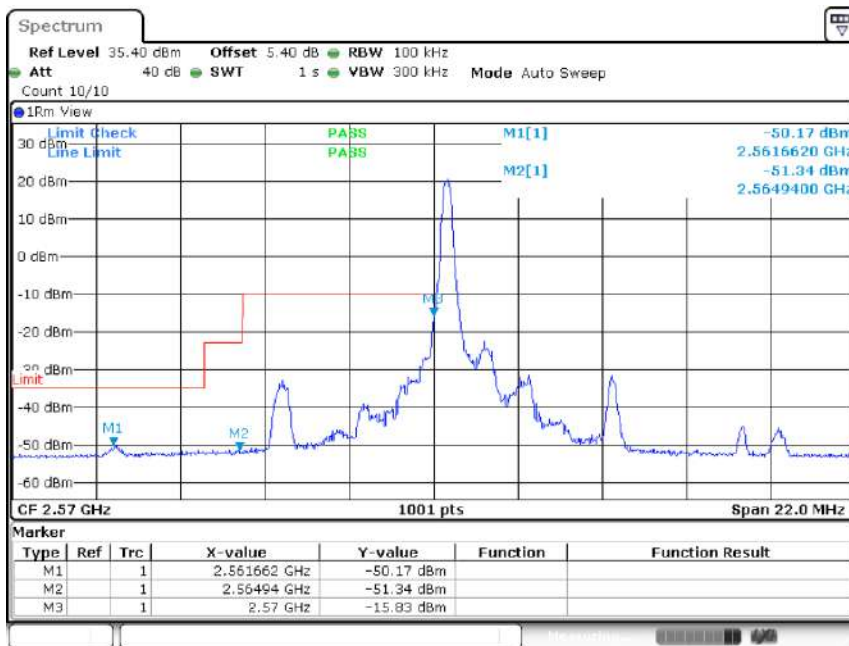


## Band38-5MHz-QPSK-38225-25RB#0



Date: 21 AUG 2020 14:46:29

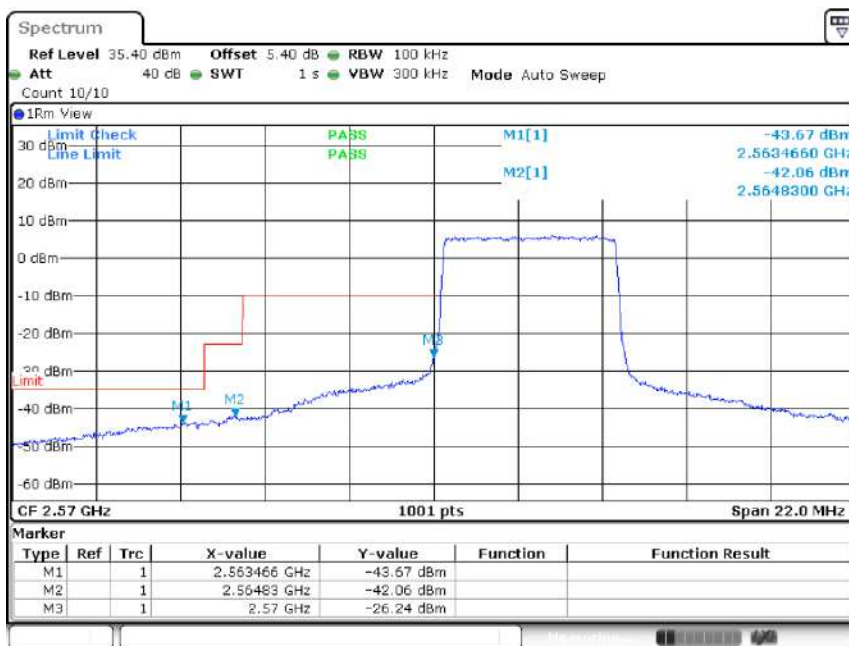
## Band38-5MHz-64QAM-37775-1RB#0



Date: 21 AUG 2020 14:47:42

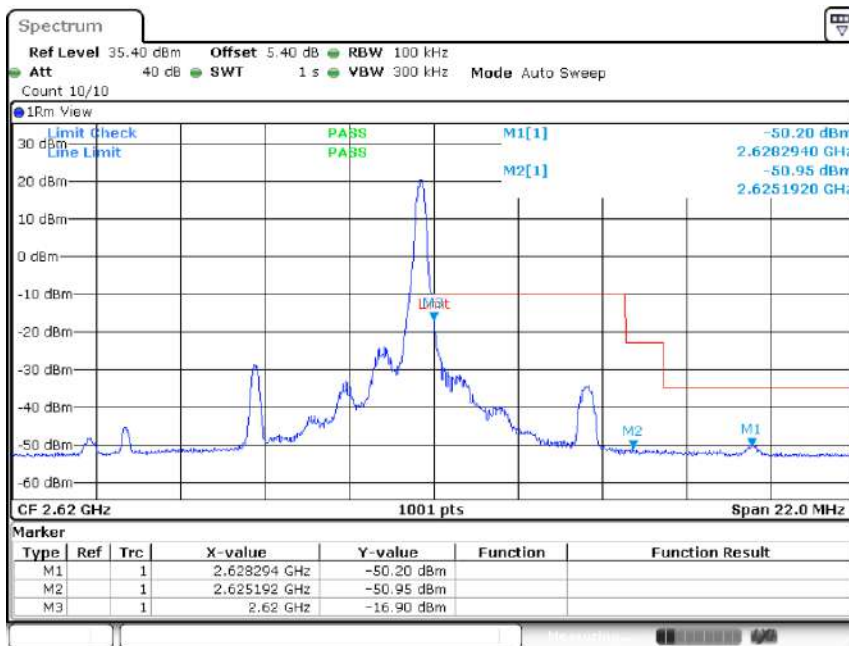


## Band38-5MHz-64QAM-37775-25RB#0



Date: 21 AUG 2020 14:49:07

## Band38-5MHz-64QAM-38225-1RB#24



Date: 21 AUG 2020 14:48:40



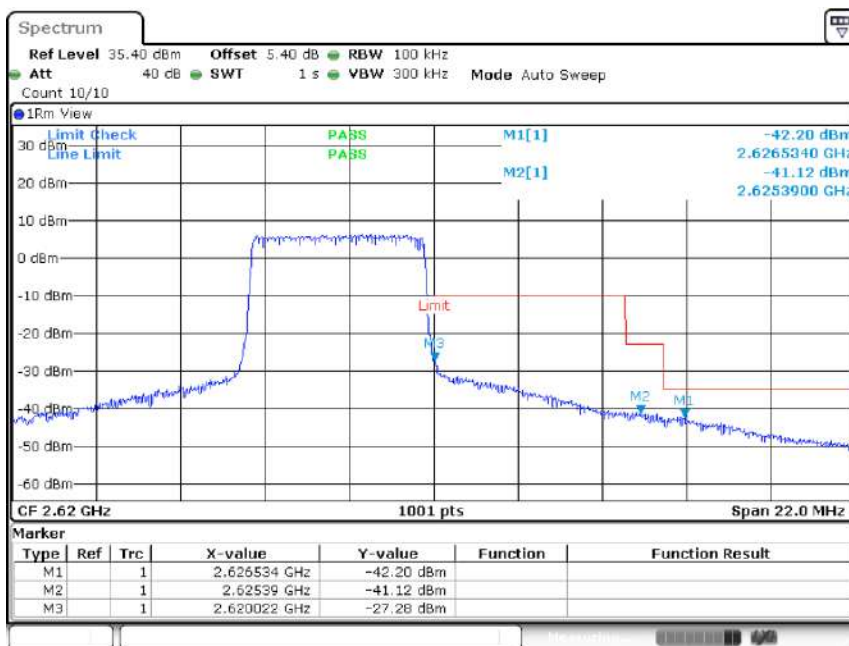
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

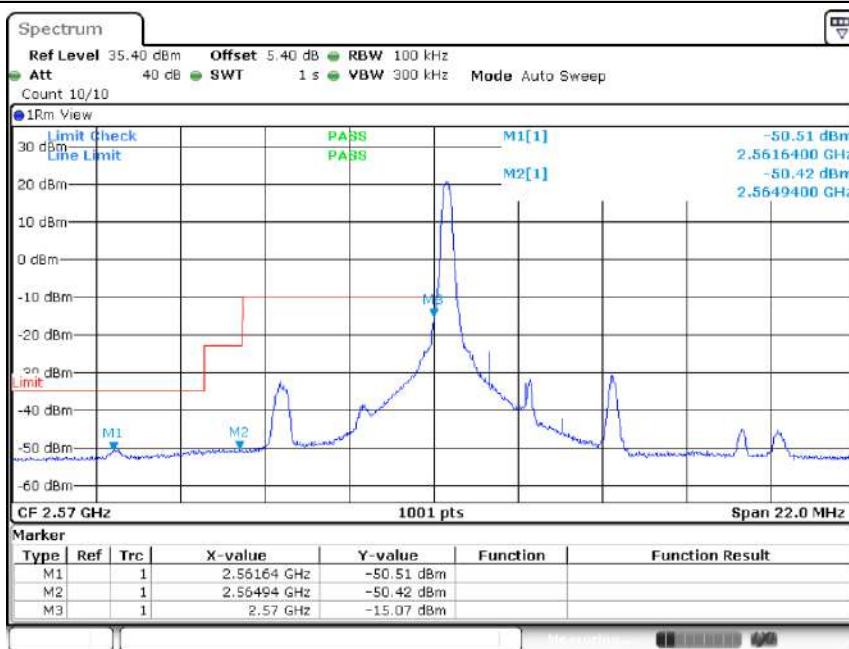
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## Band38-5MHz-64QAM-38225-25RB#0



Date: 21 AUG 2020 14:49:58

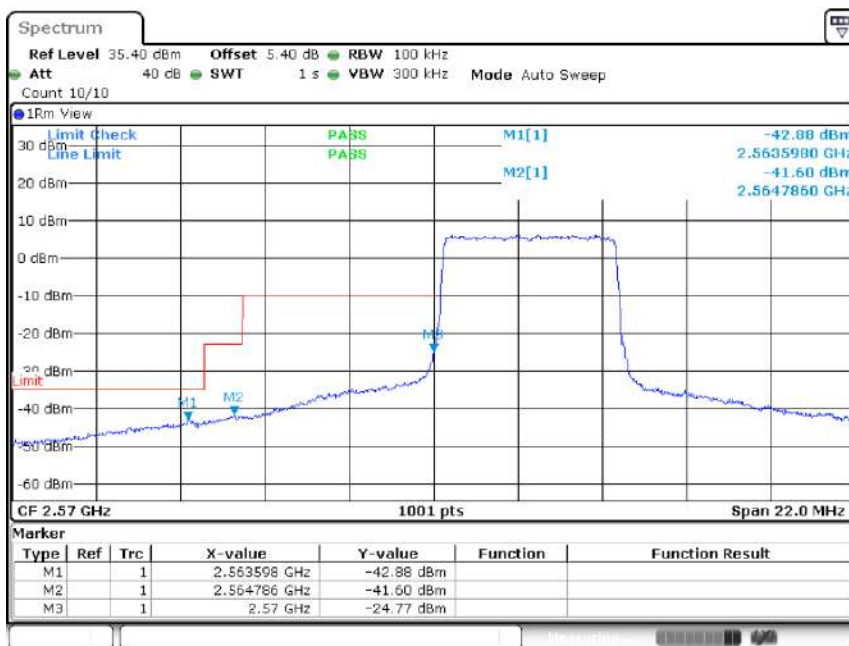
## Band38-5MHz-16QAM-37775-1RB#0



Date: 21 AUG 2020 14:43:27

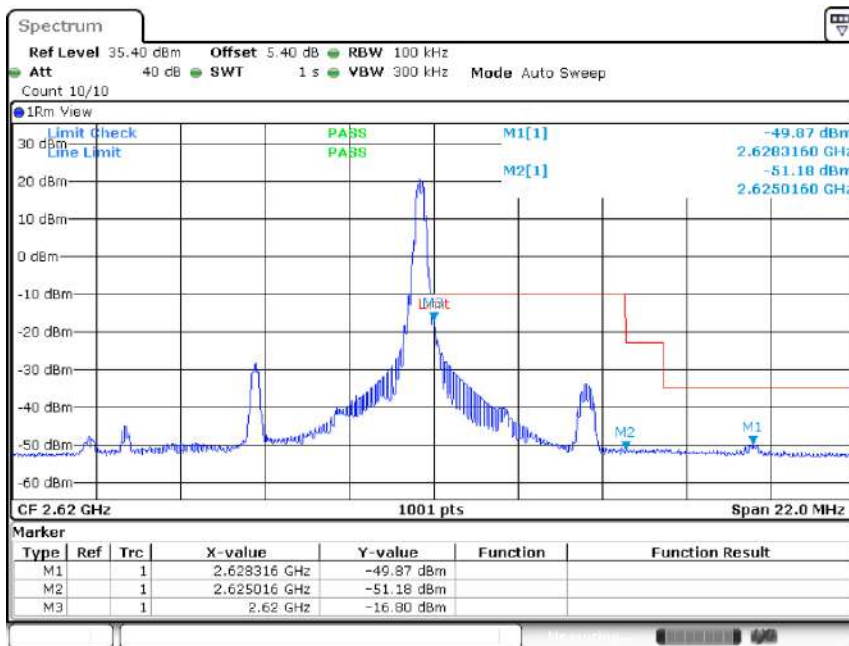


## Band38-5MHz-16QAM-37775-25RB#0



Date: 21 AUG 2020 14:45:38

## Band38-5MHz-16QAM-38225-1RB#24



Date: 21 AUG 2020 14:44:50



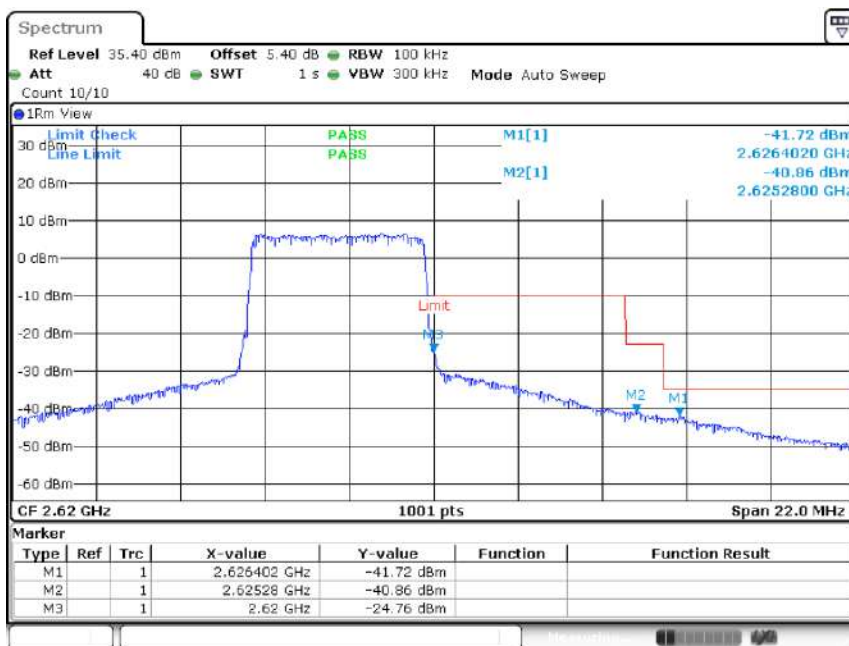
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

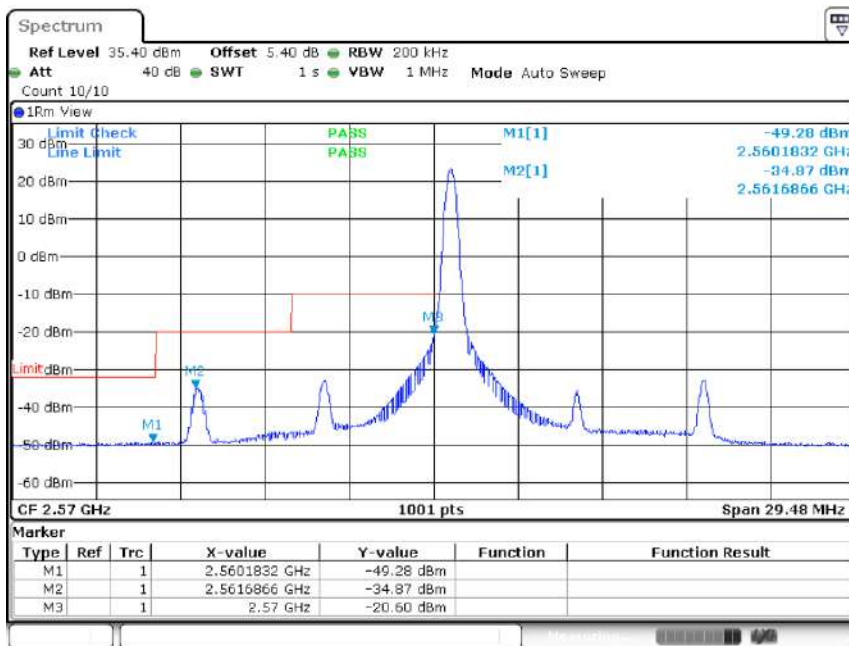
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## Band38-5MHz-16QAM-38225-25RB#0



Date: 21 AUG 2020 14:47:16

## Band38-10MHz-QPSK-37800-1RB#0



Date: 15 AUG 2020 00:26:31



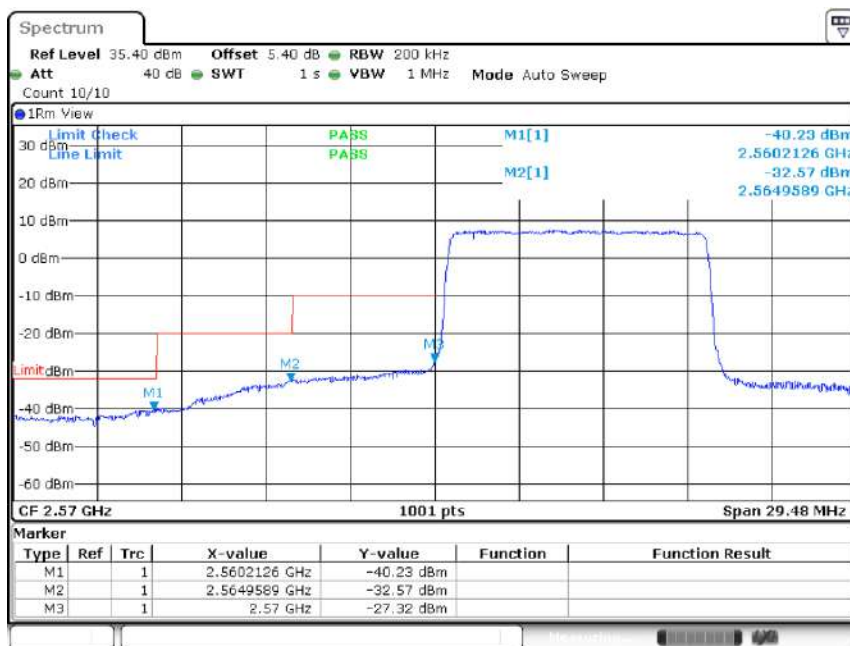
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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

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

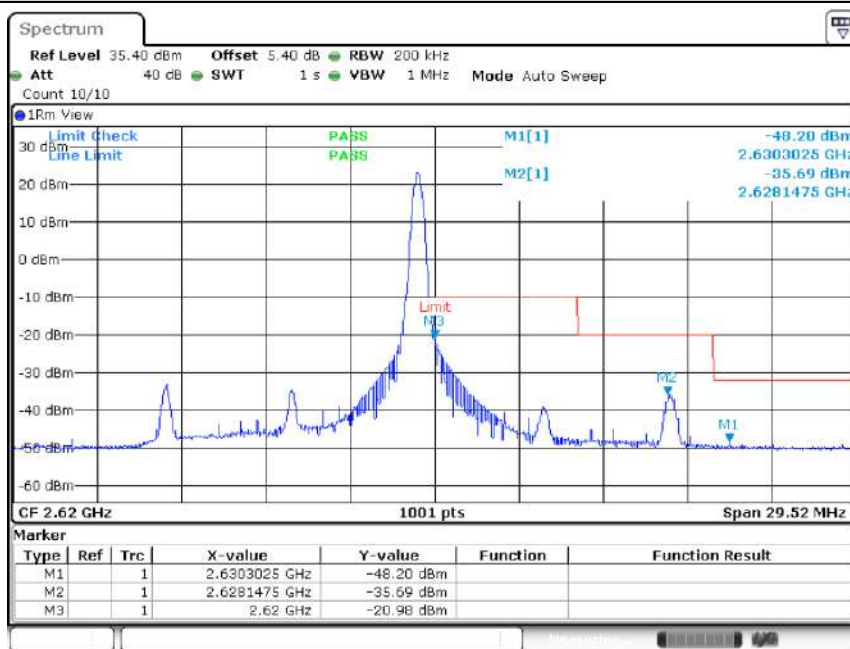
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## Band38-10MHz-QPSK-37800-50RB#0



Date: 15 AUG 2020 00:28:07

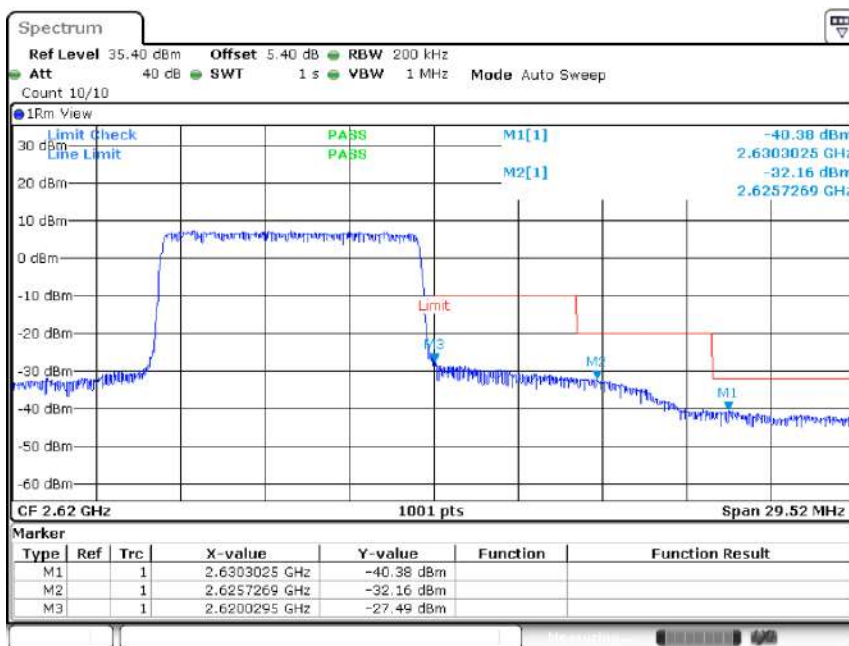
## Band38-10MHz-QPSK-38200-1RB#49



Date: 15 AUG 2020 00:27:19

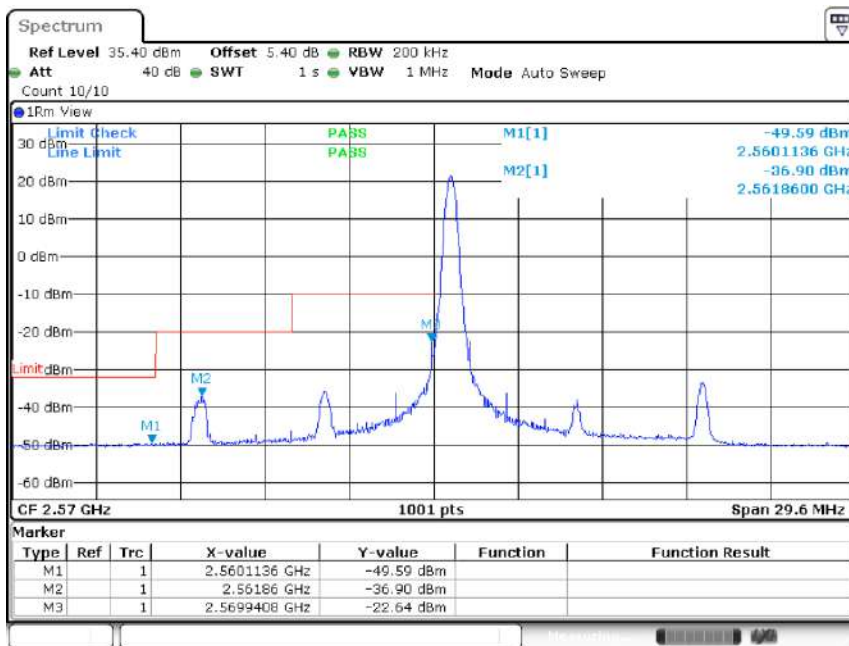


Band38-10MHz-QPSK-38200-50RB#0



Date: 15 AUG 2020 00:28:51

Band38-10MHz-64QAM-37800-1RB#0

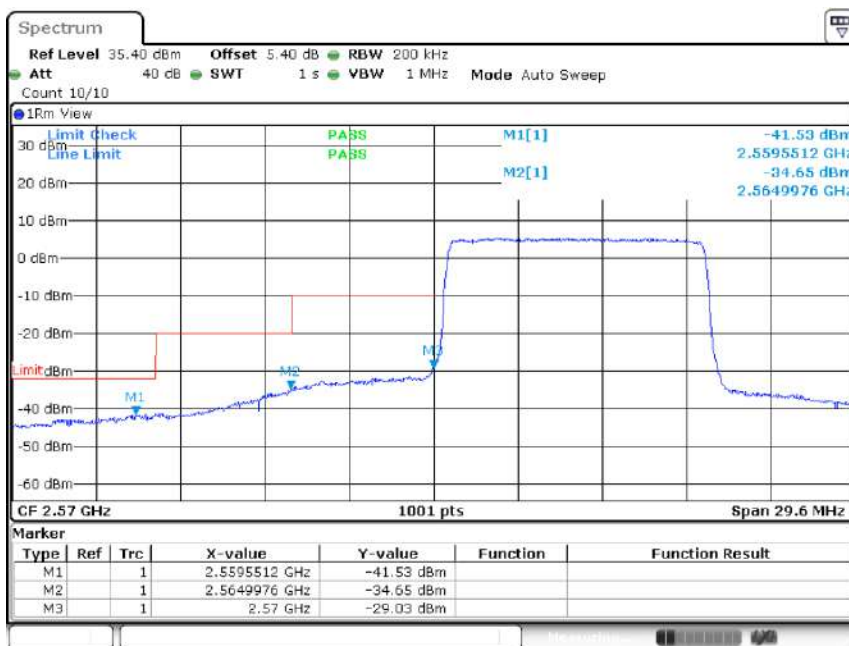


Date: 15 AUG 2020 02:40:39



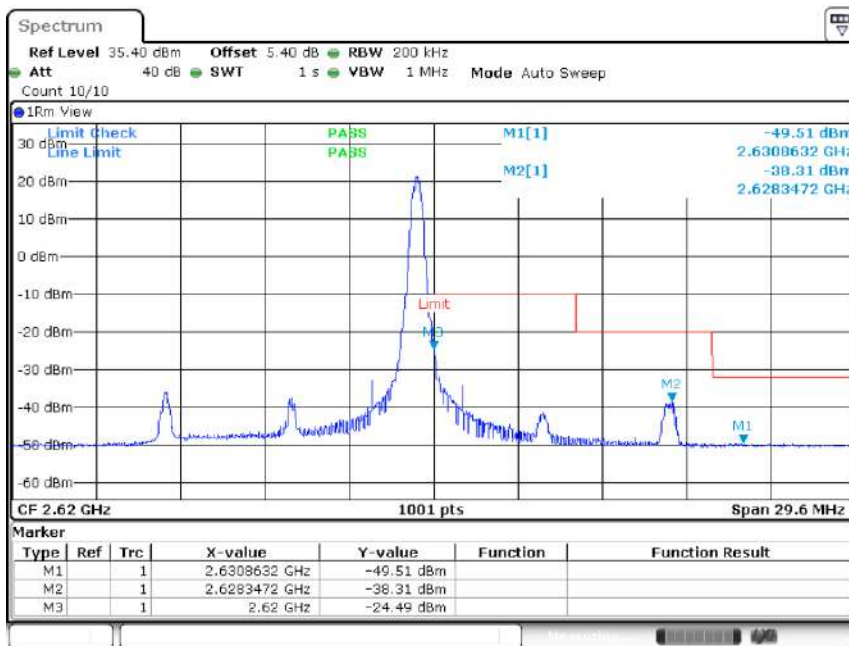
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

## Band38-10MHz-64QAM-37800-50RB#0



Date: 15 AUG 2020 02:41:33

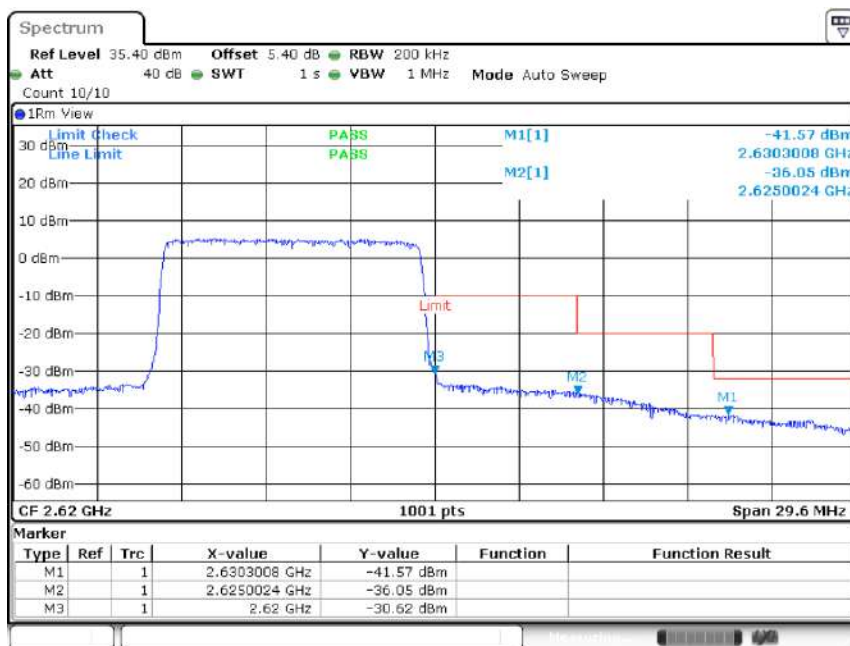
## Band38-10MHz-64QAM-38200-1RB#49



Date: 15 AUG 2020 02:41:06

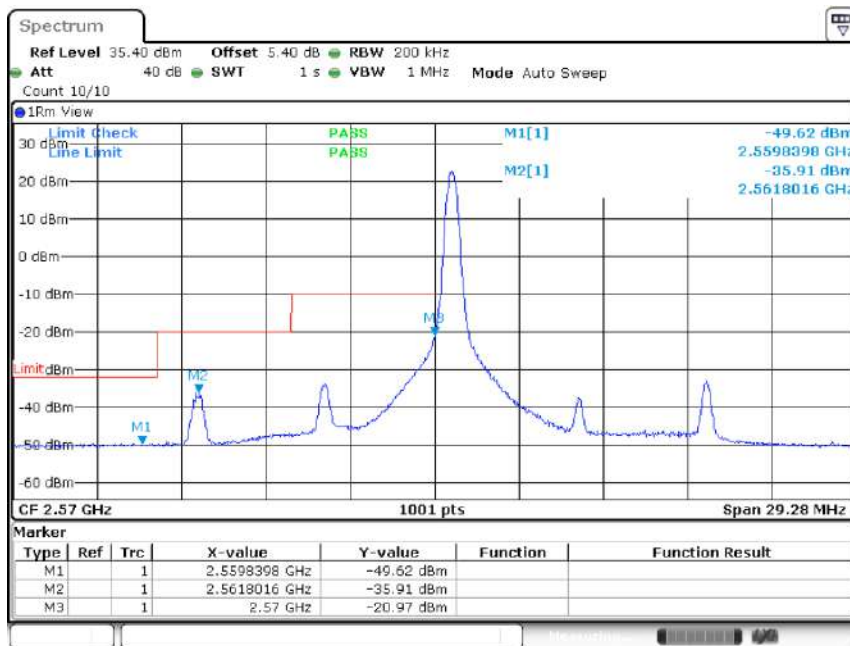


## Band38-10MHz-64QAM-38200-50RB#0



Date: 15 AUG 2020 02:41:55

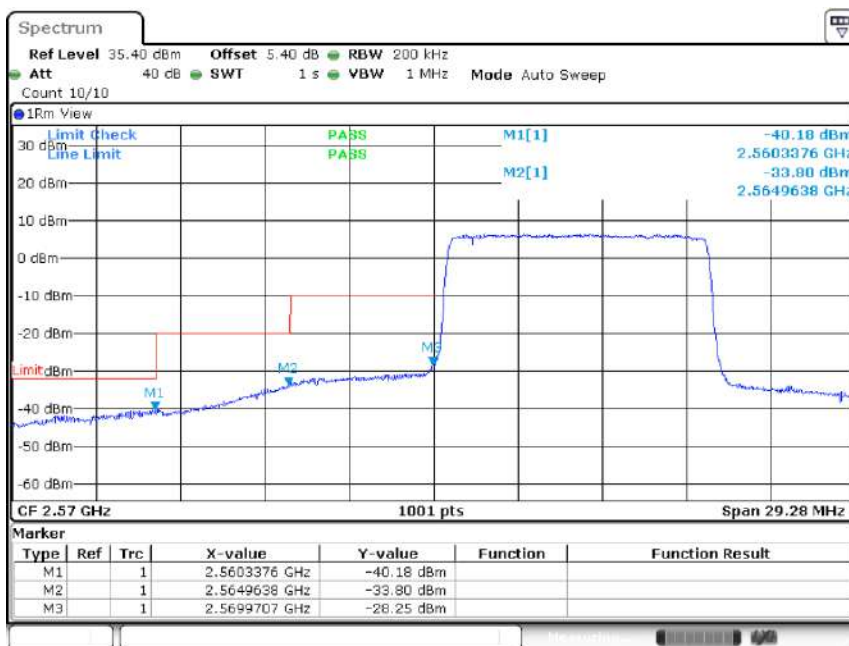
## Band38-10MHz-16QAM-37800-1RB#0



Date: 15 AUG 2020 00:26:53

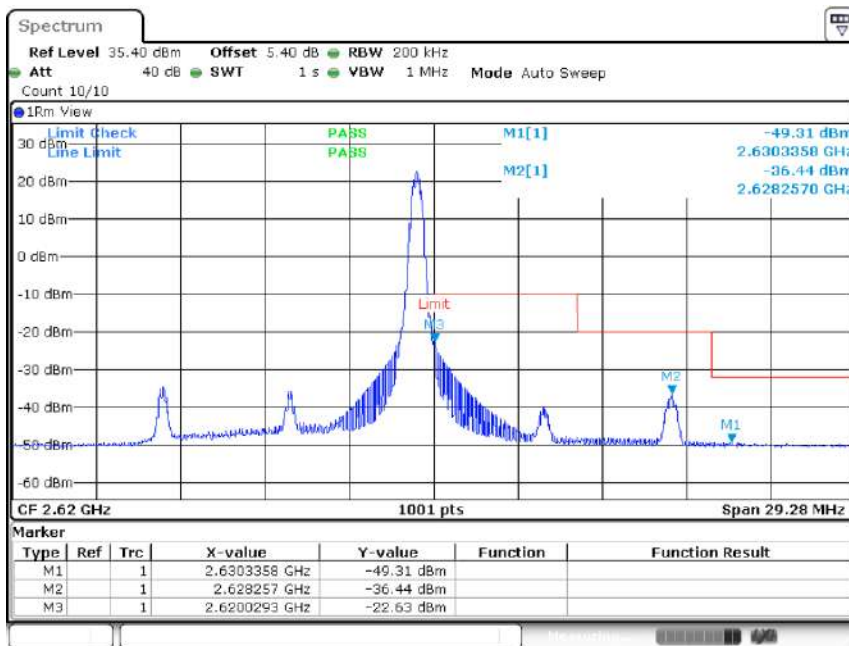


## Band38-10MHz-16QAM-37800-50RB#0



Date: 15 AUG 2020 00:28:29

## Band38-10MHz-16QAM-38200-1RB#49



Date: 15 AUG 2020 00:27:41



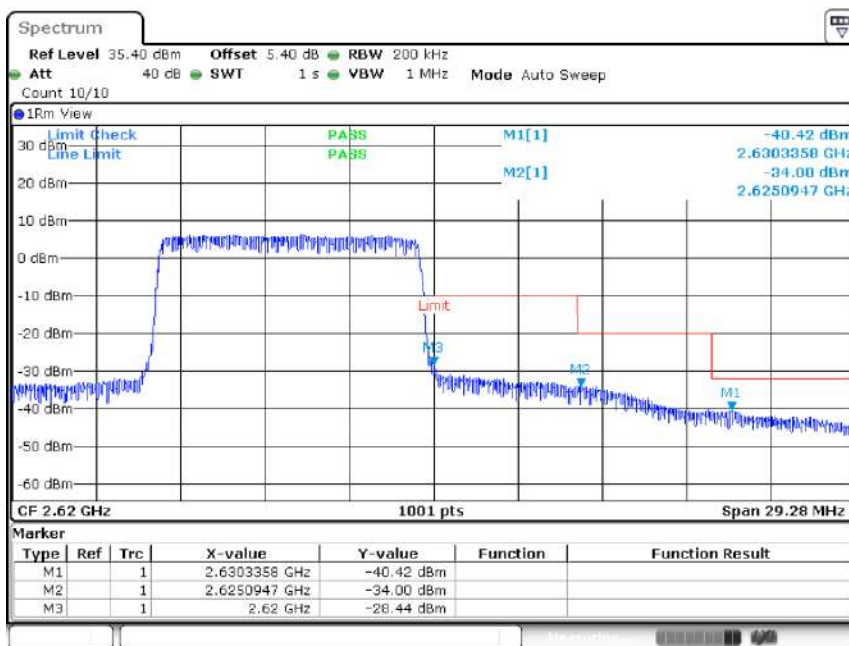
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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

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

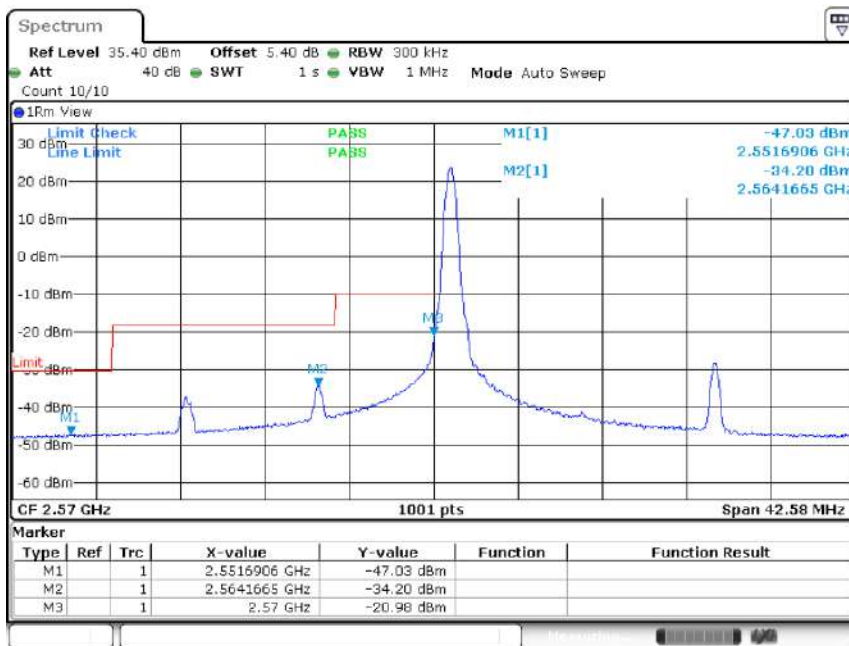
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## Band38-10MHz-16QAM-38200-50RB#0



Date: 15 AUG 2020 00:29:13

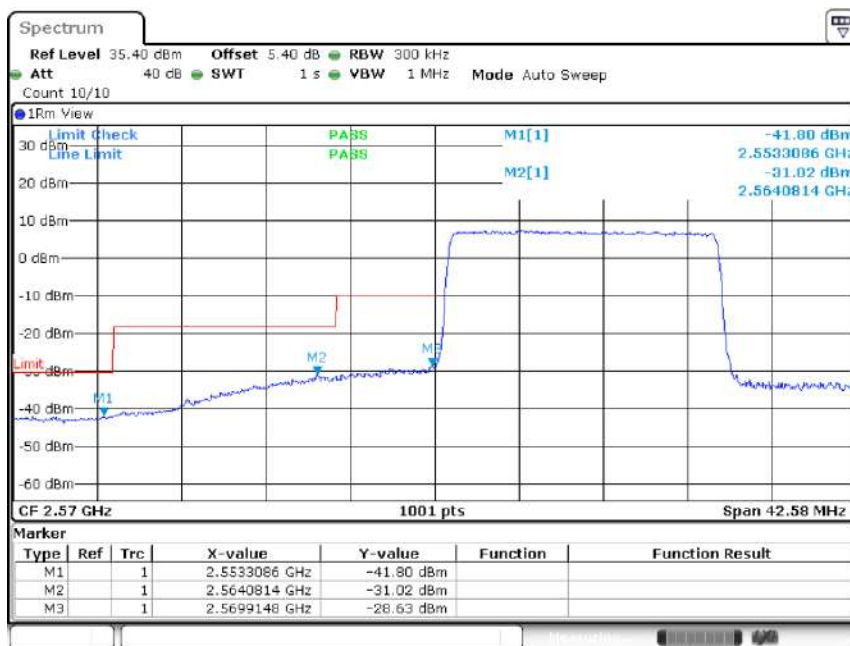
## Band38-15MHz-QPSK-37825-1RB#0



Date: 15 AUG 2020 00:29:41

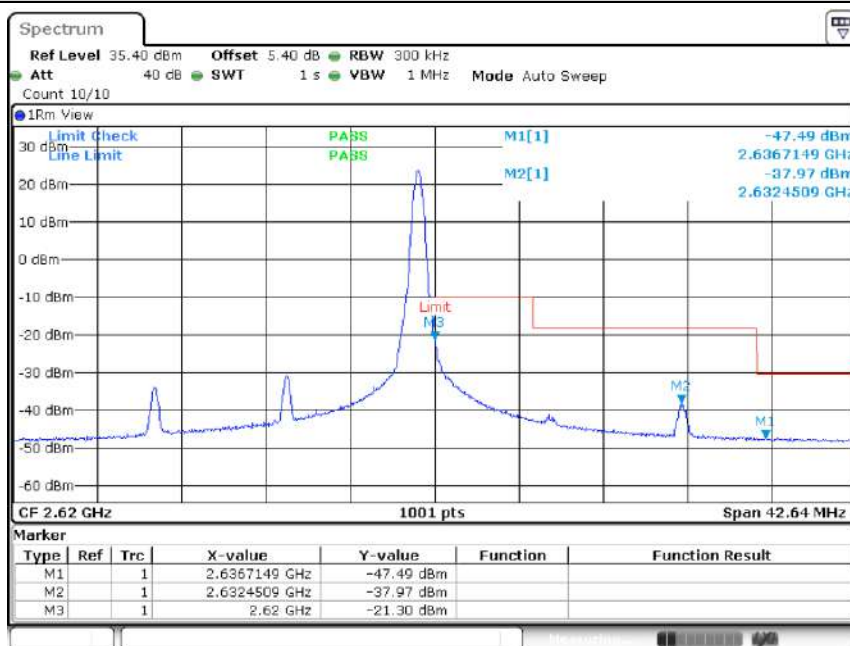


## Band38-15MHz-QPSK-37825-75RB#0



Date: 15 AUG 2020 00:31:17

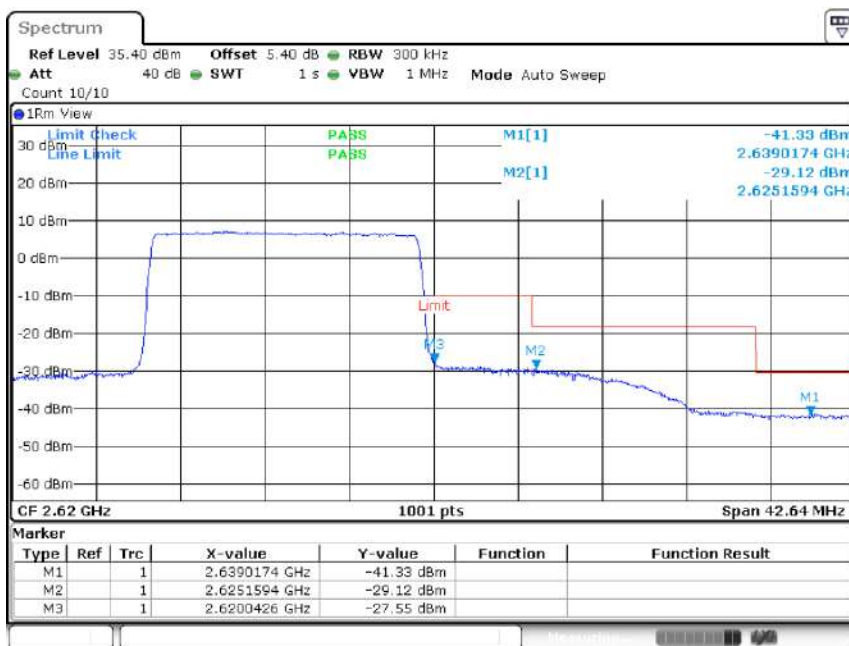
## Band38-15MHz-QPSK-38175-1RB#74



Date: 15 AUG 2020 00:30:29

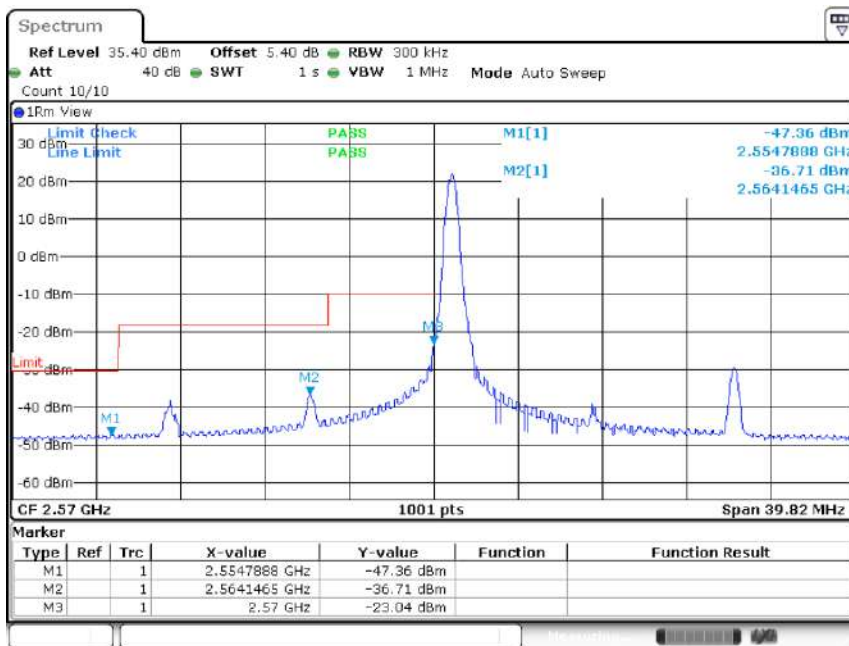


## Band38-15MHz-QPSK-38175-75RB#0



Date: 15 AUG 2020 00:32:00

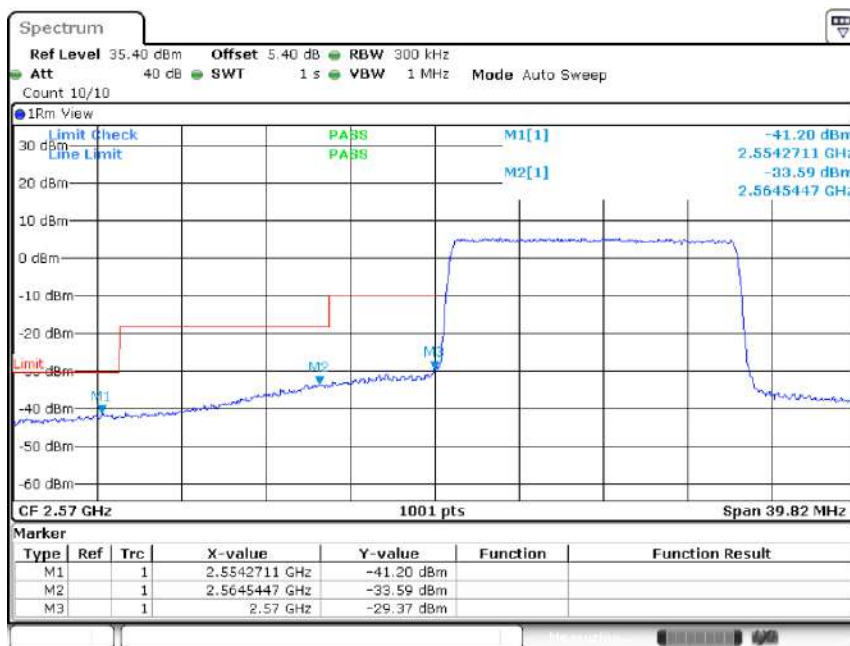
## Band38-15MHz-64QAM-37825-1RB#0



Date: 15 AUG 2020 02:42:24

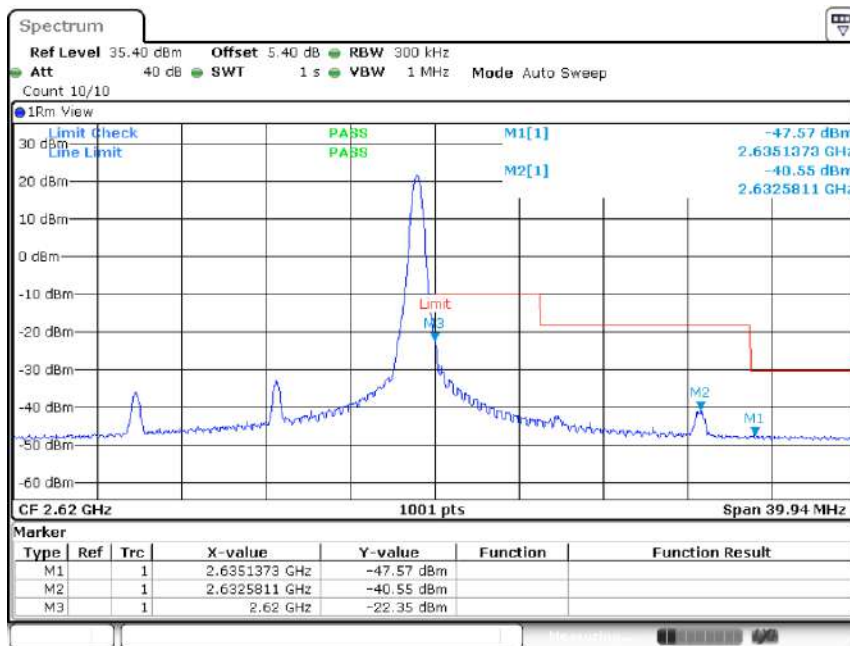


## Band38-15MHz-64QAM-37825-75RB#0



Date: 15 AUG 2020 02:43:19

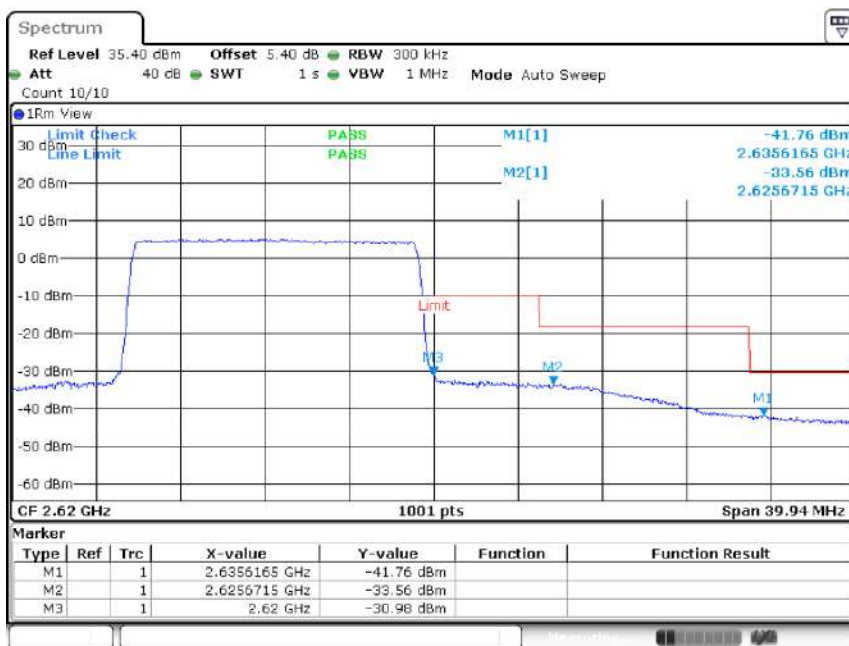
## Band38-15MHz-64QAM-38175-1RB#74



Date: 15 AUG 2020 02:42:51

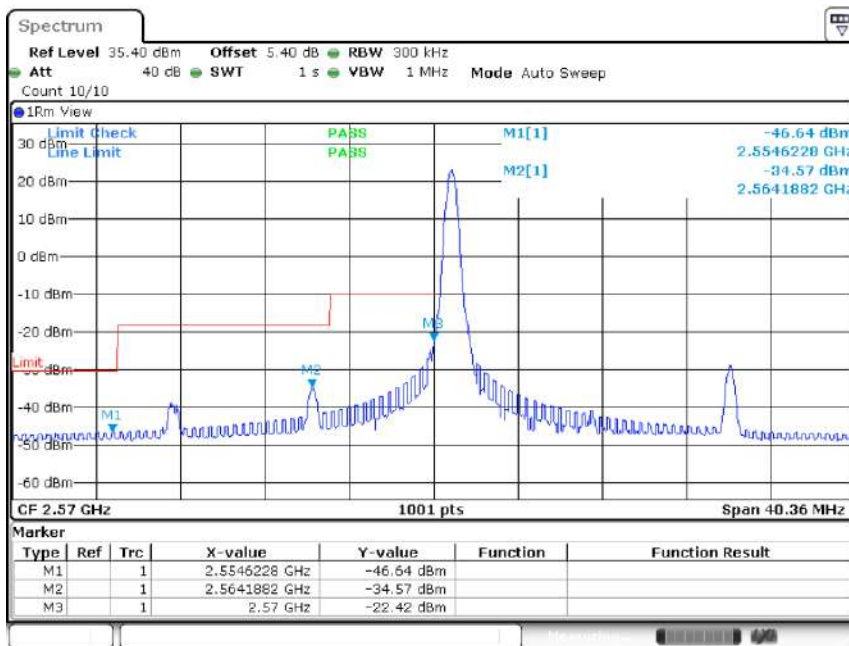


## Band38-15MHz-64QAM-38175-75RB#0



Date: 15 AUG 2020 02:43:41

## Band38-15MHz-16QAM-37825-1RB#0



Date: 15 AUG 2020 00:30:03



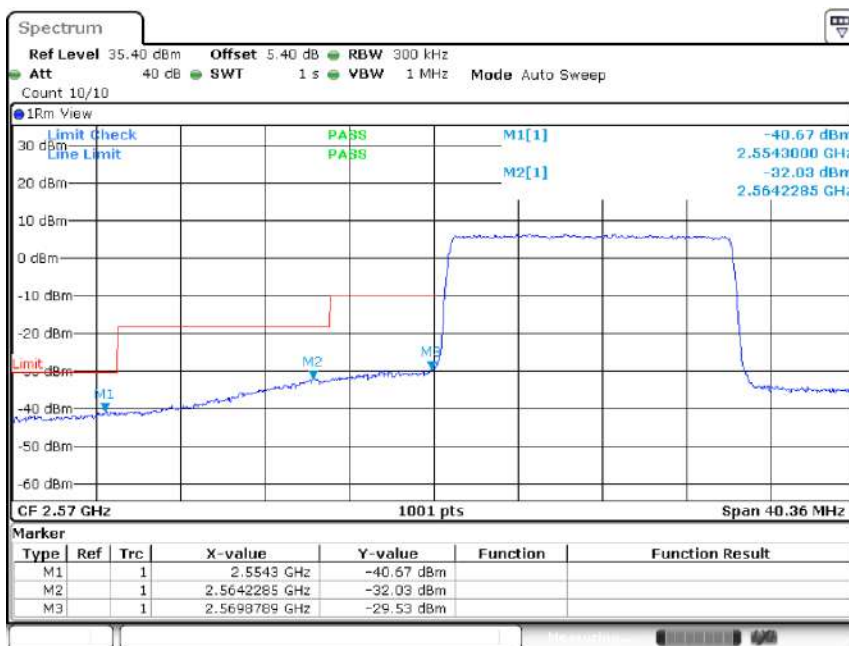
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

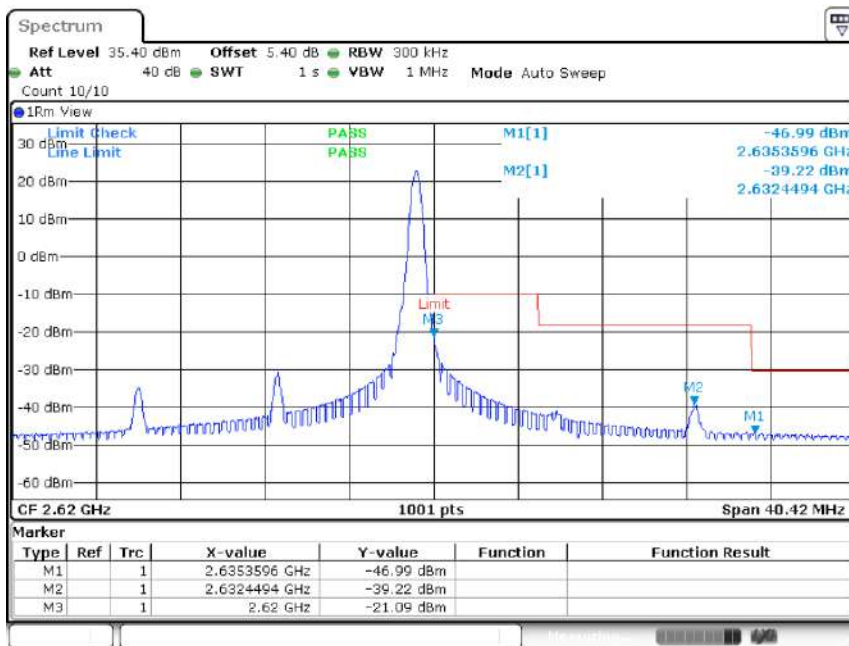
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## Band38-15MHz-16QAM-37825-75RB#0



Date: 15 AUG 2020 00:31:38

## Band38-15MHz-16QAM-38175-1RB#74



Date: 15 AUG 2020 00:30:50



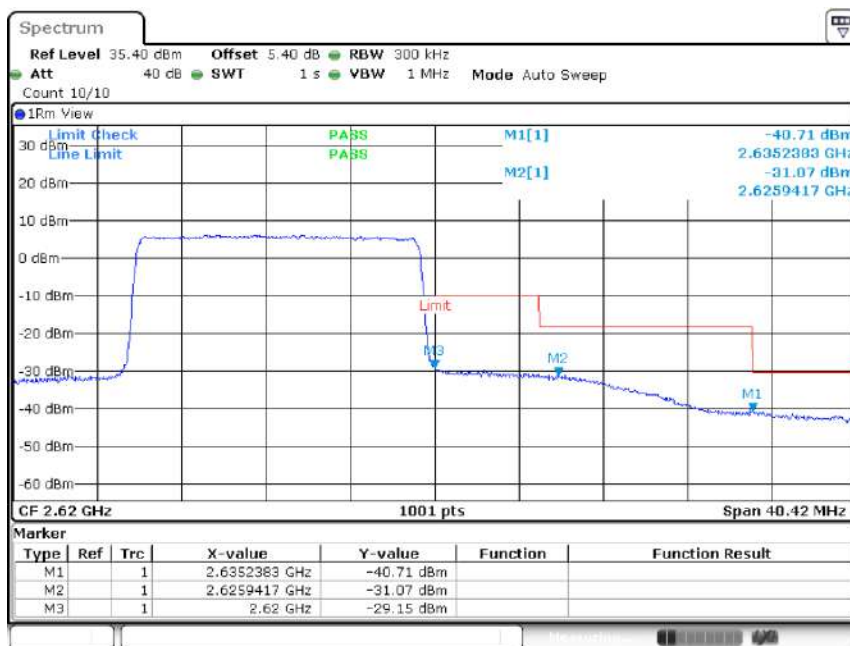
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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

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

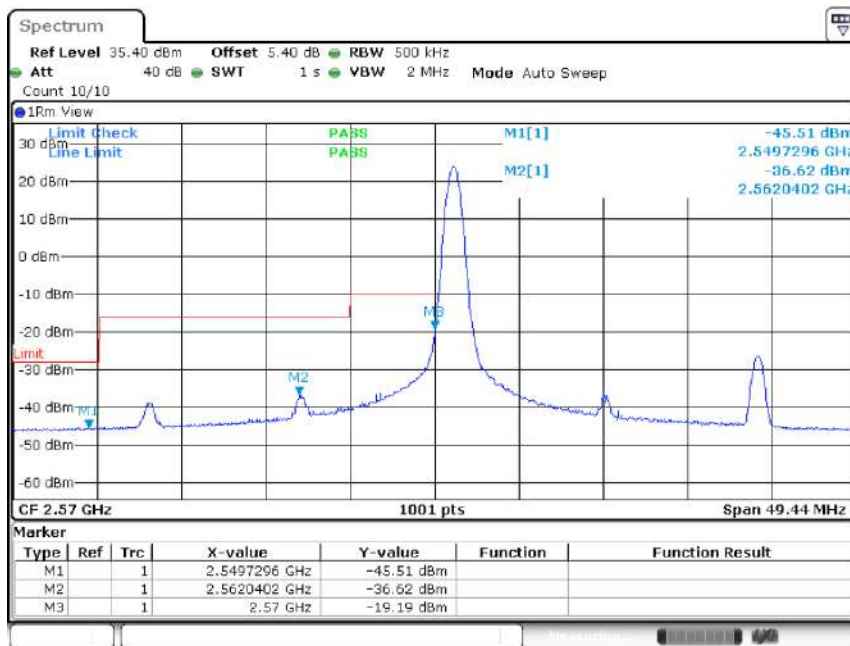
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## Band38-15MHz-16QAM-38175-75RB#0



Date: 15 AUG 2020 00:32:22

## Band38-20MHz-QPSK-37850-1RB#0



Date: 15 AUG 2020 00:32:50



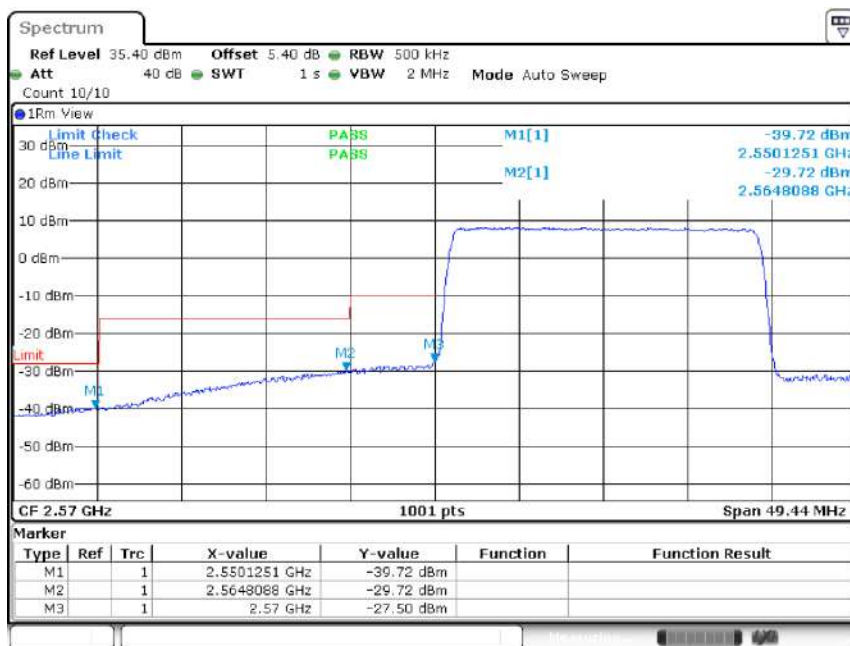
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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

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

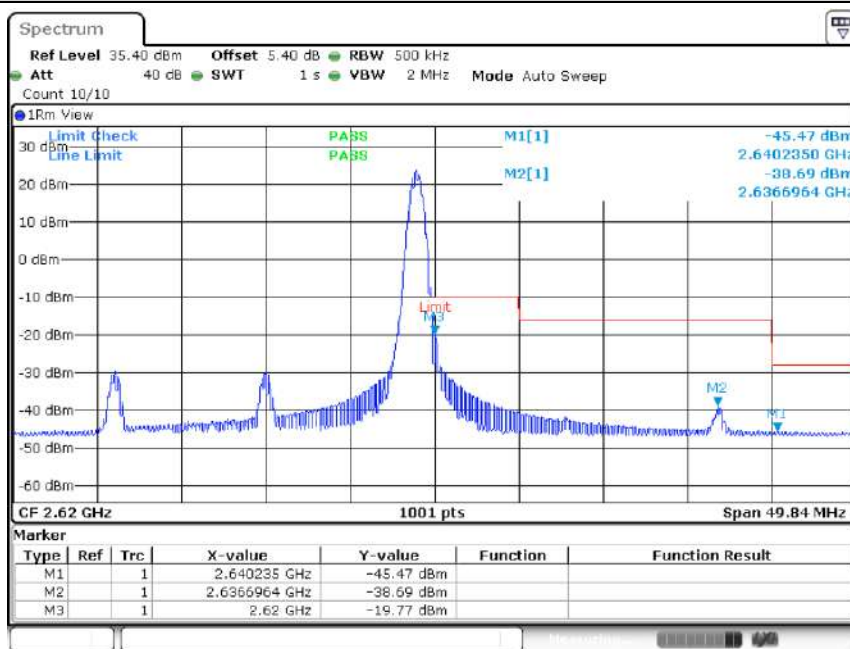
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-20MHz-QPSK-37850-100RB#0



Date: 15 AUG 2020 00:34:26

Band38-20MHz-QPSK-38150-1RB#99



Date: 15 AUG 2020 00:33:38

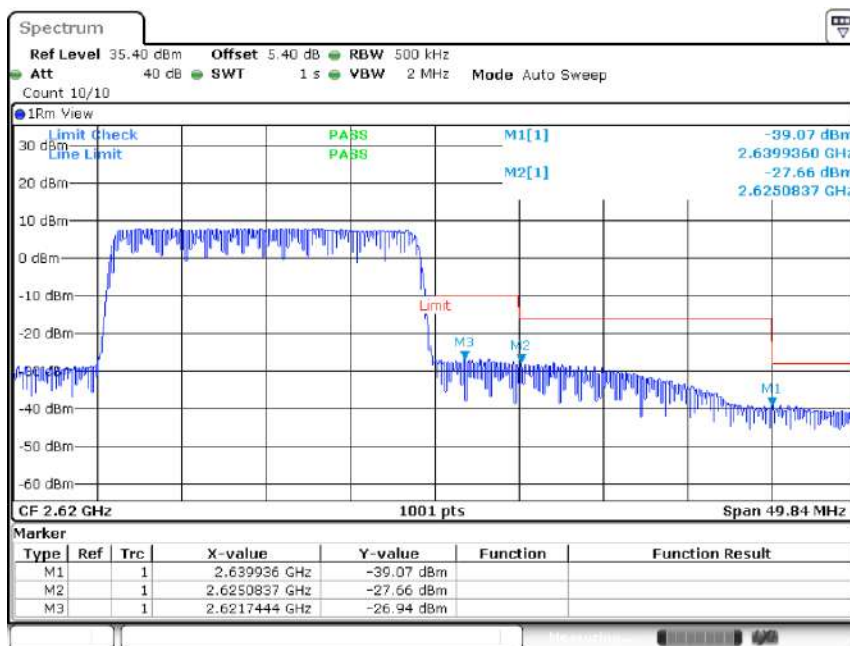


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

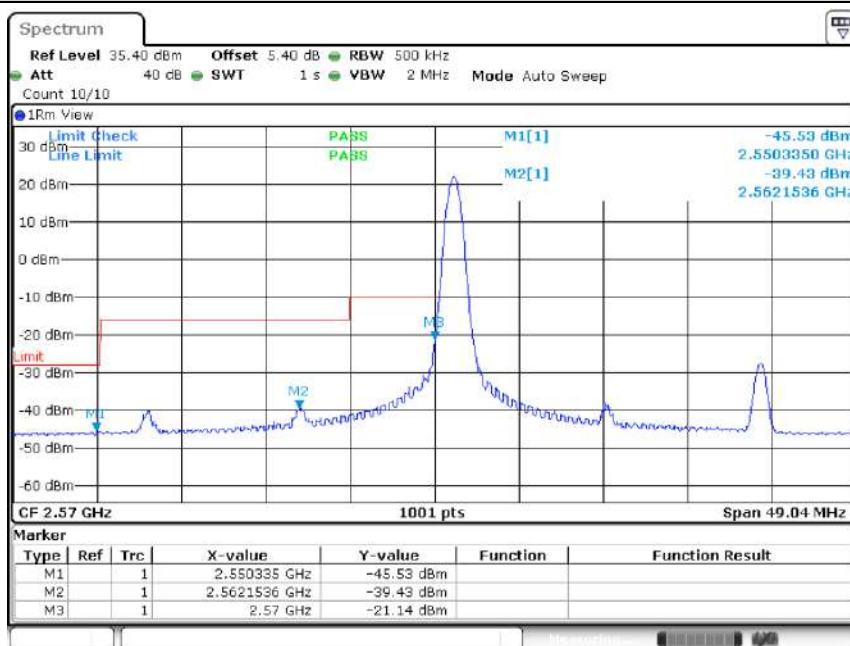
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-20MHz-QPSK-38150-100RB#0



Date: 15 AUG 2020 00:35:09

Band38-20MHz-64QAM-37850-1RB#0



Date: 15 AUG 2020 02:44:10

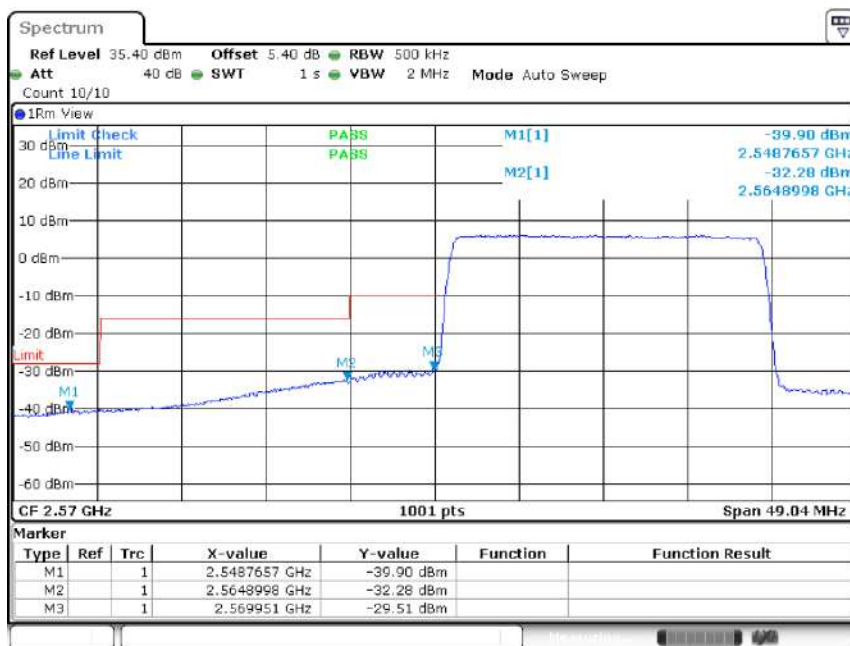


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

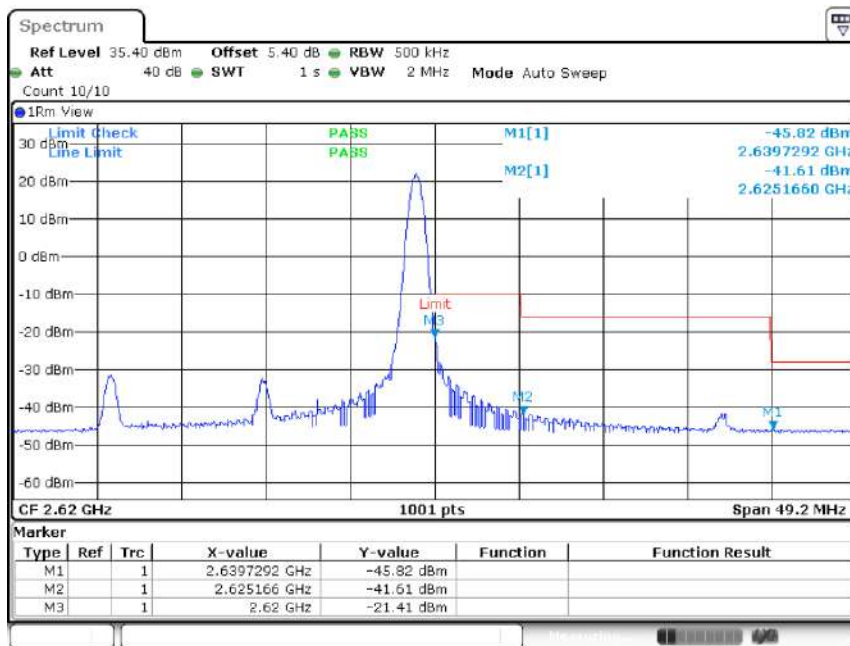
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-20MHz-64QAM-37850-100RB#0



Date: 15 AUG 2020 02:45:04

Band38-20MHz-64QAM-38150-1RB#99

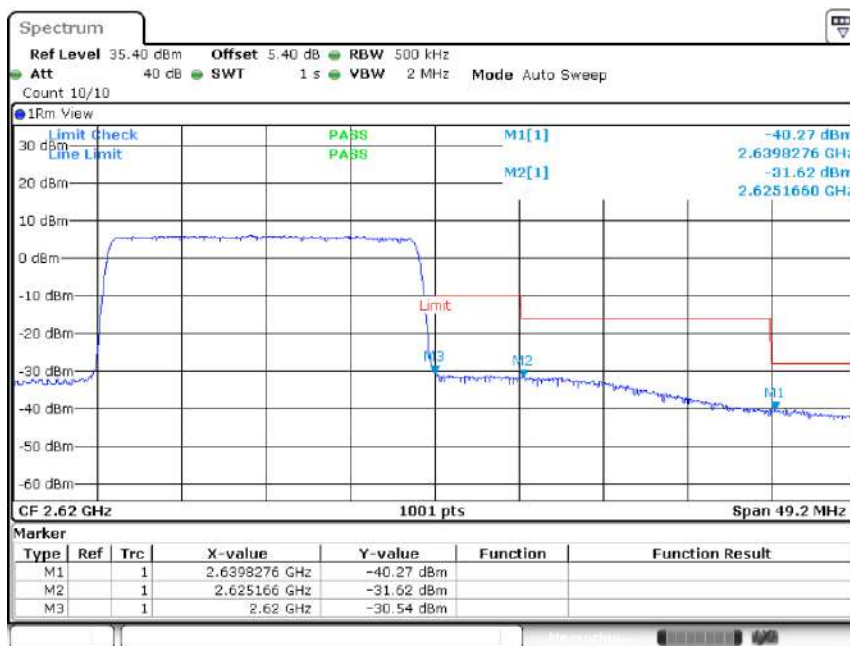


Date: 15 AUG 2020 02:44:37



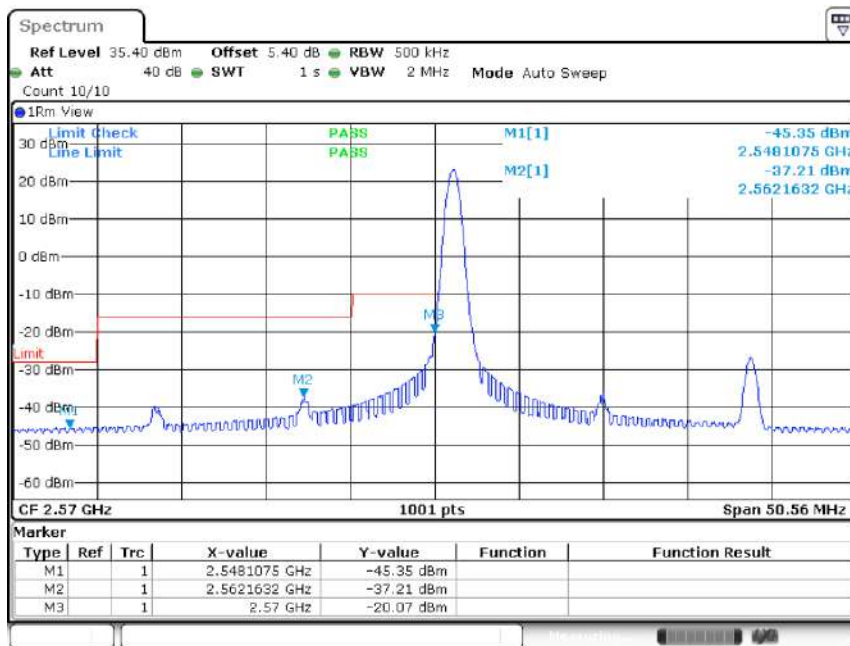
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

## Band38-20MHz-64QAM-38150-100RB#0



Date: 15 AUG 2020 02:45:26

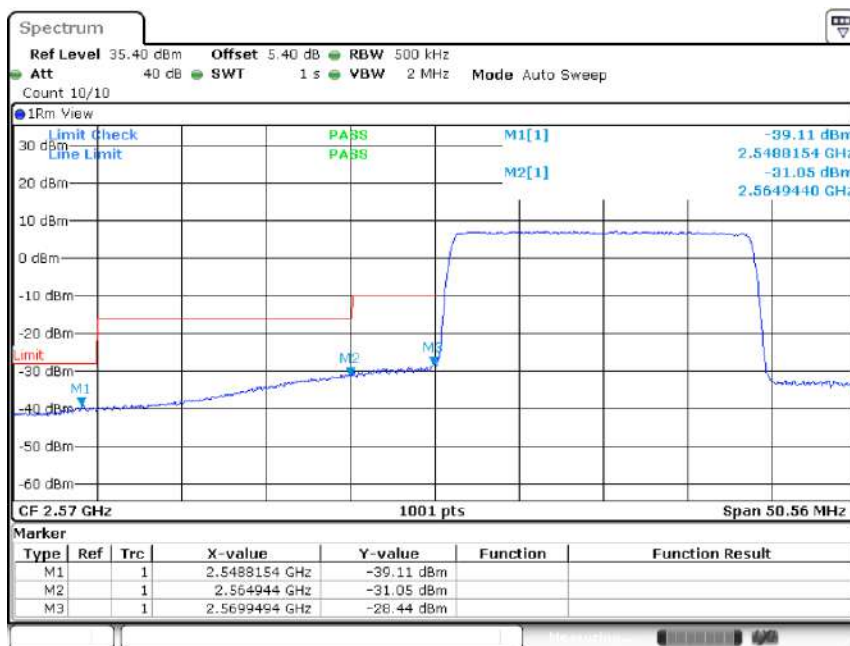
## Band38-20MHz-16QAM-37850-1RB#0



Date: 15 AUG 2020 00:33:12

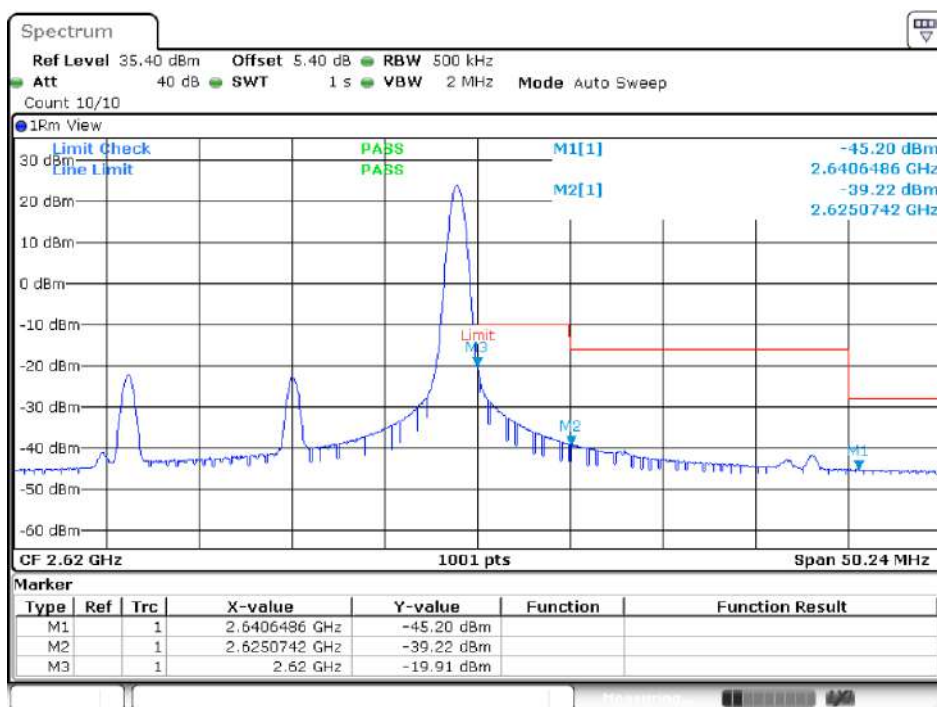


## Band38-20MHz-16QAM-37850-100RB#0



Date: 15.AUG.2020 00:34:47

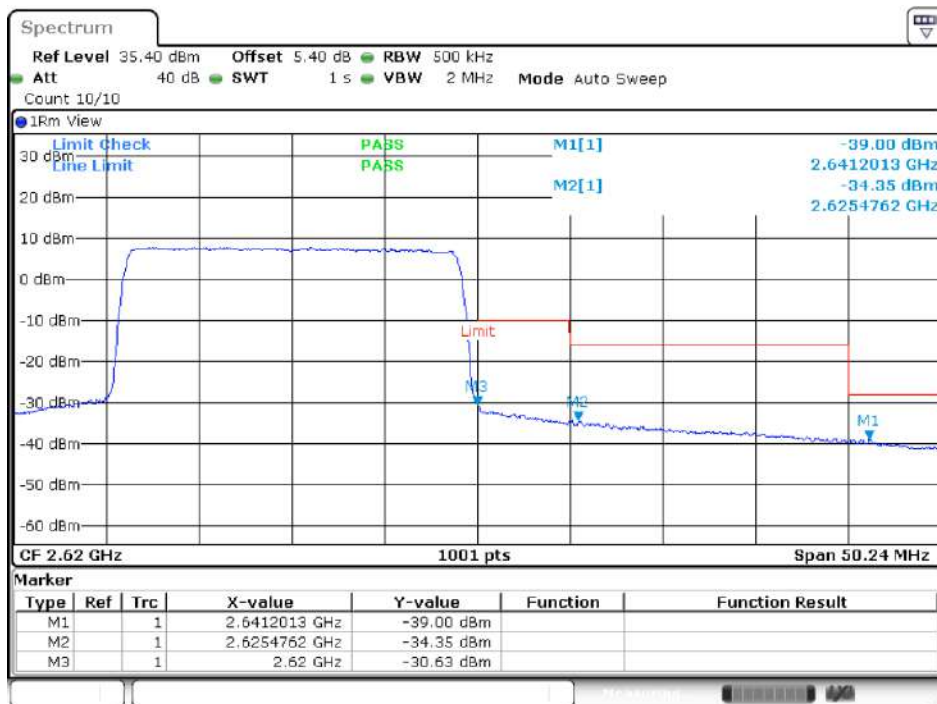
## Band38-20MHz-16QAM-38150-1RB#99



Date: 28.AUG.2020 10:45:18



## Band38-20MHz-16QAM-38150-100RB#0



Date: 28.AUG.2020 10:46:35

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

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, 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

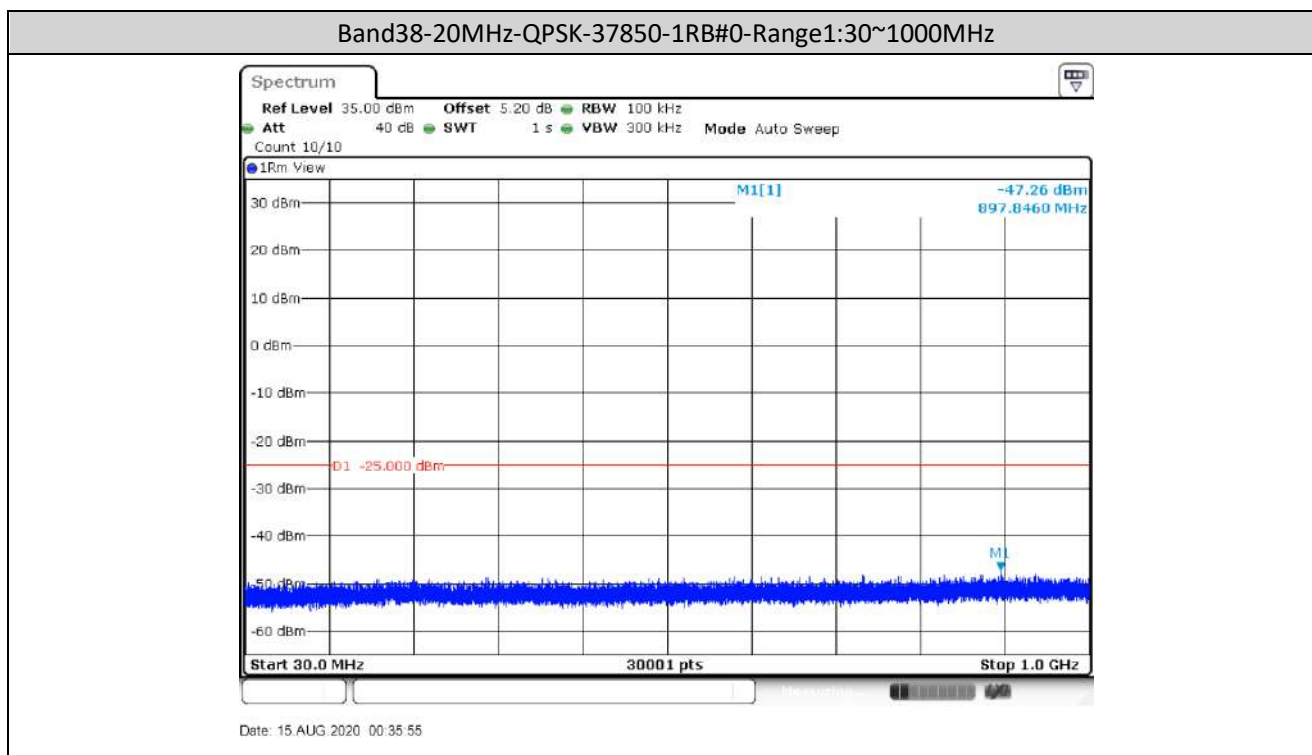
Member of the SGS Group (SGS SA)

## 6. Spurious Emission at Antenna Terminal

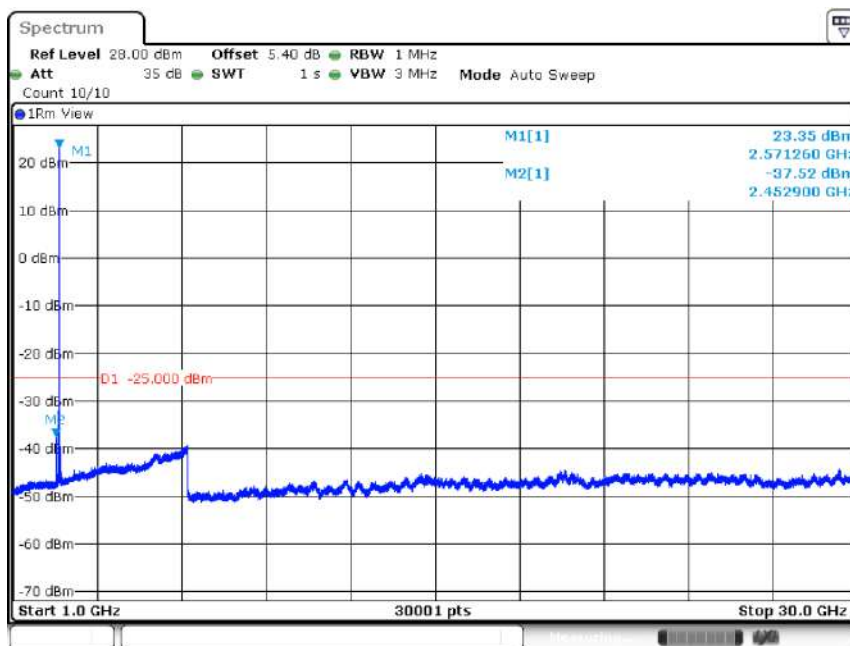
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

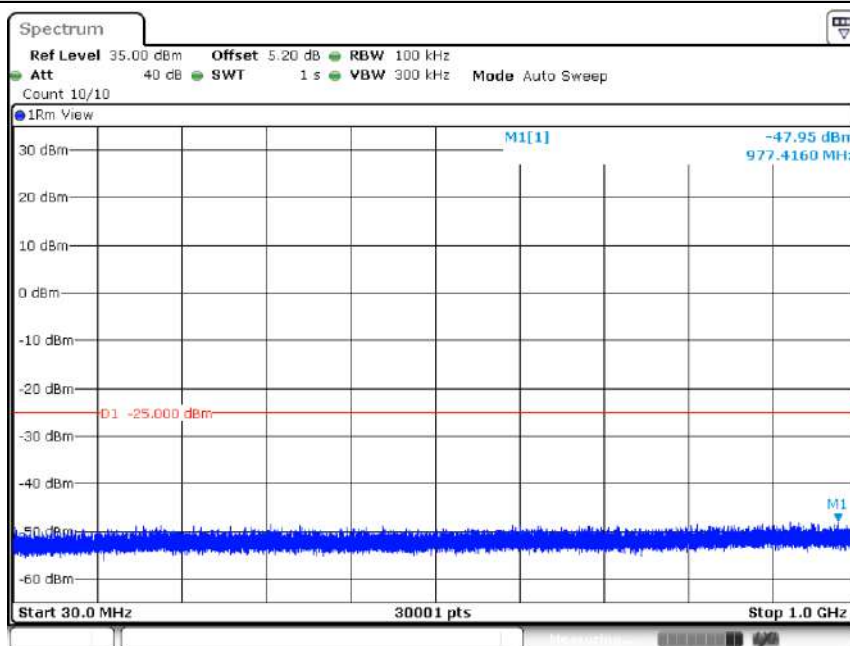


Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz



Date: 15 AUG 2020 00:36:11

Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz

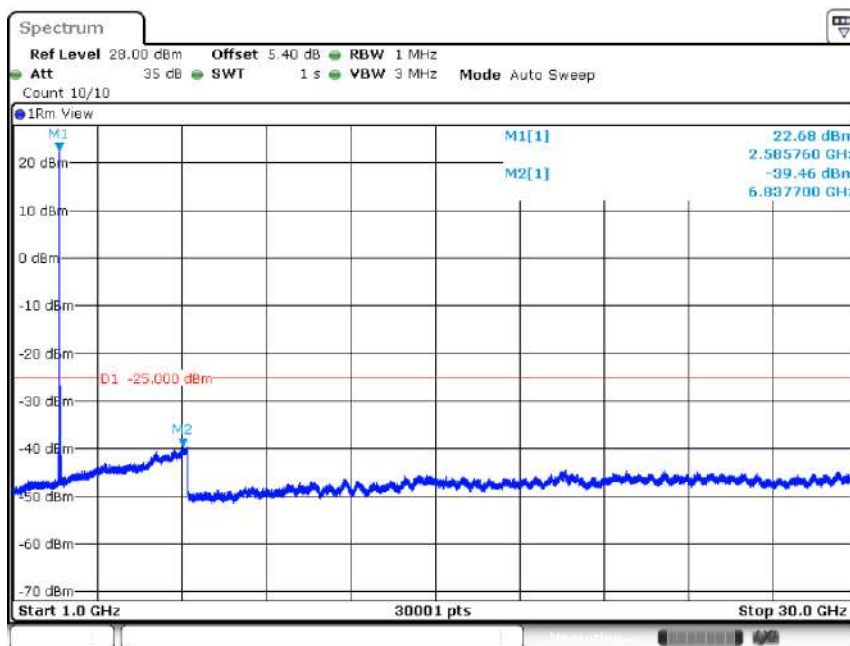


Date: 15 AUG 2020 00:37:06



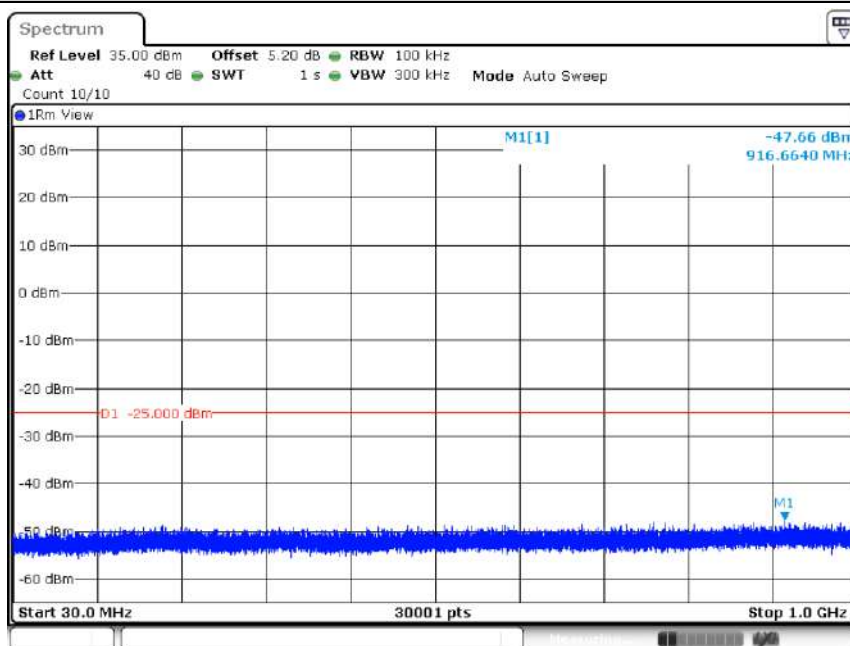
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

## Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz



Date: 15 AUG 2020 00:37:22

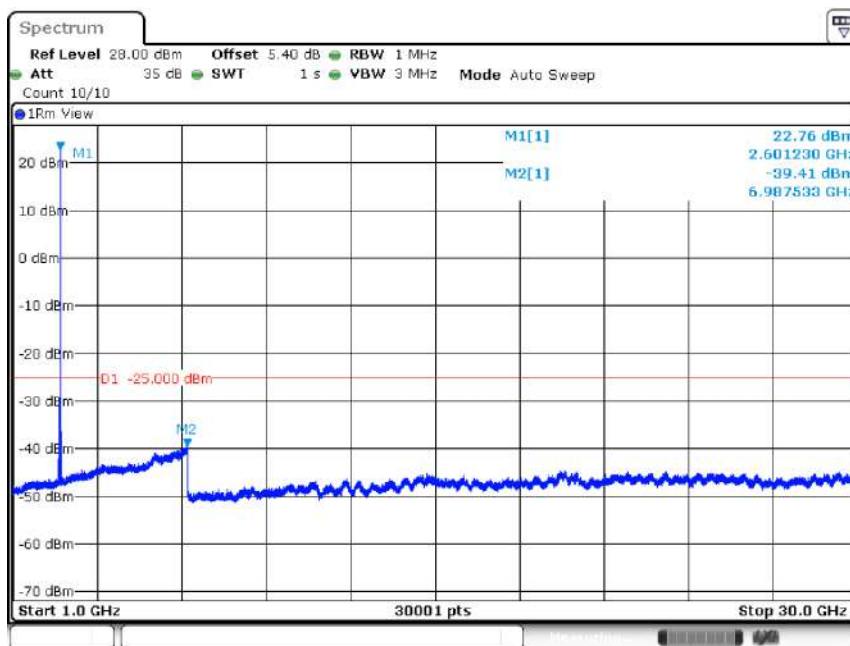
## Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz



Date: 15 AUG 2020 00:38:17

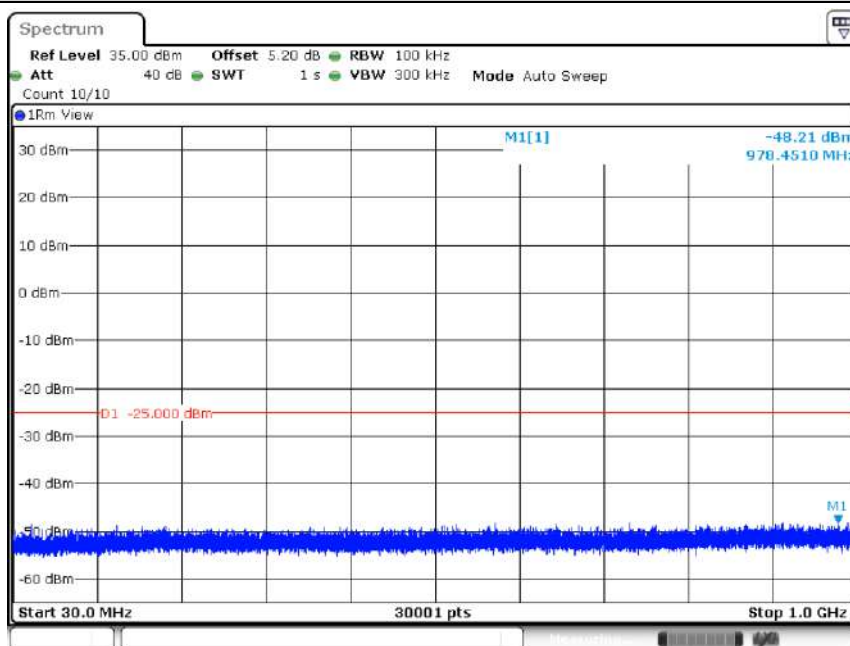


**Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz**



Date: 15 AUG 2020 00:38:33

**Band38-20MHz-64QAM-37850-1RB#0-Range1:30~1000MHz**



Date: 15 AUG 2020 02:45:50



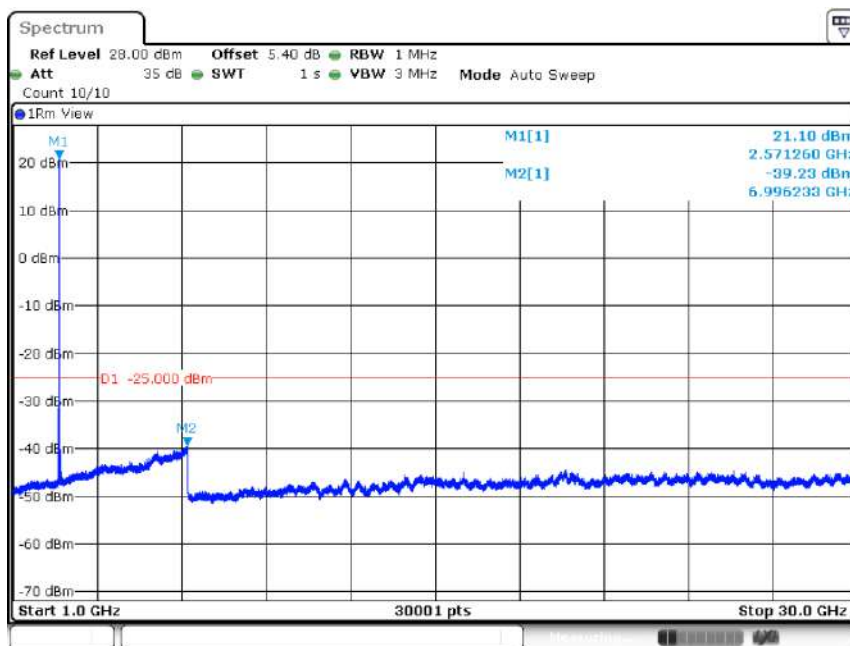
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

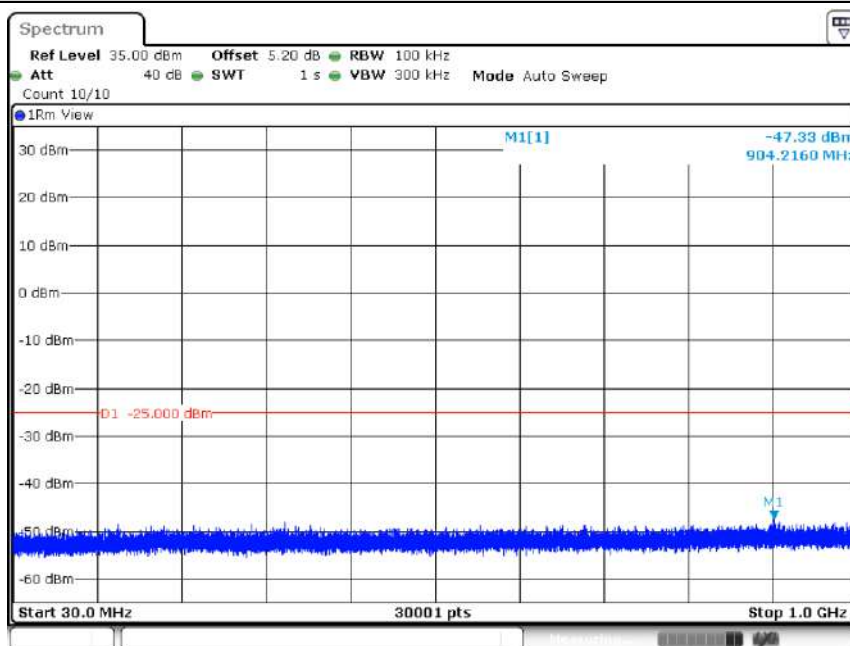
Member of the SGS Group (SGS SA)

## Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 15 AUG 2020 02:46:07

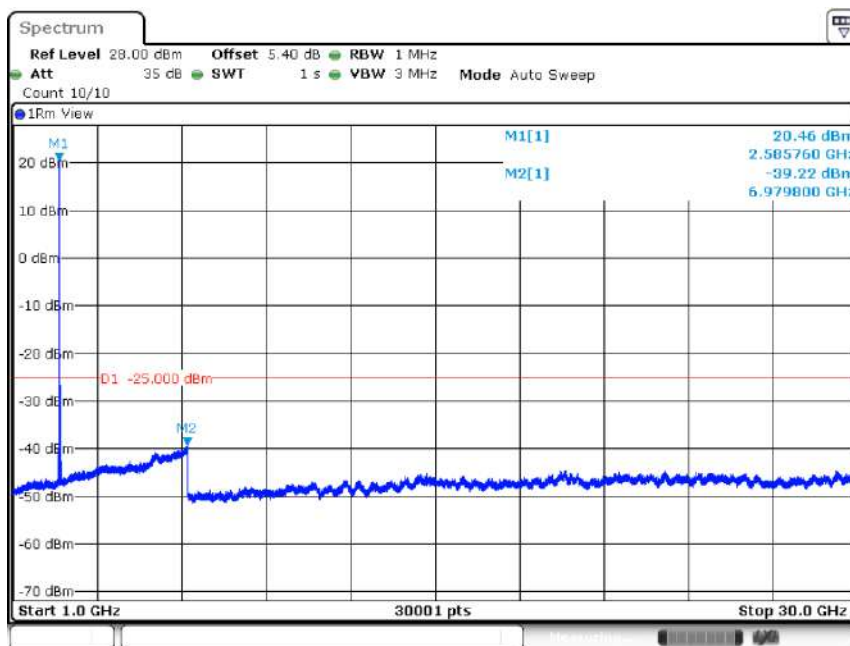
## Band38-20MHz-64QAM-38000-1RB#0-Range1:30~1000MHz



Date: 15 AUG 2020 02:46:26

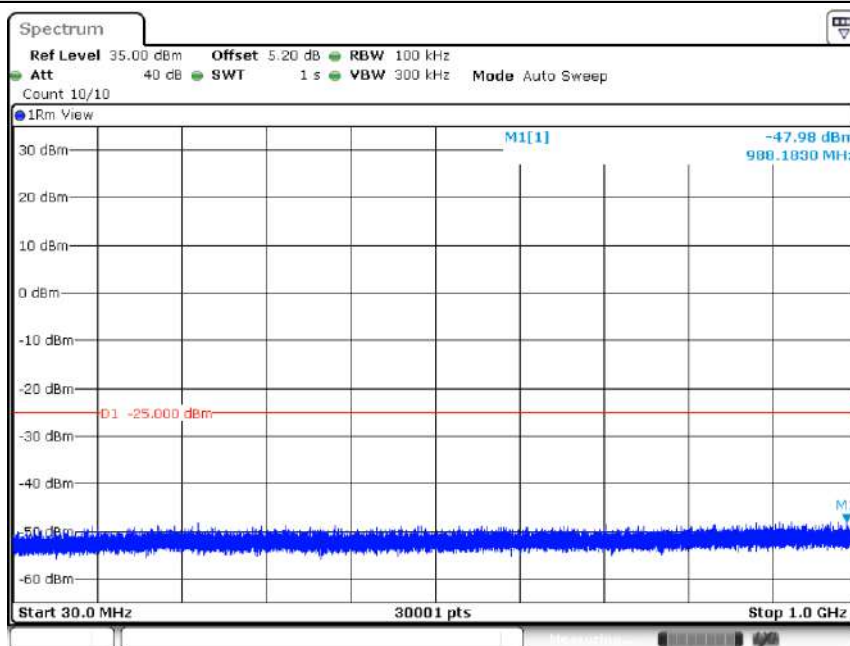


Band38-20MHz-64QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 15 AUG 2020 02:46:43

Band38-20MHz-64QAM-38150-1RB#0-Range1:30~1000MHz

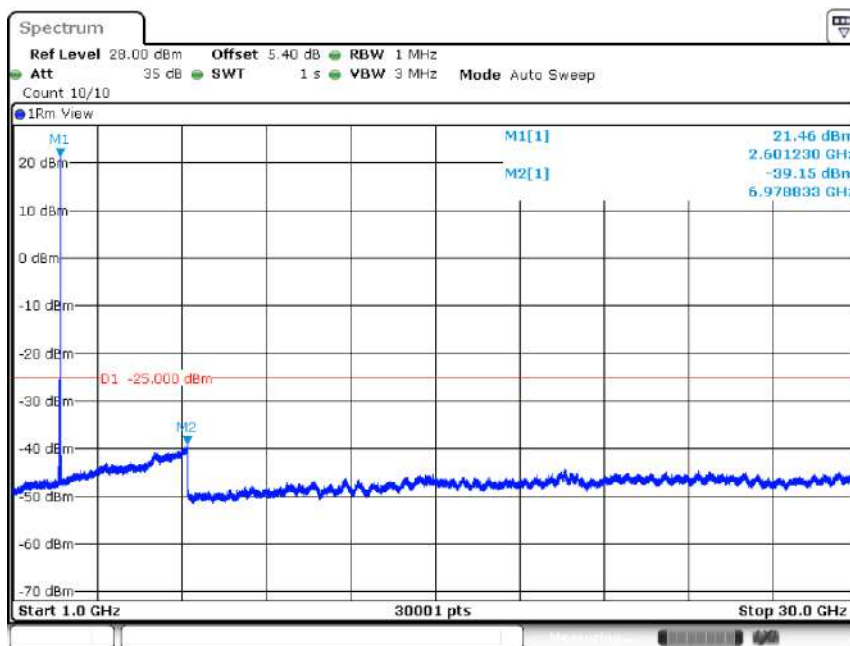


Date: 15 AUG 2020 02:47:02



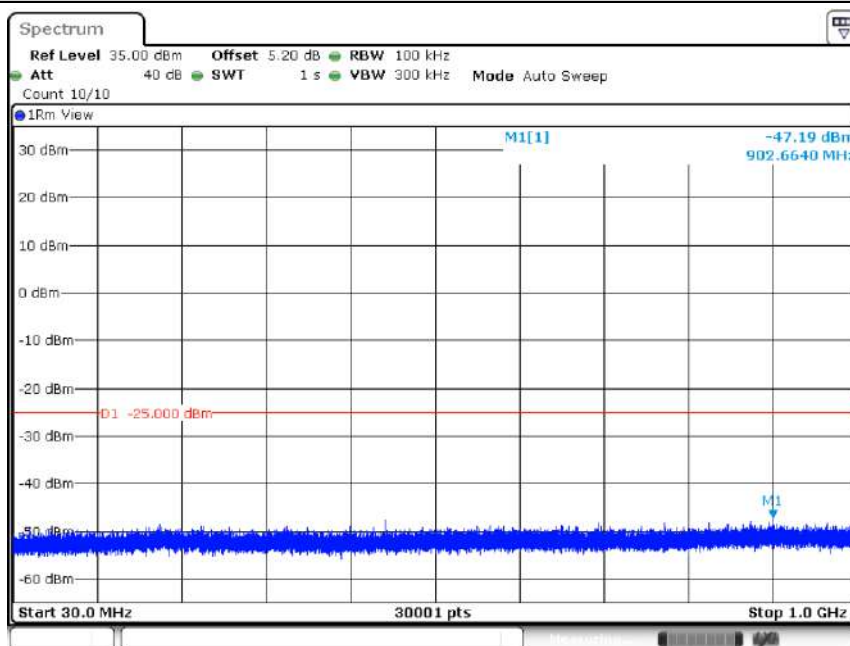
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Band38-20MHz-64QAM-38150-1RB#0-Range2:1000~30000MHz



Date: 15 AUG 2020 02:47:18

Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz



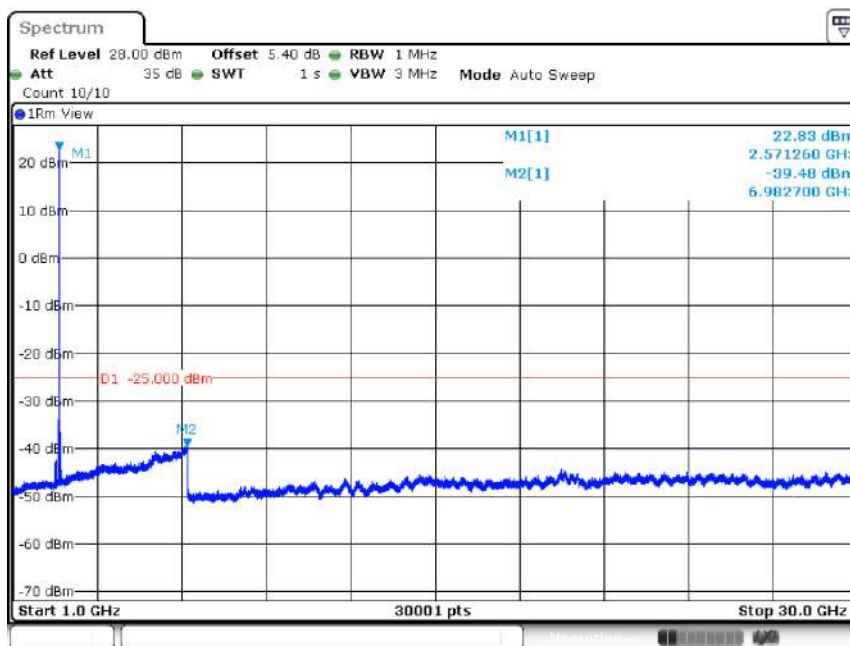
Date: 15 AUG 2020 00:36:30



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.

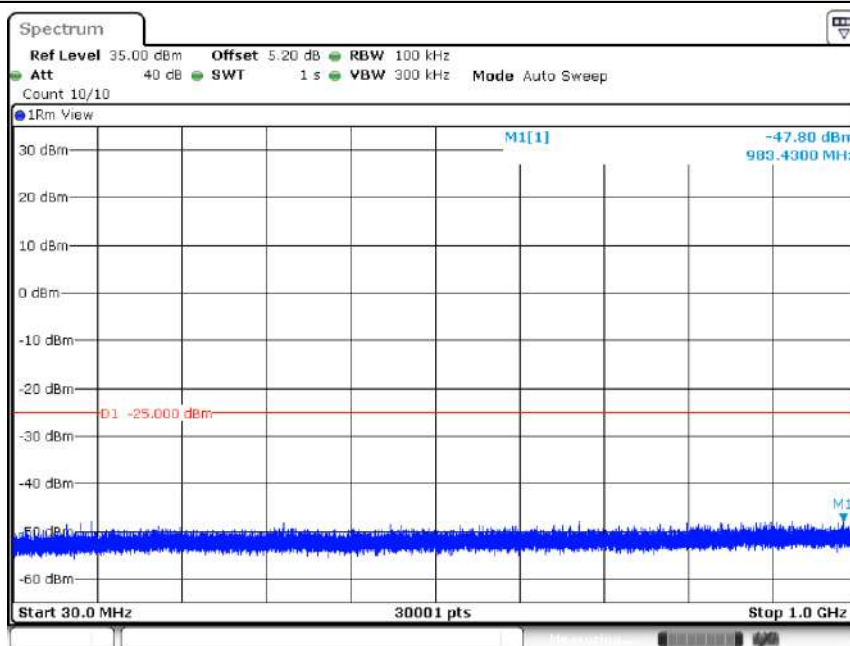
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053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

Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 15 AUG 2020 00:36:47

Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz

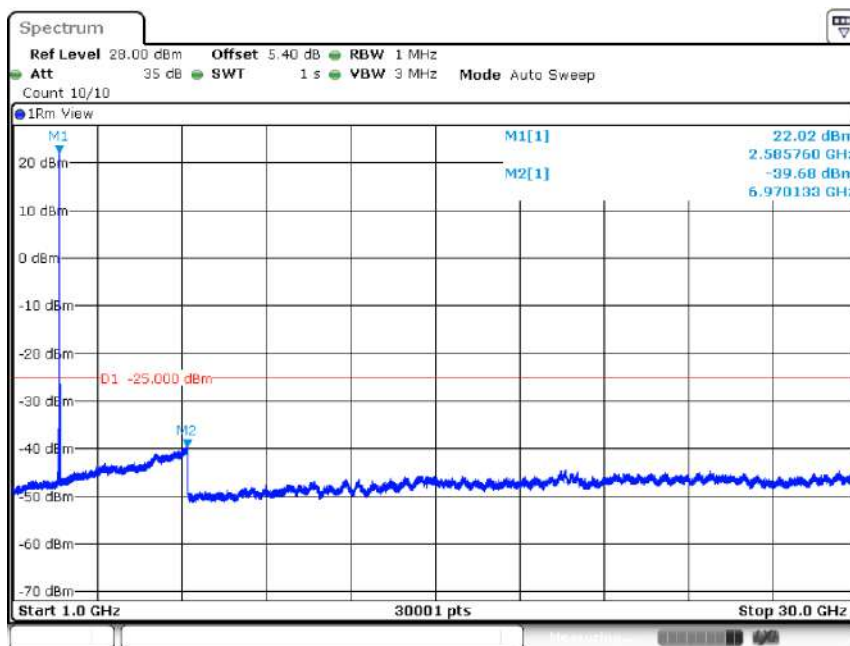


Date: 15 AUG 2020 00:37:41



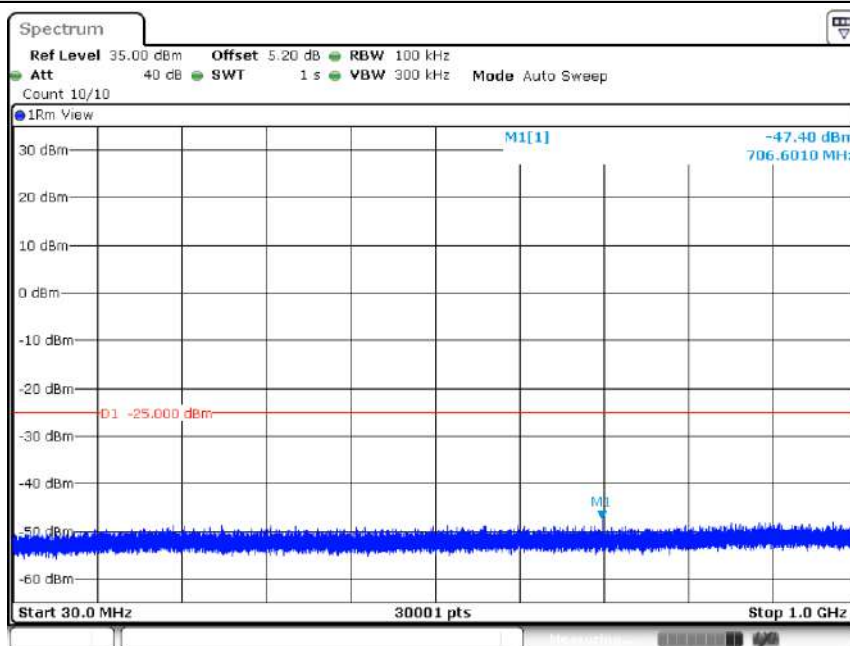
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

## Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 15 AUG 2020 00:37:58

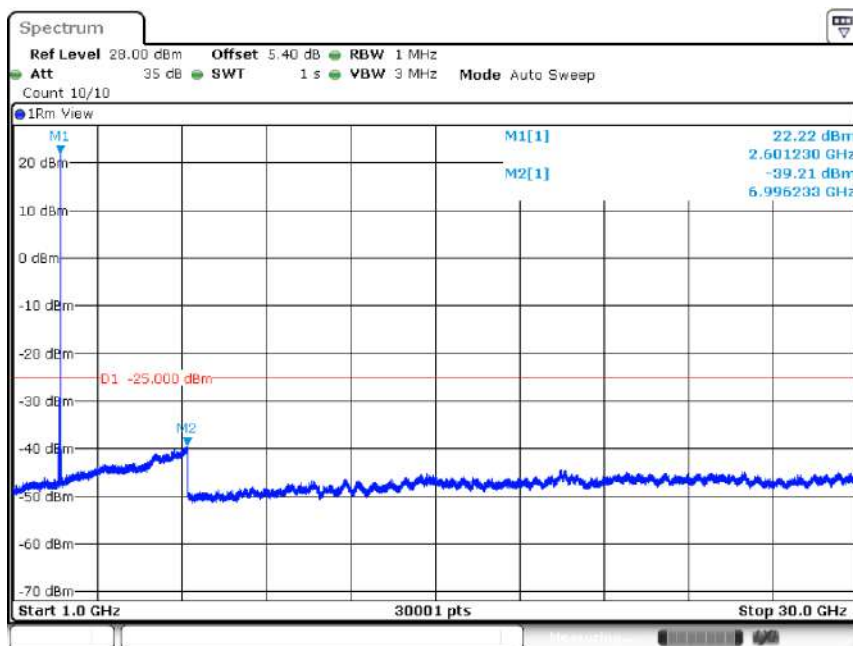
## Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz



Date: 15 AUG 2020 00:38:52



## Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz



Date: 15.AUG.2020 00:39:09



## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 20MHz(Up Antenna)

#### 7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 49.7405         | -71.12      | -25.00           | 46.12       | 222         | 296       | Vertical     |
| 113.9092        | -64.38      | -25.00           | 39.38       | 271         | 5         | Vertical     |
| 340.4640        | -67.93      | -25.00           | 42.93       | 245         | 296       | Vertical     |
| 5142.0714       | -52.97      | -25.00           | 27.97       | 263         | 34        | Vertical     |
| 9331.7111       | -52.50      | -25.00           | 27.50       | 247         | 245       | Vertical     |
| 17995.9999      | -39.97      | -25.00           | 14.97       | 258         | 144       | Vertical     |
| 39.5065         | -64.65      | -25.00           | 39.65       | 187         | 6         | Horizontal   |
| 102.1716        | -75.35      | -25.00           | 50.35       | 165         | 121       | Horizontal   |
| 241.5191        | -68.62      | -25.00           | 43.62       | 184         | 33        | Horizontal   |
| 5142.0714       | -54.90      | -25.00           | 29.90       | 162         | 6         | Horizontal   |
| 10393.2464      | -52.74      | -25.00           | 27.74       | 187         | 262       | Horizontal   |
| 16394.9465      | -43.84      | -25.00           | 18.84       | 169         | 232       | Horizontal   |

#### 7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 47.3154         | -71.13      | -25.00           | 46.13       | 241         | 0         | Vertical     |
| 109.7865        | -64.69      | -25.00           | 39.69       | 258         | 244       | Vertical     |
| 610.2830        | -63.87      | -25.00           | 38.87       | 271         | 20        | Vertical     |
| 5172.0724       | -53.04      | -25.00           | 28.04       | 263         | 74        | Vertical     |
| 10072.2357      | -52.19      | -25.00           | 27.19       | 288         | 0         | Vertical     |
| 17996.9999      | -40.28      | -25.00           | 15.28       | 214         | 101       | Vertical     |
| 41.3011         | -63.71      | -25.00           | 38.71       | 147         | 174       | Horizontal   |
| 87.8149         | -73.87      | -25.00           | 48.87       | 165         | 10        | Horizontal   |
| 229.0540        | -68.07      | -25.00           | 43.07       | 184         | 71        | Horizontal   |
| 5172.0724       | -54.17      | -25.00           | 29.17       | 157         | 174       | Horizontal   |
| 9320.2107       | -52.54      | -25.00           | 27.54       | 162         | 294       | Horizontal   |
| 16400.4467      | -44.06      | -25.00           | 19.06       | 194         | 122       | Horizontal   |



### 7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 46.9758         | -73.66      | -25.00           | 48.66       | 224         | 16        | Vertical     |
| 111.1446        | -64.83      | -25.00           | 39.83       | 162         | 156       | Vertical     |
| 287.6934        | -68.92      | -25.00           | 43.92       | 284         | 343       | Vertical     |
| 5202.0734       | -55.09      | -25.00           | 30.09       | 247         | 77        | Vertical     |
| 10590.7530      | -51.21      | -25.00           | 26.21       | 251         | 156       | Vertical     |
| 17997.9999      | -40.77      | -25.00           | 15.77       | 236         | 216       | Vertical     |
| 43.5807         | -64.03      | -25.00           | 39.03       | 198         | 189       | Horizontal   |
| 108.8649        | -75.81      | -25.00           | 50.81       | 174         | 189       | Horizontal   |
| 232.7401        | -68.00      | -25.00           | 43.00       | 162         | 2         | Horizontal   |
| 5202.0734       | -56.34      | -25.00           | 31.34       | 187         | 160       | Horizontal   |
| 9309.7103       | -52.64      | -25.00           | 27.64       | 165         | 71        | Horizontal   |
| 16403.4468      | -44.01      | -25.00           | 19.01       | 184         | 2         | 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)

## 7.2. Test Mode =LTE/TM1 20MHz(Down Antenna)

### 7.2.1.Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 111.6296        | -65.64      | -25.00           | 40.64       | 196         | 83        | Vertical     |
| 563.0417        | -66.23      | -25.00           | 41.23       | 152         | 207       | Vertical     |
| 1798.5597       | -44.27      | -25.00           | 19.27       | 262         | 345       | Vertical     |
| 5142.0714       | -53.10      | -25.00           | 28.10       | 225         | 59        | Vertical     |
| 14475.3825      | -47.86      | -25.00           | 22.86       | 261         | 83        | Vertical     |
| 17992.9998      | -40.42      | -25.00           | 15.42       | 189         | 59        | Vertical     |
| 43.2412         | -63.60      | -25.00           | 38.60       | 277         | 133       | Horizontal   |
| 230.7030        | -67.88      | -25.00           | 42.88       | 112         | 232       | Horizontal   |
| 1806.9614       | -43.58      | -25.00           | 18.58       | 125         | 360       | Horizontal   |
| 5142.0714       | -55.14      | -25.00           | 30.14       | 185         | 10        | Horizontal   |
| 12934.8312      | -50.33      | -25.00           | 25.33       | 196         | 108       | Horizontal   |
| 16392.4464      | -44.12      | -25.00           | 19.12       | 206         | 182       | Horizontal   |

### 7.2.2.Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 116.3343        | -65.30      | -25.00           | 40.30       | 211         | 133       | Vertical     |
| 617.3159        | -63.99      | -25.00           | 38.99       | 284         | 109       | Vertical     |
| 1782.5565       | -44.31      | -25.00           | 19.31       | 296         | 304       | Vertical     |
| 5172.0724       | -54.17      | -25.00           | 29.17       | 252         | 59        | Vertical     |
| 14460.8820      | -47.98      | -25.00           | 22.98       | 205         | 34        | Vertical     |
| 17996.4999      | -40.57      | -25.00           | 15.57       | 209         | 84        | Vertical     |
| 41.9801         | -63.70      | -25.00           | 38.70       | 263         | 84        | Horizontal   |
| 245.3508        | -67.87      | -25.00           | 42.87       | 222         | 133       | Horizontal   |
| 1598.9198       | -45.11      | -25.00           | 20.11       | 188         | 259       | Horizontal   |
| 5172.0724       | -55.75      | -25.00           | 30.75       | 169         | 208       | Horizontal   |
| 12886.3295      | -50.20      | -25.00           | 25.20       | 152         | 59        | Horizontal   |
| 16399.4466      | -43.81      | -25.00           | 18.81       | 111         | 158       | Horizontal   |



### 7.2.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 109.0105        | -66.06      | -25.00           | 41.06       | 209         | 257       | Vertical     |
| 508.2824        | -65.35      | -25.00           | 40.35       | 228         | 10        | Vertical     |
| 1728.9458       | -44.28      | -25.00           | 19.28       | 261         | 138       | Vertical     |
| 5202.0734       | -55.17      | -25.00           | 30.17       | 109         | 59        | Vertical     |
| 14453.8818      | -48.18      | -25.00           | 23.18       | 111         | 307       | Vertical     |
| 17996.4999      | -40.63      | -25.00           | 15.63       | 129         | 109       | Vertical     |
| 46.9273         | -64.39      | -25.00           | 39.39       | 163         | 307       | Horizontal   |
| 225.8043        | -69.92      | -25.00           | 44.92       | 111         | 331       | Horizontal   |
| 1801.3603       | -43.61      | -25.00           | 18.61       | 185         | 80        | Horizontal   |
| 5202.0734       | -56.11      | -25.00           | 31.11       | 169         | 208       | Horizontal   |
| 12937.3312      | -50.42      | -25.00           | 25.42       | 184         | 307       | Horizontal   |
| 16401.4467      | -44.04      | -25.00           | 19.04       | 206         | 208       | 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.





## 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 |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band38 | 20MHz     | QPSK       | 37850   | 100RB#0      | VL            | NT               | -6.40          | -0.002481       | ±2.5        | PASS    |
| Band38 | 20MHz     | QPSK       | 37850   | 100RB#0      | VN            | NT               | -5.80          | -0.002248       | ±2.5        | PASS    |
| Band38 | 20MHz     | QPSK       | 37850   | 100RB#0      | VH            | NT               | -5.10          | -0.001977       | ±2.5        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | VL            | NT               | -8.20          | -0.003160       | ±2.5        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | VN            | NT               | -8.00          | -0.003083       | ±2.5        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | VH            | NT               | -5.20          | -0.002004       | ±2.5        | PASS    |
| Band38 | 20MHz     | QPSK       | 38150   | 100RB#0      | VL            | NT               | -5.90          | -0.002261       | ±2.5        | PASS    |
| Band38 | 20MHz     | QPSK       | 38150   | 100RB#0      | VN            | NT               | -6.70          | -0.002567       | ±2.5        | PASS    |
| Band38 | 20MHz     | QPSK       | 38150   | 100RB#0      | VH            | NT               | -7.60          | -0.002912       | ±2.5        | PASS    |
| Band38 | 20MHz     | 64QAM      | 37850   | 100RB#0      | VL            | NT               | -8.20          | -0.003178       | ±2.5        | PASS    |
| Band38 | 20MHz     | 64QAM      | 37850   | 100RB#0      | VN            | NT               | -3.30          | -0.001279       | ±2.5        | PASS    |
| Band38 | 20MHz     | 64QAM      | 37850   | 100RB#0      | VH            | NT               | -5.60          | -0.002171       | ±2.5        | PASS    |
| Band38 | 20MHz     | 64QAM      | 38000   | 100RB#0      | VL            | NT               | -9.00          | -0.003468       | ±2.5        | PASS    |
| Band38 | 20MHz     | 64QAM      | 38000   | 100RB#0      | VN            | NT               | -4.20          | -0.001618       | ±2.5        | PASS    |
| Band38 | 20MHz     | 64QAM      | 38000   | 100RB#0      | VH            | NT               | -5.80          | -0.002235       | ±2.5        | PASS    |
| Band38 | 20MHz     | 64QAM      | 38150   | 100RB#0      | VL            | NT               | -10.90         | -0.004176       | ±2.5        | PASS    |
| Band38 | 20MHz     | 64QAM      | 38150   | 100RB#0      | VN            | NT               | -7.30          | -0.002797       | ±2.5        | PASS    |
| Band38 | 20MHz     | 64QAM      | 38150   | 100RB#0      | VH            | NT               | -8.80          | -0.003372       | ±2.5        | PASS    |
| Band38 | 20MHz     | 16QAM      | 37850   | 100RB#0      | VL            | NT               | -9.60          | -0.003721       | ±2.5        | PASS    |
| Band38 | 20MHz     | 16QAM      | 37850   | 100RB#0      | VN            | NT               | -6.90          | -0.002674       | ±2.5        | PASS    |
| Band38 | 20MHz     | 16QAM      | 37850   | 100RB#0      | VH            | NT               | -8.60          | -0.003333       | ±2.5        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38000   | 100RB#0      | VL            | NT               | -8.40          | -0.003237       | ±2.5        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38000   | 100RB#0      | VN            | NT               | -8.30          | -0.003198       | ±2.5        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38000   | 100RB#0      | VH            | NT               | -9.30          | -0.003584       | ±2.5        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38150   | 100RB#0      | VL            | NT               | -8.70          | -0.003333       | ±2.5        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38150   | 100RB#0      | VN            | NT               | -6.80          | -0.002605       | ±2.5        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38150   | 100RB#0      | VH            | NT               | -5.30          | -0.002031       | ±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 |
|------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
|------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|



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



|        |       |       |       |         |    |     |        |           |      |      |
|--------|-------|-------|-------|---------|----|-----|--------|-----------|------|------|
| Band38 | 20MHz | QPSK  | 37850 | 100RB#0 | NV | -30 | -9.20  | -0.003566 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 100RB#0 | NV | -20 | -4.60  | -0.001783 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 100RB#0 | NV | 0   | -6.40  | -0.002481 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 100RB#0 | NV | 10  | -7.50  | -0.002907 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 100RB#0 | NV | 20  | -6.30  | -0.002442 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 100RB#0 | NV | 30  | -5.50  | -0.002132 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 100RB#0 | NV | 40  | -8.40  | -0.003256 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 100RB#0 | NV | 50  | -6.90  | -0.002674 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 100RB#0 | NV | -30 | -6.10  | -0.002351 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 100RB#0 | NV | -20 | -10.20 | -0.003931 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 100RB#0 | NV | 0   | -2.70  | -0.001040 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 100RB#0 | NV | 10  | -5.60  | -0.002158 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 100RB#0 | NV | 20  | -2.70  | -0.001040 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 100RB#0 | NV | 30  | -5.90  | -0.002274 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 100RB#0 | NV | 40  | -8.20  | -0.003160 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 100RB#0 | NV | 50  | -6.70  | -0.002582 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 100RB#0 | NV | -30 | -6.40  | -0.002452 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 100RB#0 | NV | -20 | -9.20  | -0.003525 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 100RB#0 | NV | 0   | -8.00  | -0.003065 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 100RB#0 | NV | 10  | -5.90  | -0.002261 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 100RB#0 | NV | 20  | -7.20  | -0.002759 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 100RB#0 | NV | 30  | -8.10  | -0.003103 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 100RB#0 | NV | 40  | -6.90  | -0.002644 | ±2.5 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 100RB#0 | NV | 50  | -2.10  | -0.000805 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | -30 | -8.10  | -0.003140 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | -20 | -7.30  | -0.002829 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 0   | -6.70  | -0.002597 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 10  | -5.90  | -0.002287 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 20  | -7.20  | -0.002791 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 30  | -6.70  | -0.002597 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 40  | -9.50  | -0.003682 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 37850 | 100RB#0 | NV | 50  | -7.80  | -0.003023 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | -30 | -5.00  | -0.001927 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | -20 | -10.10 | -0.003892 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 0   | -8.40  | -0.003237 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 10  | -8.40  | -0.003237 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 20  | -9.60  | -0.003699 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 30  | -7.00  | -0.002697 | ±2.5 | PASS |



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

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



|        |       |       |       |         |    |     |        |           |      |      |
|--------|-------|-------|-------|---------|----|-----|--------|-----------|------|------|
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 40  | -10.20 | -0.003931 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38000 | 100RB#0 | NV | 50  | -11.40 | -0.004393 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | -30 | -6.00  | -0.002299 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | -20 | -7.20  | -0.002759 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 0   | -8.00  | -0.003065 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 10  | -7.70  | -0.002950 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 20  | -9.50  | -0.003640 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 30  | -5.50  | -0.002107 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 40  | -6.30  | -0.002414 | ±2.5 | PASS |
| Band38 | 20MHz | 64QAM | 38150 | 100RB#0 | NV | 50  | -6.00  | -0.002299 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | -30 | -5.60  | -0.002171 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | -20 | -7.30  | -0.002829 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 0   | -8.60  | -0.003333 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 10  | 23.70  | 0.009186  | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 20  | -6.60  | -0.002558 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 30  | -6.80  | -0.002636 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 40  | -6.00  | -0.002326 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | NV | 50  | -6.70  | -0.002597 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | -30 | -9.10  | -0.003507 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | -20 | -3.80  | -0.001464 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 0   | -8.80  | -0.003391 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 10  | -8.40  | -0.003237 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 20  | -8.00  | -0.003083 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 30  | -7.40  | -0.002852 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 40  | -8.10  | -0.003121 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | NV | 50  | -8.00  | -0.003083 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | -30 | -6.10  | -0.002337 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | -20 | -7.00  | -0.002682 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 0   | -7.00  | -0.002682 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 10  | -5.80  | -0.002222 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 20  | -6.30  | -0.002414 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 30  | -4.80  | -0.001839 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 40  | -5.00  | -0.001916 | ±2.5 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | NV | 50  | -8.50  | -0.003257 | ±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

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

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