



Appendix H: Test Data for E-UTRA Band 5

Product Name: Smart POS  
Test Model: WIZARPOS Q2

Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 24.3°C     |
| Relative Humidity: | 53.8%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Billy Yu   |
| Supervised by:     | Paddi Chen |





## H.1 Conducted Output Power Data

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 23.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 23.44       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#2            | 23.43       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#2            | 23.87       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#5            | 23.37       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#5            | 23.94       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#0            | 23.52       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#0            | 22.91       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#1            | 23.61       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#1            | 22.91       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#3            | 23.43       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#3            | 22.38       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 22.59       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 22.36       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 23.33       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 22.26       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#2            | 23.30       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#2            | 22.44       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#5            | 23.58       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#5            | 23.20       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#0            | 23.48       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#0            | 22.96       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#1            | 23.47       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#1            | 22.99       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#3            | 23.50       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#3            | 22.94       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 22.80       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 22.11       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 23.20       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 23.61       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#2            | 23.04       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#2            | 23.15       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5            | 22.72       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#5            | 22.51       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#0            | 23.31       | PASS    |



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|       |        |       |       |        |       |      |
|-------|--------|-------|-------|--------|-------|------|
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#0  | 22.86 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 3RB#1  | 23.22 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1  | 22.52 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 3RB#3  | 23.04 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3  | 22.28 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | 22.52 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | 22.08 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#0  | 23.17 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#0  | 22.75 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#8  | 23.08 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#8  | 22.41 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#14 | 23.09 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#14 | 22.36 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#0  | 22.40 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#0  | 21.99 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#4  | 22.44 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#4  | 21.99 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#7  | 22.35 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#7  | 21.97 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | 22.21 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | 21.72 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#0  | 23.14 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#0  | 22.04 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#8  | 23.18 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#8  | 22.12 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#14 | 23.40 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#14 | 22.88 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#0  | 22.25 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#0  | 21.98 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#4  | 22.26 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#4  | 21.99 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#7  | 22.38 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#7  | 22.07 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | 22.22 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | 21.62 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#0  | 23.20 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#0  | 23.55 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#8  | 23.09 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#8  | 23.42 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#14 | 22.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#14 | 22.40 | PASS |



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|-------|------|-------|-------|---------|-------|------|
| Band5 | 3MHz | QPSK  | 20635 | 8RB#0   | 22.41 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#0   | 21.98 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 8RB#4   | 22.37 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#4   | 21.99 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 8RB#7   | 22.17 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7   | 21.93 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0  | 22.30 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0  | 21.85 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0   | 23.26 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0   | 22.15 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#12  | 23.15 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12  | 22.18 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#24  | 23.30 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24  | 22.06 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#0  | 22.36 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#0  | 21.80 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#6  | 22.30 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#6  | 21.80 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#13 | 22.18 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#13 | 21.83 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0  | 22.24 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0  | 21.97 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0   | 23.05 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0   | 23.18 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#12  | 22.97 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12  | 23.19 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#24  | 23.10 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24  | 23.13 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#0  | 22.31 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#0  | 21.84 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#6  | 22.26 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#6  | 21.85 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#13 | 22.30 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#13 | 21.96 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0  | 22.39 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0  | 21.81 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#0   | 23.21 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0   | 22.83 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#12  | 23.18 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12  | 22.72 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#24  | 23.11 | PASS |



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|-------|-------|-------|-------|---------|-------|------|
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#24  | 22.49 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 12RB#0  | 22.49 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#0  | 21.93 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 12RB#6  | 22.20 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#6  | 21.95 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 12RB#13 | 22.38 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#13 | 21.76 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0  | 22.37 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0  | 21.82 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0   | 23.18 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0   | 22.76 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#24  | 23.15 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24  | 22.78 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#49  | 23.16 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49  | 22.93 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#0  | 22.32 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0  | 21.77 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#12 | 22.32 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 21.77 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#25 | 22.21 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 21.70 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0  | 22.24 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0  | 21.74 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0   | 23.17 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0   | 22.88 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#24  | 23.23 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24  | 22.94 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#49  | 23.32 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49  | 22.97 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#0  | 22.28 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0  | 21.91 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#12 | 22.29 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 21.88 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#25 | 22.24 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 21.96 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0  | 22.14 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0  | 21.81 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0   | 23.21 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0   | 23.31 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#24  | 23.22 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24  | 23.32 | PASS |



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|-------|-------|-------|-------|---------|-------|------|
| Band5 | 10MHz | QPSK  | 20600 | 1RB#49  | 22.85 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49  | 22.88 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#0  | 22.22 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0  | 21.99 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#12 | 22.33 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 22.03 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#25 | 22.44 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 21.99 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0  | 22.31 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0  | 22.06 | PASS |



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

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 4.84       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 5.18       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 5.50       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 6.12       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 4.68       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 5.44       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 5.39       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 5.95       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 4.02       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 3.62       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 4.57       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 5.20       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | 4.93       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 1RB#0            | 5.69       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 5.58       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 6.26       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 1RB#0            | 4.73       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 1RB#0            | 5.15       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 5.39       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 6.00       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 1RB#0            | 4.12       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 1RB#0            | 4.07       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 4.85       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 5.45       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 1RB#0            | 5.04       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 1RB#0            | 5.66       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 5.63       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 6.22       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 1RB#0            | 4.94       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 1RB#0            | 5.32       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 5.50       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 6.10       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 1RB#0            | 4.13       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 1RB#0            | 4.51       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 5.30       | 13        | PASS    |



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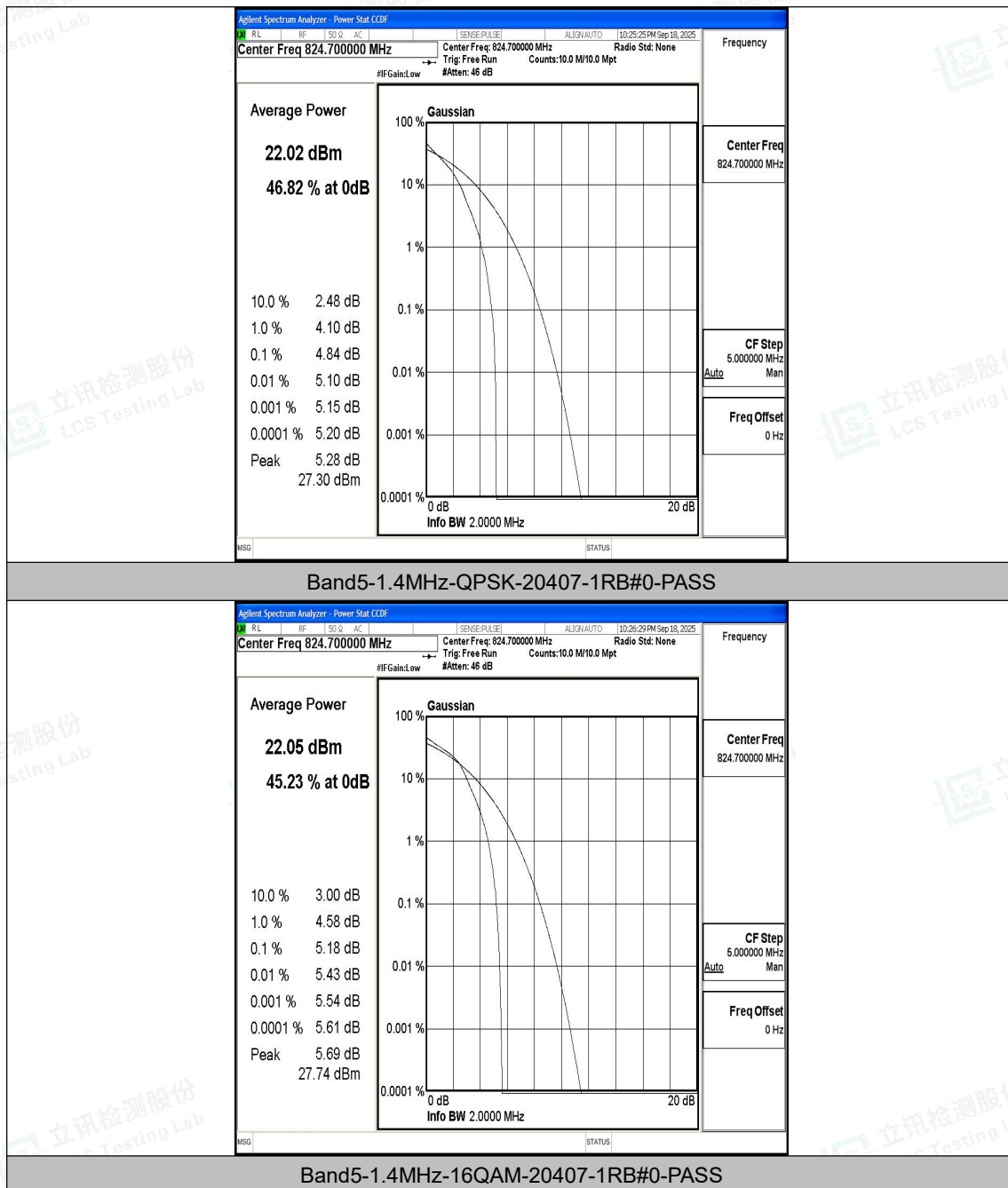
|       |       |       |       |        |      |    |      |
|-------|-------|-------|-------|--------|------|----|------|
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | 5.88 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0  | 5.03 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0  | 5.46 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | 5.59 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 6.22 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0  | 4.82 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0  | 5.39 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | 5.50 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 6.15 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0  | 4.68 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0  | 5.17 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | 5.29 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 5.93 | 13 | PASS |



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## Test Graphs

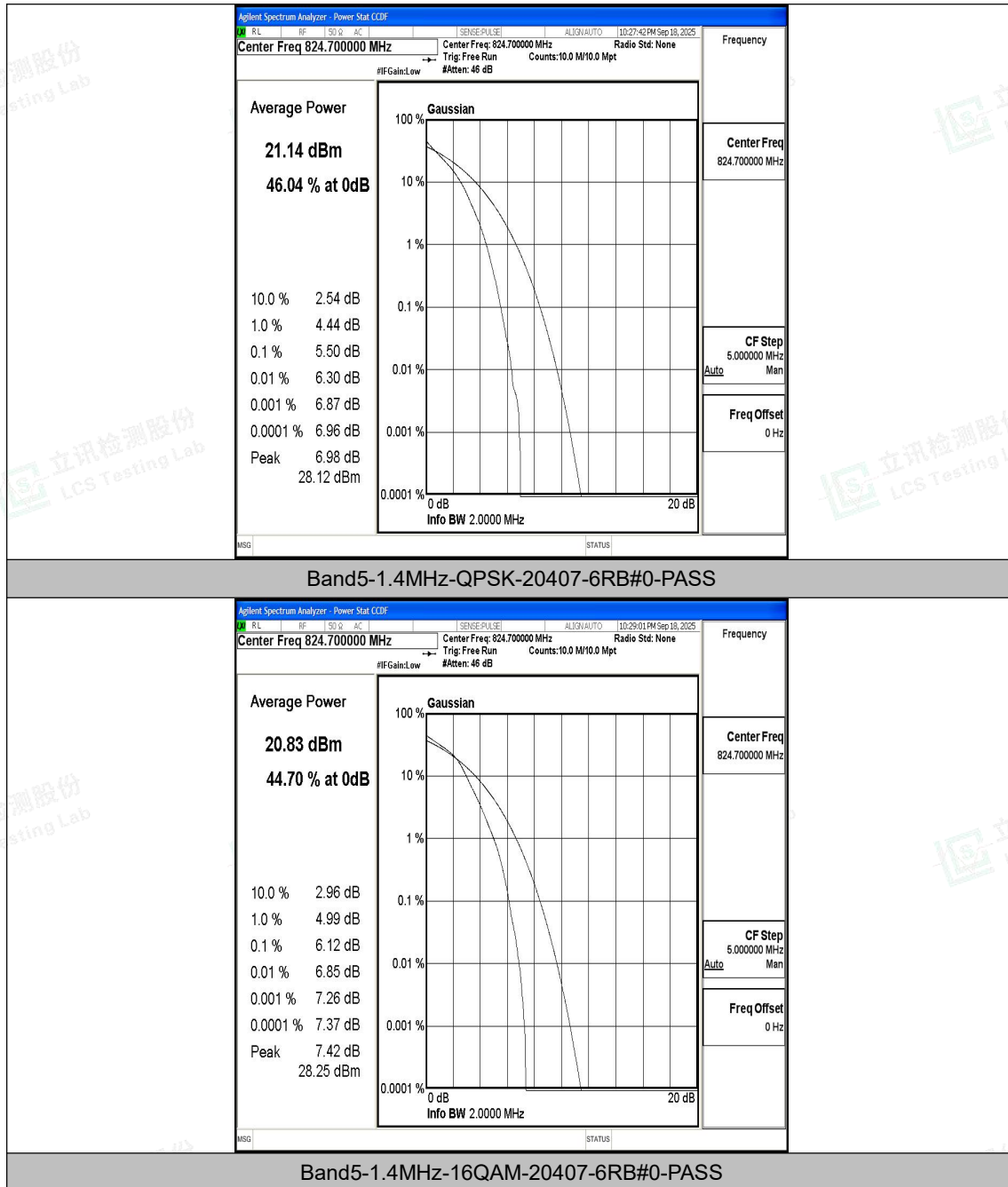


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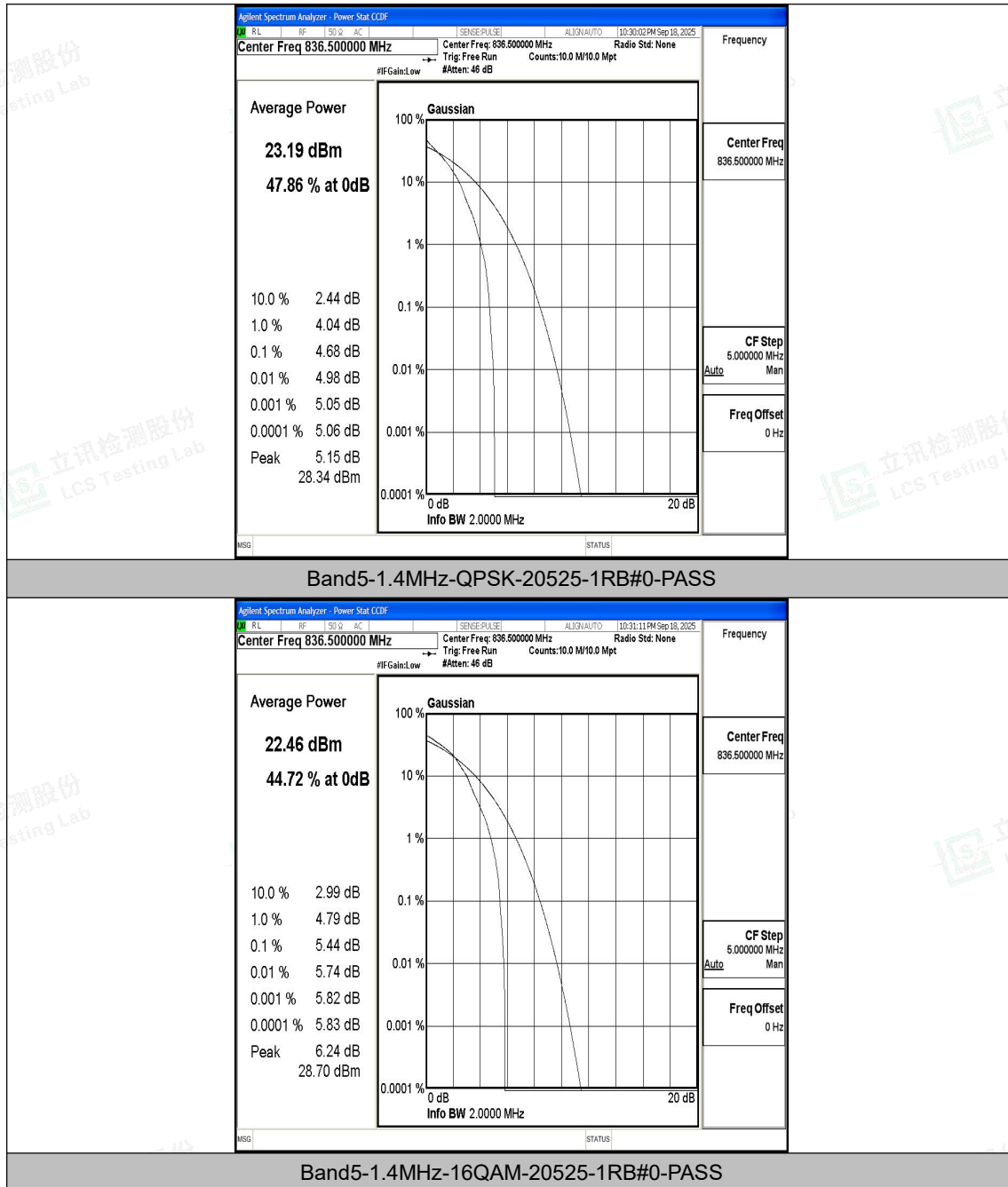


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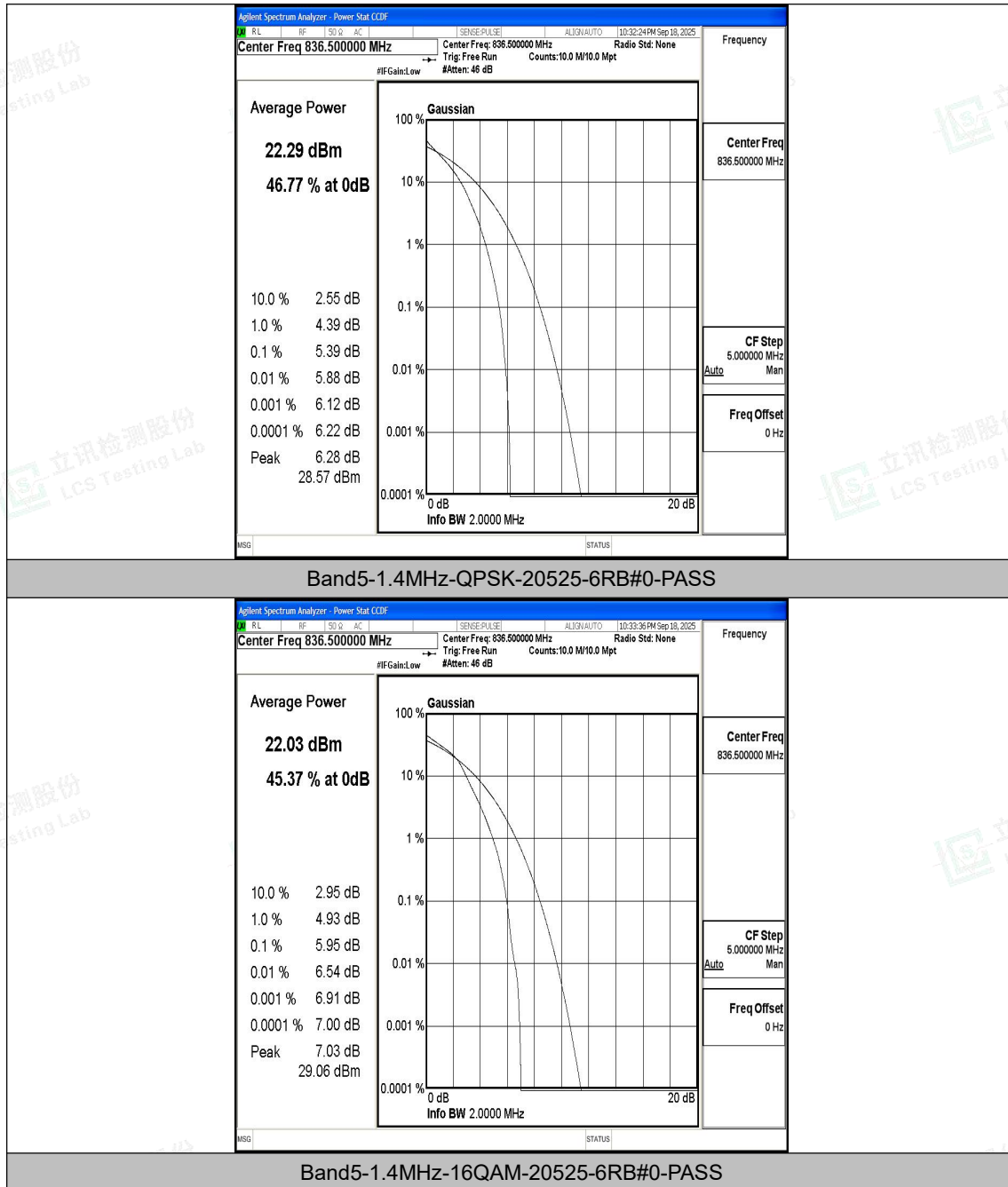


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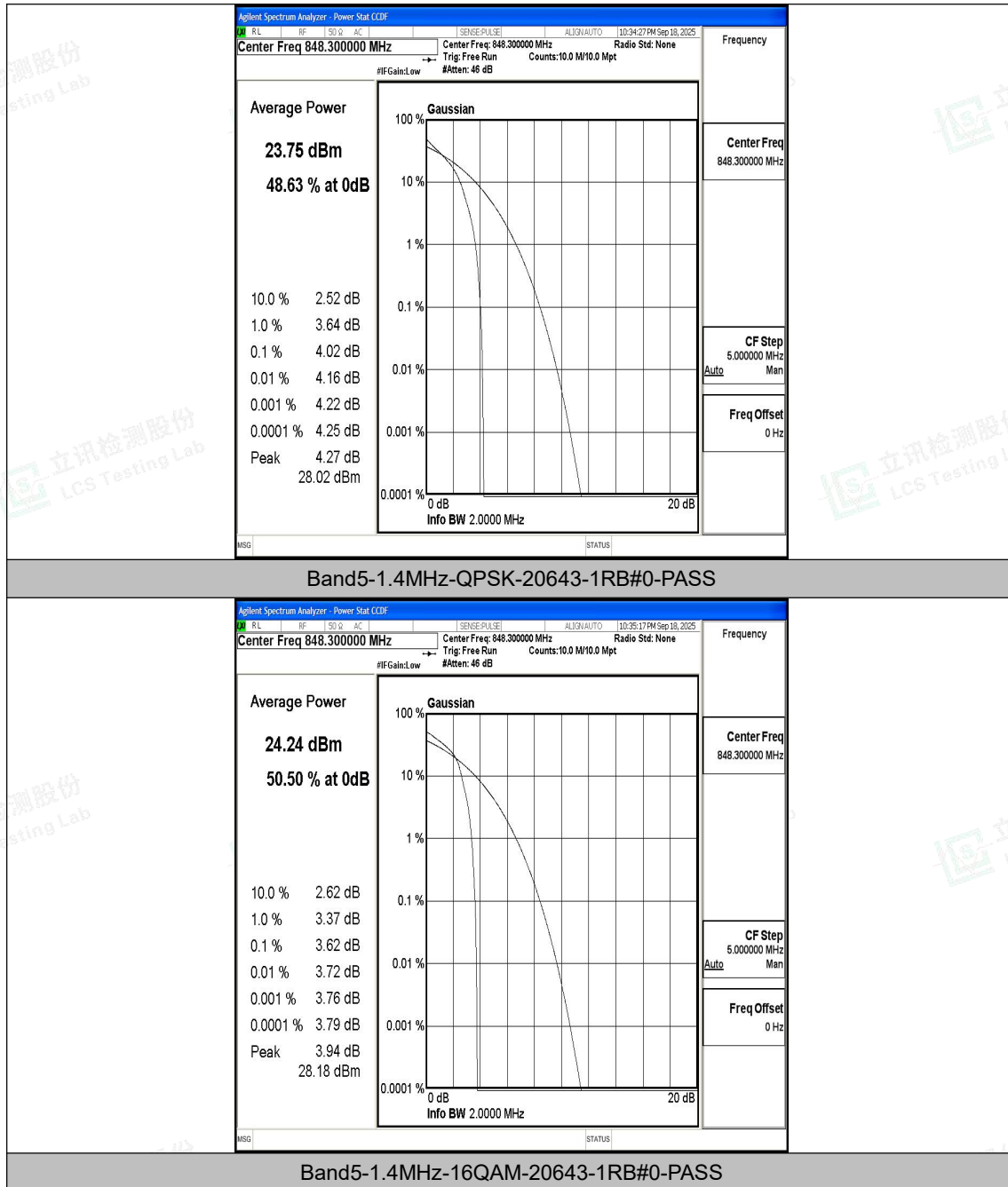


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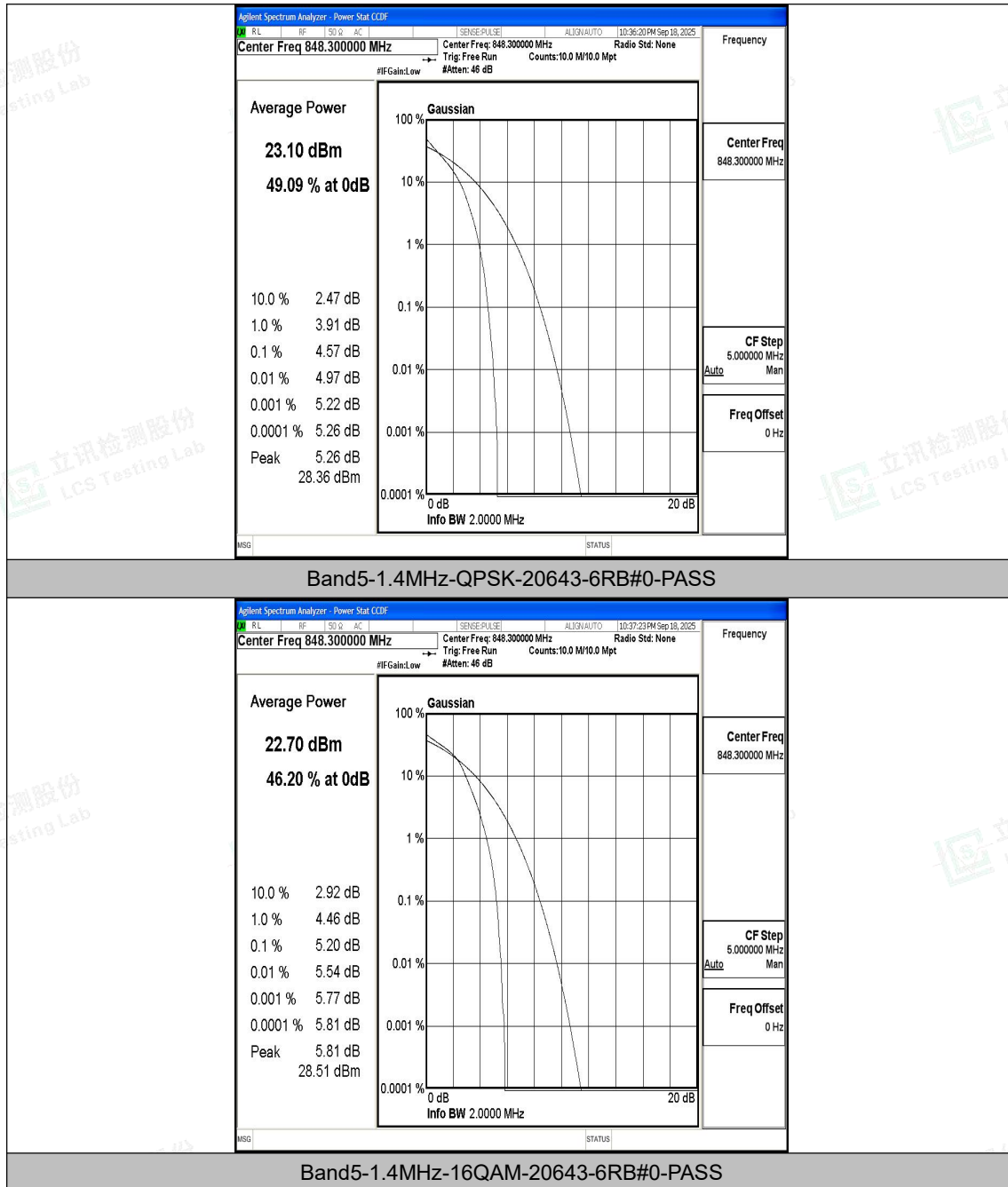


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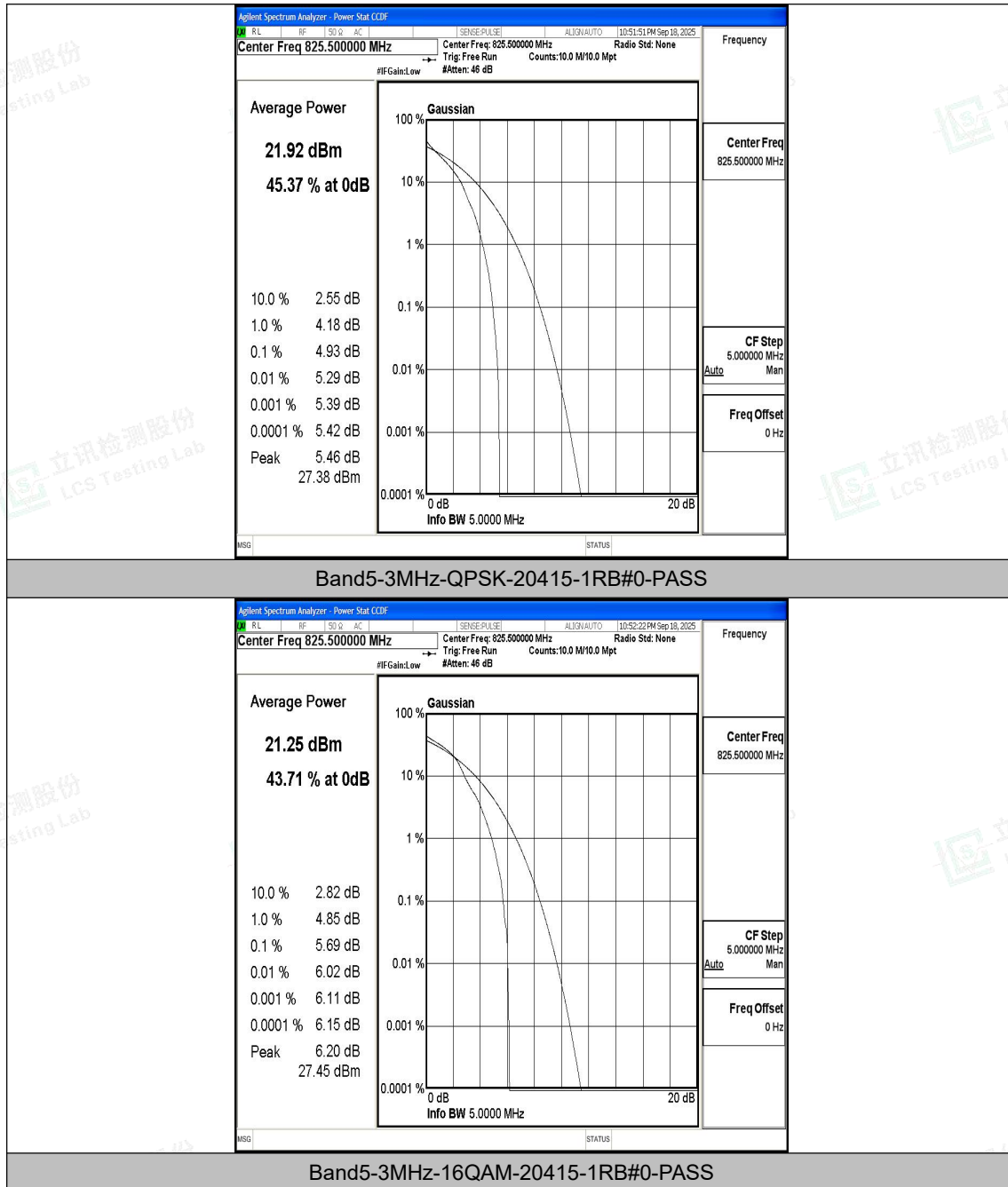


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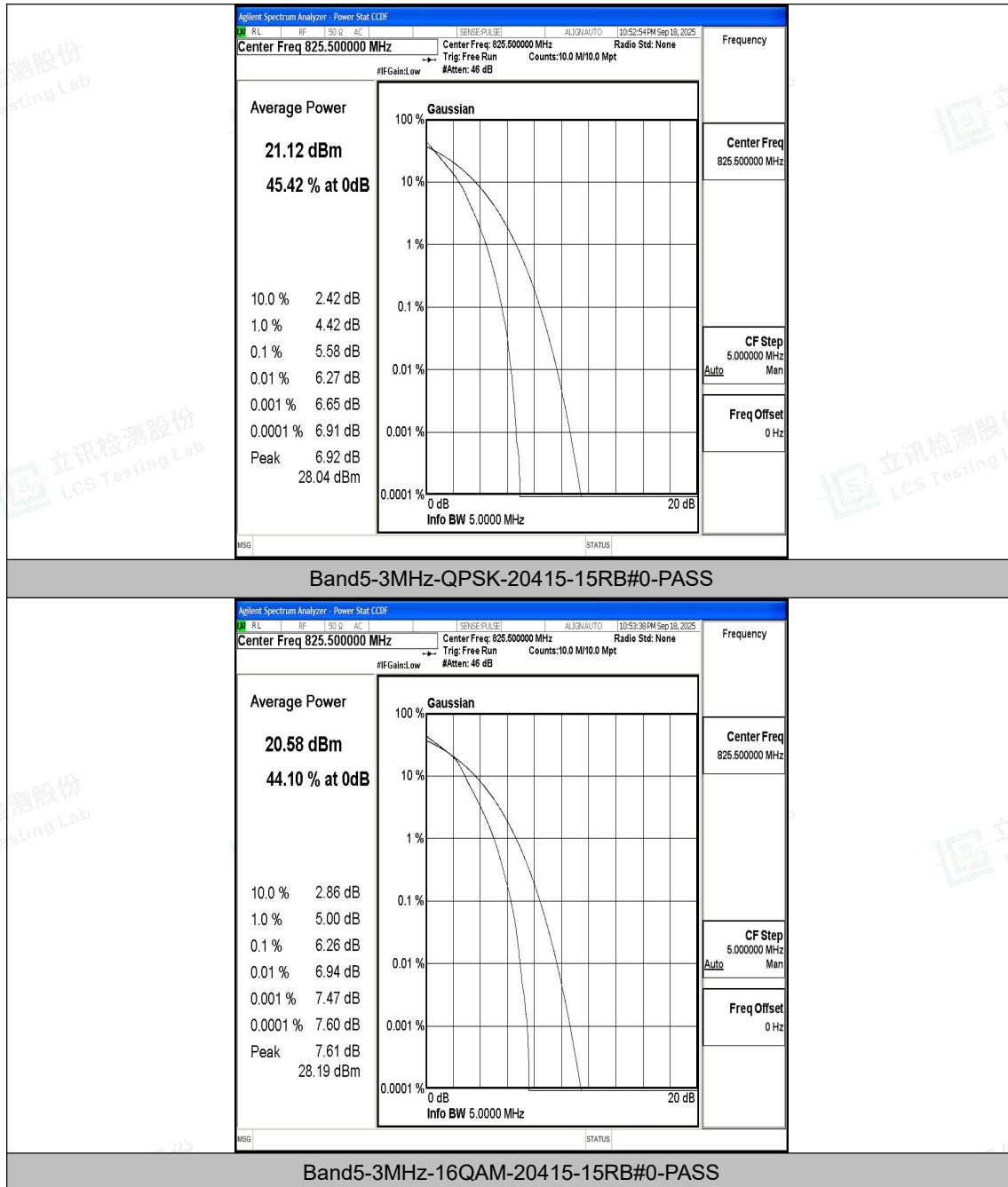


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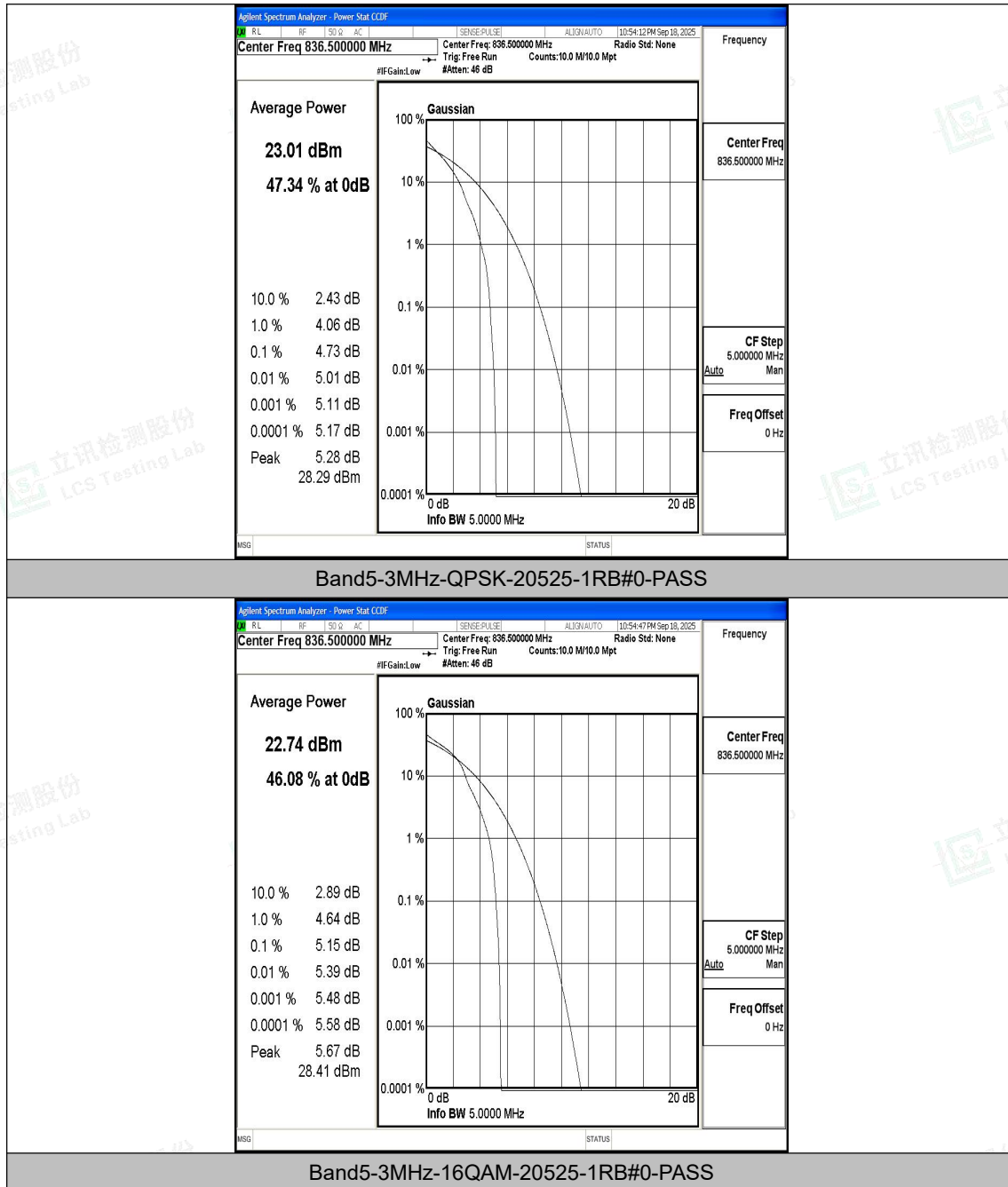


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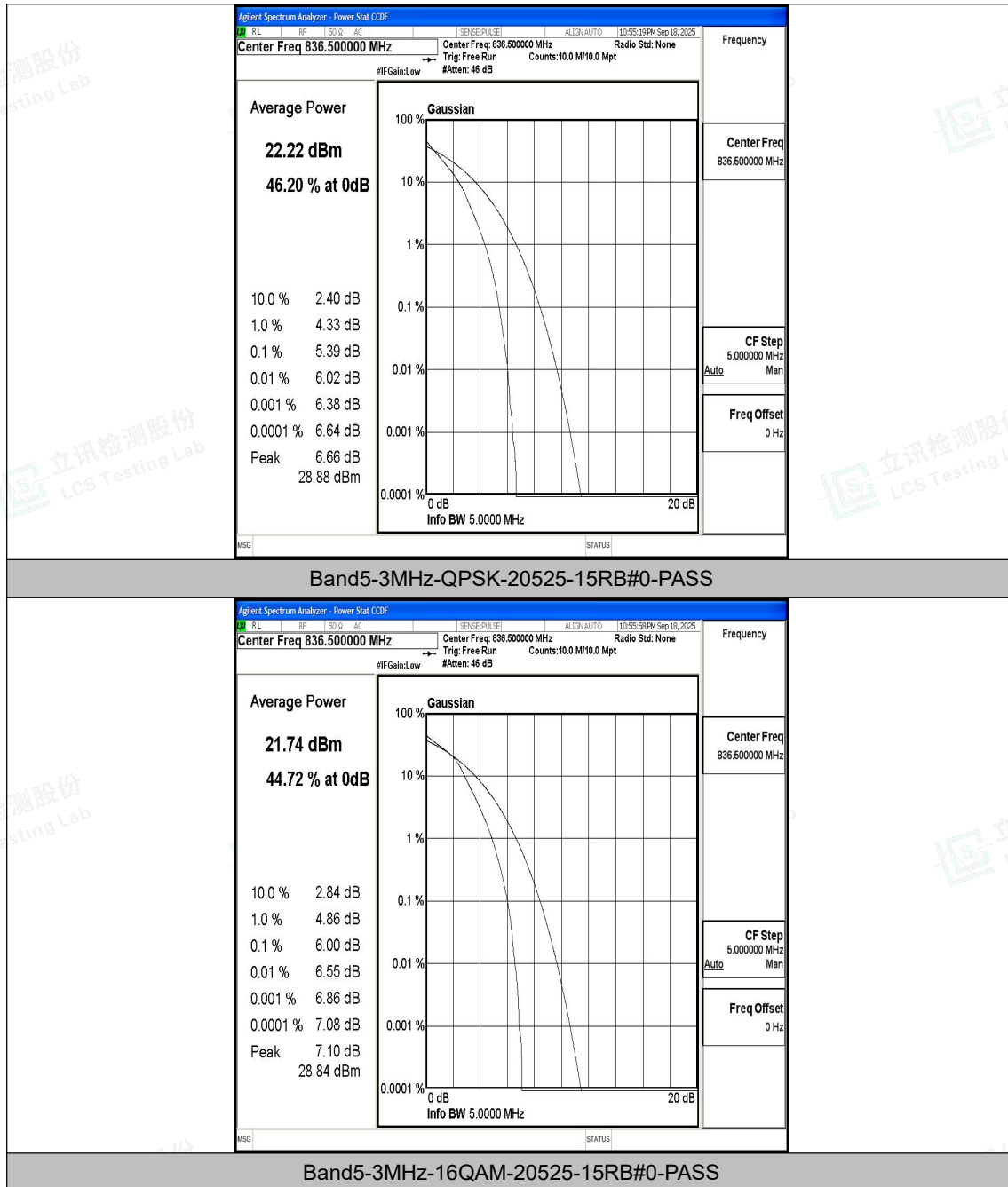


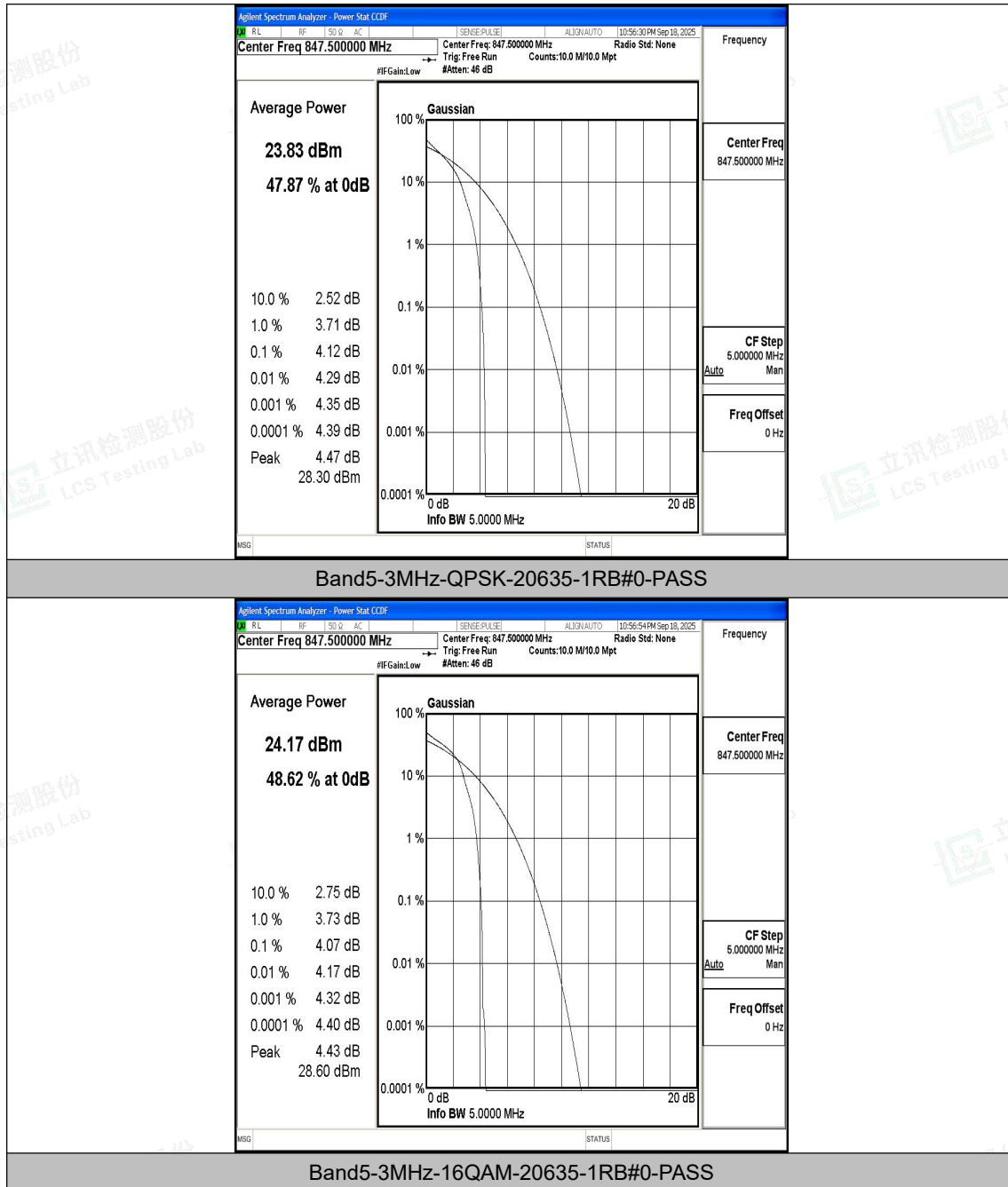
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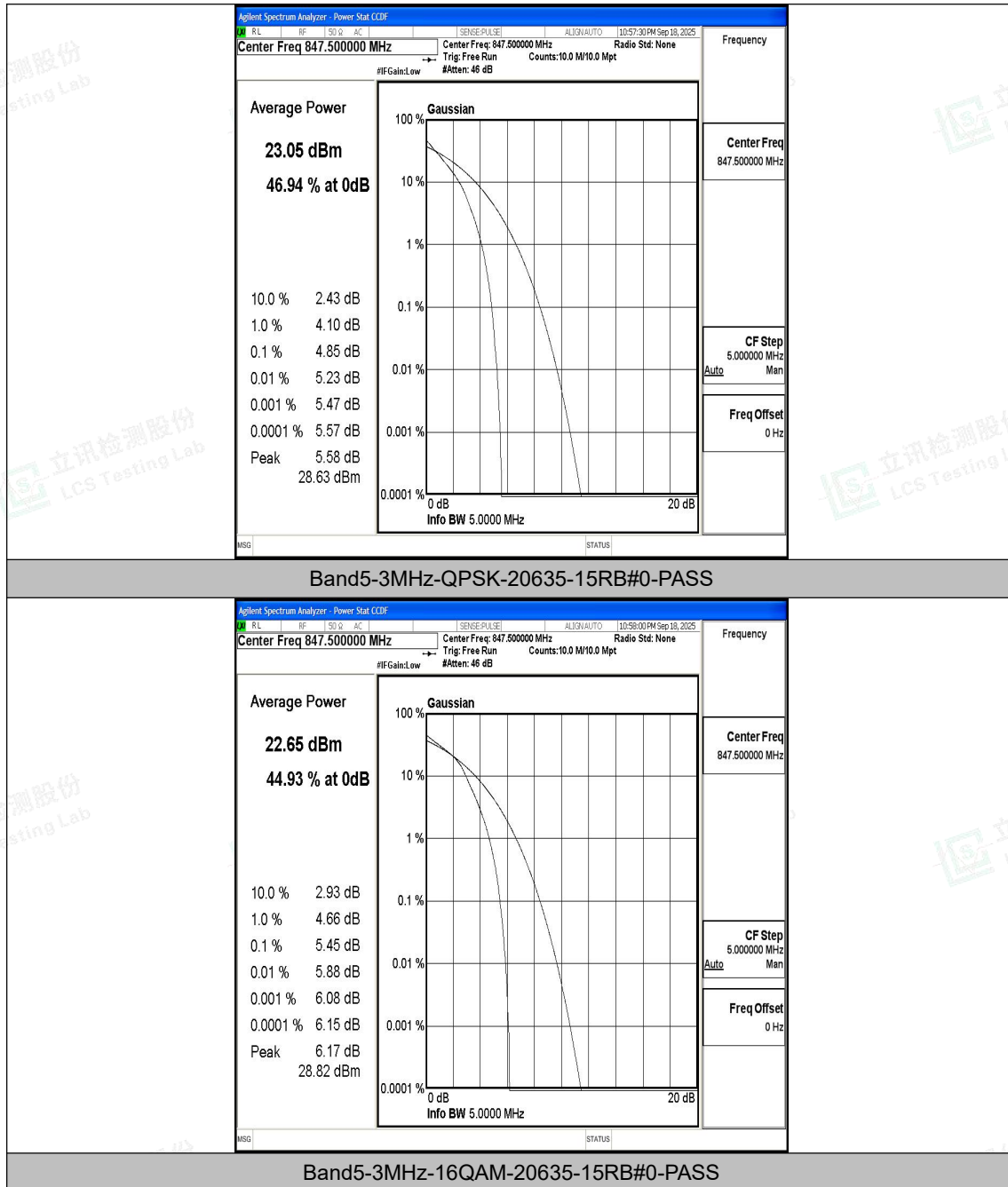


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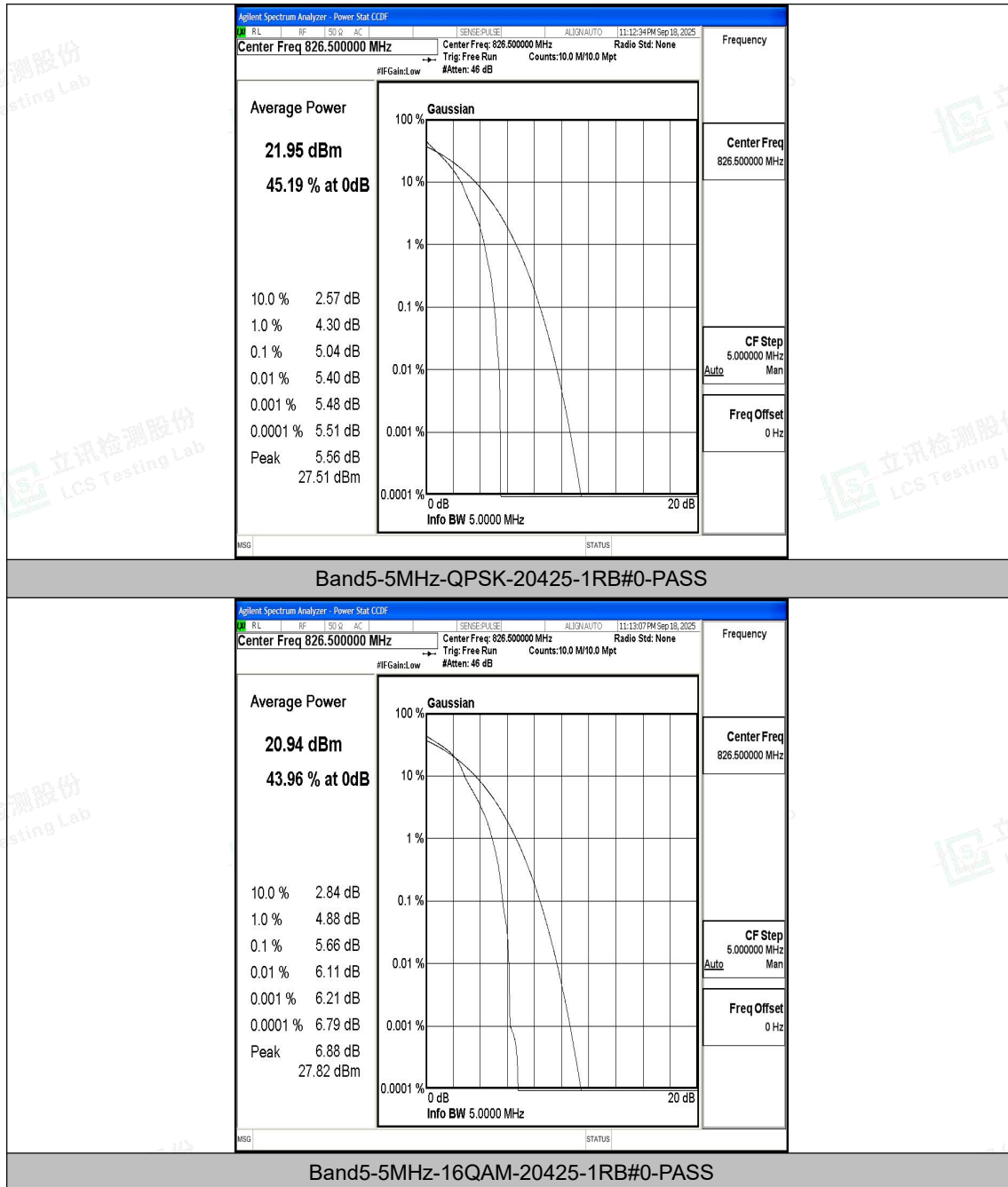


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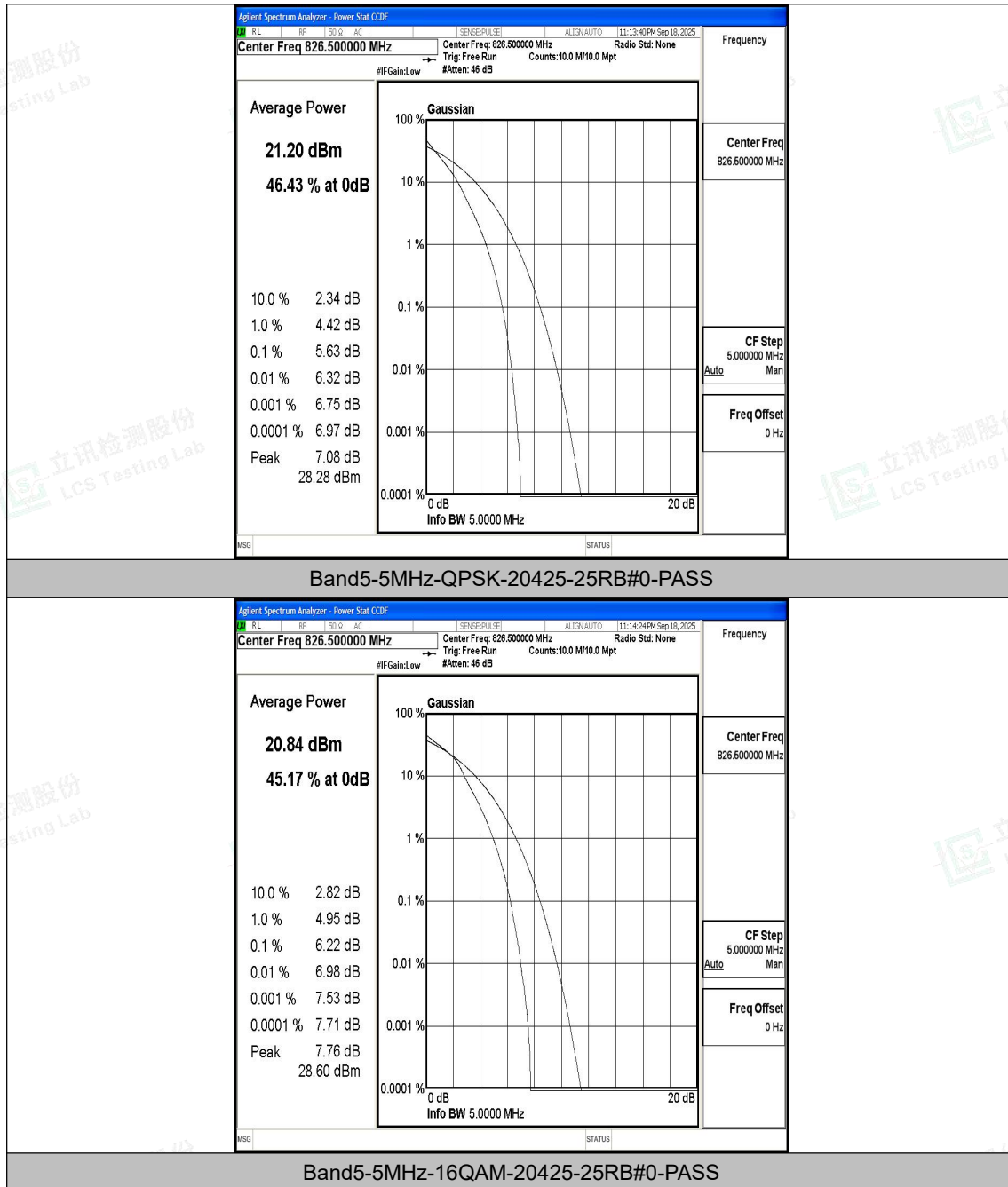


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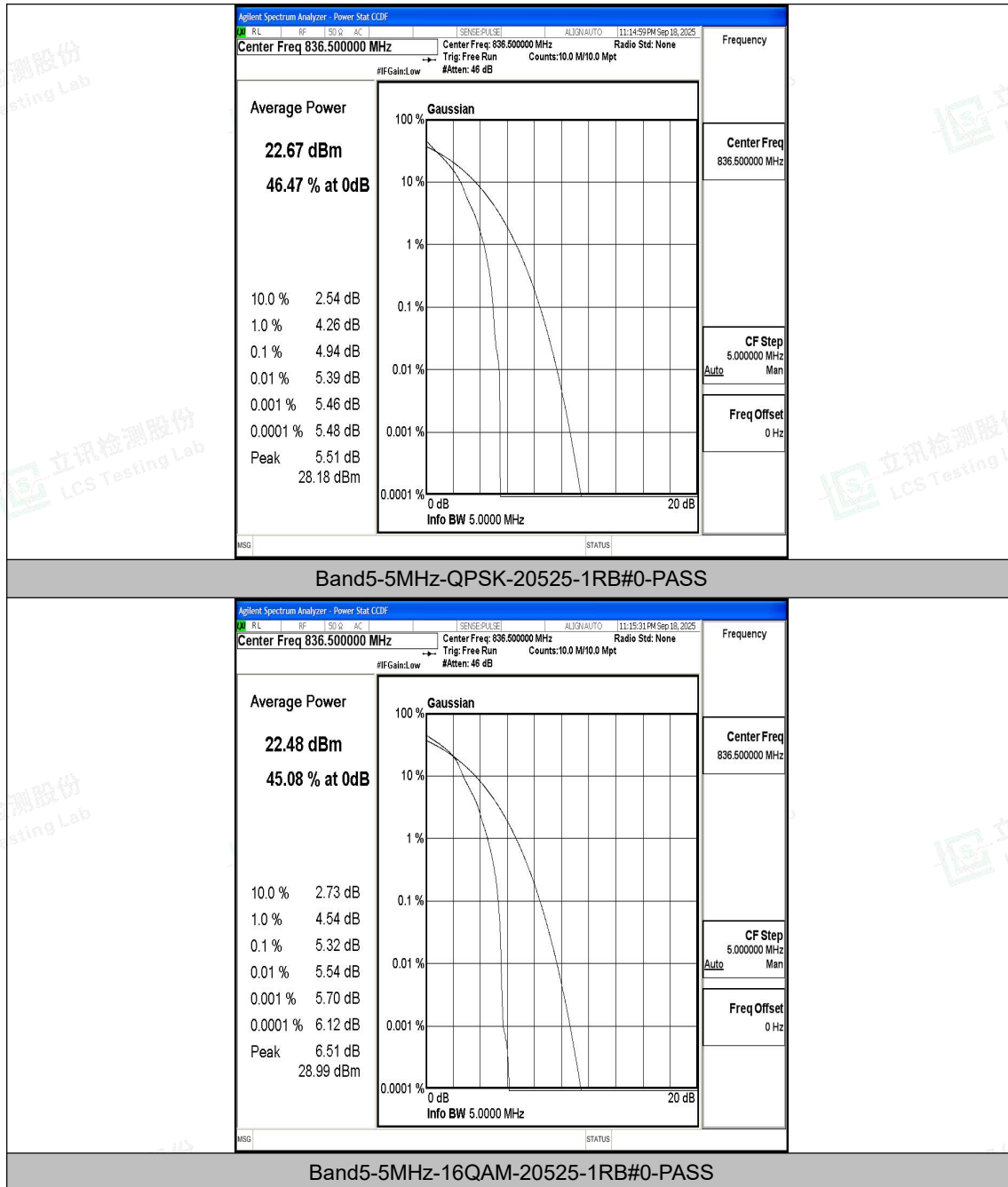


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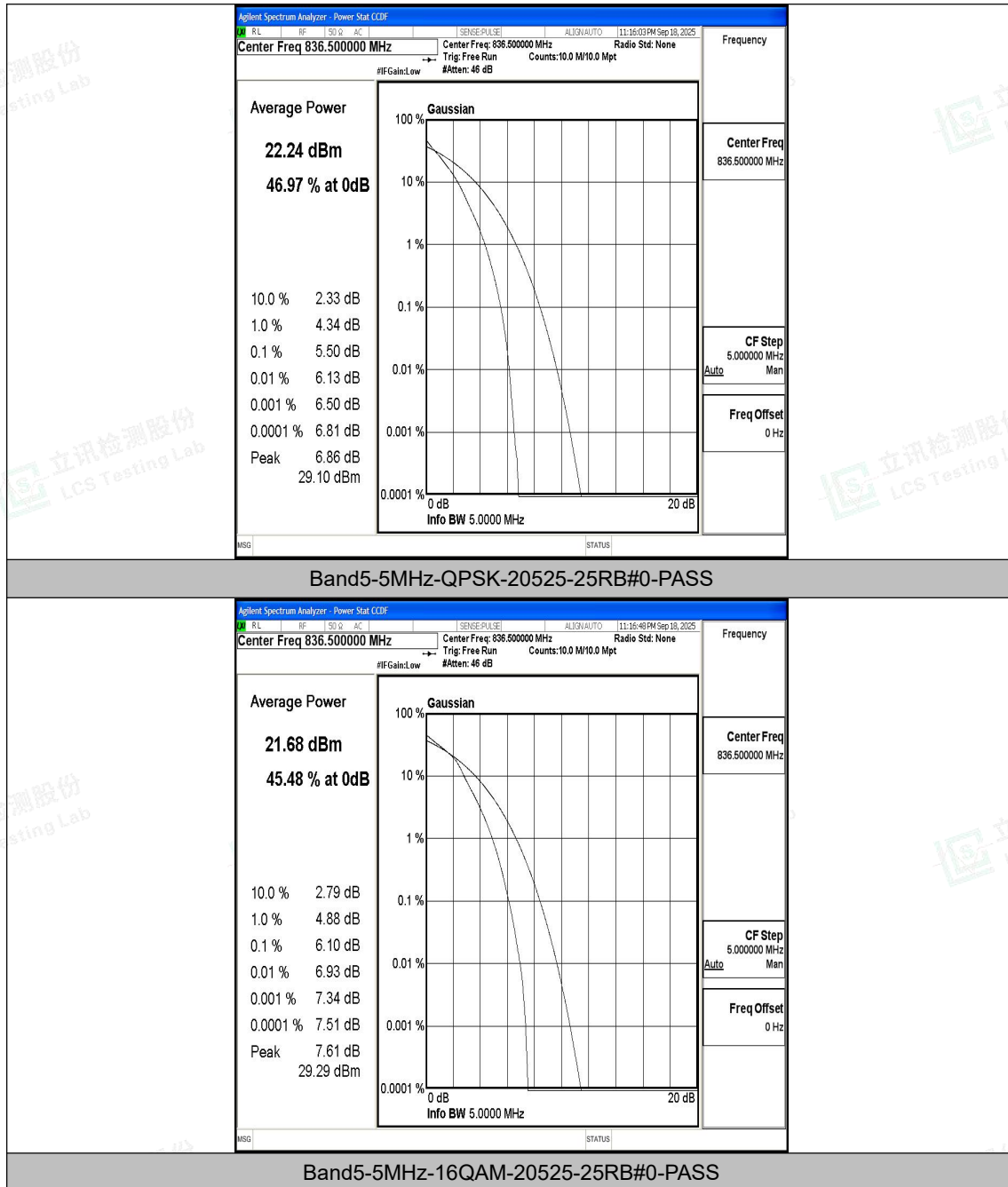


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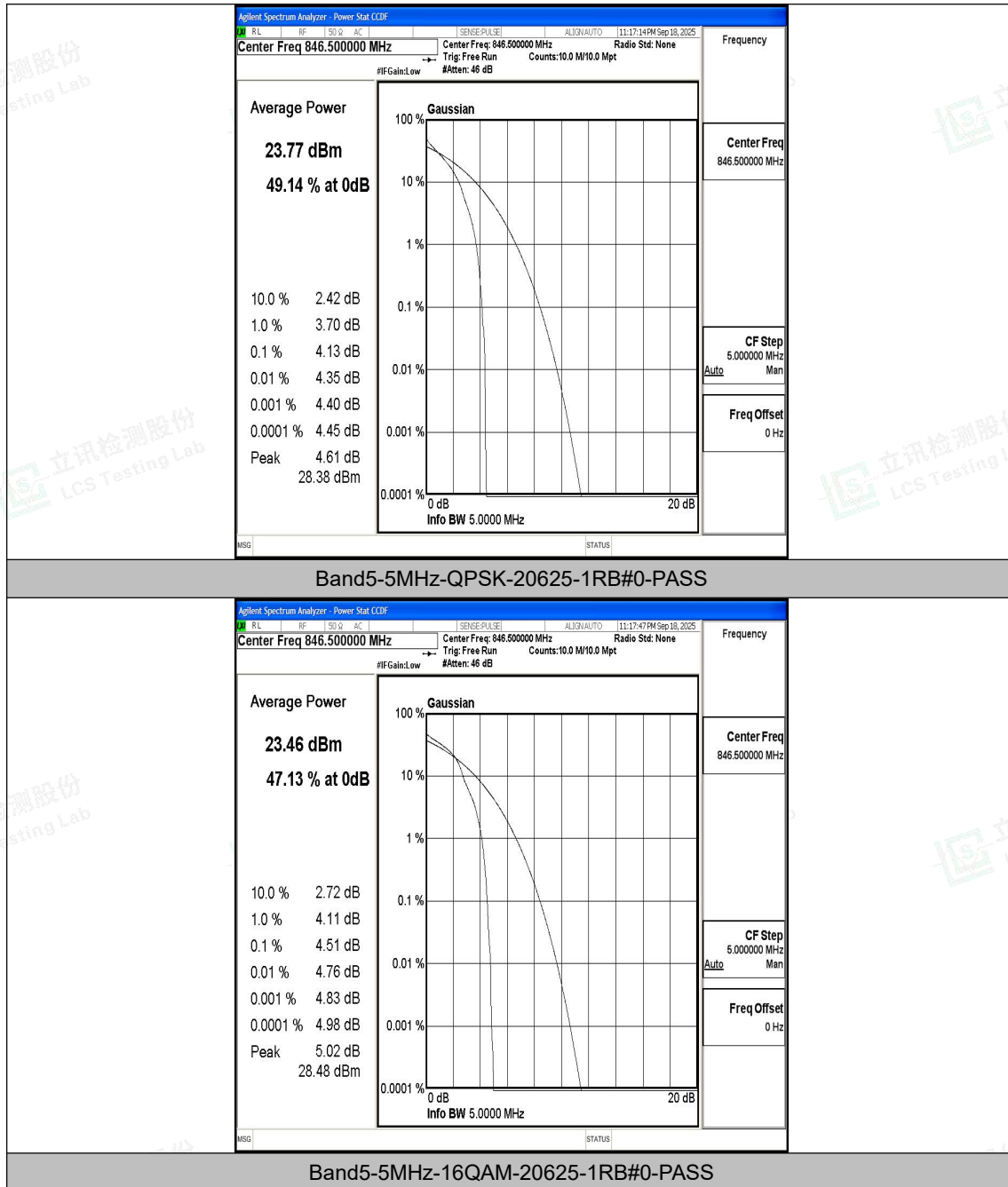


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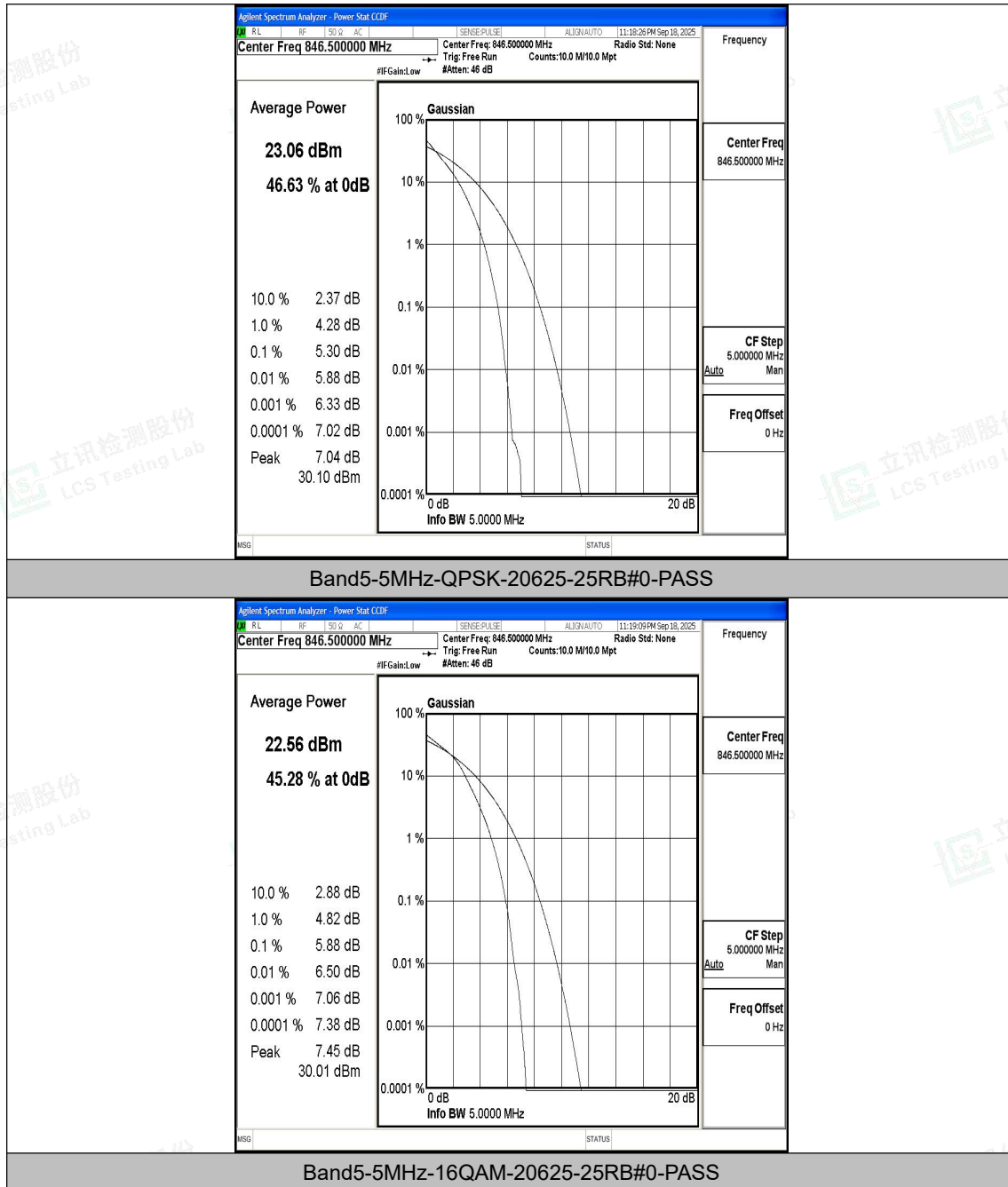


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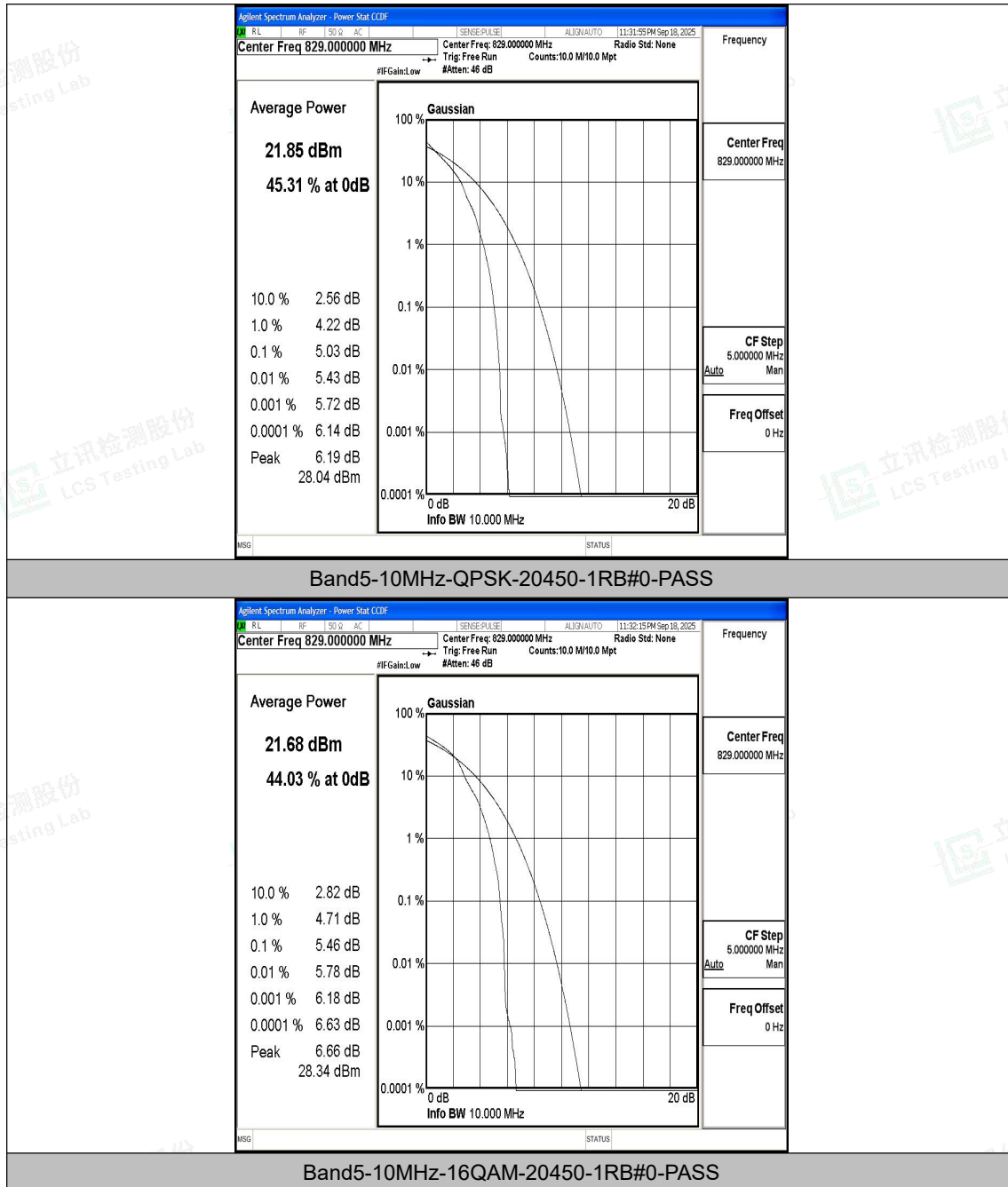


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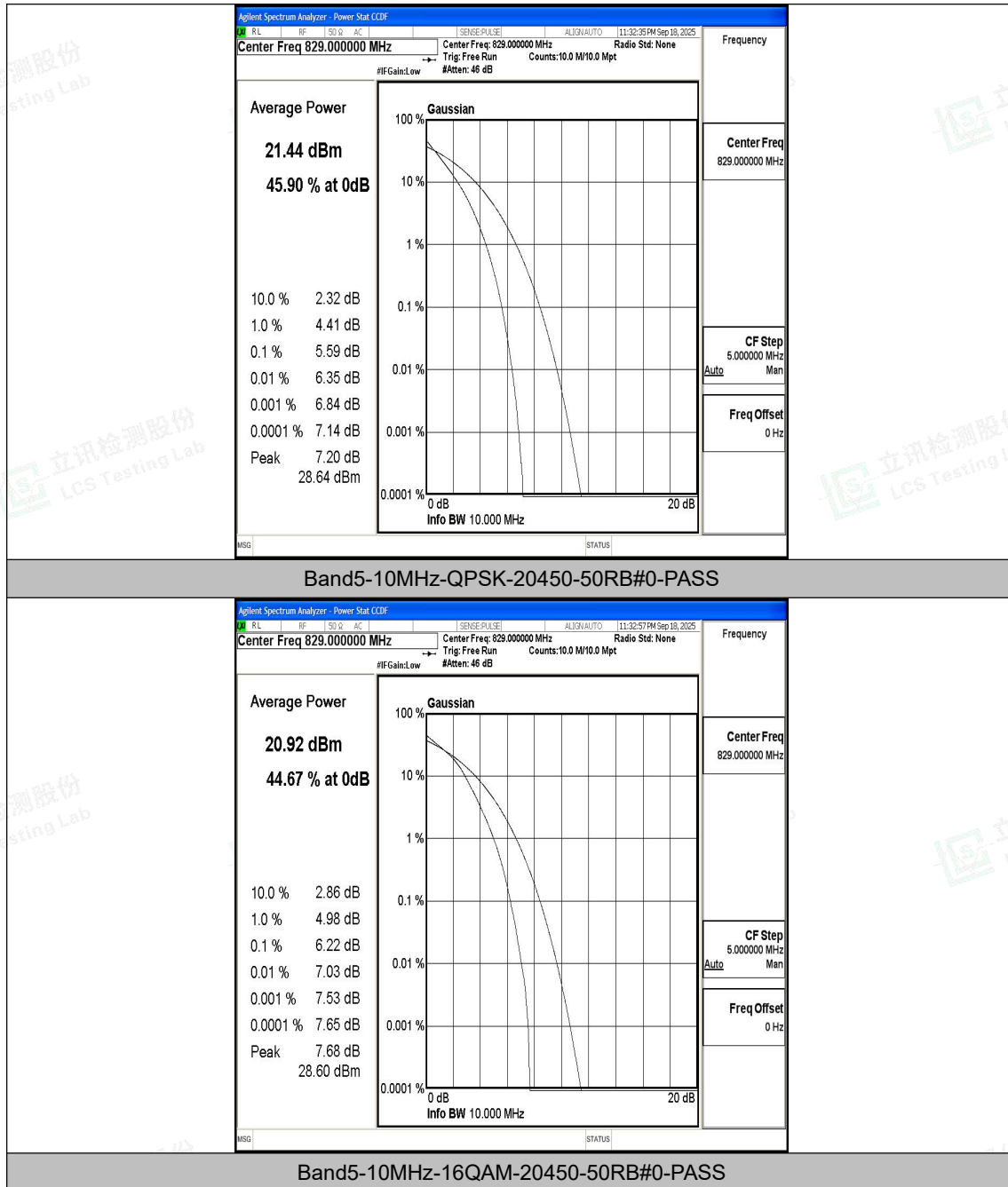


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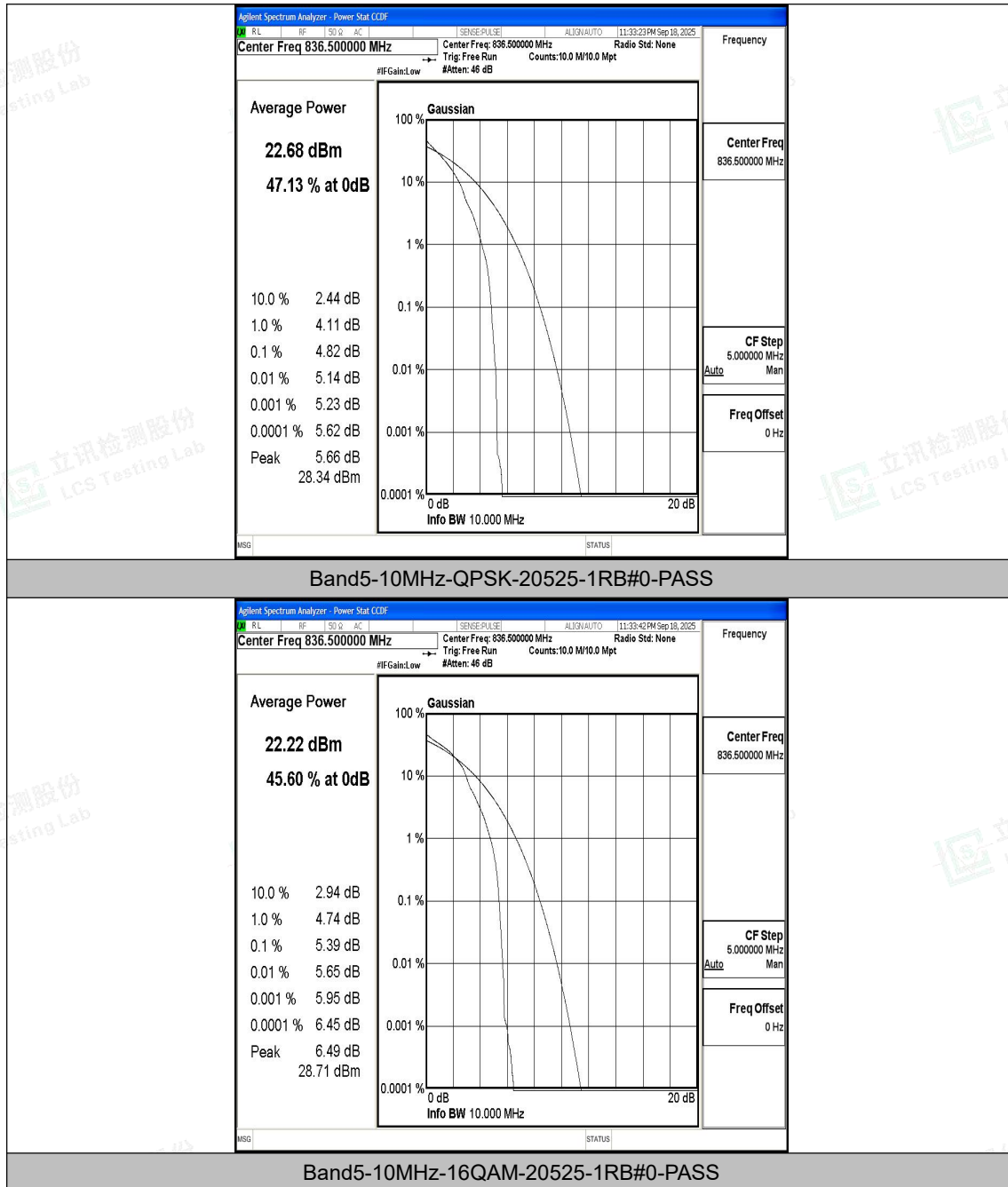


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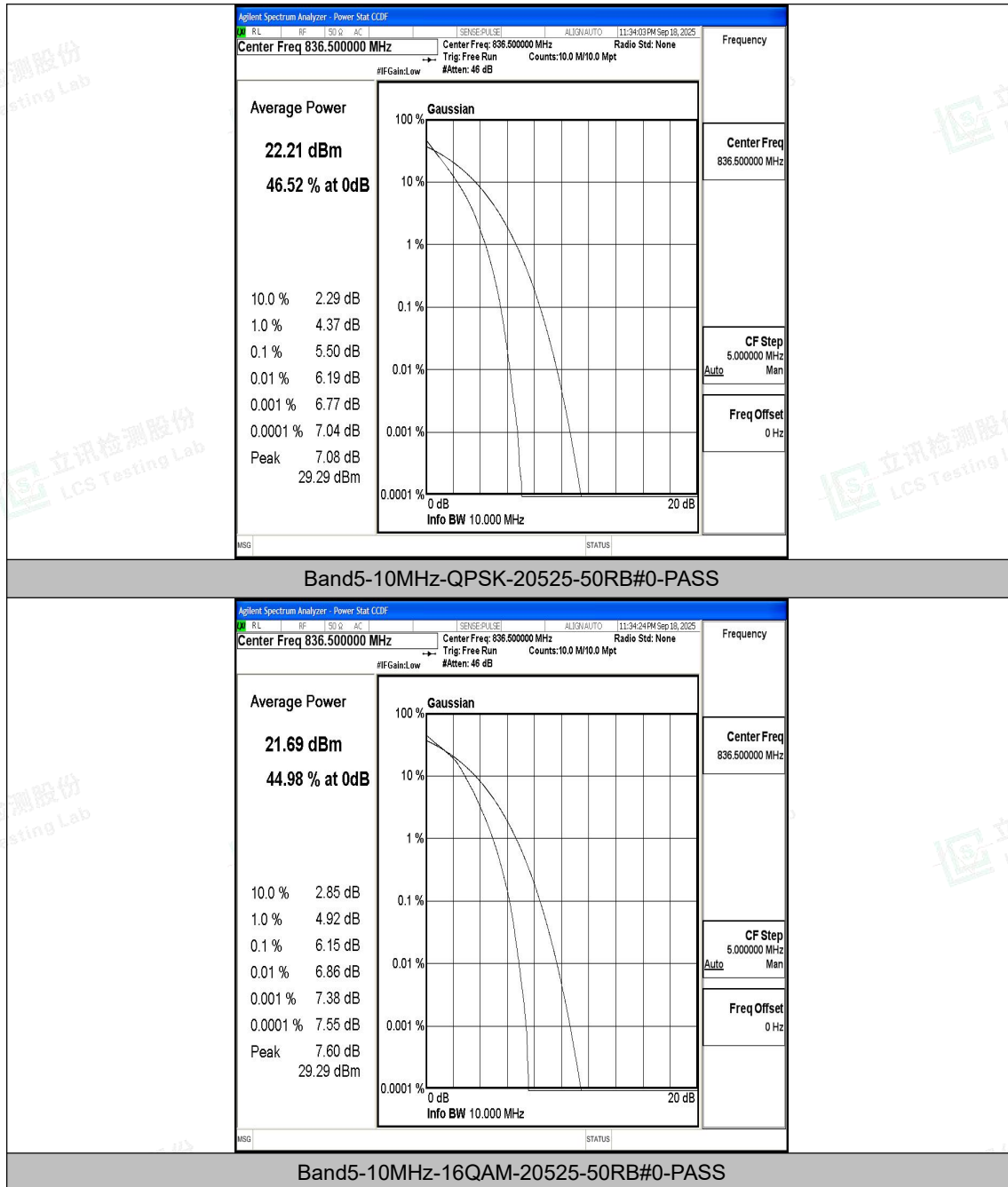


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