



## Appendix Q: Test Data for E-UTRA Band 38

Product Name: TD-LTE digital mobile phone

Test Model: M17 Pro

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8° C   |
| Relative Humidity: | 52.1%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jay Luo   |
| Supervised by:     | Nick Peng |



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## Q.1 Conducted Output Power Data

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#0            | 22.44       | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 1RB#0            | 21.92       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#12           | 22.30       | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 1RB#12           | 22.04       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#24           | 22.31       | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 1RB#24           | 21.88       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 12RB#0           | 21.40       | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 12RB#0           | 20.65       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 12RB#6           | 21.40       | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 12RB#6           | 20.67       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 12RB#13          | 21.35       | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 12RB#13          | 20.59       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 25RB#0           | 21.39       | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 25RB#0           | 20.72       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#0            | 21.99       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#0            | 21.74       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#12           | 21.94       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#12           | 21.56       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#24           | 21.88       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#24           | 21.66       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 12RB#0           | 21.14       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 12RB#0           | 20.28       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 12RB#6           | 21.15       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 12RB#6           | 20.29       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 12RB#13          | 21.12       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 12RB#13          | 20.26       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 25RB#0           | 21.15       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 25RB#0           | 20.44       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#0            | 21.93       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#0            | 21.55       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#12           | 21.89       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#12           | 21.23       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#24           | 21.90       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#24           | 21.47       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 12RB#0           | 21.00       | PASS    |



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|        |       |       |       |         |       |      |
|--------|-------|-------|-------|---------|-------|------|
| Band38 | 5MHz  | 16QAM | 38225 | 12RB#0  | 20.21 | PASS |
| Band38 | 5MHz  | QPSK  | 38225 | 12RB#6  | 21.00 | PASS |
| Band38 | 5MHz  | 16QAM | 38225 | 12RB#6  | 20.21 | PASS |
| Band38 | 5MHz  | QPSK  | 38225 | 12RB#13 | 20.95 | PASS |
| Band38 | 5MHz  | 16QAM | 38225 | 12RB#13 | 20.13 | PASS |
| Band38 | 5MHz  | QPSK  | 38225 | 25RB#0  | 20.99 | PASS |
| Band38 | 5MHz  | 16QAM | 38225 | 25RB#0  | 20.22 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 1RB#0   | 22.75 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#0   | 22.36 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 1RB#24  | 22.66 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#24  | 22.22 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 1RB#49  | 22.54 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#49  | 22.10 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 25RB#0  | 21.66 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 25RB#0  | 20.85 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 25RB#12 | 21.66 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 25RB#12 | 20.85 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 25RB#25 | 21.62 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 25RB#25 | 20.79 | PASS |
| Band38 | 10MHz | QPSK  | 37800 | 50RB#0  | 21.54 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 50RB#0  | 20.82 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 1RB#0   | 22.27 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#0   | 21.64 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 1RB#24  | 22.25 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#24  | 21.63 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 1RB#49  | 22.29 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#49  | 21.77 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 25RB#0  | 21.42 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 25RB#0  | 20.87 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 25RB#12 | 21.41 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 25RB#12 | 20.87 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 25RB#25 | 21.45 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 25RB#25 | 20.92 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 50RB#0  | 21.51 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 50RB#0  | 20.65 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 1RB#0   | 22.28 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#0   | 21.91 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 1RB#24  | 22.17 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#24  | 21.75 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 1RB#49  | 22.21 | PASS |



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|        |       |       |       |         |       |      |
|--------|-------|-------|-------|---------|-------|------|
| Band38 | 10MHz | 16QAM | 38200 | 1RB#49  | 21.77 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 25RB#0  | 21.21 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 25RB#0  | 20.44 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 25RB#12 | 21.21 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 25RB#12 | 20.44 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 25RB#25 | 21.25 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 25RB#25 | 20.26 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 50RB#0  | 21.04 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 50RB#0  | 20.20 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 1RB#0   | 22.62 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#0   | 22.33 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 1RB#38  | 22.47 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#38  | 22.09 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 1RB#74  | 22.35 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#74  | 22.03 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 38RB#0  | 21.48 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 38RB#0  | 21.41 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 38RB#18 | 21.44 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 38RB#18 | 21.45 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 38RB#37 | 21.41 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 38RB#37 | 21.37 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 75RB#0  | 21.44 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 75RB#0  | 20.75 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 1RB#0   | 22.49 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#0   | 20.99 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 1RB#38  | 22.49 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#38  | 20.92 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 1RB#74  | 22.61 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#74  | 20.57 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 38RB#0  | 21.29 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 38RB#0  | 21.35 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 38RB#18 | 21.35 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 38RB#18 | 21.38 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 38RB#37 | 21.41 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 38RB#37 | 21.35 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 75RB#0  | 21.41 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 75RB#0  | 20.57 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 1RB#0   | 22.29 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#0   | 21.88 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 1RB#38  | 22.15 | PASS |



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|--------|-------|-------|-------|---------|-------|------|
| Band38 | 15MHz | 16QAM | 38175 | 1RB#38  | 21.77 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 1RB#74  | 22.13 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#74  | 21.72 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 38RB#0  | 21.19 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 38RB#0  | 21.18 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 38RB#18 | 21.18 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 38RB#18 | 21.17 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 38RB#37 | 21.19 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 38RB#37 | 21.17 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 75RB#0  | 21.18 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 75RB#0  | 20.37 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#0   | 22.72 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0   | 21.05 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#49  | 21.34 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#49  | 22.69 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#99  | 22.97 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#99  | 22.63 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 50RB#0  | 22.86 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 50RB#0  | 21.21 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 50RB#25 | 20.87 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 50RB#25 | 20.21 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 50RB#50 | 22.48 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 50RB#50 | 21.85 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 100RB#0 | 22.85 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 22.06 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 1RB#0   | 22.51 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#0   | 22.67 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 1RB#49  | 20.93 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#49  | 21.99 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 1RB#99  | 22.54 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#99  | 21.51 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 50RB#0  | 22.85 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 50RB#0  | 22.04 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 50RB#25 | 22.85 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 50RB#25 | 22.04 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 50RB#50 | 21.20 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 50RB#50 | 21.34 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 100RB#0 | 22.12 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 21.38 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 1RB#0   | 21.28 | PASS |



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|--------|-------|-------|-------|---------|-------|------|
| Band38 | 20MHz | 16QAM | 38150 | 1RB#0   | 22.31 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 1RB#49  | 21.69 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#49  | 21.53 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 1RB#99  | 22.04 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#99  | 21.98 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 50RB#0  | 22.86 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 50RB#0  | 22.23 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 50RB#25 | 22.86 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 50RB#25 | 21.23 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 50RB#50 | 20.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 50RB#50 | 22.32 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 100RB#0 | 21.07 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 22.27 | PASS |





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

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#0            | 8.46       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 1RB#0            | 8.72       | 13        | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 25RB#0           | 9.01       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 25RB#0           | 9.54       | 13        | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#0            | 8.59       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#0            | 9.00       | 13        | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 25RB#0           | 9.01       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 25RB#0           | 9.76       | 13        | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#0            | 8.18       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#0            | 8.59       | 13        | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 25RB#0           | 8.79       | 13        | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 25RB#0           | 9.58       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 1RB#0            | 8.04       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 1RB#0            | 8.77       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 50RB#0           | 8.99       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 50RB#0           | 9.54       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 38000   | 1RB#0            | 8.61       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 38000   | 1RB#0            | 9.26       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 38000   | 50RB#0           | 8.90       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 38000   | 50RB#0           | 9.61       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 38200   | 1RB#0            | 8.21       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 38200   | 1RB#0            | 8.67       | 13        | PASS    |
| Band38 | 10MHz     | QPSK       | 38200   | 50RB#0           | 9.07       | 13        | PASS    |
| Band38 | 10MHz     | 16QAM      | 38200   | 50RB#0           | 9.86       | 13        | PASS    |
| Band38 | 15MHz     | QPSK       | 37825   | 1RB#0            | 8.19       | 13        | PASS    |
| Band38 | 15MHz     | 16QAM      | 37825   | 1RB#0            | 8.68       | 13        | PASS    |
| Band38 | 15MHz     | QPSK       | 37825   | 75RB#0           | 9.13       | 13        | PASS    |
| Band38 | 15MHz     | 16QAM      | 37825   | 75RB#0           | 9.67       | 13        | PASS    |
| Band38 | 15MHz     | QPSK       | 38000   | 1RB#0            | 8.62       | 13        | PASS    |
| Band38 | 15MHz     | 16QAM      | 38000   | 1RB#0            | 9.11       | 13        | PASS    |
| Band38 | 15MHz     | QPSK       | 38000   | 75RB#0           | 9.16       | 13        | PASS    |
| Band38 | 15MHz     | 16QAM      | 38000   | 75RB#0           | 9.87       | 13        | PASS    |
| Band38 | 15MHz     | QPSK       | 38175   | 1RB#0            | 8.59       | 13        | PASS    |
| Band38 | 15MHz     | 16QAM      | 38175   | 1RB#0            | 9.46       | 13        | PASS    |
| Band38 | 15MHz     | QPSK       | 38175   | 75RB#0           | 9.70       | 13        | PASS    |



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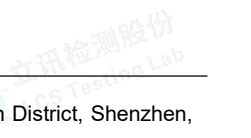
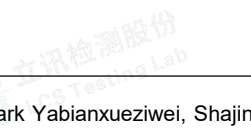
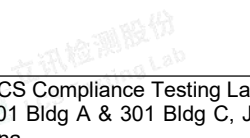
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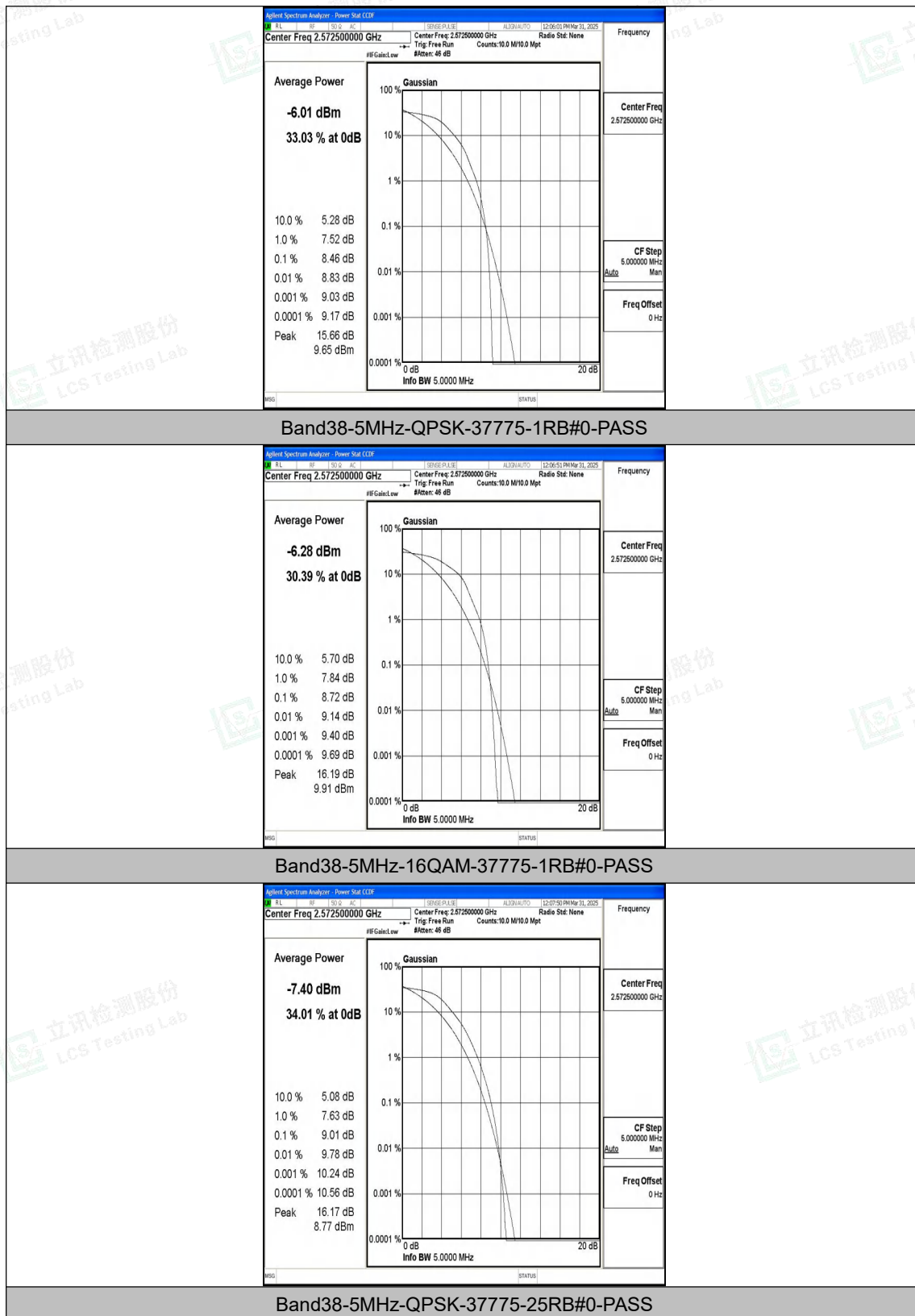
|        |       |       |       |        |      |    |      |
|--------|-------|-------|-------|--------|------|----|------|
| Band38 | 15MHz | 16QAM | 38175 | 75RB#0 | 9.98 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0  | 9.01 | 13 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#0  | 8.25 | 13 | PASS |



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## Test Graphs

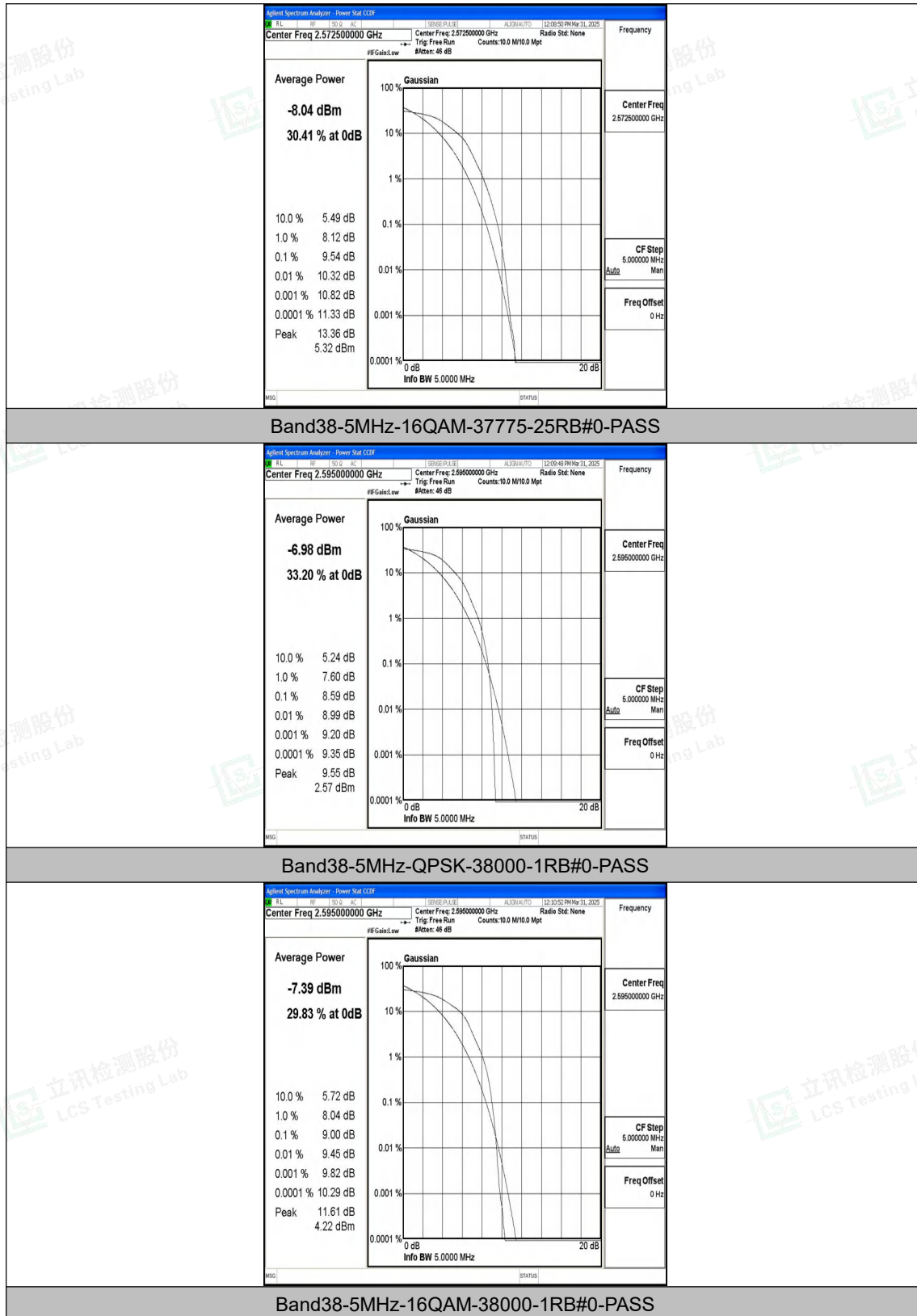


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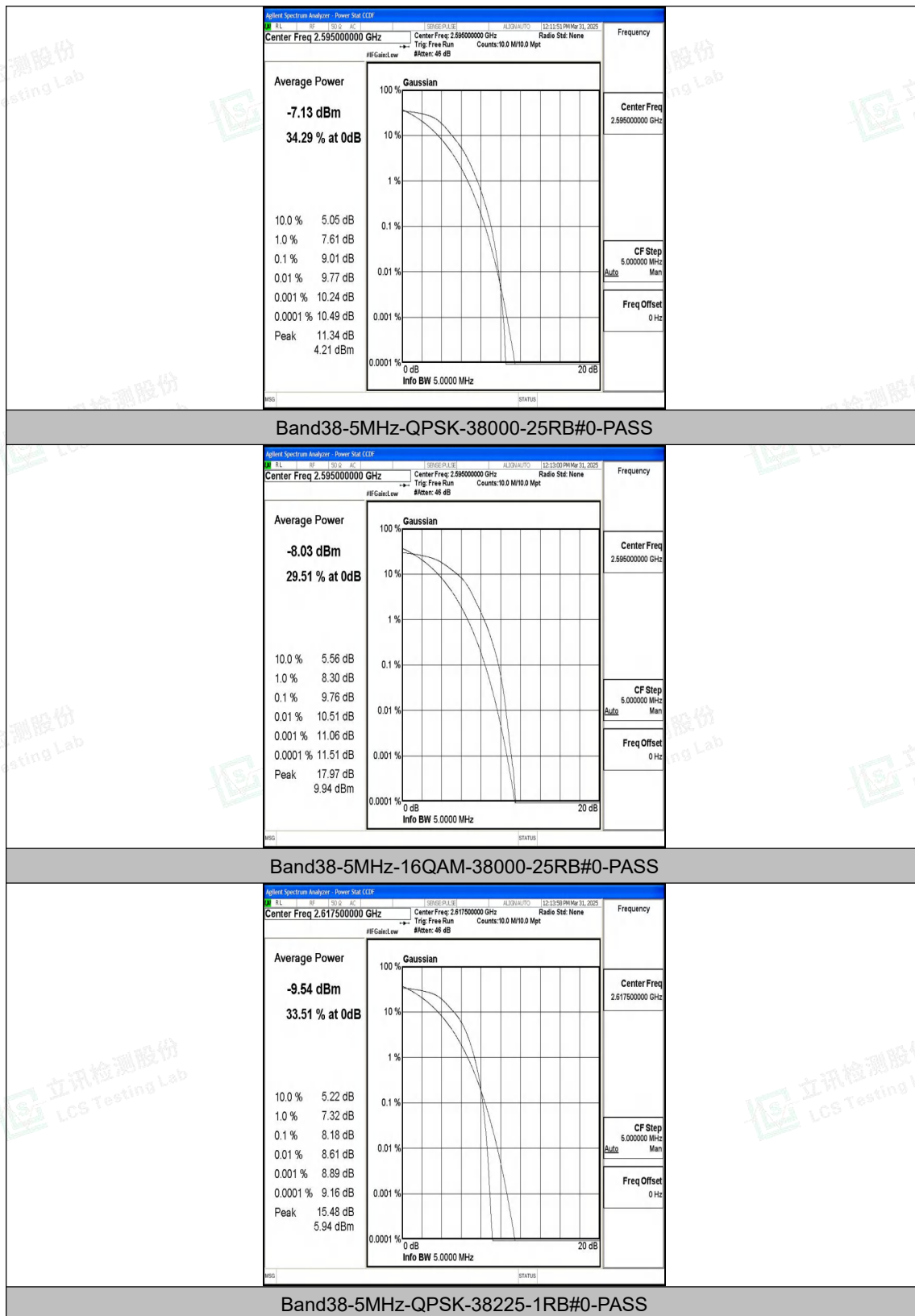


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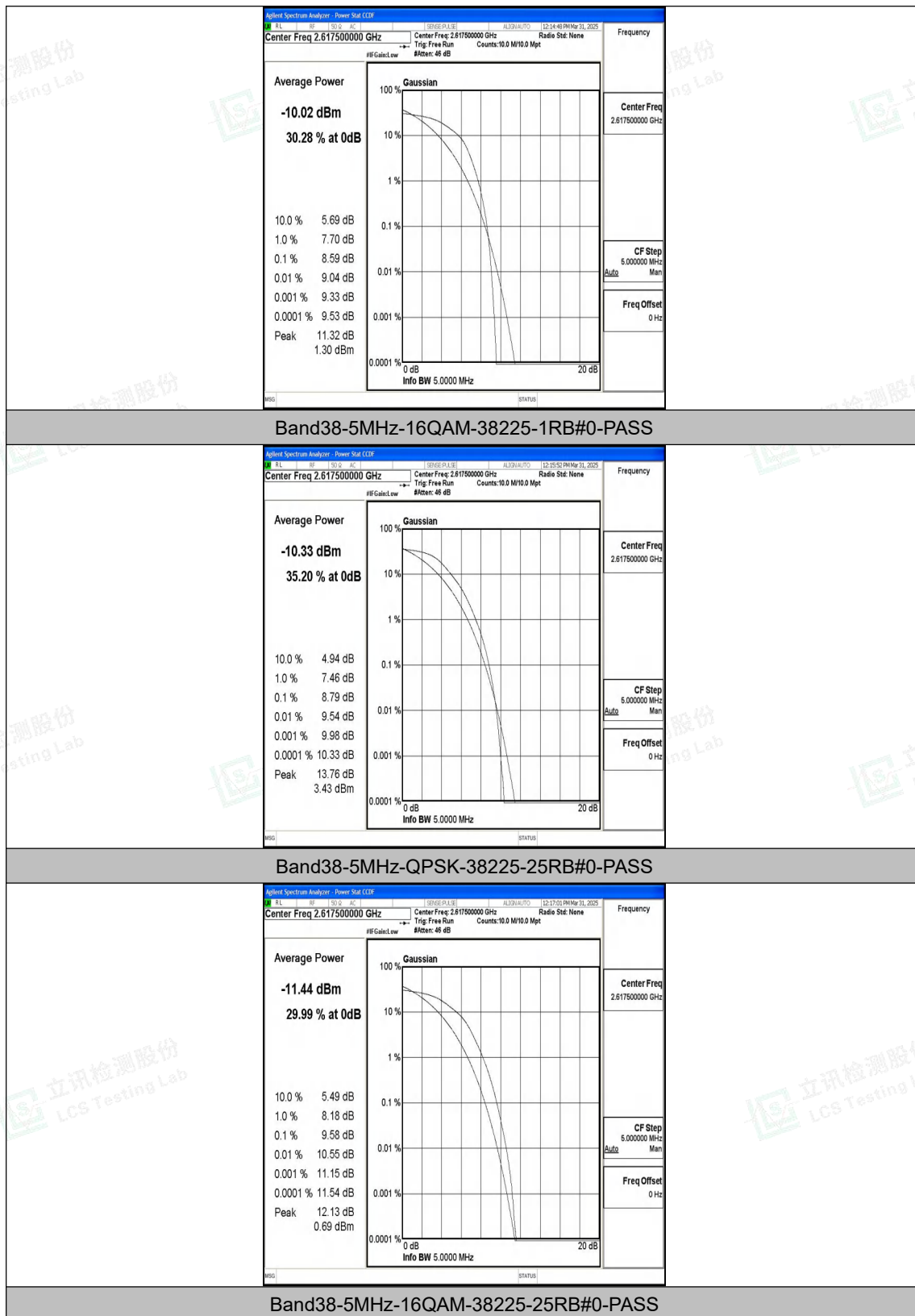


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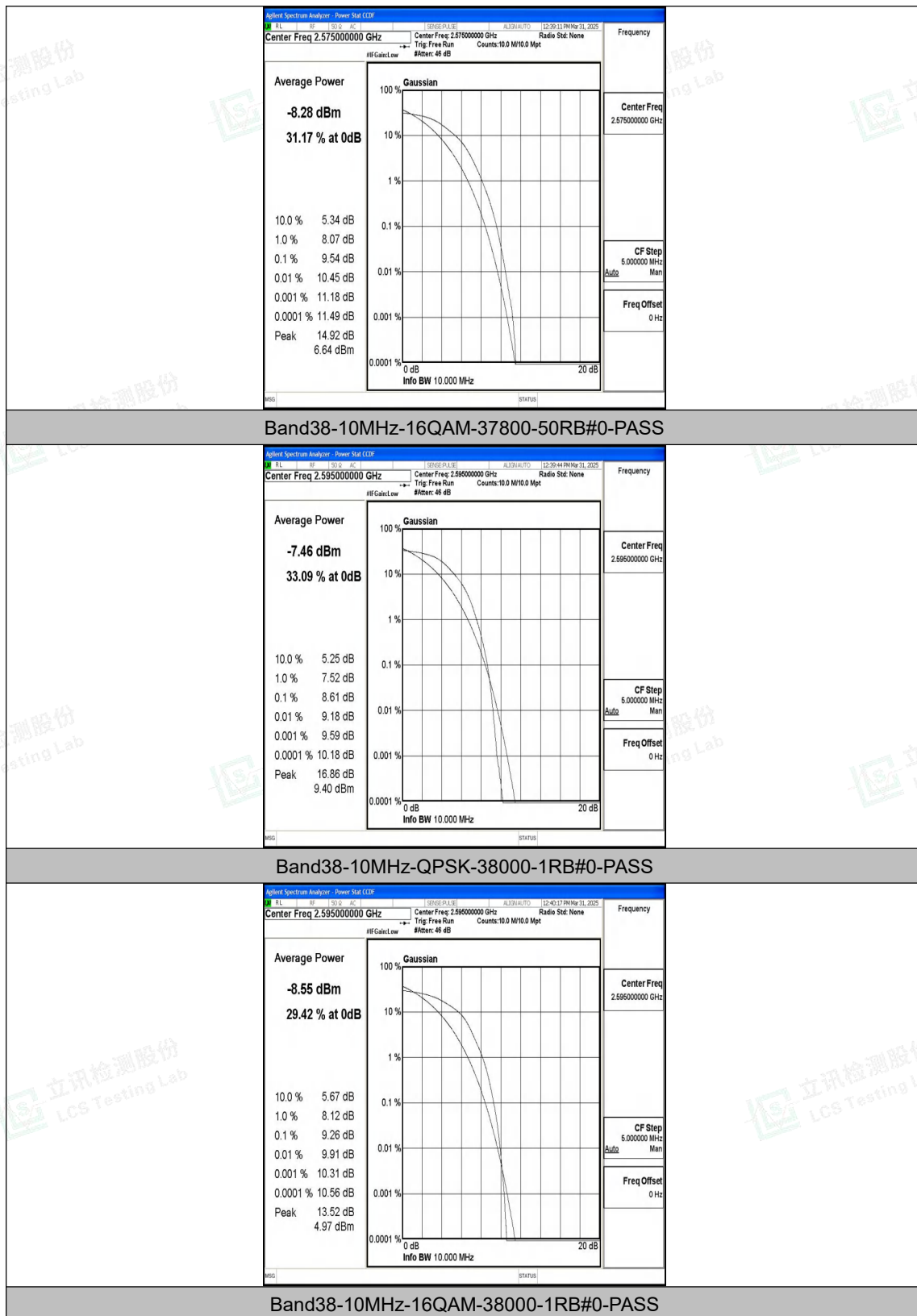


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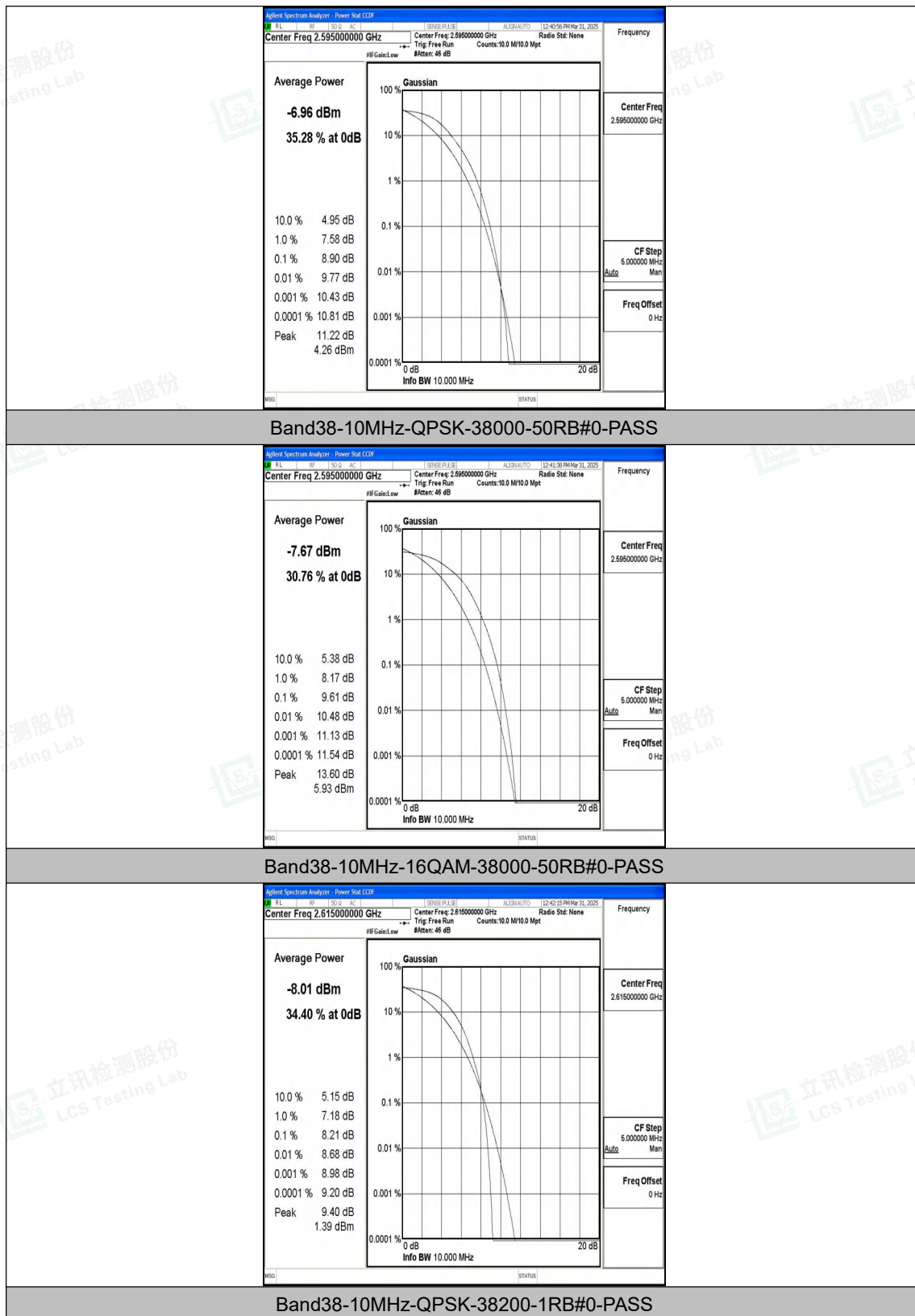


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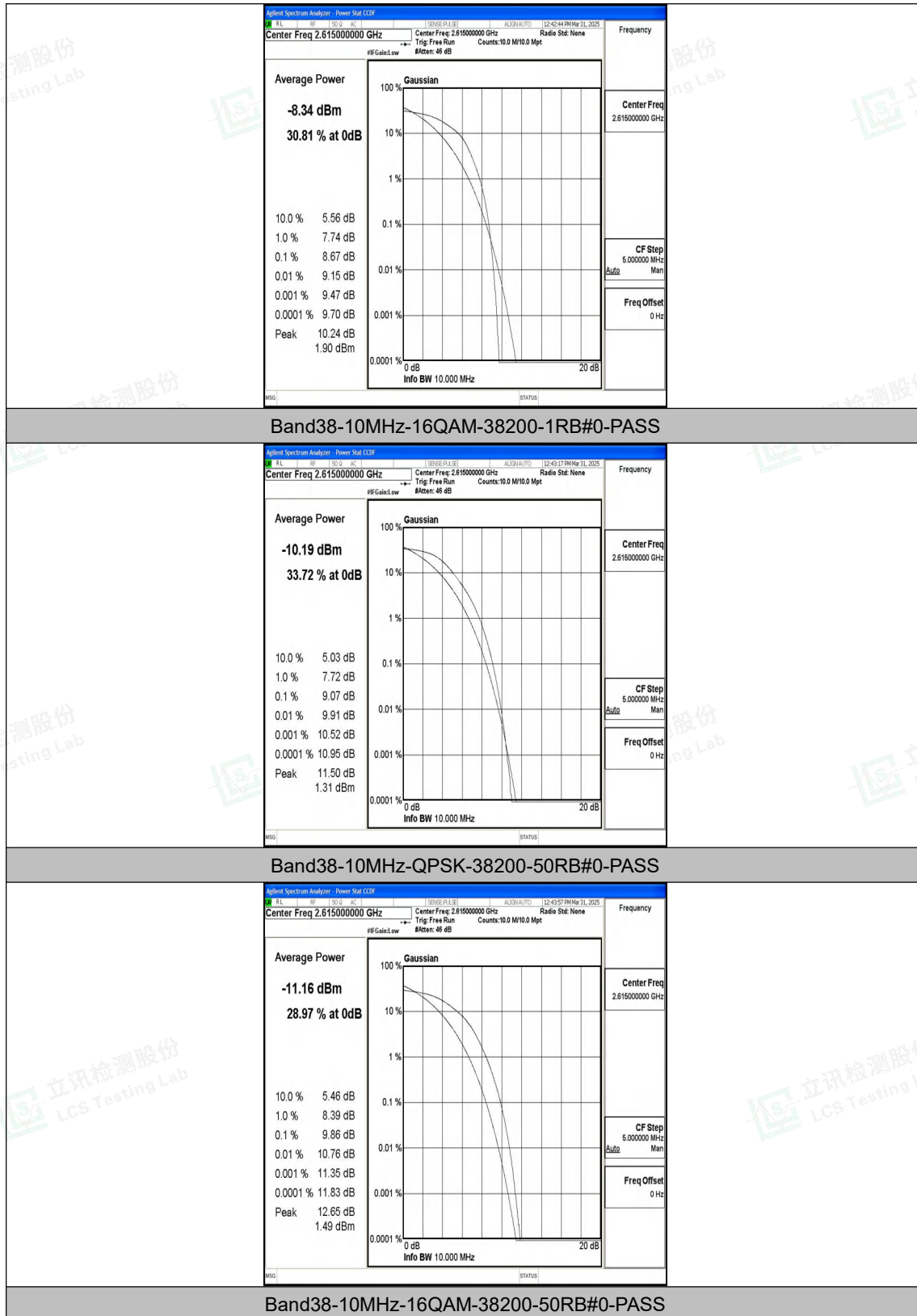


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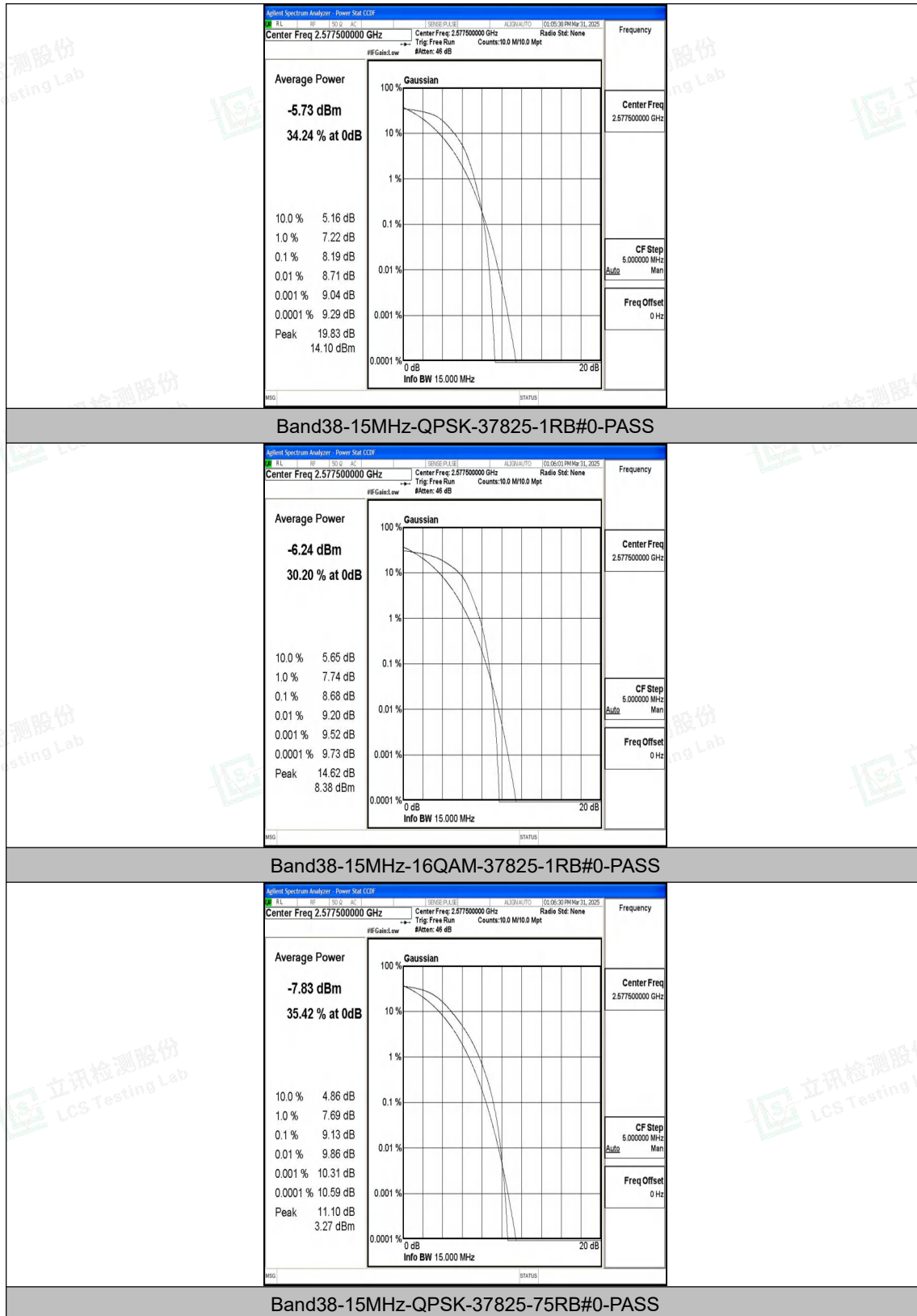


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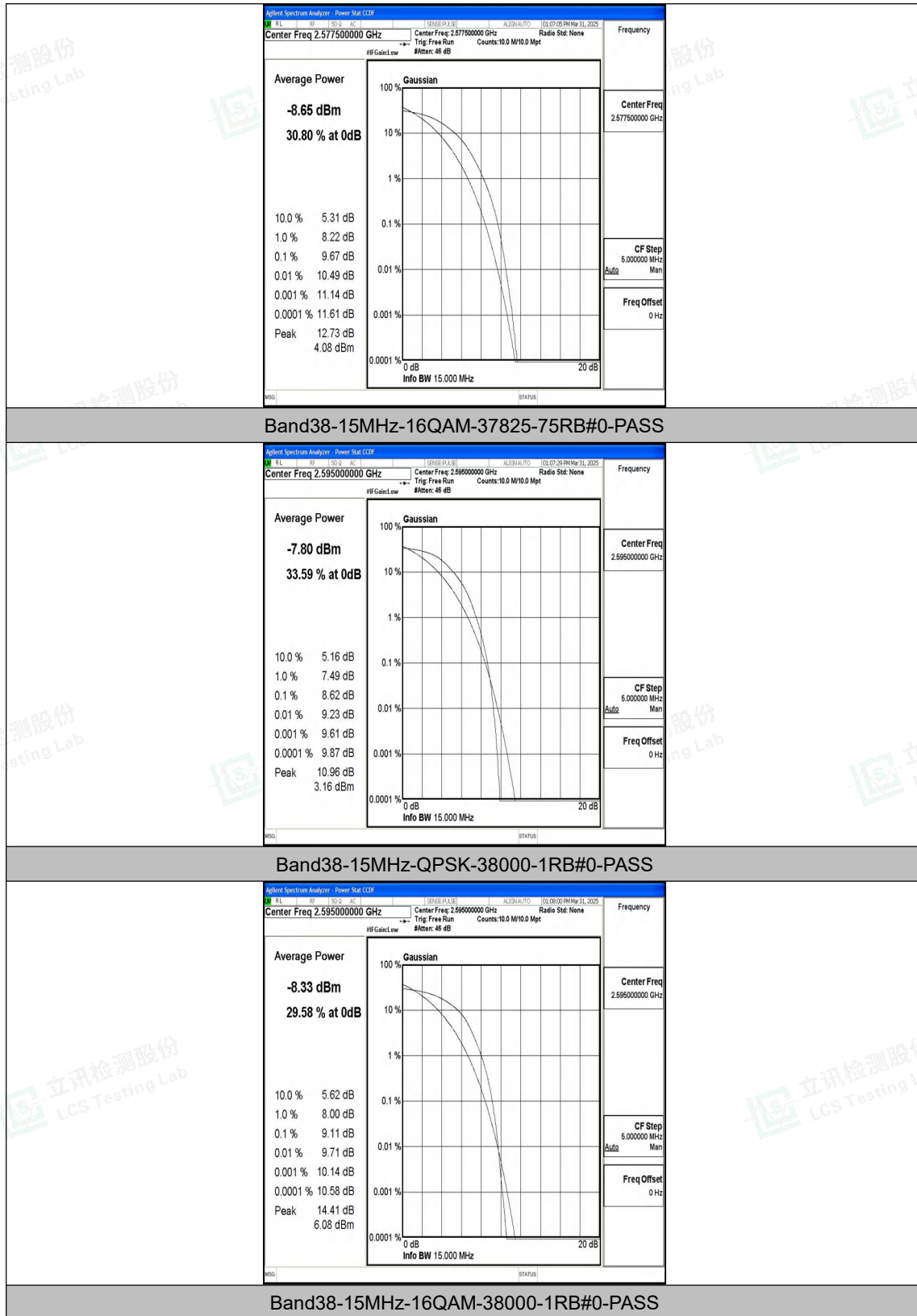


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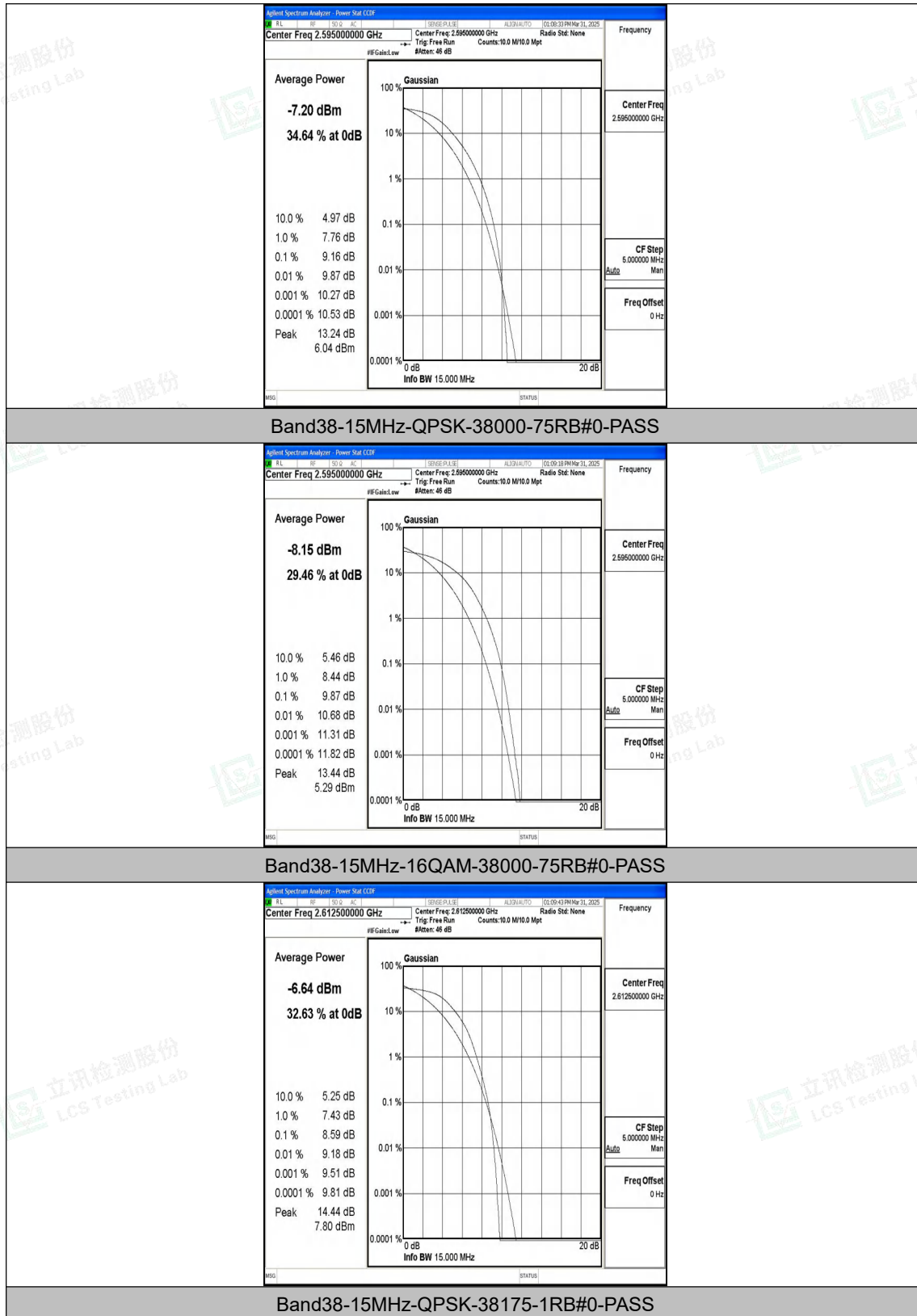


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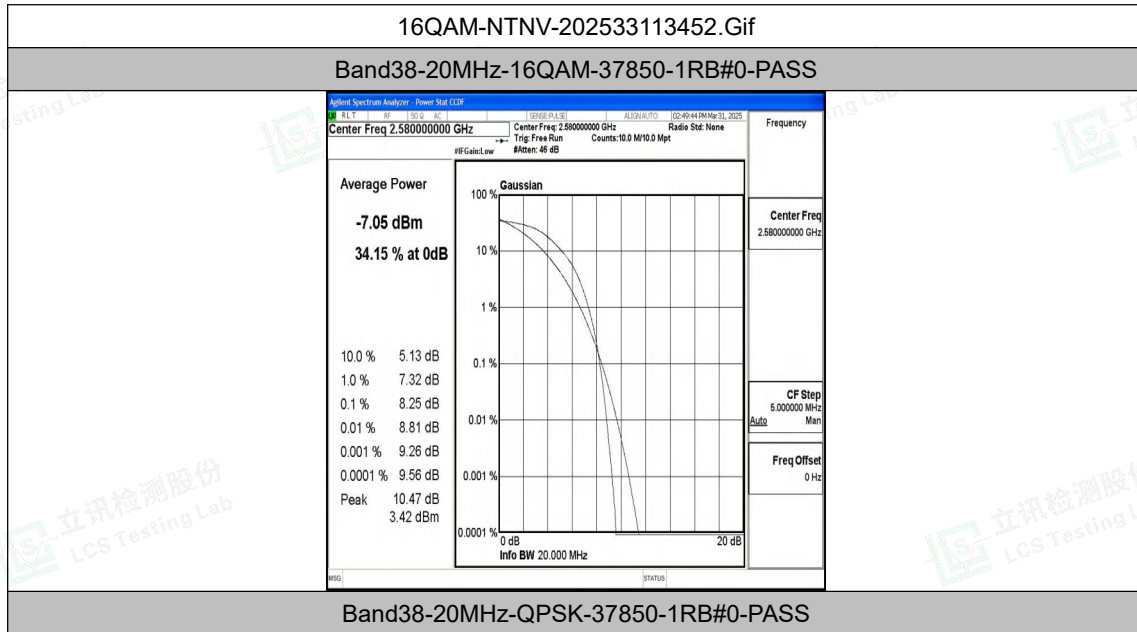


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### Q.3 26dB Bandwidth and Occupied Bandwidth

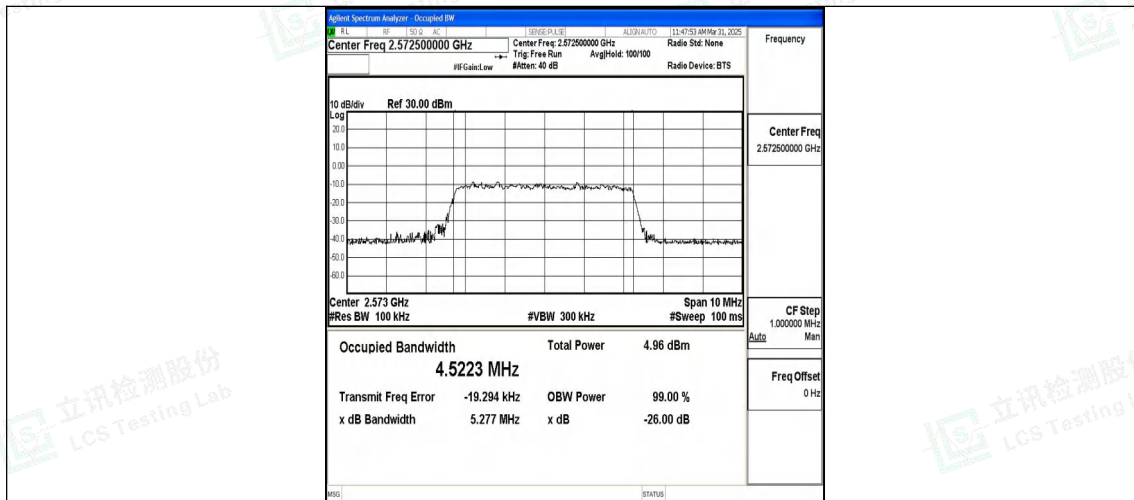
#### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band38 | 5MHz      | QPSK       | 37775   | 25RB#0           | 4.5223                   | 5.277                | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 25RB#0           | 4.5134                   | 6.144                | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 25RB#0           | 4.5196                   | 5.285                | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 25RB#0           | 4.5135                   | 5.771                | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 25RB#0           | 4.5214                   | 5.063                | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 25RB#0           | 4.5278                   | 6.035                | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 50RB#0           | 9.0354                   | 10.24                | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 50RB#0           | 9.0402                   | 10.38                | PASS    |
| Band38 | 10MHz     | QPSK       | 38000   | 50RB#0           | 9.0248                   | 9.899                | PASS    |
| Band38 | 10MHz     | 16QAM      | 38000   | 50RB#0           | 9.0127                   | 10.12                | PASS    |
| Band38 | 10MHz     | QPSK       | 38200   | 50RB#0           | 9.1201                   | 19.85                | PASS    |
| Band38 | 10MHz     | 16QAM      | 38200   | 50RB#0           | 9.1651                   | 20.00                | PASS    |
| Band38 | 15MHz     | QPSK       | 37825   | 75RB#0           | 13.668                   | 26.71                | PASS    |
| Band38 | 15MHz     | 16QAM      | 37825   | 75RB#0           | 13.675                   | 29.72                | PASS    |
| Band38 | 15MHz     | QPSK       | 38000   | 75RB#0           | 13.584                   | 15.31                | PASS    |
| Band38 | 15MHz     | 16QAM      | 38000   | 75RB#0           | 13.590                   | 28.34                | PASS    |
| Band38 | 15MHz     | QPSK       | 38175   | 75RB#0           | 13.755                   | 29.87                | PASS    |
| Band38 | 15MHz     | 16QAM      | 38175   | 75RB#0           | 13.798                   | 29.96                | PASS    |
| Band38 | 20MHz     | QPSK       | 37850   | 100RB#0          | 18.345                   | 39.58                | PASS    |
| Band38 | 20MHz     | 16QAM      | 37850   | 100RB#0          | 18.397                   | 40.00                | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0          | 18.175                   | 39.74                | PASS    |
| Band38 | 20MHz     | 16QAM      | 38000   | 100RB#0          | 18.122                   | 39.71                | PASS    |
| Band38 | 20MHz     | QPSK       | 38150   | 100RB#0          | 18.290                   | 38.87                | PASS    |
| Band38 | 20MHz     | 16QAM      | 38150   | 100RB#0          | 18.321                   | 39.97                | PASS    |

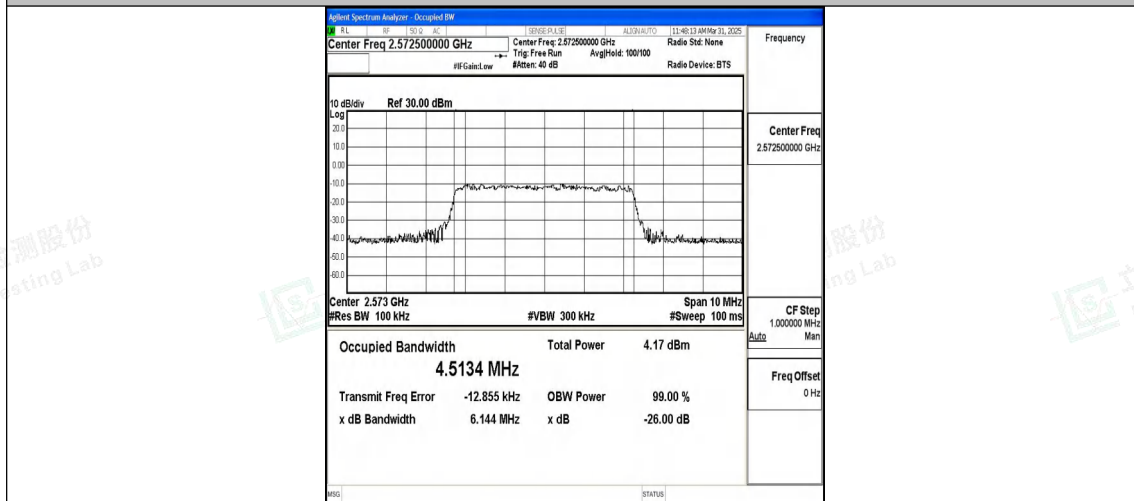




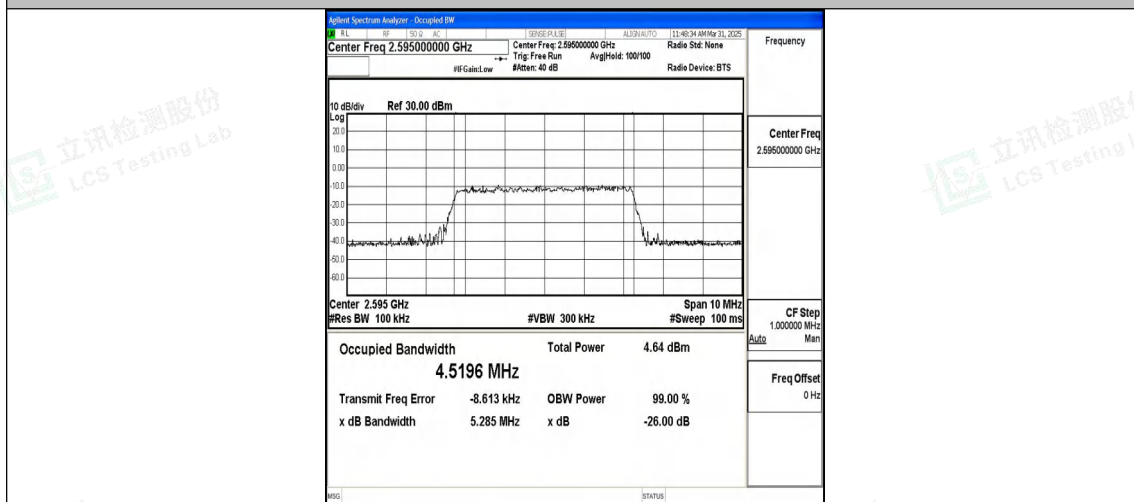
## Test Graphs



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



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



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

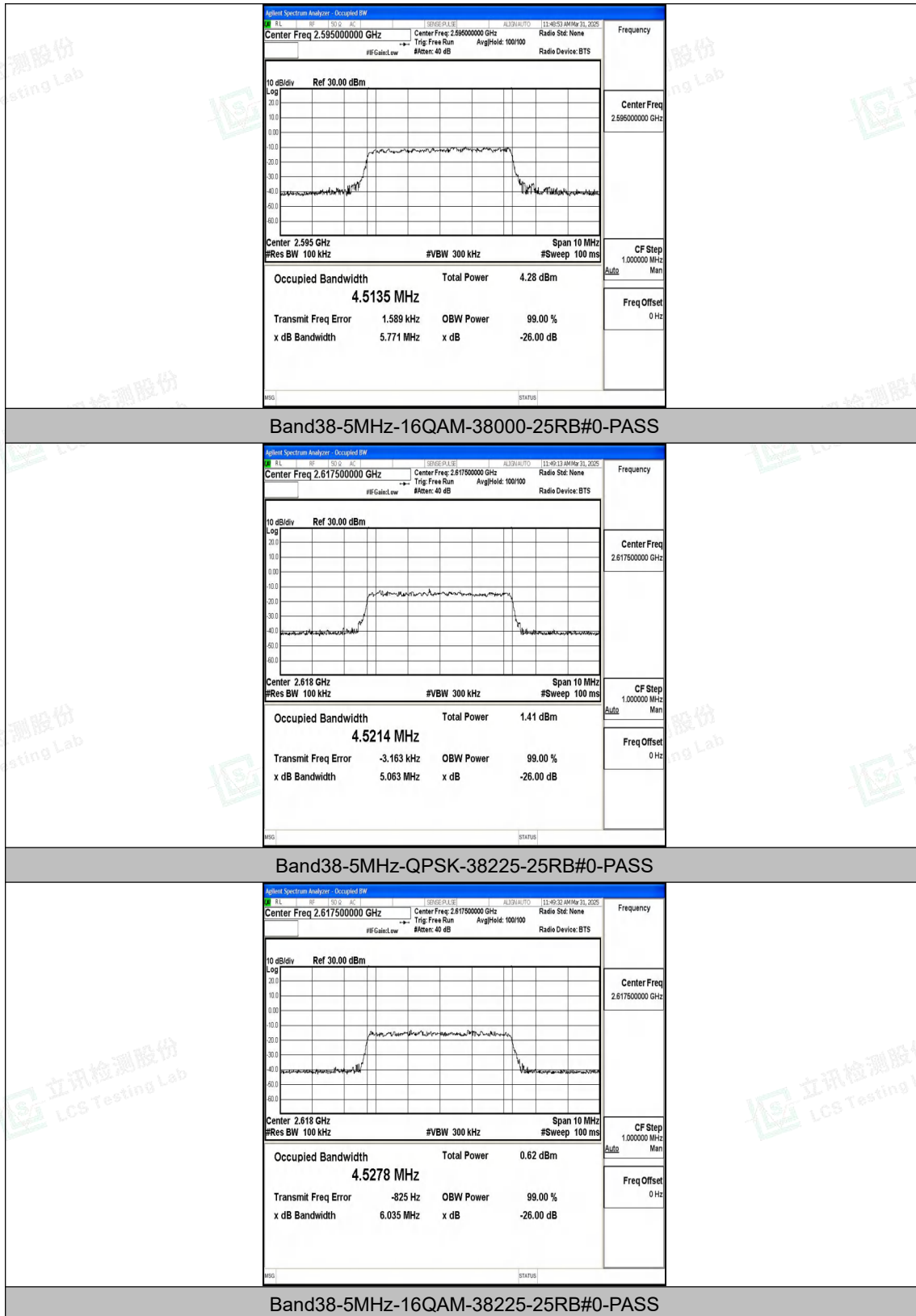


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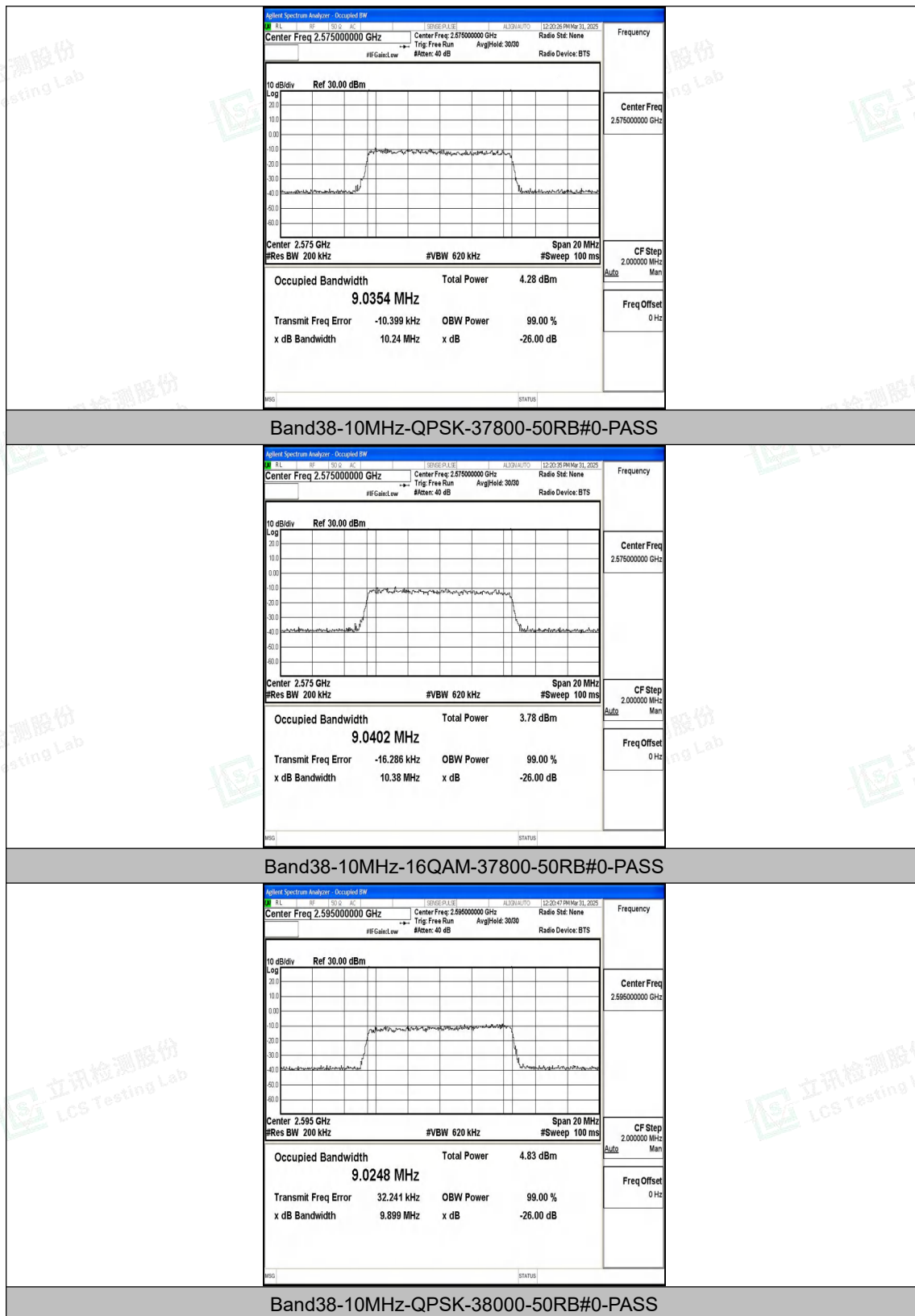


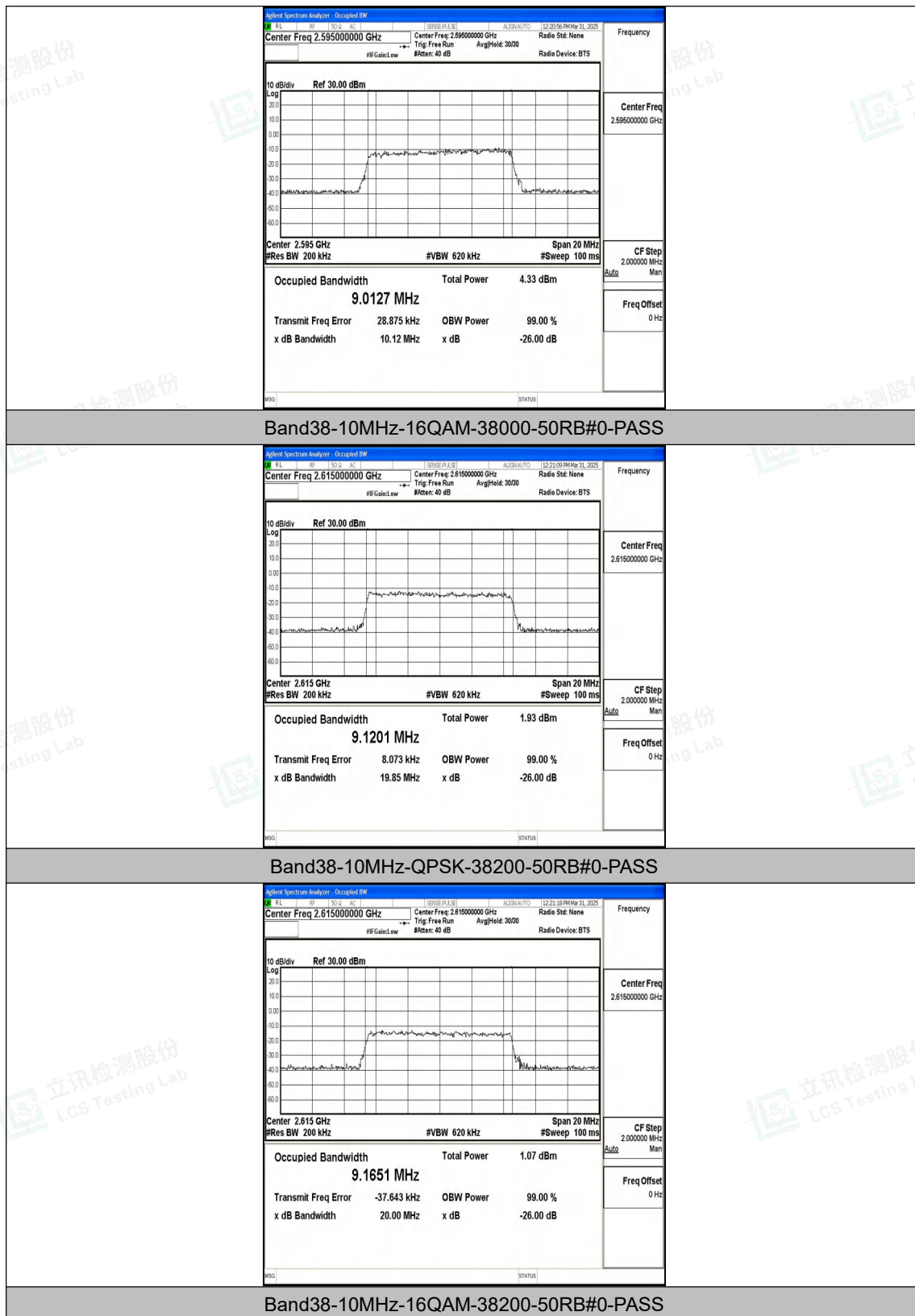
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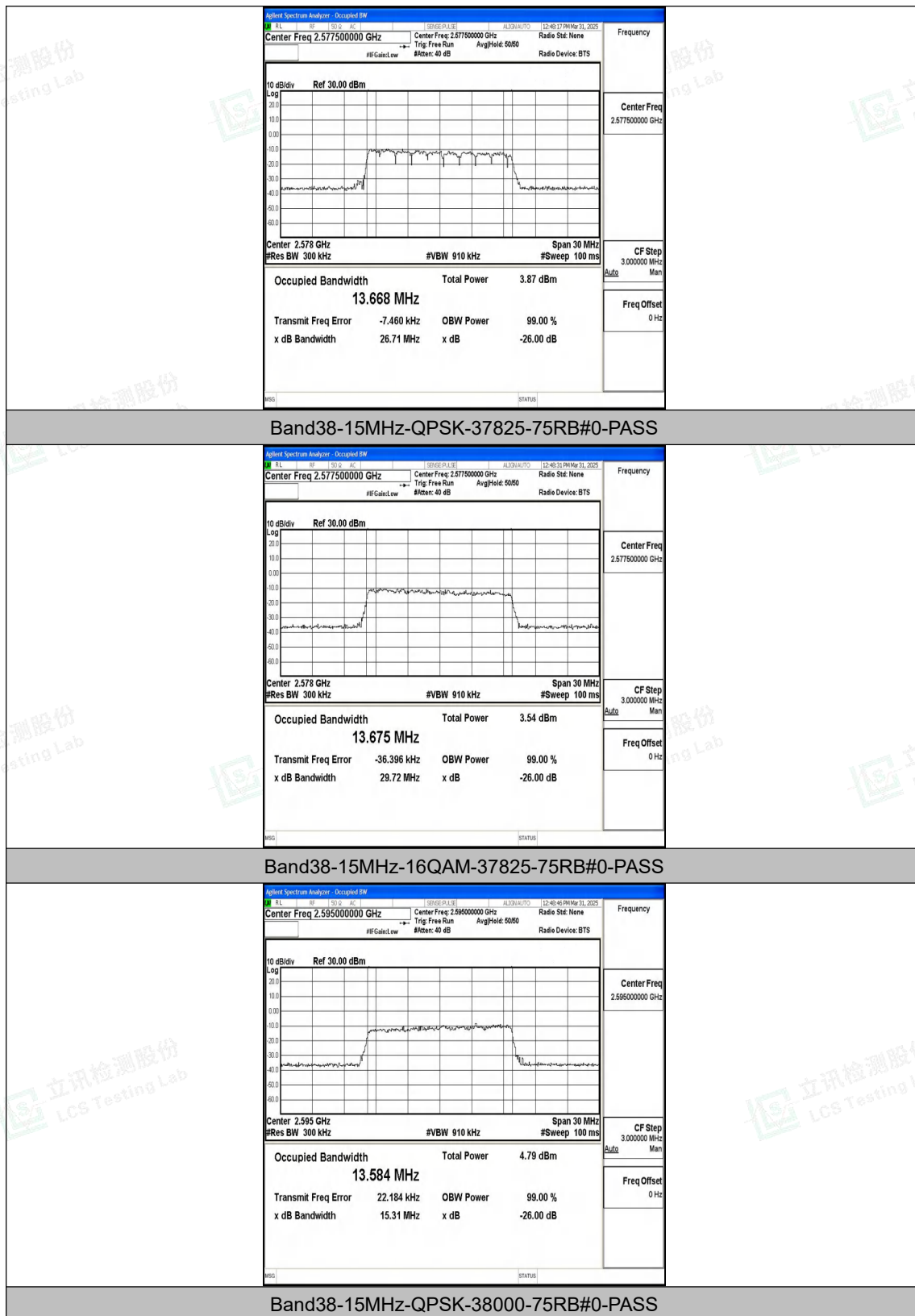


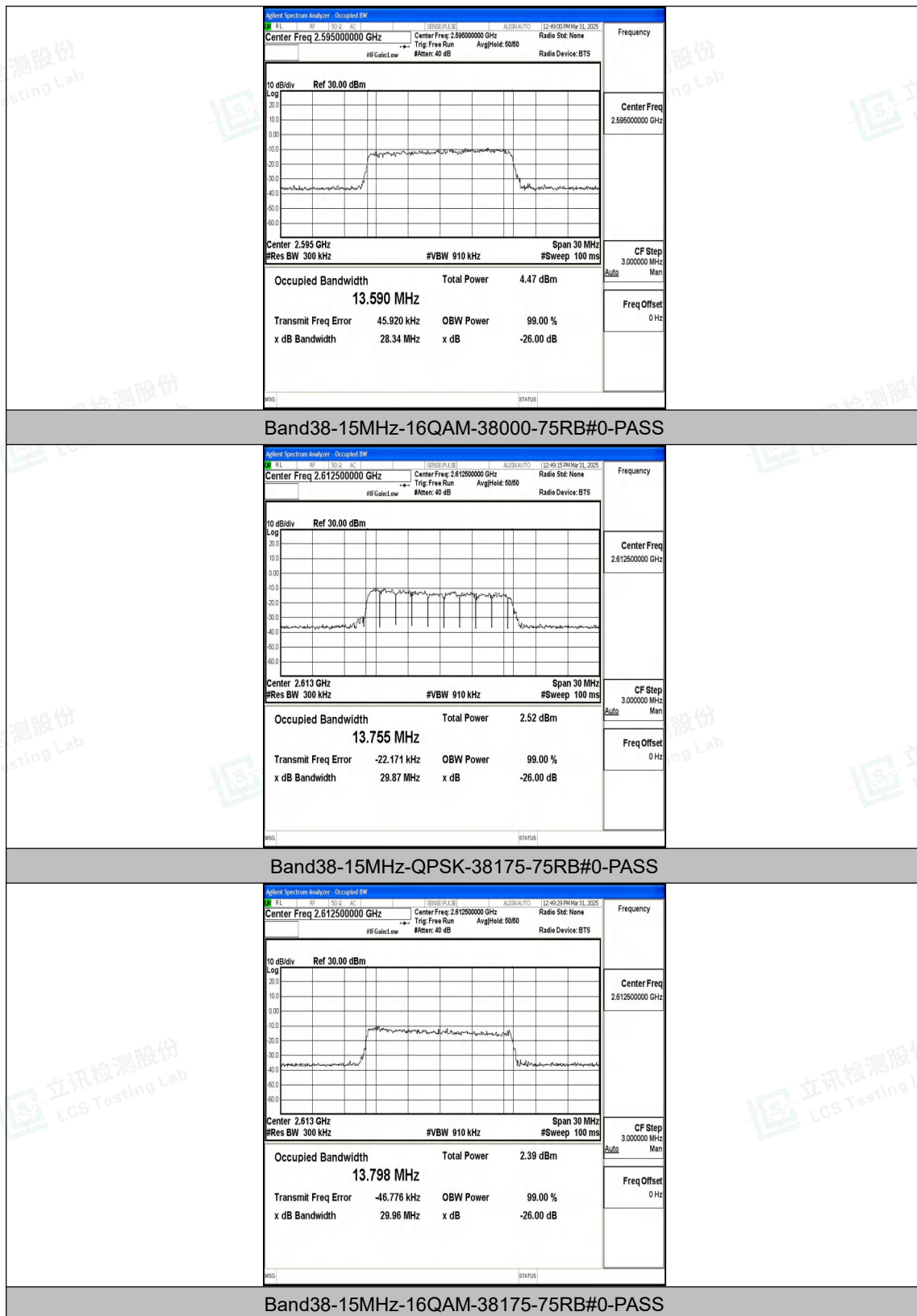
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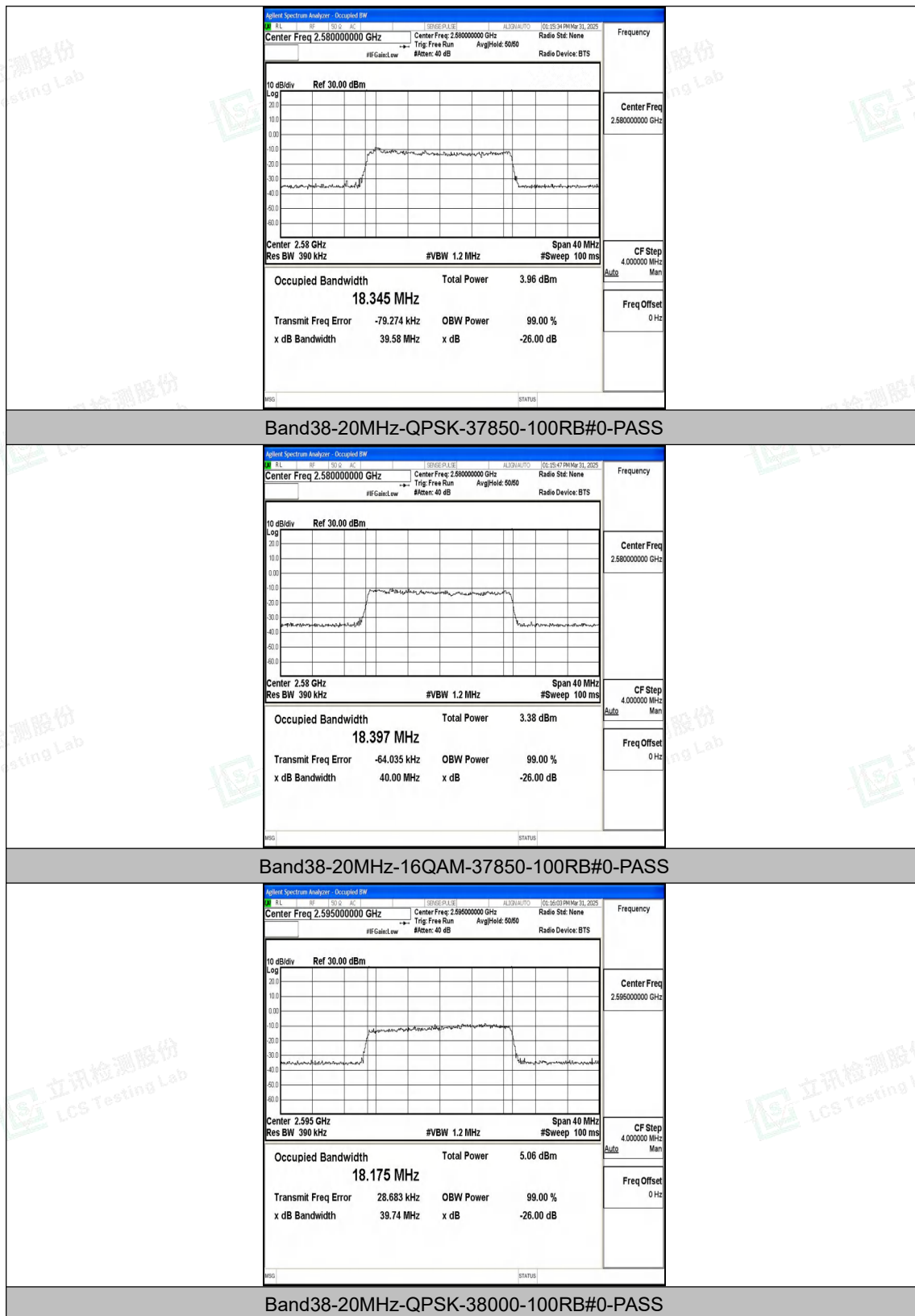
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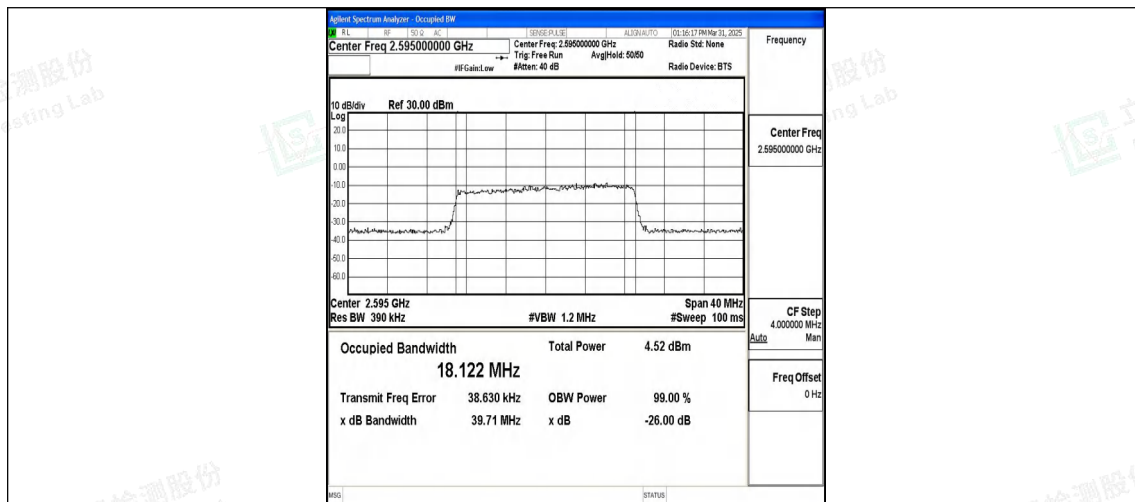


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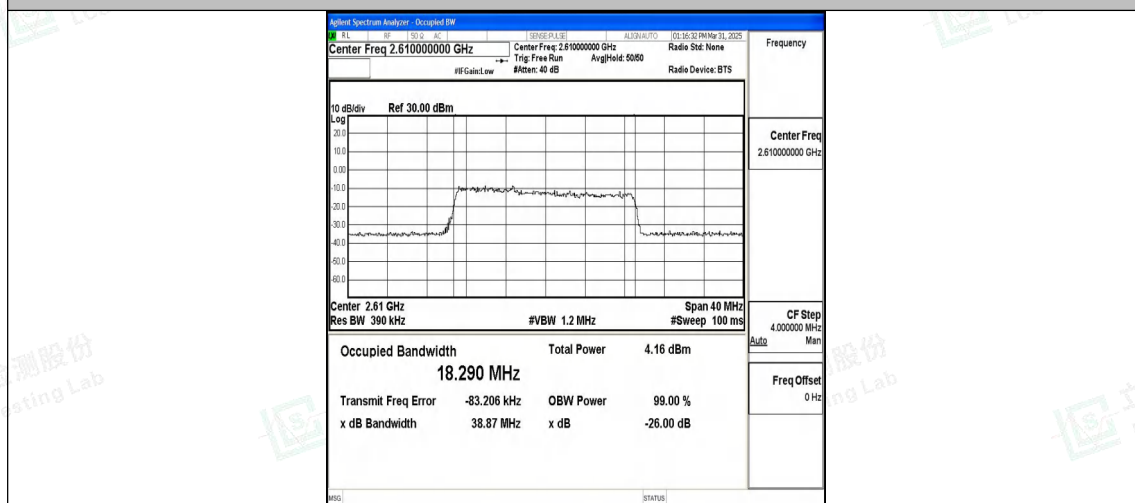
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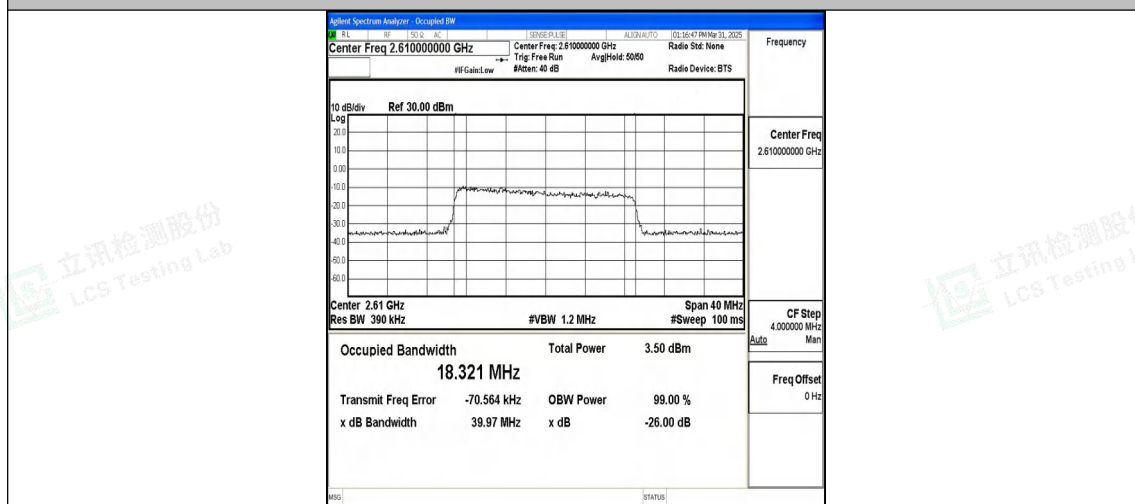
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Band38-20MHz-16QAM-38000-100RB#0-PASS



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



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



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## Q.4 Band Edge

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Peak Frequency | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|----------------|-------------|---------|
| Band38 | 5MHz      | QPSK       | 37775   | 25RB#0           | 2560.26        | -40.28      | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 25RB#0           | 2562.03        | -40.58      | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 25RB#0           | 2626.57        | -40.45      | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 25RB#0           | 2629.30        | -40.43      | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 50RB#0           | 2558.70        | -36.63      | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 50RB#0           | 2556.75        | -36.95      | PASS    |
| Band38 | 10MHz     | QPSK       | 38200   | 50RB#0           | 2634.88        | -37.93      | PASS    |
| Band38 | 10MHz     | 16QAM      | 38200   | 50RB#0           | 2630.25        | -36.42      | PASS    |
| Band38 | 15MHz     | QPSK       | 37825   | 75RB#0           | 2552.91        | -35.38      | PASS    |
| Band38 | 15MHz     | 16QAM      | 37825   | 75RB#0           | 2551.93        | -35.55      | PASS    |
| Band38 | 15MHz     | QPSK       | 38175   | 75RB#0           | 2635.87        | -35.53      | PASS    |
| Band38 | 15MHz     | 16QAM      | 38175   | 75RB#0           | 2635.49        | -35.54      | PASS    |
| Band38 | 20MHz     | QPSK       | 37850   | 100RB#0          | 2547.25        | -34.38      | PASS    |
| Band38 | 20MHz     | 16QAM      | 37850   | 100RB#0          | 2548.78        | -34.52      | PASS    |
| Band38 | 20MHz     | QPSK       | 38150   | 100RB#0          | 2644.10        | -33.39      | PASS    |
| Band38 | 20MHz     | 16QAM      | 38150   | 100RB#0          | 2642.53        | -34.42      | PASS    |





## Test Graphs





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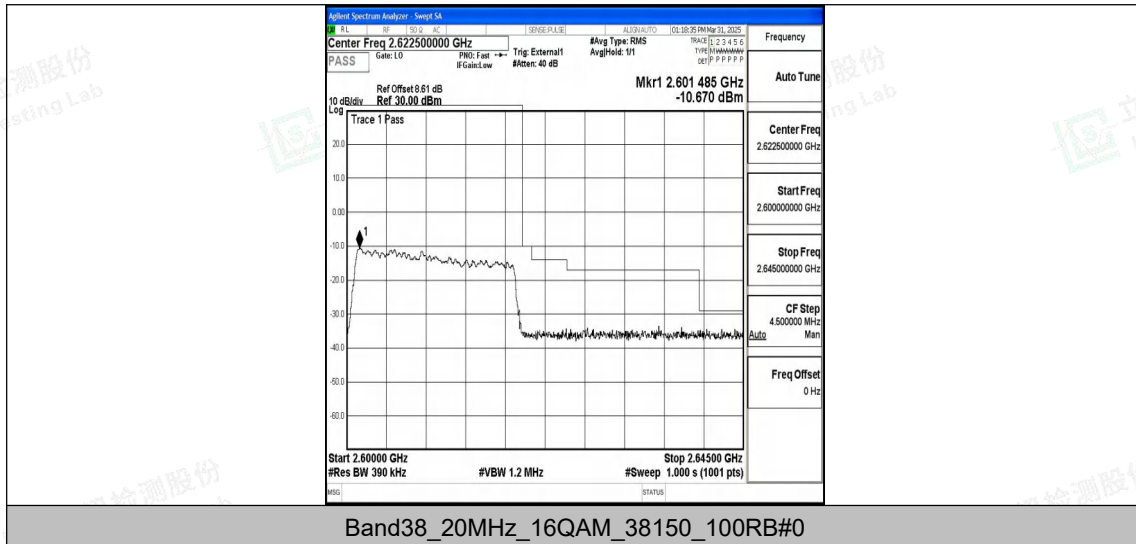


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## Q.5 Conducted Spurious Emission

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#0            | 0.009~0.15      | -64.37       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#0            | 0.15~30         | -54.95       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#0            | 30~1000         | -53.23       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#0            | 1000~20000      | -34.12       | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#0            | 20000~27000     | -26.78       | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 1RB#0            | 0.009~0.15      | -63.64       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#0            | 1000~20000      | -34.27       | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#0            | 20000~27000     | -25.91       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#0            | 0.009~0.15      | -65.19       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#0            | 0.15~30         | -52.92       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#0            | 30~1000         | -53.08       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#0            | 1000~20000      | -34.37       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#0            | 20000~27000     | -26.27       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#0            | 0.009~0.15      | -64.45       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#0            | 0.15~30         | -51.54       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#0            | 30~1000         | -52.73       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#0            | 1000~20000      | -34.22       | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#0            | 20000~27000     | -26.26       | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 1RB#0            | 0.009~0.15      | -65.39       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#0            | 0.009~0.15      | -67.30       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#0            | 0.15~30         | -55.82       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#0            | 30~1000         | -52.95       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#0            | 1000~20000      | -34.71       | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#0            | 20000~27000     | -25.45       | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 1RB#0            | 0.15~30         | -54.02       | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 1RB#0            | 30~1000         | -52.69       | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 1RB#0            | 1000~20000      | -33.93       | PASS    |
| Band38 | 10MHz     | QPSK       | 37800   | 1RB#0            | 20000~27000     | -25.91       | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 1RB#0            | 0.009~0.15      | -64.13       | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 1RB#0            | 0.15~30         | -54.43       | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 1RB#0            | 30~1000         | -52.74       | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 1RB#0            | 1000~20000      | -34.28       | PASS    |
| Band38 | 10MHz     | 16QAM      | 37800   | 1RB#0            | 20000~27000     | -26.01       | PASS    |
| Band38 | 10MHz     | QPSK       | 38000   | 1RB#0            | 0.009~0.15      | -67.01       | PASS    |



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|        |       |       |       |       |             |        |      |
|--------|-------|-------|-------|-------|-------------|--------|------|
| Band38 | 10MHz | QPSK  | 38000 | 1RB#0 | 0.15~30     | -55.36 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 1RB#0 | 30~1000     | -52.93 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 1RB#0 | 1000~20000  | -34.64 | PASS |
| Band38 | 10MHz | QPSK  | 38000 | 1RB#0 | 20000~27000 | -26.14 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#0 | 0.009~0.15  | -65.47 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#0 | 0.15~30     | -53.17 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#0 | 30~1000     | -51.65 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#0 | 1000~20000  | -34.10 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 1RB#0 | 20000~27000 | -25.62 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 1RB#0 | 0.009~0.15  | -66.73 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 1RB#0 | 0.15~30     | -54.32 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 1RB#0 | 30~1000     | -52.73 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 1RB#0 | 1000~20000  | -34.36 | PASS |
| Band38 | 10MHz | QPSK  | 38200 | 1RB#0 | 20000~27000 | -25.87 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#0 | 0.009~0.15  | -65.00 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#0 | 0.15~30     | -53.55 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#0 | 30~1000     | -52.96 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#0 | 1000~20000  | -34.55 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#0 | 20000~27000 | -26.31 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 1RB#0 | 0.009~0.15  | -65.71 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 1RB#0 | 0.15~30     | -57.39 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 1RB#0 | 30~1000     | -52.86 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 1RB#0 | 1000~20000  | -35.10 | PASS |
| Band38 | 15MHz | QPSK  | 37825 | 1RB#0 | 20000~27000 | -26.32 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#0 | 0.009~0.15  | -64.97 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#0 | 0.15~30     | -54.25 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#0 | 30~1000     | -52.84 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#0 | 1000~20000  | -34.19 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#0 | 20000~27000 | -25.57 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 1RB#0 | 0.009~0.15  | -66.06 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 1RB#0 | 0.15~30     | -56.11 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 1RB#0 | 30~1000     | -52.99 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 1RB#0 | 1000~20000  | -34.14 | PASS |
| Band38 | 15MHz | QPSK  | 38000 | 1RB#0 | 20000~27000 | -26.27 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#0 | 0.009~0.15  | -66.05 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#0 | 0.15~30     | -53.23 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#0 | 30~1000     | -52.61 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#0 | 1000~20000  | -34.24 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 1RB#0 | 20000~27000 | -25.27 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 1RB#0 | 0.009~0.15  | -63.89 | PASS |



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|        |       |       |       |       |             |        |      |
|--------|-------|-------|-------|-------|-------------|--------|------|
| Band38 | 15MHz | QPSK  | 38175 | 1RB#0 | 0.15~30     | -54.46 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 1RB#0 | 30~1000     | -52.59 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 1RB#0 | 1000~20000  | -34.44 | PASS |
| Band38 | 15MHz | QPSK  | 38175 | 1RB#0 | 20000~27000 | -26.35 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#0 | 0.009~0.15  | -66.49 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#0 | 0.009~0.15  | -64.83 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#0 | 0.15~30     | -52.87 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#0 | 30~1000     | -52.67 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#0 | 1000~20000  | -34.17 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#0 | 20000~27000 | -25.88 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#0 | 0.15~30     | -54.53 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#0 | 30~1000     | -52.71 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#0 | 1000~20000  | -34.16 | PASS |
| Band38 | 20MHz | QPSK  | 37850 | 1RB#0 | 20000~27000 | -26.31 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0 | 0.009~0.15  | -67.47 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0 | 0.15~30     | -55.90 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0 | 30~1000     | -52.95 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0 | 1000~20000  | -34.16 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0 | 20000~27000 | -26.76 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 1RB#0 | 0.009~0.15  | -64.15 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 1RB#0 | 0.15~30     | -52.84 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 1RB#0 | 30~1000     | -53.09 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 1RB#0 | 1000~20000  | -34.84 | PASS |
| Band38 | 20MHz | QPSK  | 38000 | 1RB#0 | 20000~27000 | -25.58 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#0 | 0.009~0.15  | -65.25 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#0 | 0.15~30     | -52.20 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#0 | 30~1000     | -52.18 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#0 | 1000~20000  | -34.01 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#0 | 20000~27000 | -26.32 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 1RB#0 | 0.009~0.15  | -66.39 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 1RB#0 | 0.15~30     | -53.72 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 1RB#0 | 30~1000     | -52.20 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 1RB#0 | 1000~20000  | -34.48 | PASS |
| Band38 | 20MHz | QPSK  | 38150 | 1RB#0 | 20000~27000 | -26.53 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#0 | 0.009~0.15  | -67.36 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#0 | 0.15~30     | -58.08 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#0 | 30~1000     | -52.66 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#0 | 1000~20000  | -33.60 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#0 | 20000~27000 | -25.99 | PASS |
| Band38 | 5MHz  | 16QAM | 37775 | 1RB#0 | 0.15~30     | -54.07 | PASS |



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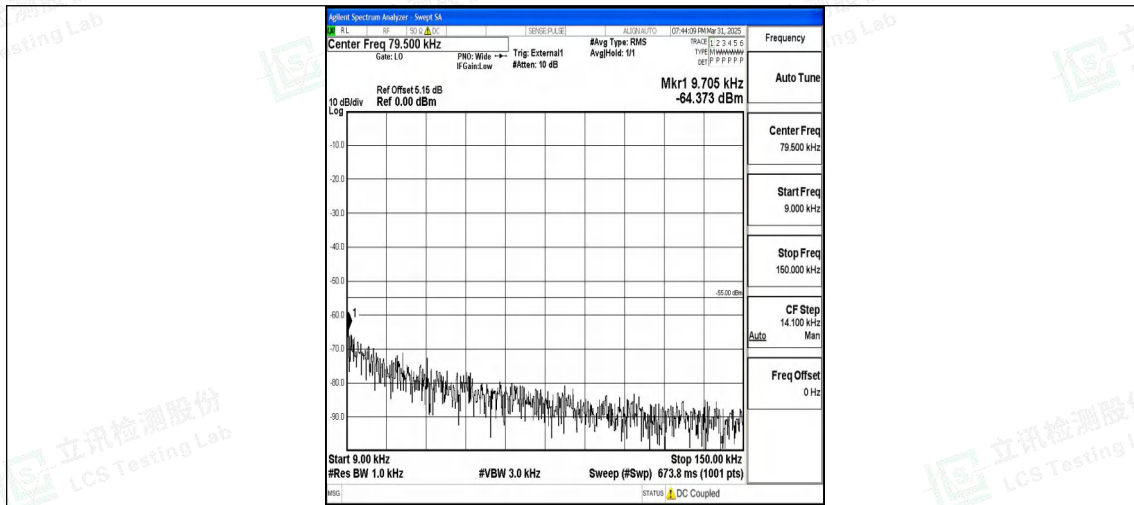


|        |      |       |       |       |             |        |      |
|--------|------|-------|-------|-------|-------------|--------|------|
| Band38 | 5MHz | 16QAM | 37775 | 1RB#0 | 30~1000     | -52.78 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#0 | 1000~20000  | -34.24 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#0 | 20000~27000 | -26.24 | PASS |
| Band38 | 5MHz | QPSK  | 38000 | 1RB#0 | 0.009~0.15  | -65.37 | PASS |
| Band38 | 5MHz | QPSK  | 38000 | 1RB#0 | 0.15~30     | -53.32 | PASS |
| Band38 | 5MHz | QPSK  | 38000 | 1RB#0 | 30~1000     | -53.30 | PASS |

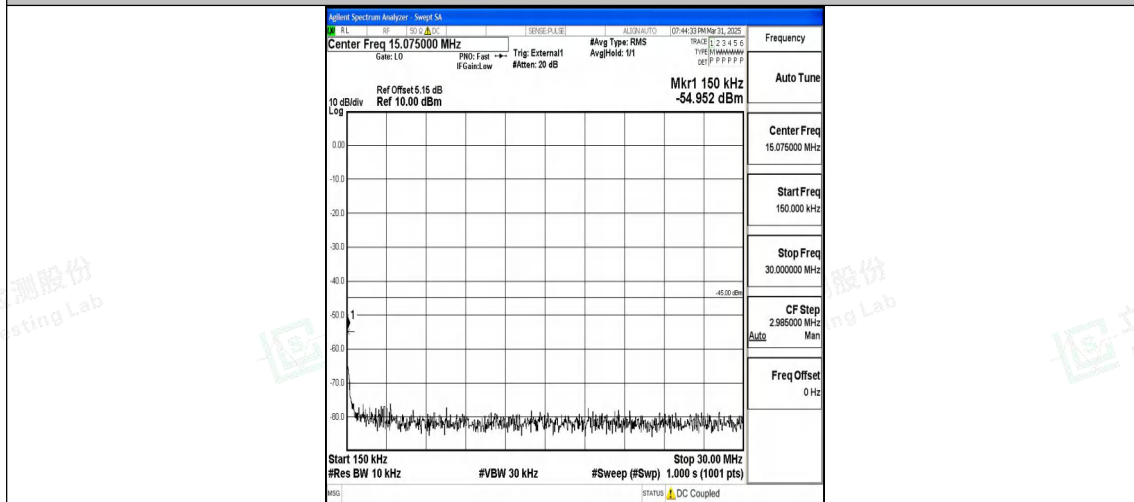




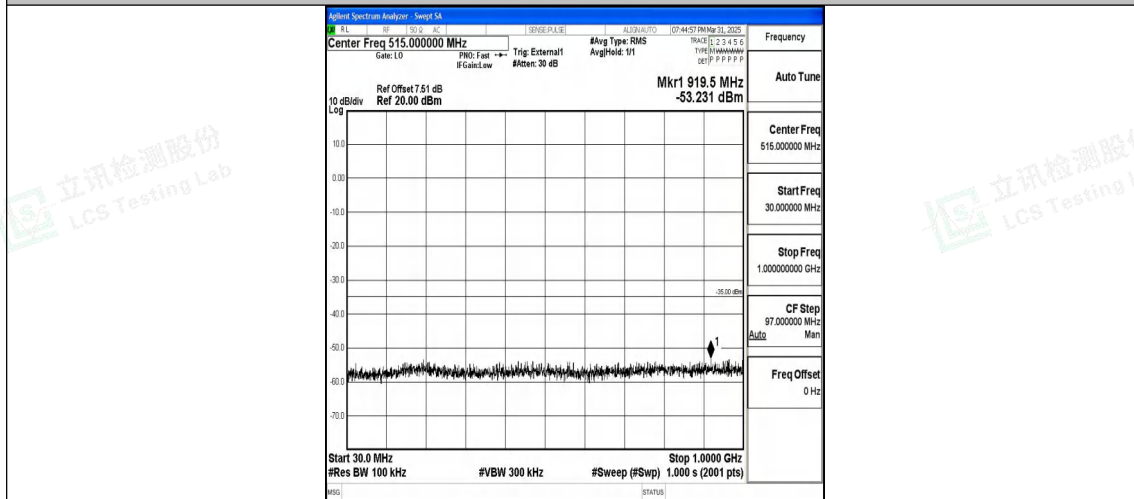
## Test Graphs



Band38\_5MHz\_QPSK\_37775\_1RB#0\_0.009~0.15\_0.009~0.15



Band38\_5MHz\_QPSK\_37775\_1RB#0\_0.15~30\_0.15~30



Band38\_5MHz\_QPSK\_37775\_1RB#0\_30~1000\_30~1000

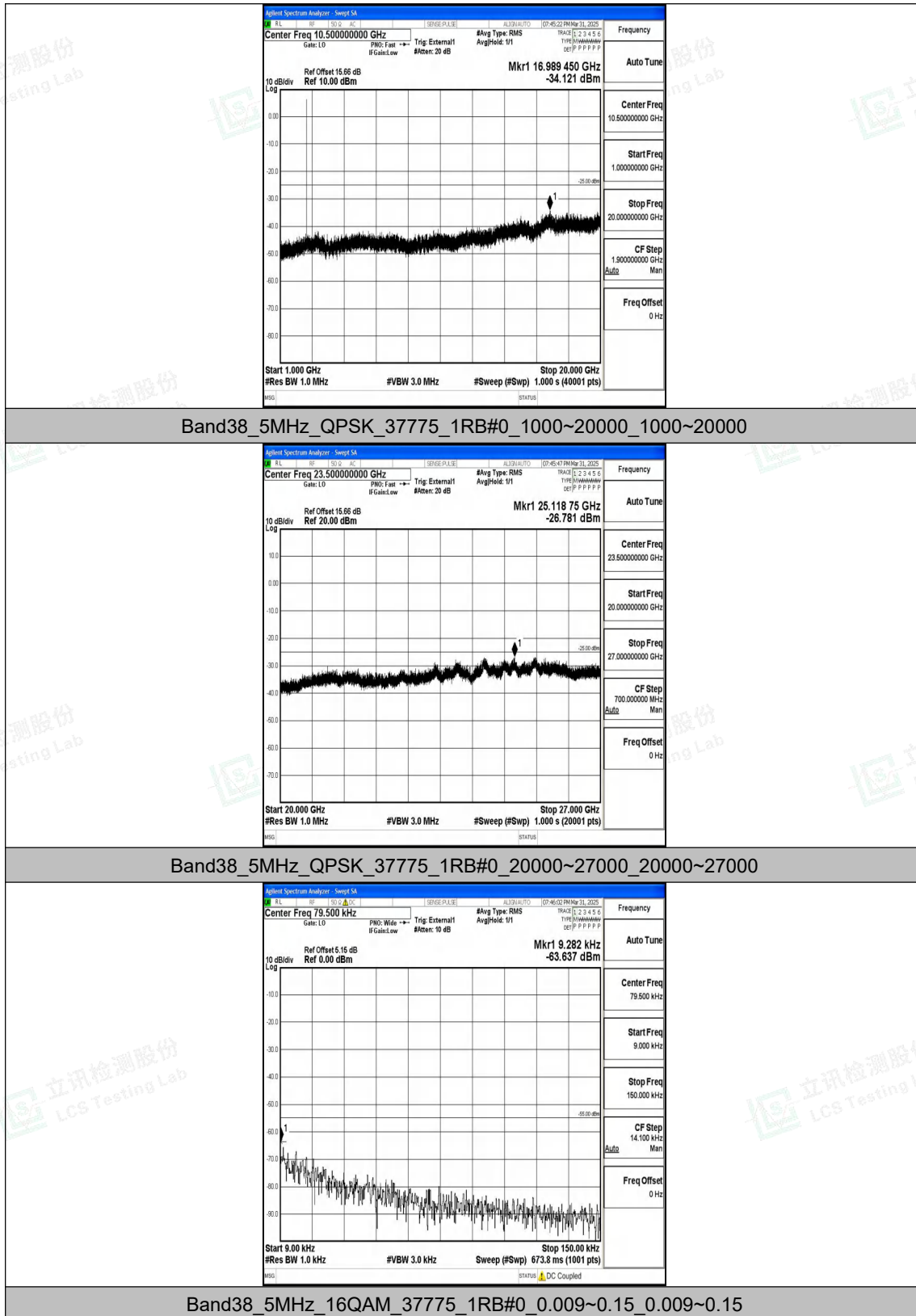


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