



Appendix F: Test Data for E-UTRA Band 5

Product Name: Smart Phone

Test Model: K1

Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8° C   |
| Relative Humidity: | 52.2%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Ling Zhu  |
| Supervised by:     | Li Huan   |





## F.1 Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 22.67       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#2            | 22.76       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#5            | 22.71       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#0            | 22.62       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#1            | 22.78       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#3            | 22.63       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 21.76       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 22.90       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#2            | 23.17       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#5            | 23.22       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#0            | 23.05       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#1            | 22.99       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#3            | 22.99       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 22.21       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 23.17       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#2            | 22.93       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5            | 22.94       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#0            | 22.83       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#1            | 22.78       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#3            | 23.01       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 21.99       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 21.65       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#2            | 21.91       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#5            | 21.91       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#0            | 21.56       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#1            | 21.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#3            | 21.52       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 20.93       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 21.88       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#2            | 22.24       | PASS    |



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|       |        |       |       |        |       |      |
|-------|--------|-------|-------|--------|-------|------|
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#5  | 22.04 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#0  | 21.83 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#1  | 21.88 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#3  | 21.91 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0  | 21.19 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0  | 22.03 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#2  | 21.86 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5  | 21.86 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#0  | 21.83 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1  | 21.89 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3  | 21.95 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | 20.99 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#0  | 22.27 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#8  | 22.32 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#14 | 22.19 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#0  | 21.26 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#4  | 21.22 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#7  | 21.26 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | 21.22 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#0  | 22.33 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#8  | 22.42 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#14 | 22.42 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#0  | 21.34 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#4  | 21.33 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#7  | 21.36 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | 21.36 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#0  | 22.38 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#8  | 22.40 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#14 | 22.38 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 8RB#0  | 21.36 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 8RB#4  | 21.37 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 8RB#7  | 21.36 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 15RB#0 | 21.31 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#0  | 21.15 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#8  | 21.26 | PASS |



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|       |      |       |       |         |       |      |
|-------|------|-------|-------|---------|-------|------|
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14  | 21.13 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#0   | 20.24 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#4   | 20.28 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#7   | 20.30 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0  | 20.16 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0   | 21.15 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8   | 21.20 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14  | 21.34 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#0   | 20.30 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#4   | 20.34 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#7   | 20.32 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0  | 20.42 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0   | 21.19 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8   | 21.16 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14  | 21.14 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#0   | 20.38 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#4   | 20.38 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7   | 20.31 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0  | 20.31 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0   | 22.21 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#12  | 22.35 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#24  | 22.19 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#0  | 21.22 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#6  | 21.20 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#13 | 21.28 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0  | 21.30 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0   | 22.28 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#12  | 22.40 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#24  | 22.28 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#0  | 21.30 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#6  | 21.34 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#13 | 21.34 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0  | 21.36 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#0   | 22.26 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#12  | 22.42 | PASS |



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|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#24  | 22.26 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 12RB#0  | 21.39 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 12RB#6  | 21.32 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 12RB#13 | 21.25 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0  | 21.33 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#0   | 21.16 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#12  | 21.31 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#24  | 21.19 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 12RB#0  | 20.15 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 12RB#6  | 20.22 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 12RB#13 | 20.28 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0  | 20.29 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#0   | 21.16 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#12  | 21.33 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#24  | 21.27 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 12RB#0  | 20.25 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 12RB#6  | 20.28 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 12RB#13 | 20.38 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0  | 20.41 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0   | 21.38 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#12  | 21.44 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#24  | 21.28 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#0  | 20.49 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#6  | 20.48 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#13 | 20.33 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0  | 20.36 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0   | 22.21 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#24  | 22.36 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#49  | 22.29 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#0  | 21.28 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#12 | 21.29 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#25 | 21.33 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0  | 21.24 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0   | 22.25 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#24  | 22.43 | PASS |



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|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band5 | 10MHz | QPSK  | 20525 | 1RB#49  | 22.35 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#0  | 21.38 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#12 | 21.39 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#25 | 21.42 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0  | 21.43 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0   | 22.35 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#24  | 22.51 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#49  | 22.42 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#0  | 21.41 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#12 | 21.42 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#25 | 21.31 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0  | 21.34 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0   | 21.22 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24  | 21.34 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49  | 21.29 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0  | 20.30 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 20.31 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 20.30 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0  | 20.23 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0   | 21.25 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24  | 21.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49  | 21.34 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0  | 20.44 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 20.41 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 20.40 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0  | 20.40 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0   | 21.22 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24  | 21.37 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49  | 21.16 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0  | 20.49 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 20.47 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 20.38 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0  | 20.43 | PASS |



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

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 5.01       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 4.44       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 4.02       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 5.86       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 5.31       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 4.99       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 5.12       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 4.54       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 4.24       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 5.99       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 5.39       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 5.13       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 5.15       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 4.61       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 4.62       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 5.92       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 5.41       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | 5.48       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 4.86       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 4.76       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 5.04       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | 5.69       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0           | 5.57       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0           | 5.94       | 13        | PASS    |



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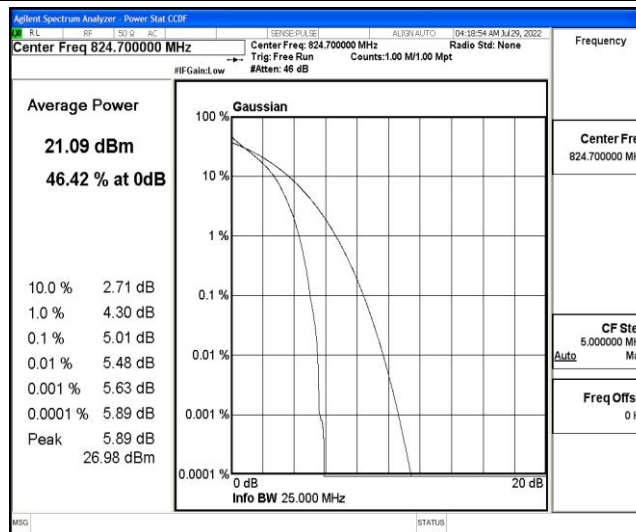
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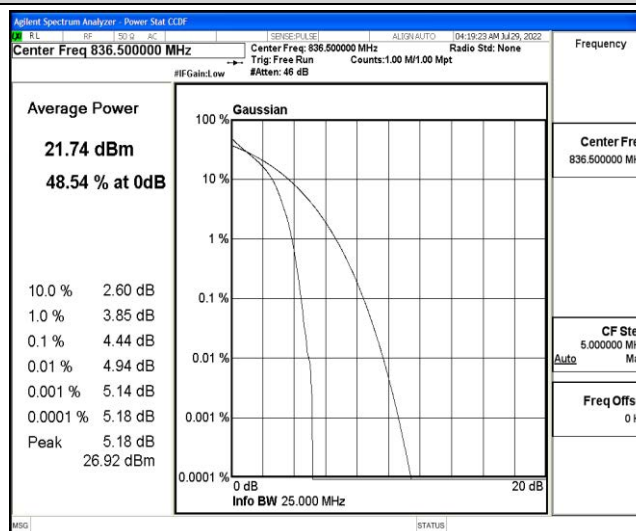


## Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0

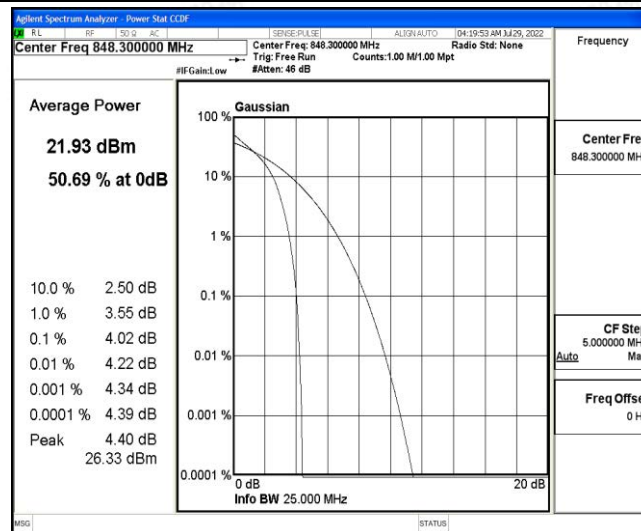


Band5-1.4MHz-QPSK-20525-6RB#0

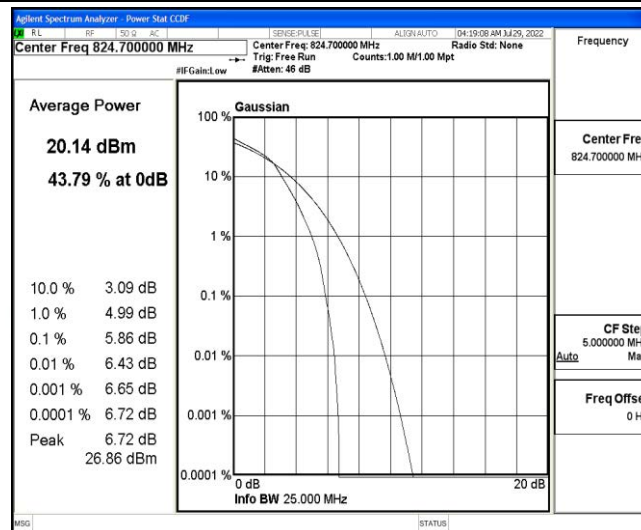


Band5-1.4MHz-QPSK-20643-6RB#0

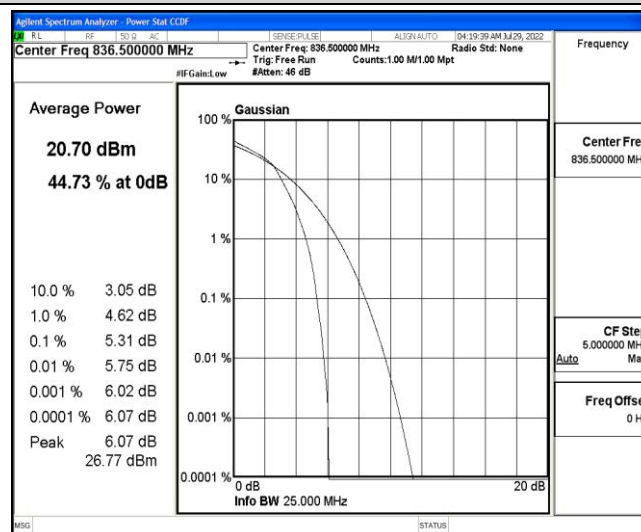




Band5-1.4MHz-16QAM-20407-6RB#0

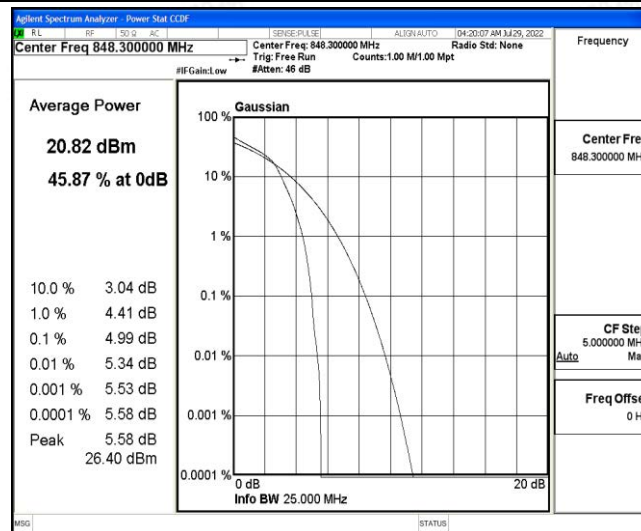


Band5-1.4MHz-16QAM-20525-6RB#0

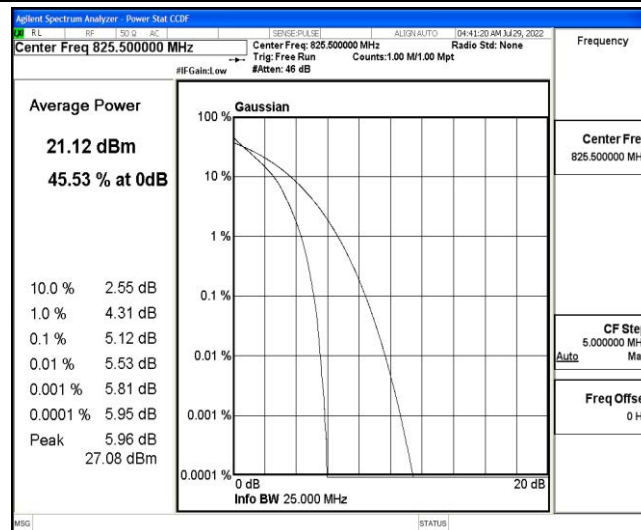


Band5-1.4MHz-16QAM-20643-6RB#0

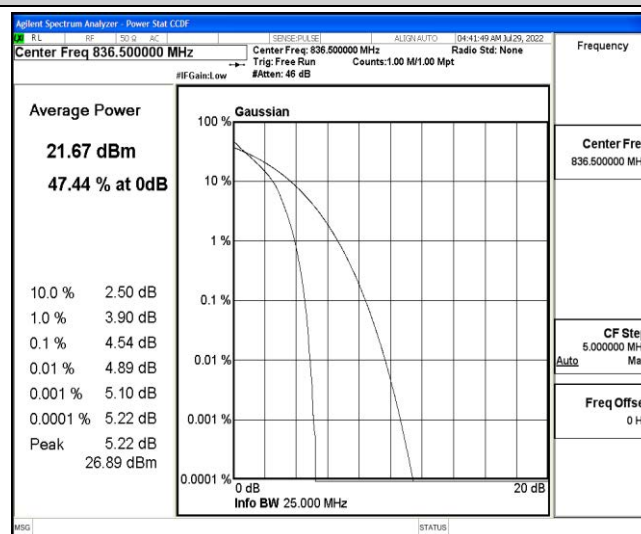




## Band5-3MHz-QPSK-20415-15RB#0



## Band5-3MHz-QPSK-20525-15RB#0



## Band5-3MHz-QPSK-20635-15RB#0

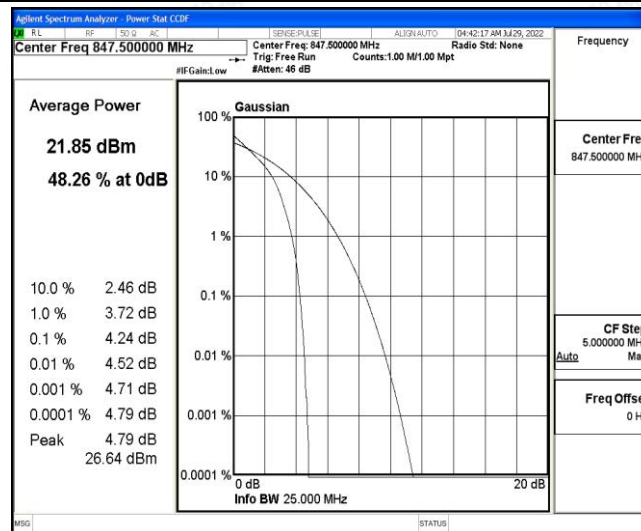


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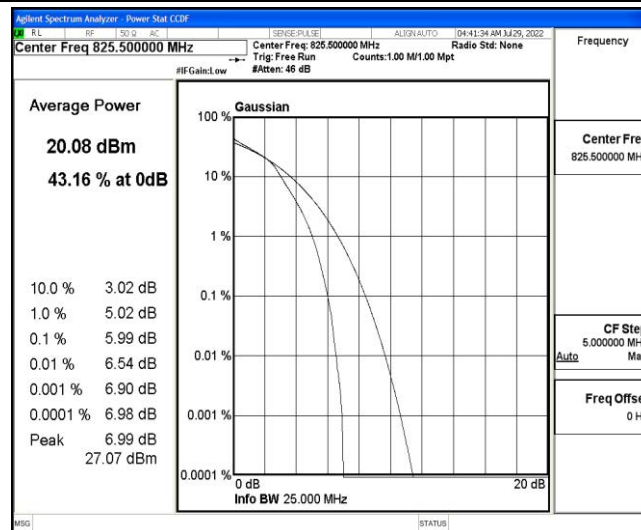
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

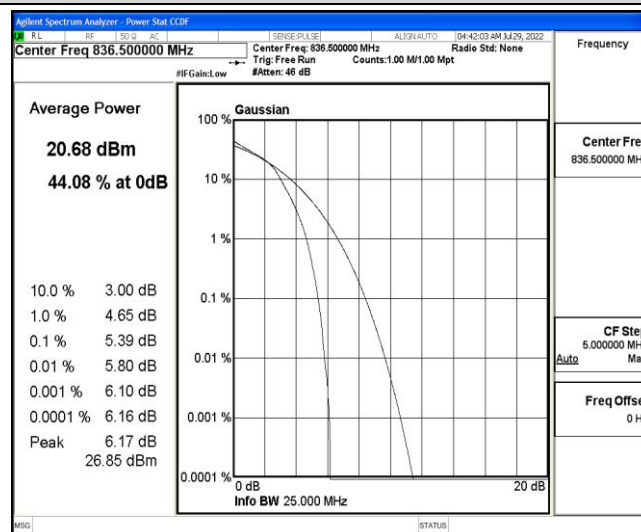
Scan code to check authenticity



## Band5-3MHz-16QAM-20415-15RB#0



## Band5-3MHz-16QAM-20525-15RB#0



## Band5-3MHz-16QAM-20635-15RB#0

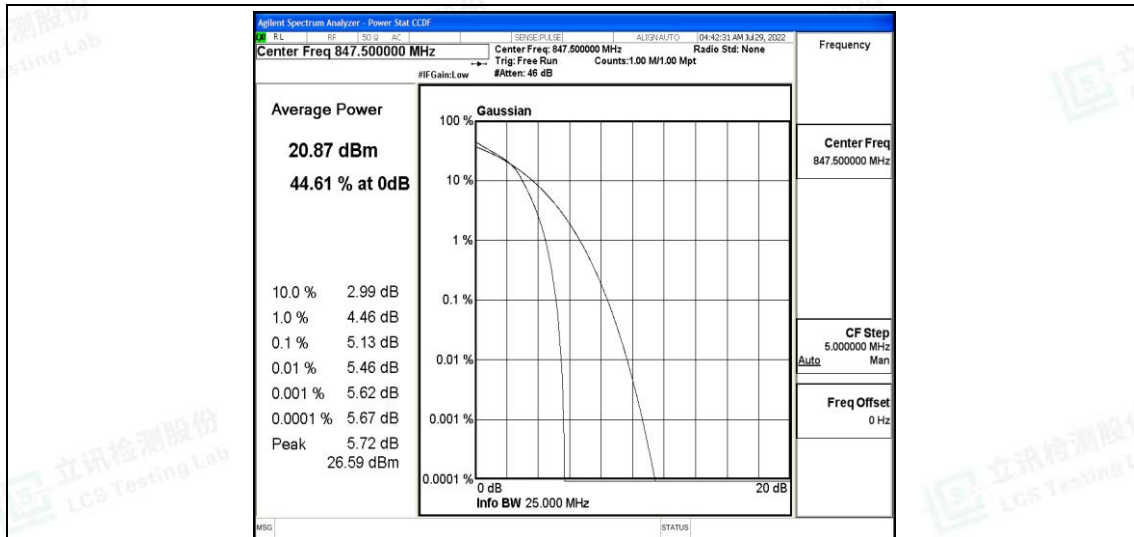


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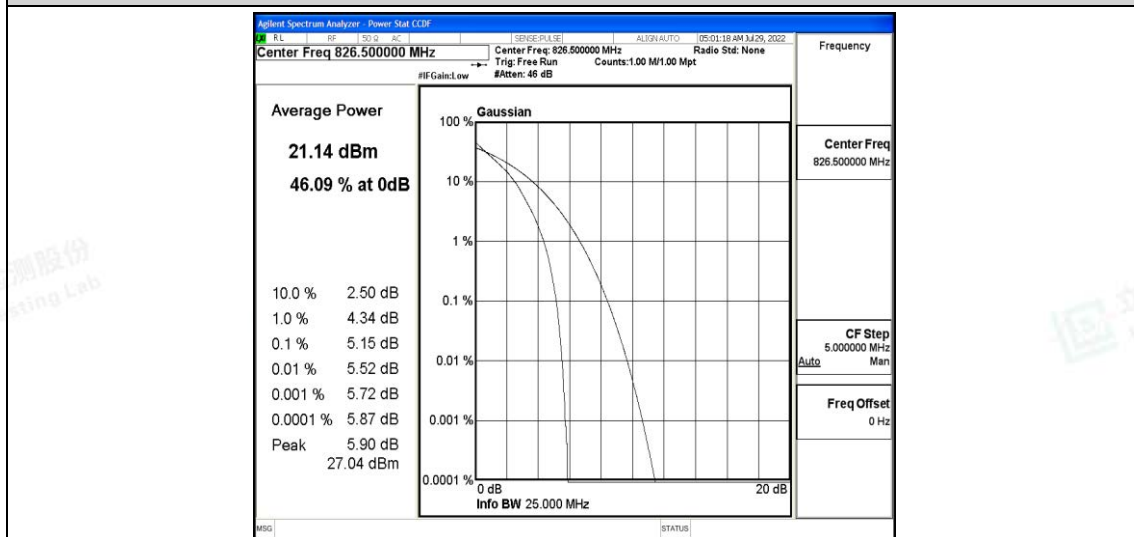
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

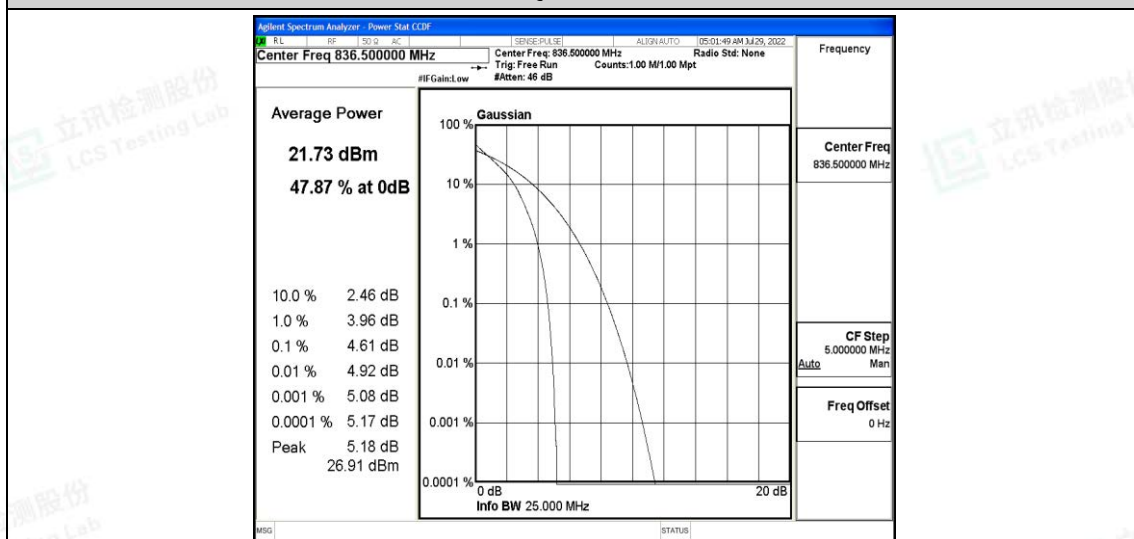
Scan code to check authenticity



Band5-5MHz-QPSK-20425-25RB#0

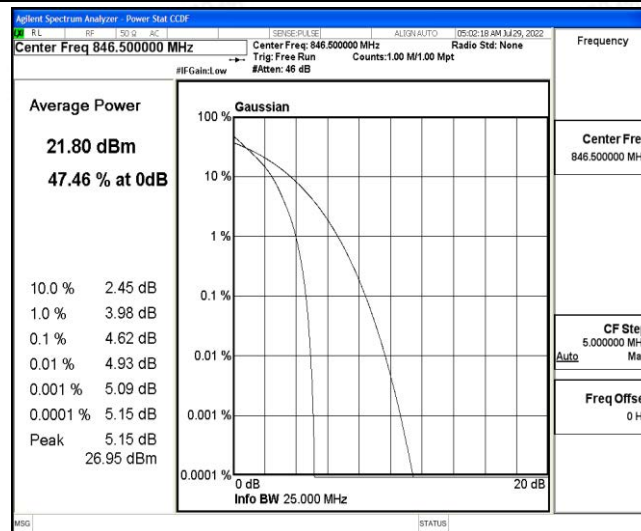


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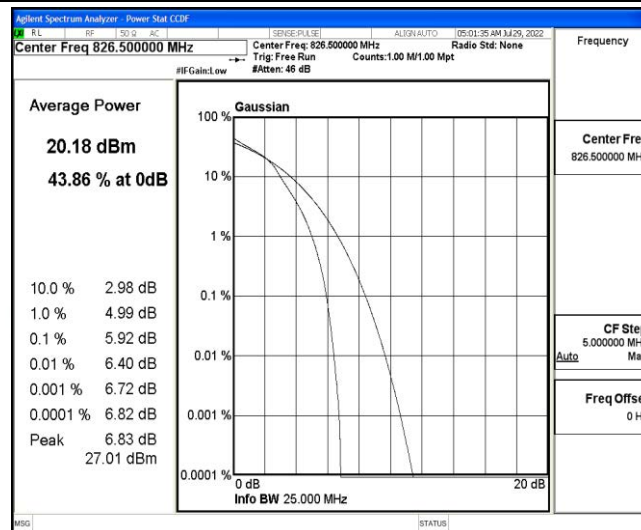


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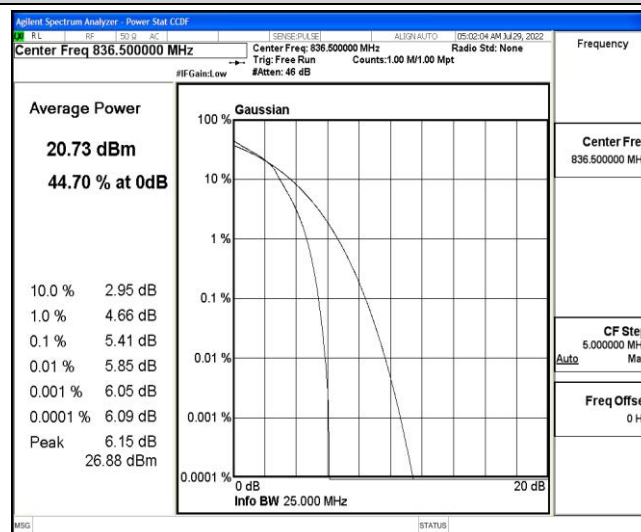




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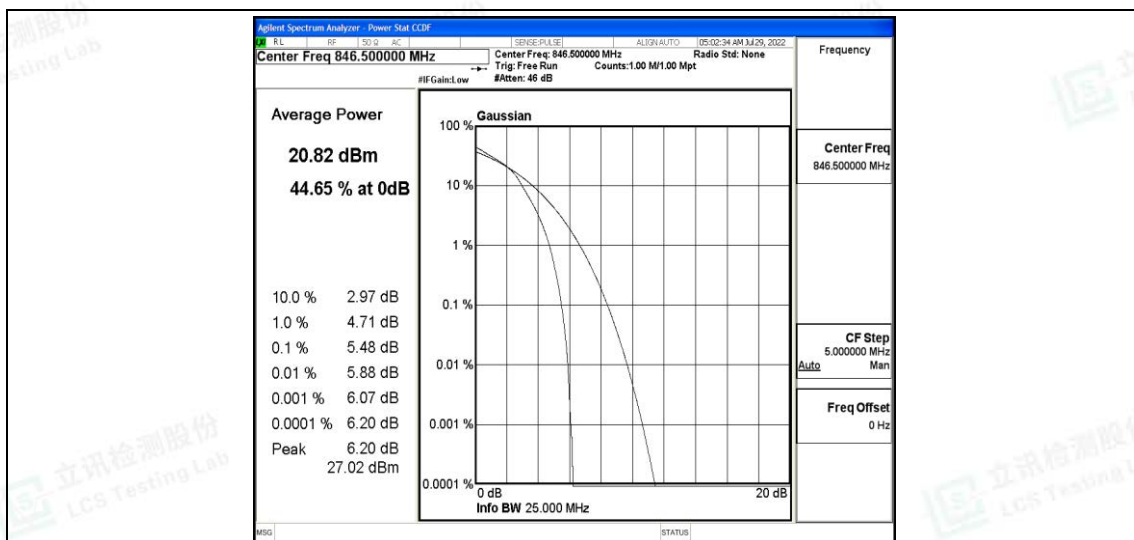


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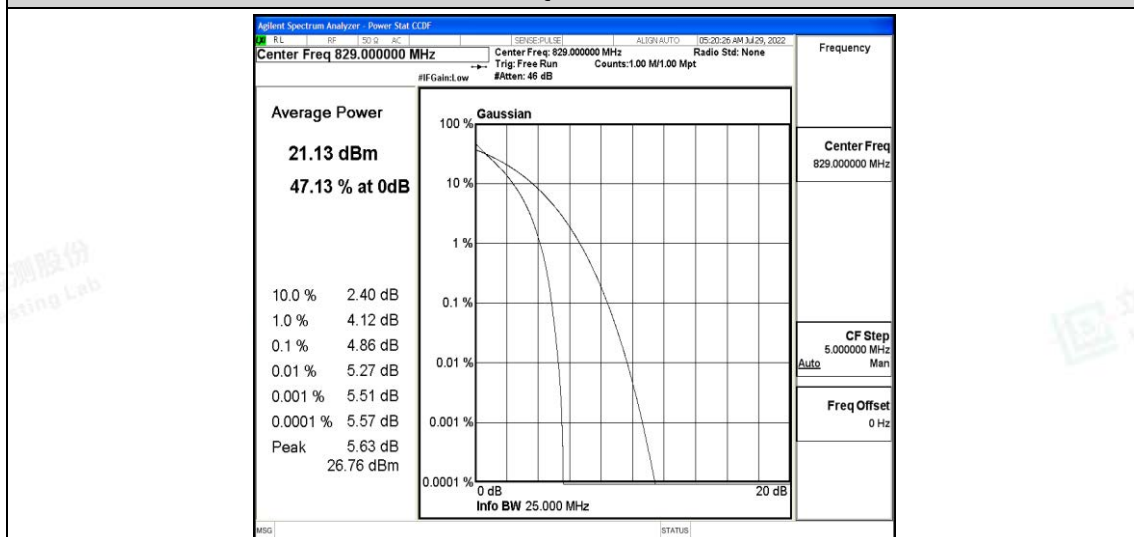


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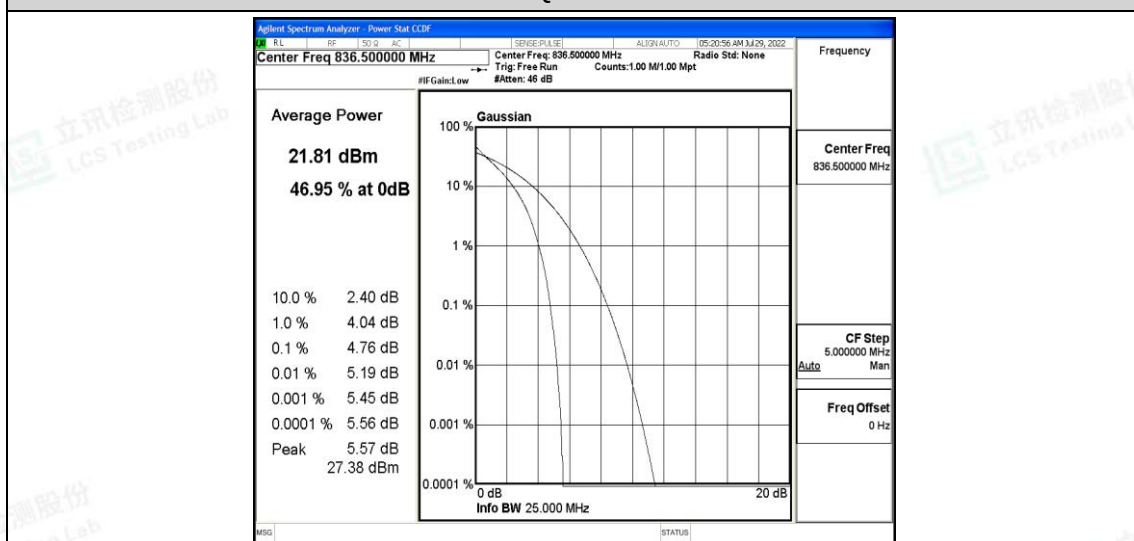




## Band5-10MHz-QPSK-20450-50RB#0



## Band5-10MHz-QPSK-20525-50RB#0



## Band5-10MHz-QPSK-20600-50RB#0

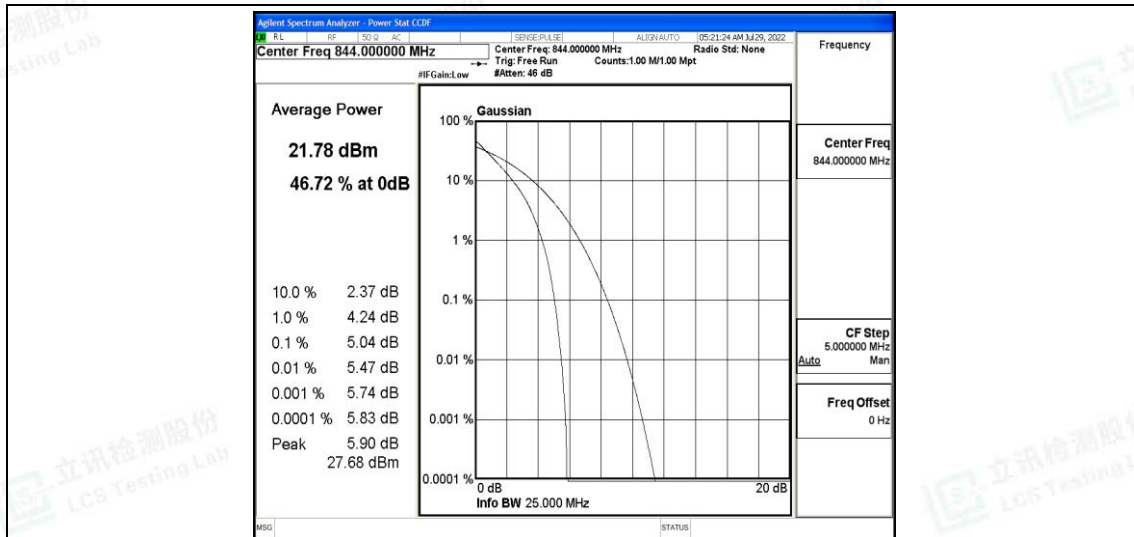


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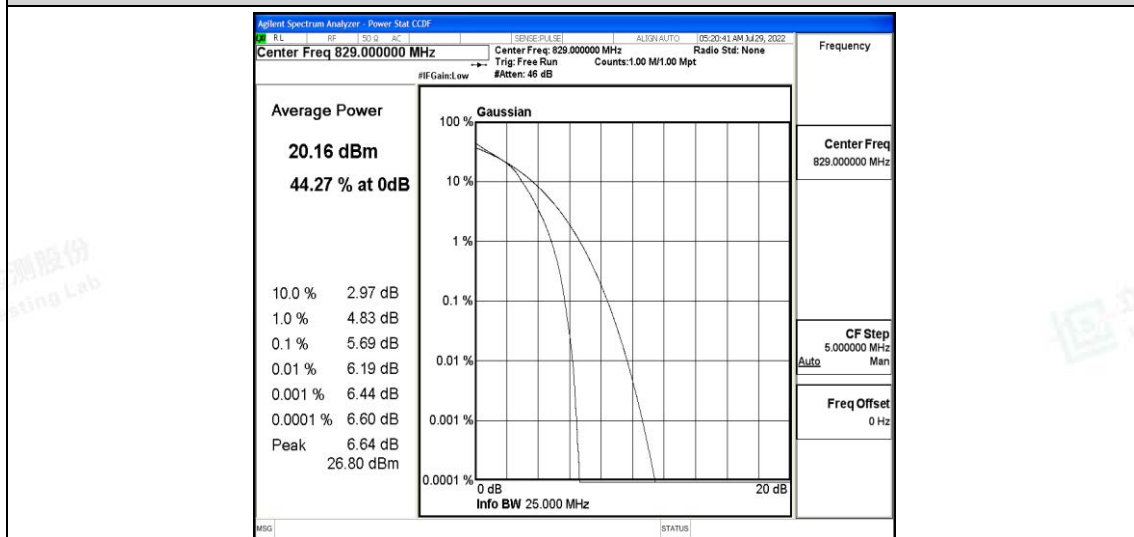
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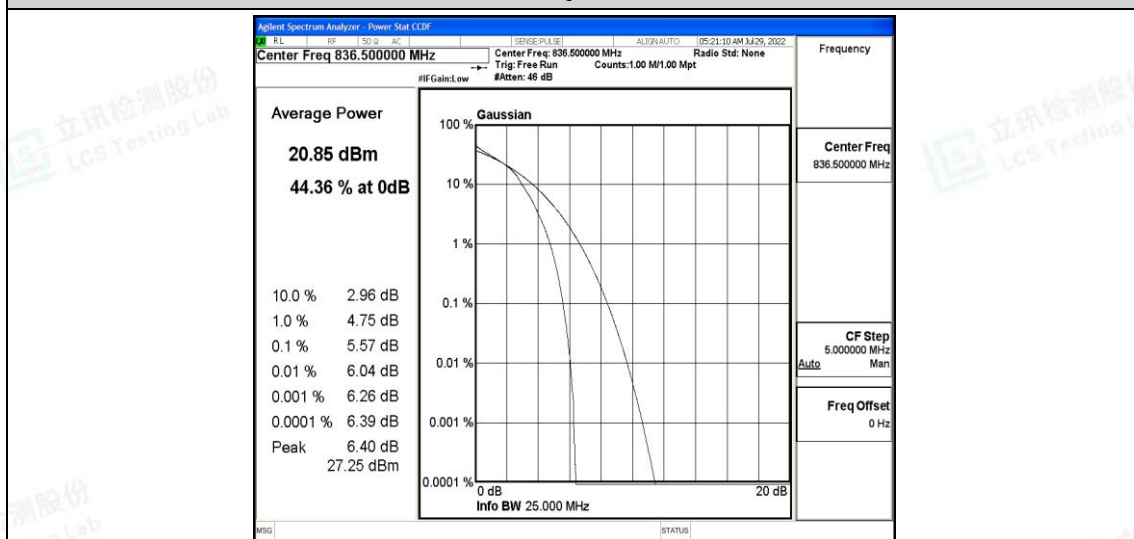
Scan code to check authenticity



Band5-10MHz-16QAM-20450-50RB#0

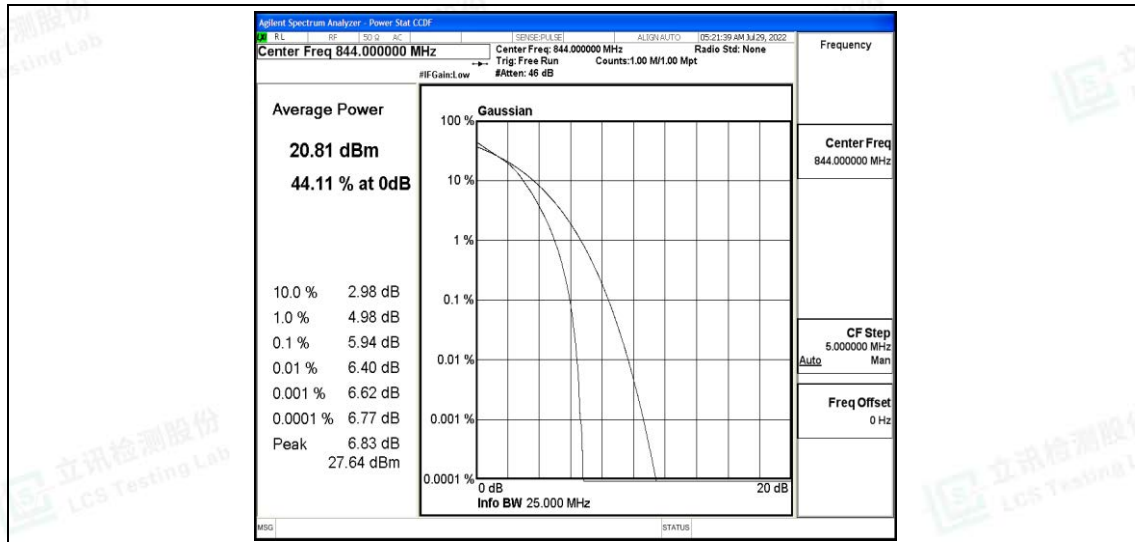


Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0







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

#### Test Result

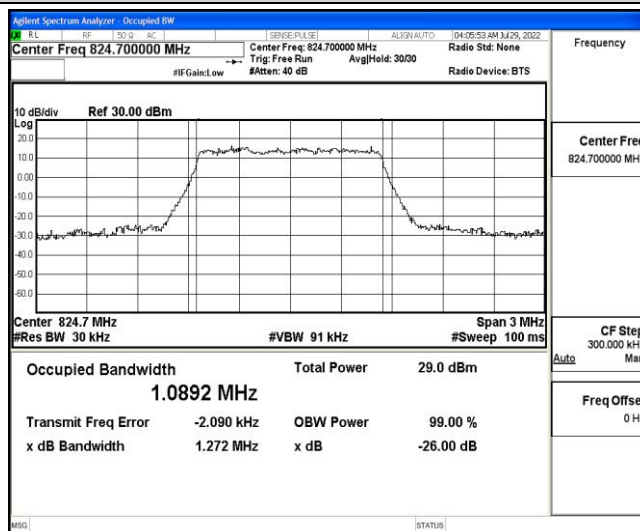
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 1.0892                   | 1.272                | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 1.0929                   | 1.337                | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 1.0953                   | 1.280                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 1.0924                   | 1.284                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 1.1005                   | 1.287                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 1.0926                   | 1.280                | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 2.6781                   | 2.914                | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 2.6905                   | 2.916                | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 2.6852                   | 2.889                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 2.6759                   | 2.897                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 2.6781                   | 2.890                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 2.6808                   | 2.900                | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 4.5035                   | 4.935                | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 4.4980                   | 4.947                | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 4.4899                   | 4.917                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 4.4913                   | 4.895                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 4.4949                   | 4.918                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | 4.4872                   | 4.954                | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 8.9796                   | 9.748                | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 8.9879                   | 9.760                | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 8.9664                   | 9.727                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | 8.9791                   | 9.703                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0           | 8.9932                   | 9.719                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0           | 8.9739                   | 9.726                | PASS    |



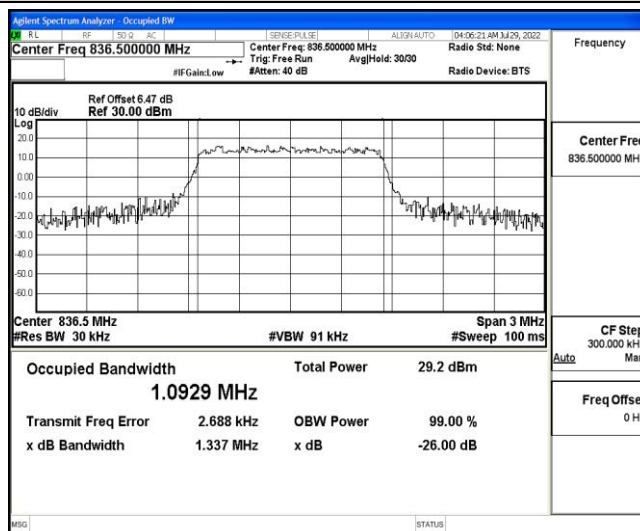


## Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0

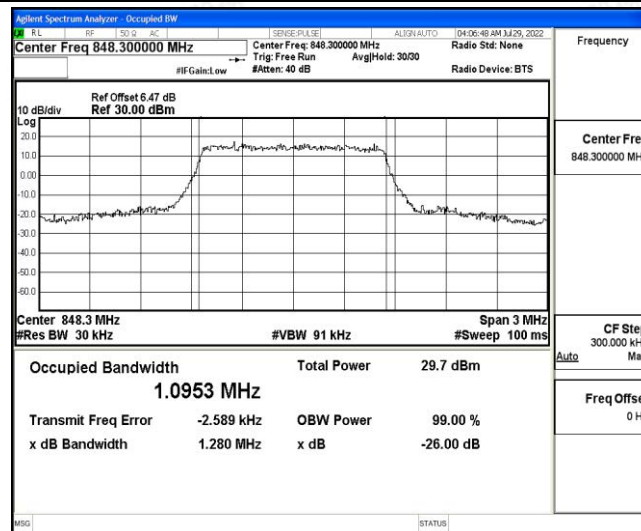


Band5-1.4MHz-QPSK-20525-6RB#0

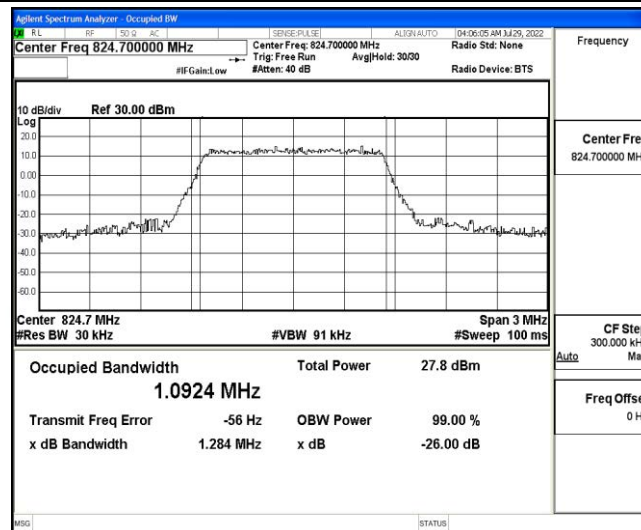


Band5-1.4MHz-QPSK-20643-6RB#0

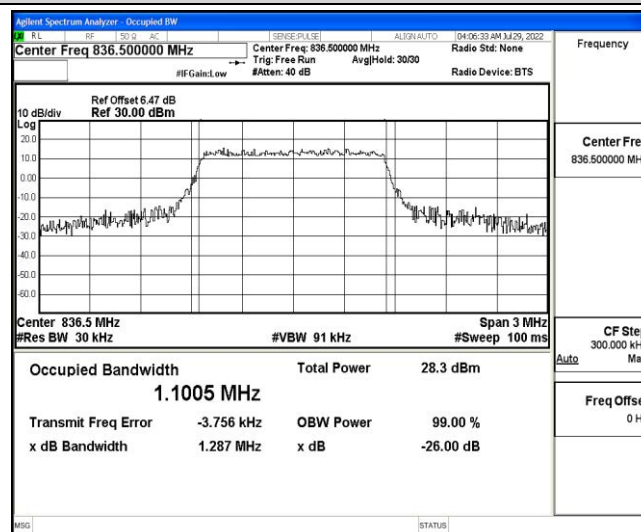




## Band5-1.4MHz-16QAM-20407-6RB#0



## Band5-1.4MHz-16QAM-20525-6RB#0



## Band5-1.4MHz-16QAM-20643-6RB#0

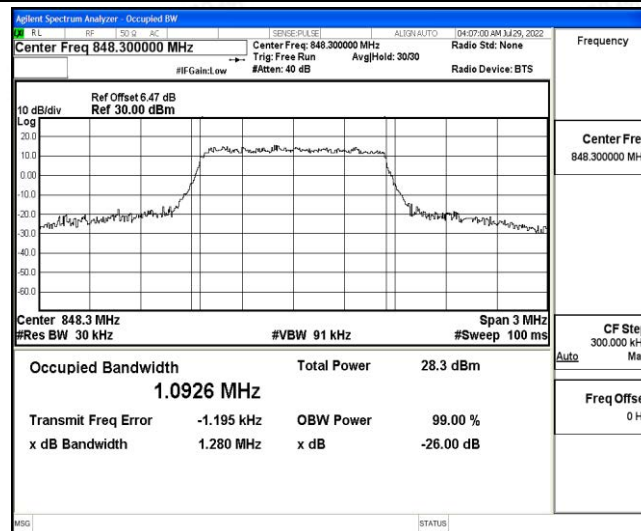


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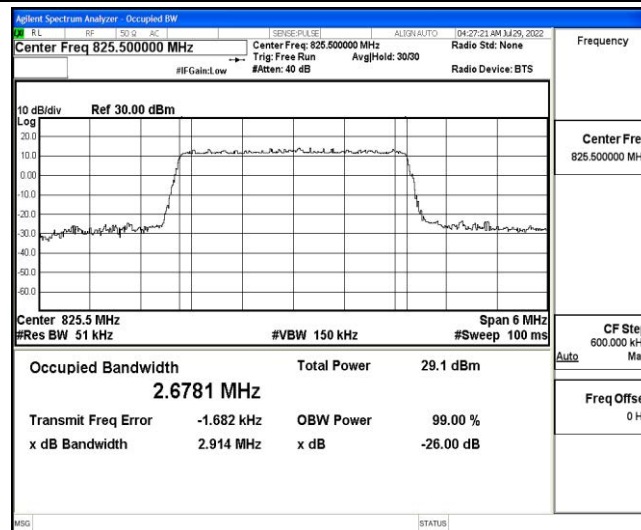
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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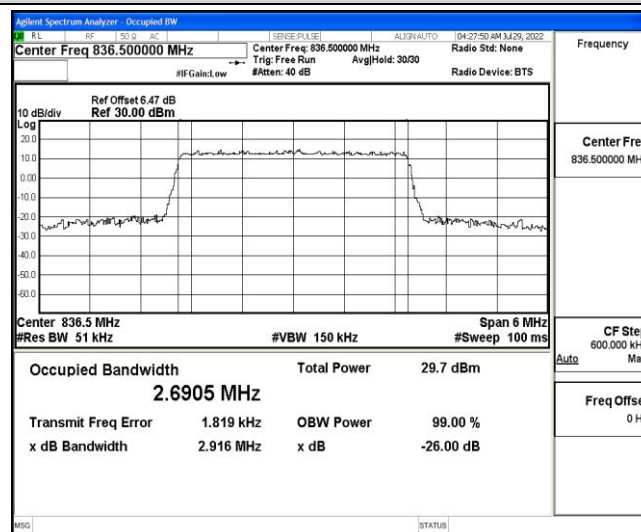
Scan code to check authenticity



## Band5-3MHz-QPSK-20415-15RB#0



## Band5-3MHz-QPSK-20525-15RB#0



## Band5-3MHz-QPSK-20635-15RB#0

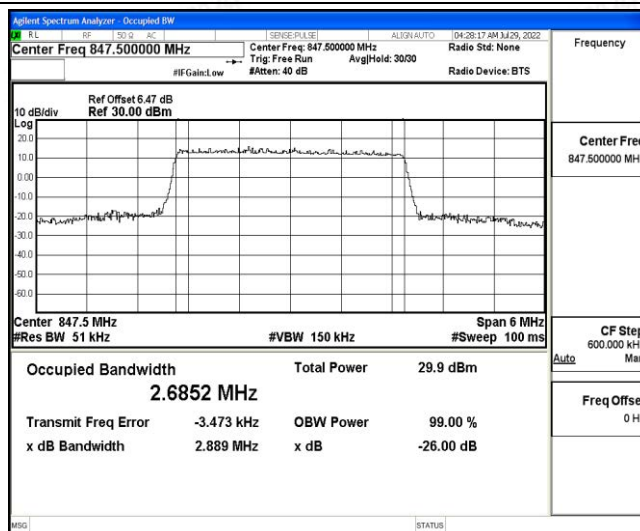


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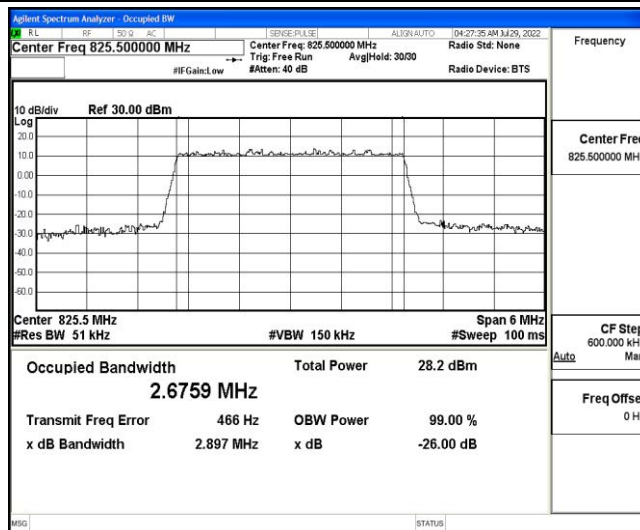
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

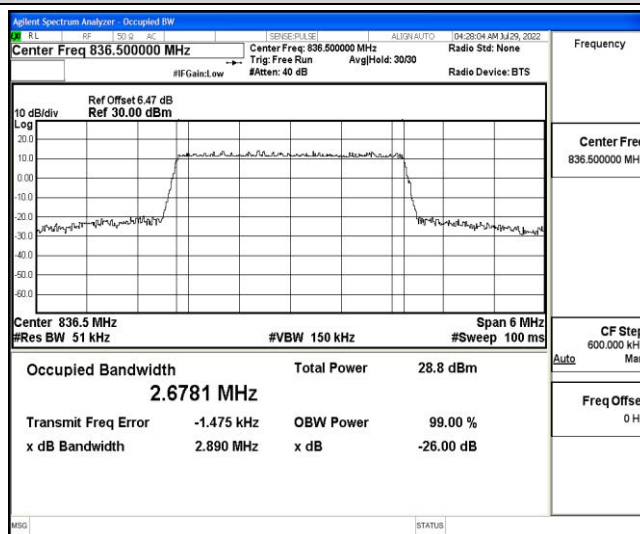
Scan code to check authenticity



## Band5-3MHz-16QAM-20415-15RB#0



## Band5-3MHz-16QAM-20525-15RB#0



## Band5-3MHz-16QAM-20635-15RB#0

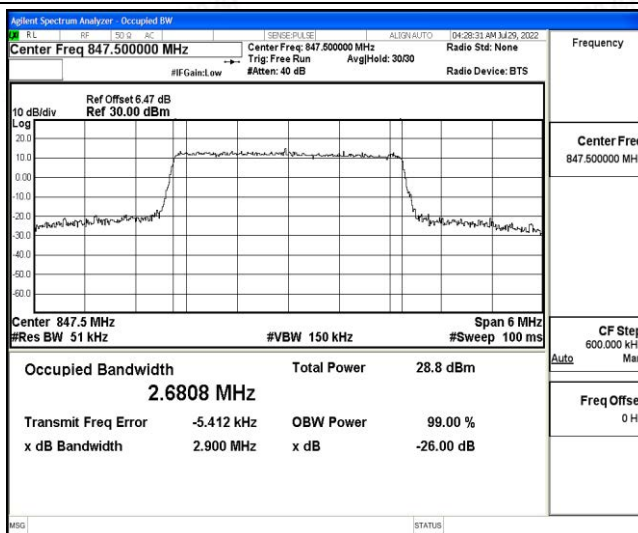


Shenzhen LCS Compliance Testing Laboratory Ltd.

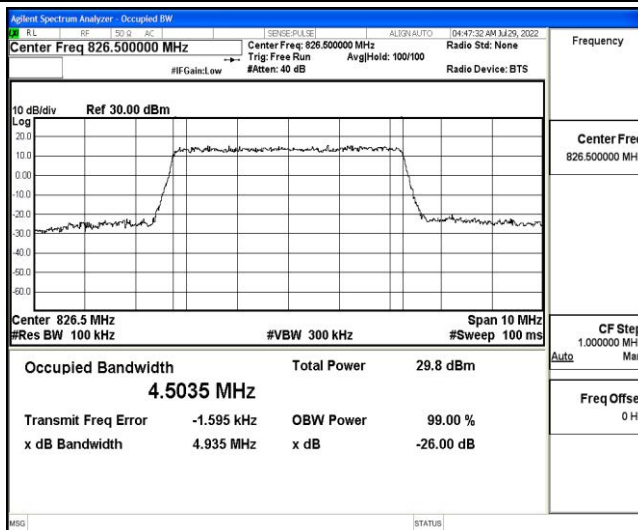
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

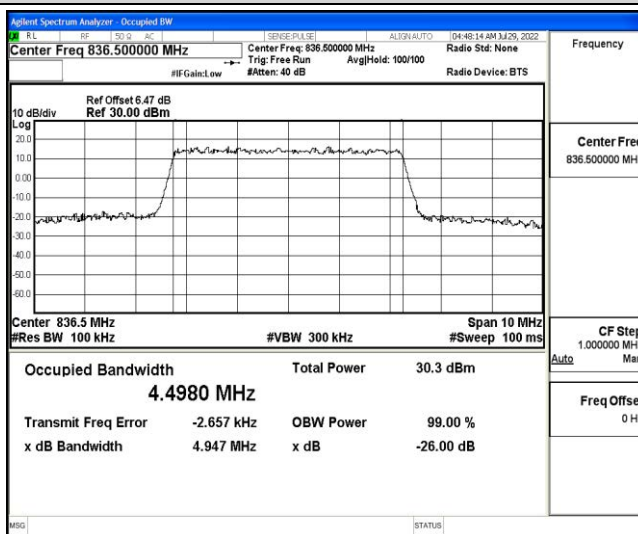
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## Band5-5MHz-QPSK-20425-25RB#0



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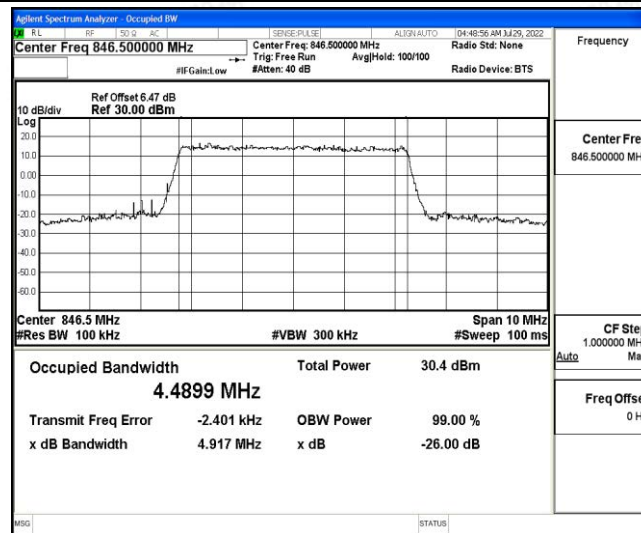


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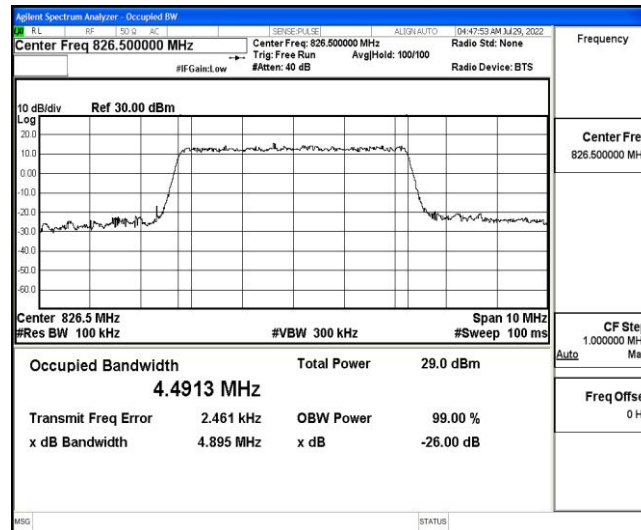
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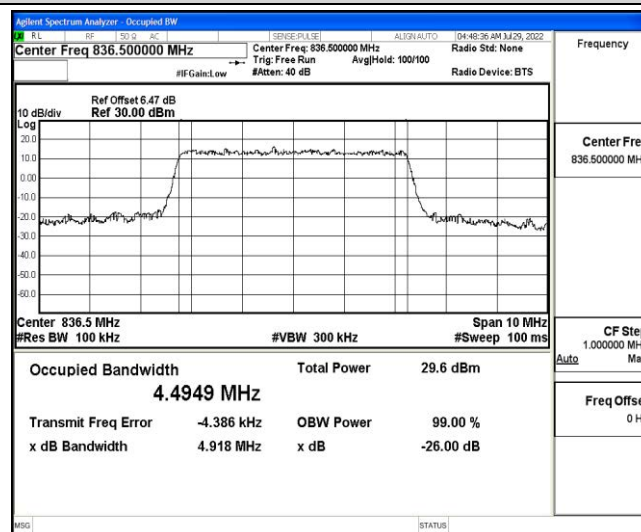
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## Band5-5MHz-16QAM-20425-25RB#0



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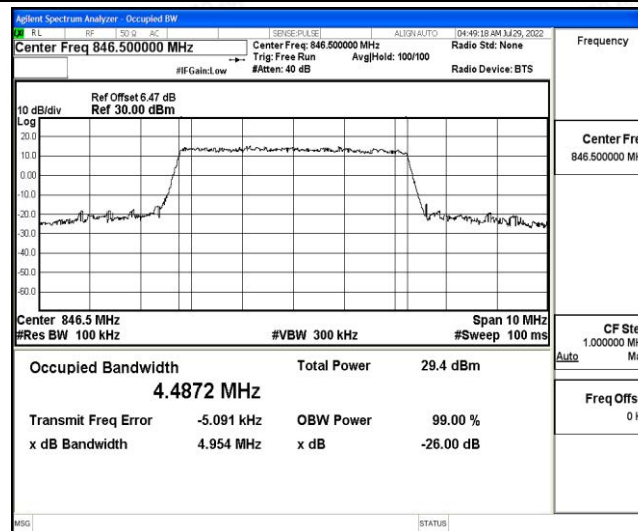


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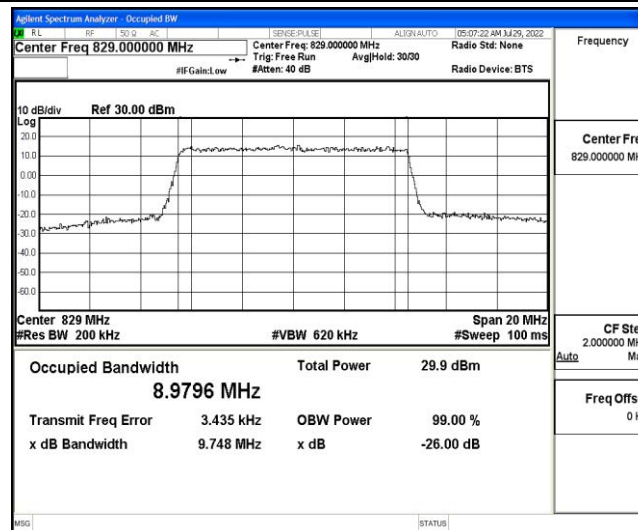
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

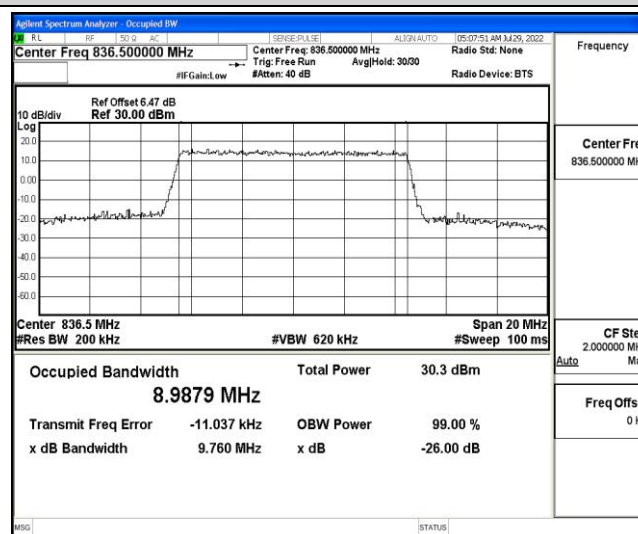
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## Band5-10MHz-QPSK-20450-50RB#0



## Band5-10MHz-QPSK-20525-50RB#0



## Band5-10MHz-QPSK-20600-50RB#0

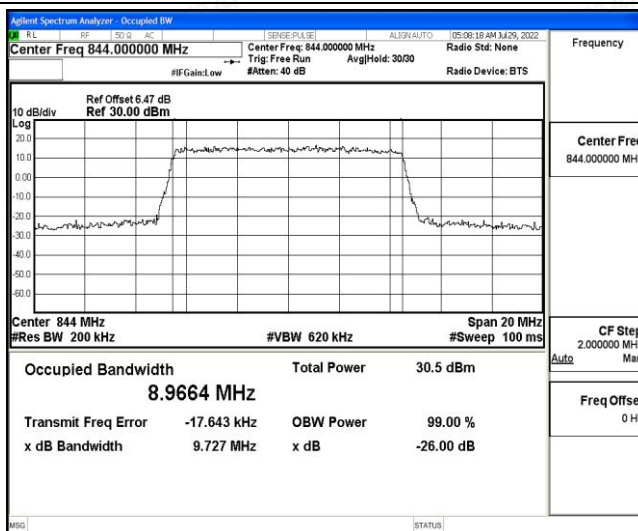


Shenzhen LCS Compliance Testing Laboratory Ltd.

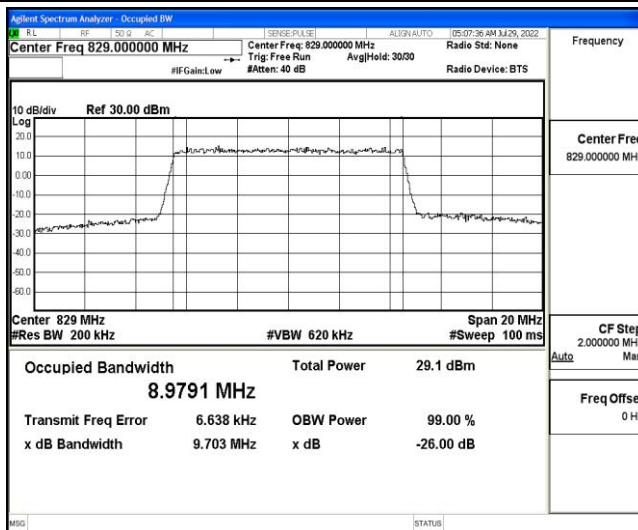
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

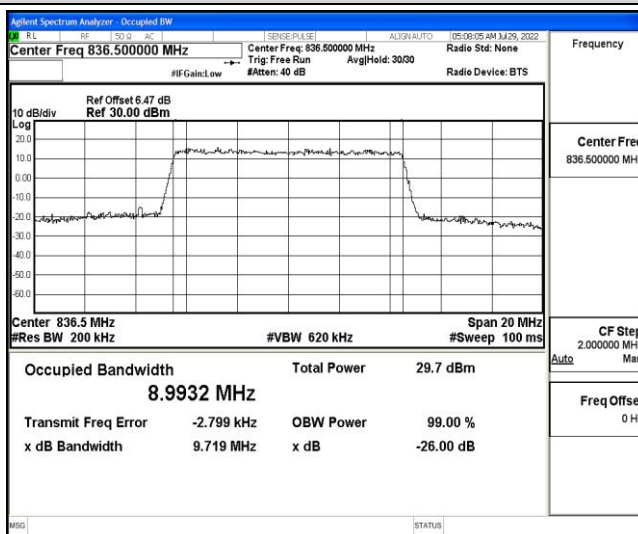
Scan code to check authenticity



## Band5-10MHz-16QAM-20450-50RB#0



## Band5-10MHz-16QAM-20525-50RB#0



## Band5-10MHz-16QAM-20600-50RB#0

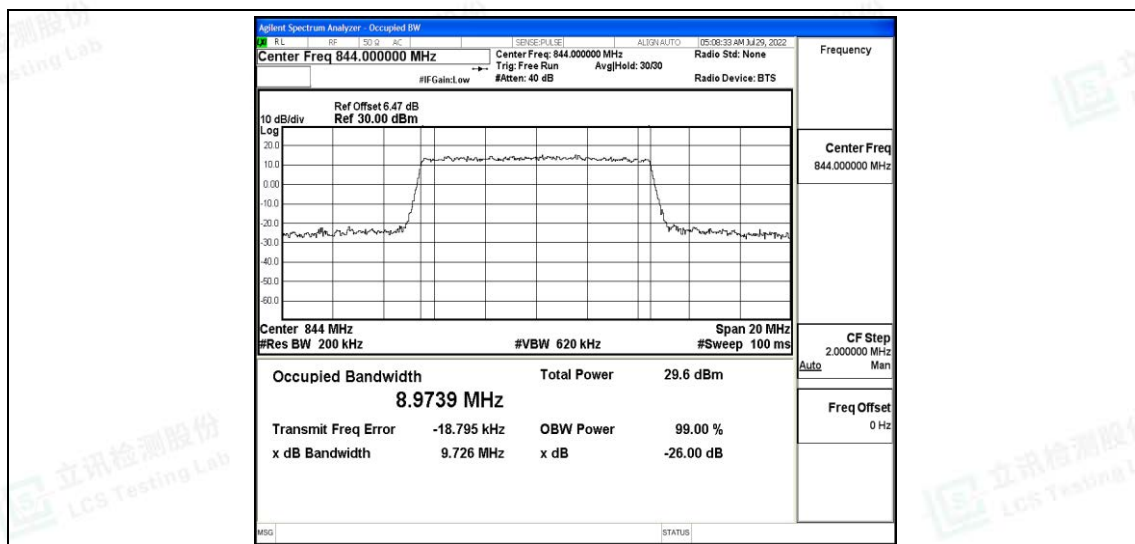


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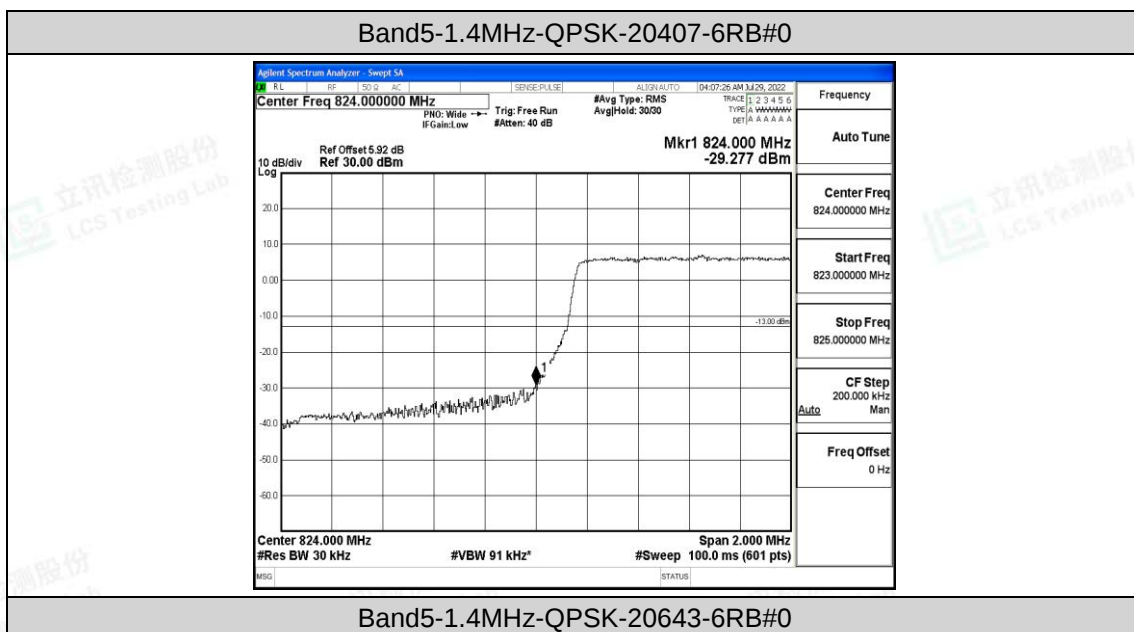


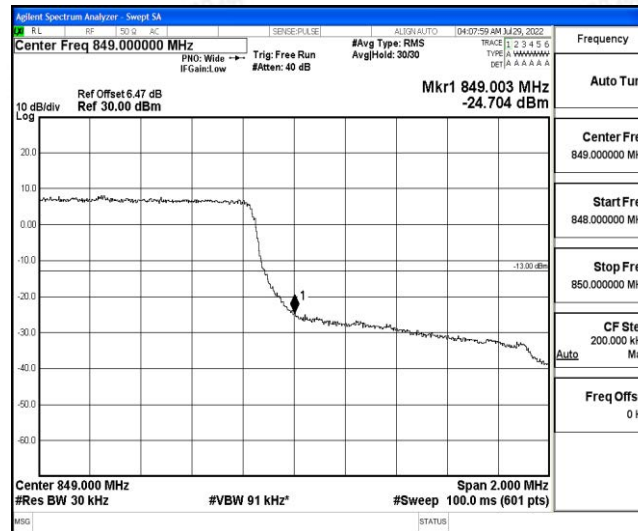
## F.4 Band Edge

### Test Result

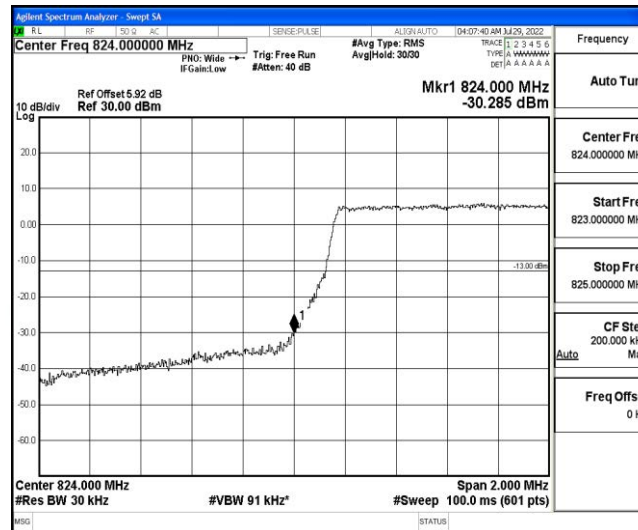
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | -29.28      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | -24.70      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | -30.28      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | -27.69      | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | -31.80      | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | -28.35      | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | -33.10      | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | -29.99      | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | -29.69      | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | -28.23      | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | -30.70      | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | -29.84      | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | -31.09      | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | -32.08      | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | -31.99      | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0           | -31.93      | PASS    |

### Test Graphs

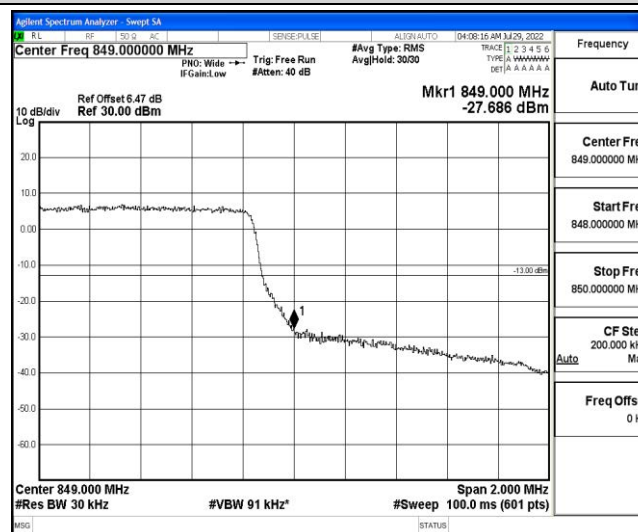




Band5-1.4MHz-16QAM-20407-6RB#0

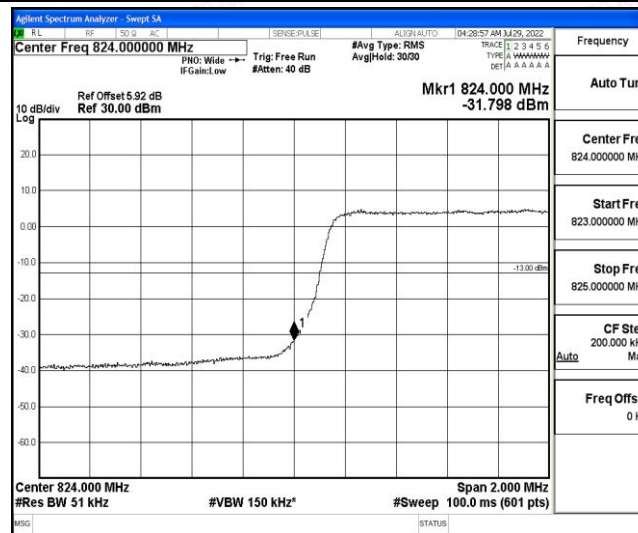


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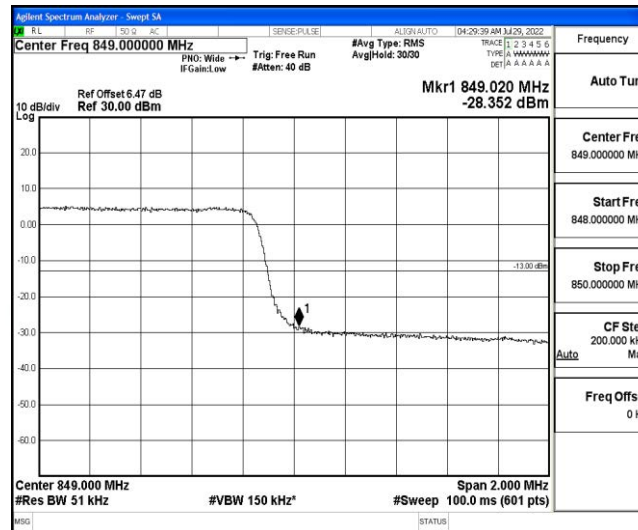


Band5-3MHz-QPSK-20415-15RB#0

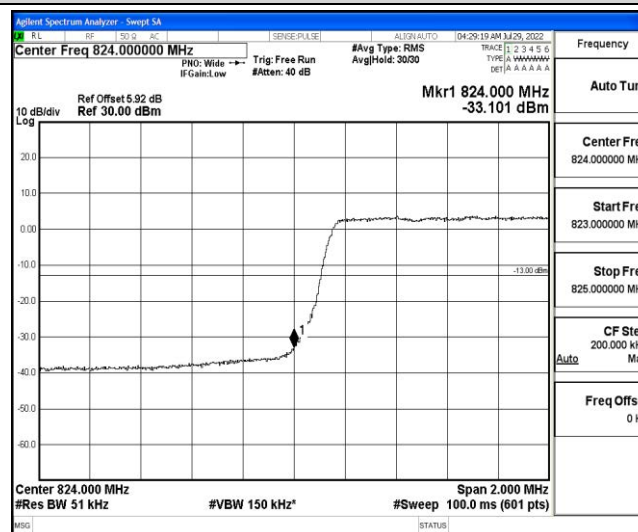




Band5-3MHz-QPSK-20635-15RB#0

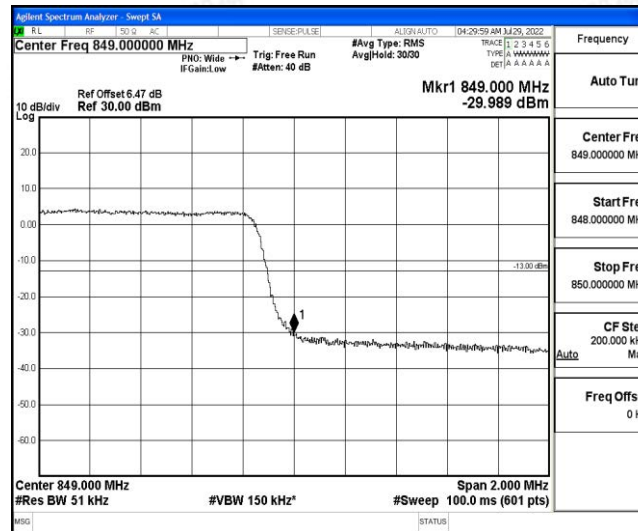


Band5-3MHz-16QAM-20415-15RB#0

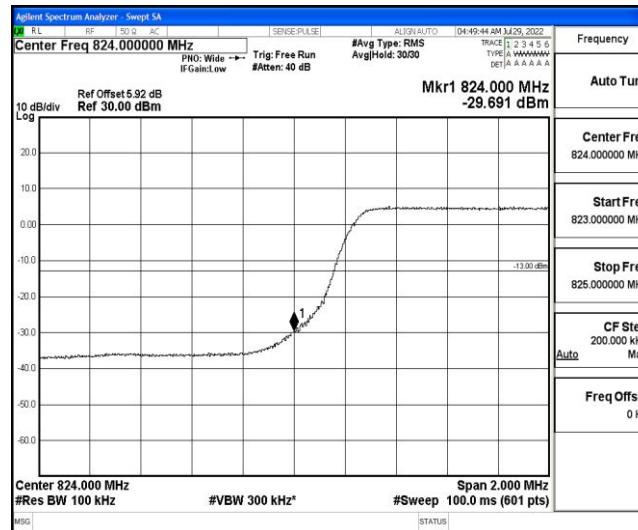


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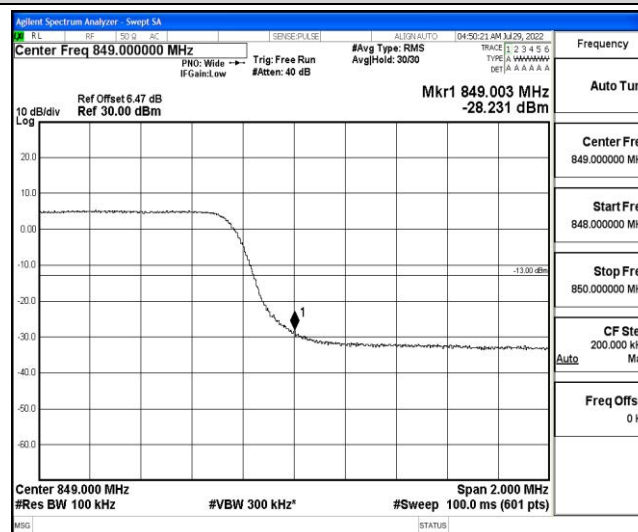




Band5-5MHz-QPSK-20425-25RB#0

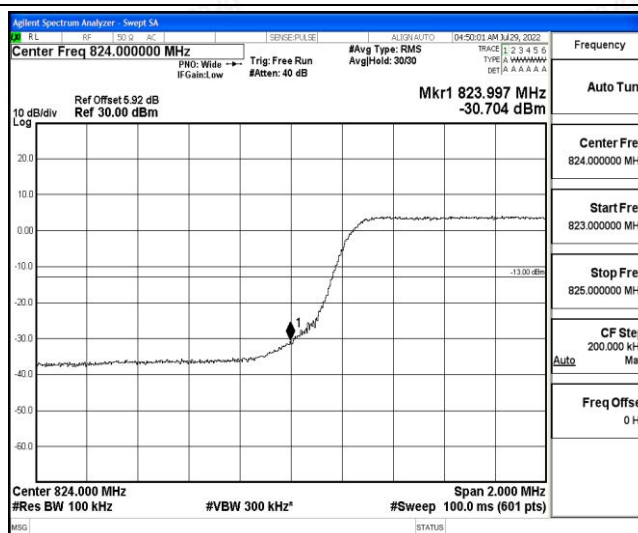


Band5-5MHz-QPSK-20625-25RB#0

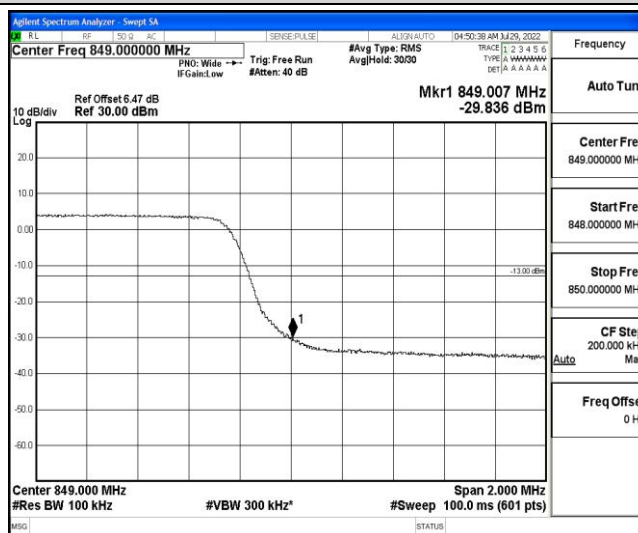


Band5-5MHz-16QAM-20425-25RB#0

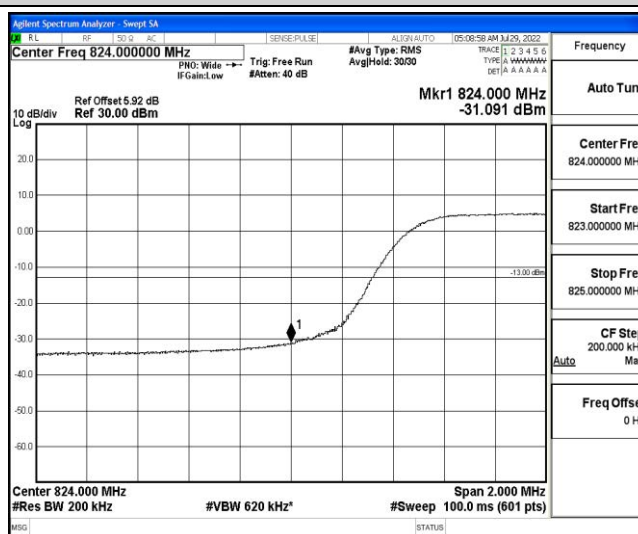




Band5-5MHz-16QAM-20625-25RB#0



Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20600-50RB#0

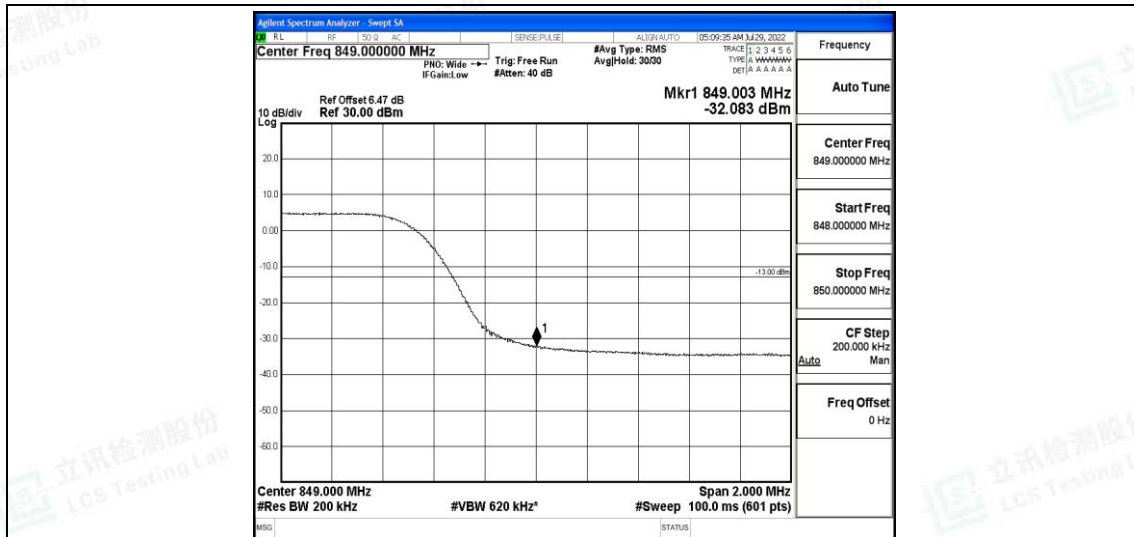


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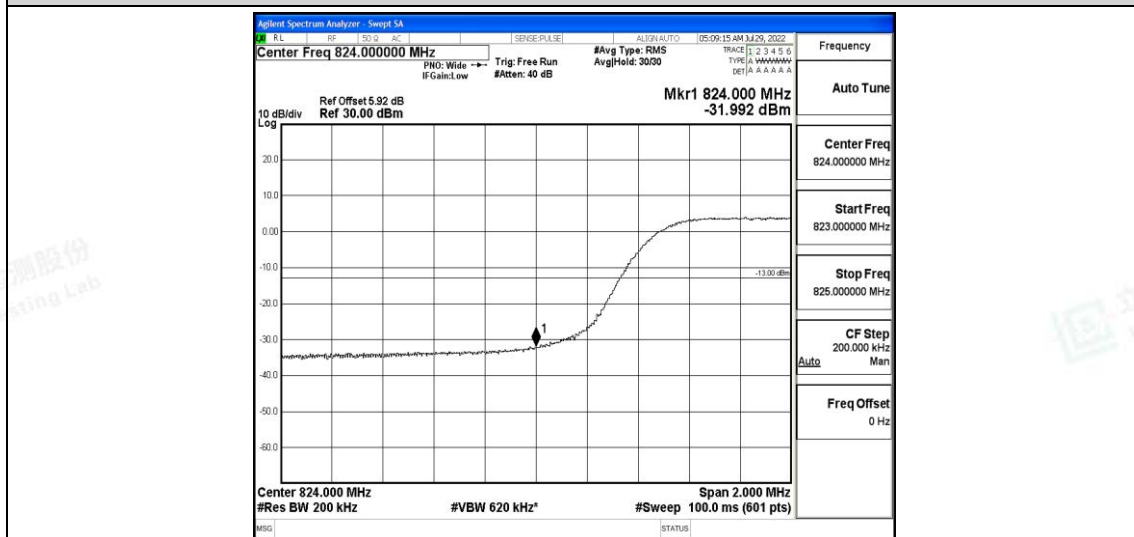
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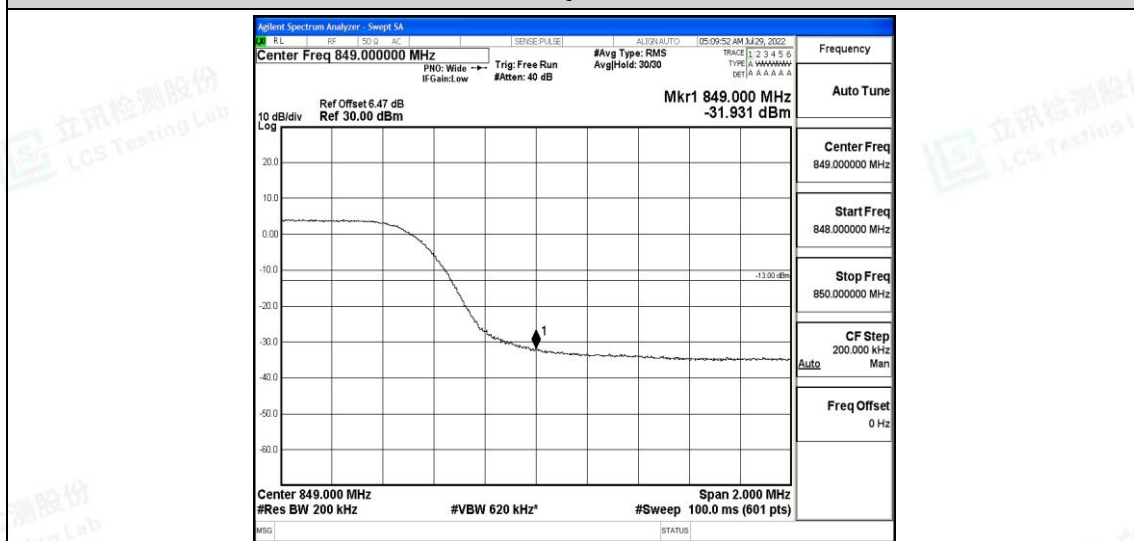
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Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20600-50RB#0





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518000, China  
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## F.5 Conducted Spurious Emission

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range      | Result (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------------|--------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | Range1:0.009~0.15MHz | -56.28       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | Range2:0.15~30MHz    | -51.7        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | Range3:30~1000MHz    | -41.01       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | Range4:1000~10000MHz | -44.9        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | Range1:0.009~0.15MHz | -53.87       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | Range2:0.15~30MHz    | -50.91       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | Range3:30~1000MHz    | -41.34       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | Range4:1000~10000MHz | -44.95       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | Range1:0.009~0.15MHz | -55.14       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | Range2:0.15~30MHz    | -50.81       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | Range3:30~1000MHz    | -41.03       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | Range4:1000~10000MHz | -44.97       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | Range1:0.009~0.15MHz | -54.74       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | Range2:0.15~30MHz    | -52.74       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | Range3:30~1000MHz    | -40.35       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | Range4:1000~10000MHz | -44.94       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | Range1:0.009~0.15MHz | -55.38       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | Range2:0.15~30MHz    | -50.37       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | Range3:30~1000MHz    | -40.6        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | Range4:1000~10000MHz | -44.94       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | Range1:0.009~0.15MHz | -54.39       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | Range2:0.15~30MHz    | -51.47       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | Range3:30~1000MHz    | -41.14       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | Range4:1000~10000MHz | -44.92       | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | Range1:0.009~0.15MHz | -53.53       | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | Range2:0.15~30MHz    | -50          | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | Range3:30~1000MHz    | -40.41       | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | Range4:1000~10000MHz | -45.02       | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 1RB#0            | Range1:0.009~0.15MHz | -55.33       | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 1RB#0            | Range2:0.15~30MHz    | -52.38       | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 1RB#0            | Range3:30~1000MHz    | -41.49       | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 1RB#0            | Range4:1000~10000MHz | -44.98       | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 1RB#0            | Range1:0.009~0.15MHz | -56.65       | PASS    |



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|       |       |       |       |       |                      |        |      |
|-------|-------|-------|-------|-------|----------------------|--------|------|
| Band5 | 3MHz  | QPSK  | 20635 | 1RB#0 | Range2:0.15~30MHz    | -52.47 | PASS |
| Band5 | 3MHz  | QPSK  | 20635 | 1RB#0 | Range3:30~1000MHz    | -39.78 | PASS |
| Band5 | 3MHz  | QPSK  | 20635 | 1RB#0 | Range4:1000~10000MHz | -44.93 | PASS |
| Band5 | 3MHz  | 16QAM | 20415 | 1RB#0 | Range1:0.009~0.15MHz | -55.13 | PASS |
| Band5 | 3MHz  | 16QAM | 20415 | 1RB#0 | Range2:0.15~30MHz    | -52.57 | PASS |
| Band5 | 3MHz  | 16QAM | 20415 | 1RB#0 | Range3:30~1000MHz    | -41.36 | PASS |
| Band5 | 3MHz  | 16QAM | 20415 | 1RB#0 | Range4:1000~10000MHz | -44.98 | PASS |
| Band5 | 3MHz  | 16QAM | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -55.34 | PASS |
| Band5 | 3MHz  | 16QAM | 20525 | 1RB#0 | Range2:0.15~30MHz    | -51.85 | PASS |
| Band5 | 3MHz  | 16QAM | 20525 | 1RB#0 | Range3:30~1000MHz    | -41.23 | PASS |
| Band5 | 3MHz  | 16QAM | 20525 | 1RB#0 | Range4:1000~10000MHz | -44.97 | PASS |
| Band5 | 3MHz  | 16QAM | 20635 | 1RB#0 | Range1:0.009~0.15MHz | -55.13 | PASS |
| Band5 | 3MHz  | 16QAM | 20635 | 1RB#0 | Range2:0.15~30MHz    | -51.46 | PASS |
| Band5 | 3MHz  | 16QAM | 20635 | 1RB#0 | Range3:30~1000MHz    | -41.34 | PASS |
| Band5 | 3MHz  | 16QAM | 20635 | 1RB#0 | Range4:1000~10000MHz | -44.95 | PASS |
| Band5 | 5MHz  | QPSK  | 20425 | 1RB#0 | Range1:0.009~0.15MHz | -54.5  | PASS |
| Band5 | 5MHz  | QPSK  | 20425 | 1RB#0 | Range2:0.15~30MHz    | -51.73 | PASS |
| Band5 | 5MHz  | QPSK  | 20425 | 1RB#0 | Range3:30~1000MHz    | -41.4  | PASS |
| Band5 | 5MHz  | QPSK  | 20425 | 1RB#0 | Range4:1000~10000MHz | -44.95 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -56.08 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 1RB#0 | Range2:0.15~30MHz    | -52.67 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 1RB#0 | Range3:30~1000MHz    | -41.05 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 1RB#0 | Range4:1000~10000MHz | -45.03 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#0 | Range1:0.009~0.15MHz | -54.58 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#0 | Range2:0.15~30MHz    | -51.49 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#0 | Range3:30~1000MHz    | -40.77 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#0 | Range4:1000~10000MHz | -45.02 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#0 | Range1:0.009~0.15MHz | -54.8  | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#0 | Range2:0.15~30MHz    | -52.71 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#0 | Range3:30~1000MHz    | -41.7  | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#0 | Range4:1000~10000MHz | -44.92 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -53.96 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#0 | Range2:0.15~30MHz    | -51.53 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#0 | Range3:30~1000MHz    | -41.23 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#0 | Range4:1000~10000MHz | -45.02 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0 | Range1:0.009~0.15MHz | -55.53 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0 | Range2:0.15~30MHz    | -52.34 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0 | Range3:30~1000MHz    | -41.3  | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0 | Range4:1000~10000MHz | -44.95 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0 | Range1:0.009~0.15MHz | -55.67 | PASS |



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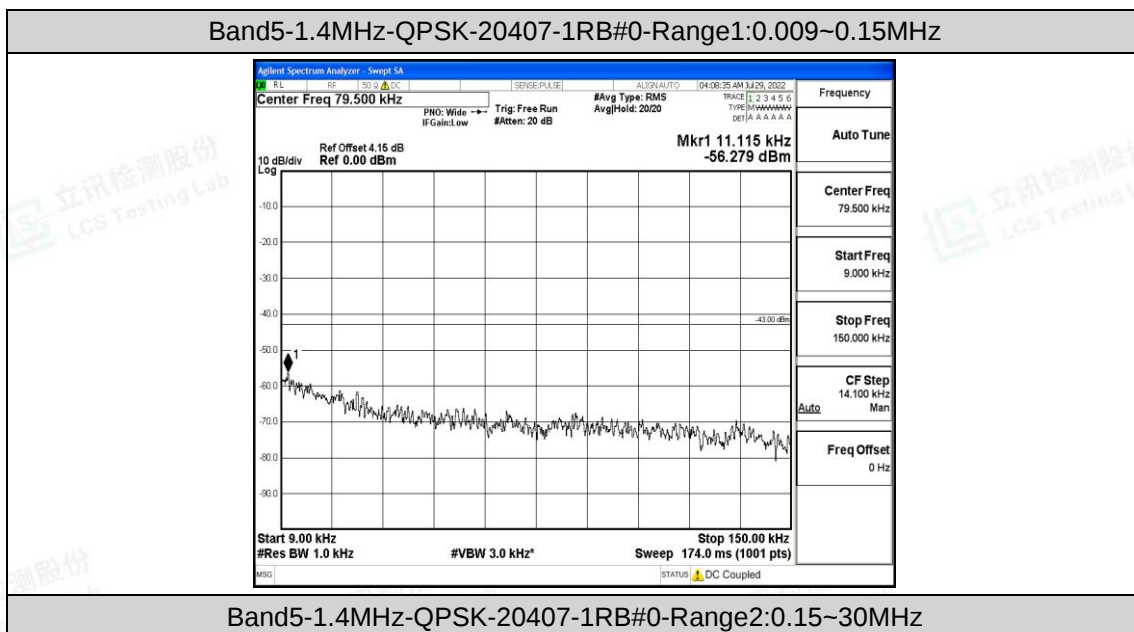
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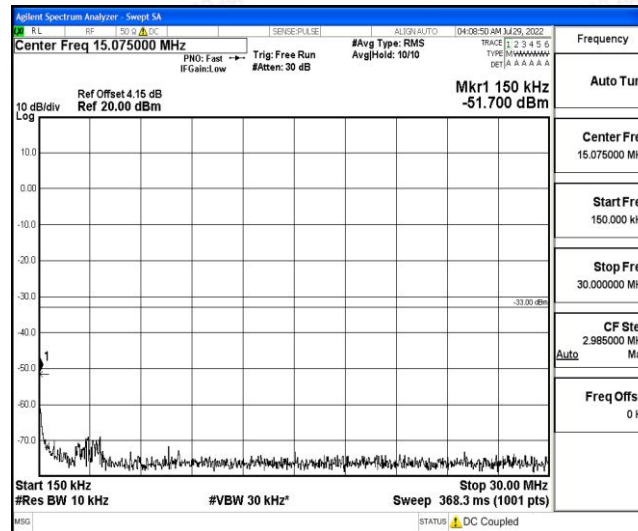
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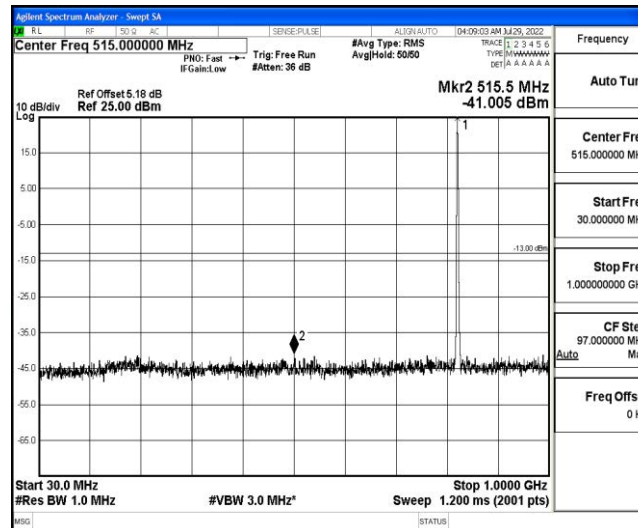
|       |       |       |       |       |                      |        |      |
|-------|-------|-------|-------|-------|----------------------|--------|------|
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0 | Range2:0.15~30MHz    | -52.06 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0 | Range3:30~1000MHz    | -40.96 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0 | Range4:1000~10000MHz | -44.83 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -56.07 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0 | Range2:0.15~30MHz    | -50.89 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0 | Range3:30~1000MHz    | -41.12 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0 | Range4:1000~10000MHz | -44.99 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0 | Range1:0.009~0.15MHz | -56    | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0 | Range2:0.15~30MHz    | -50.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0 | Range3:30~1000MHz    | -40.32 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0 | Range4:1000~10000MHz | -44.96 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | Range1:0.009~0.15MHz | -56.39 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | Range2:0.15~30MHz    | -52.69 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | Range3:30~1000MHz    | -40.22 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | Range4:1000~10000MHz | -44.96 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | Range1:0.009~0.15MHz | -56.32 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | Range2:0.15~30MHz    | -51.13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | Range3:30~1000MHz    | -41.39 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | Range4:1000~10000MHz | -44.96 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | Range1:0.009~0.15MHz | -56.07 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | Range2:0.15~30MHz    | -51.86 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | Range3:30~1000MHz    | -41.18 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | Range4:1000~10000MHz | -44.93 | PASS |

## Test Graphs

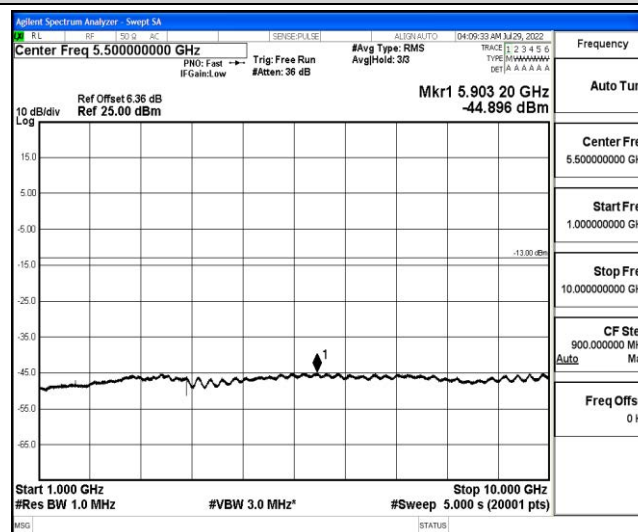




Band5-1.4MHz-QPSK-20407-1RB#0-Range3:30~1000MHz

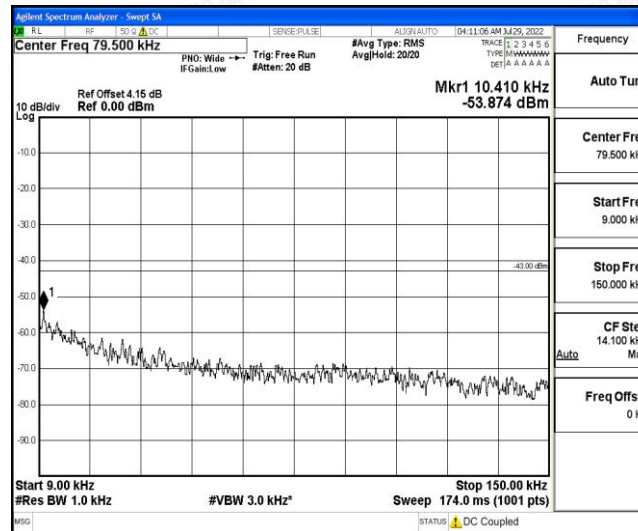


Band5-1.4MHz-QPSK-20407-1RB#0-Range4:1000~10000MHz

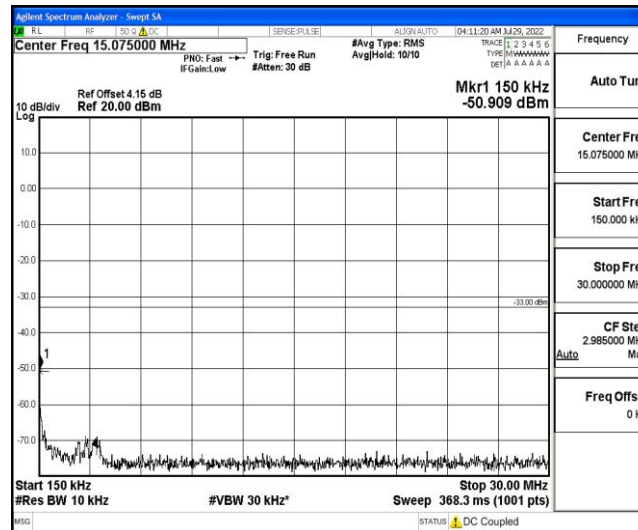


Band5-1.4MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz

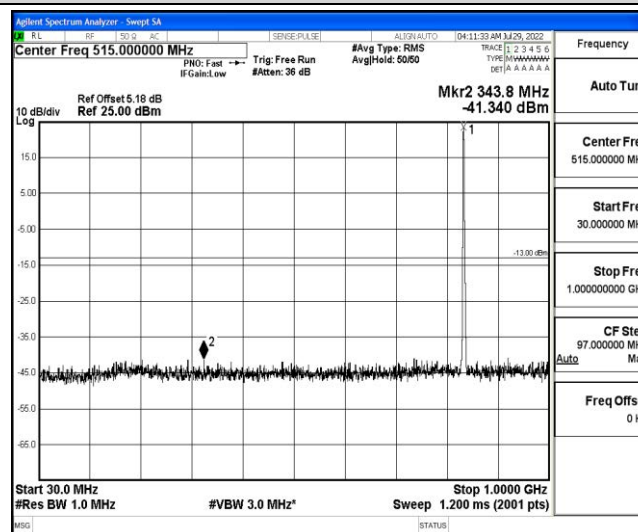




Band5-1.4MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



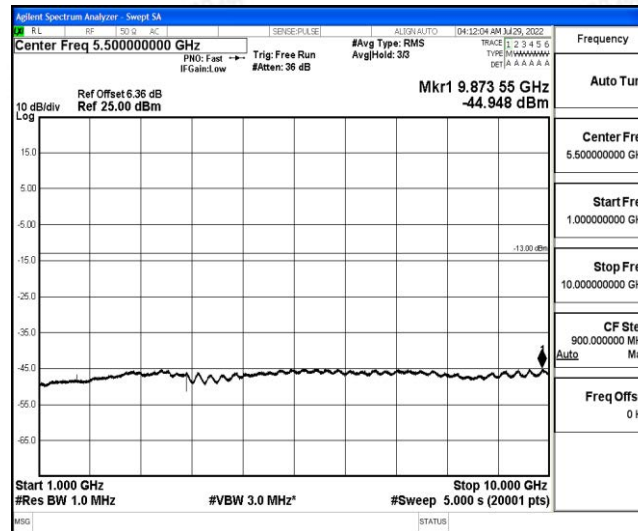
Band5-1.4MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



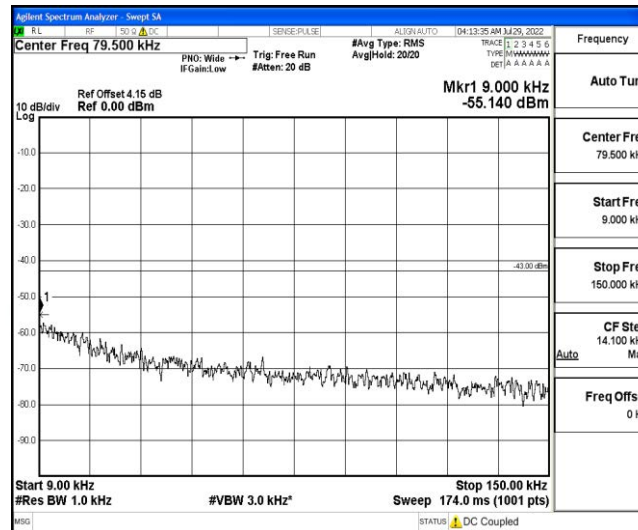
Band5-1.4MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



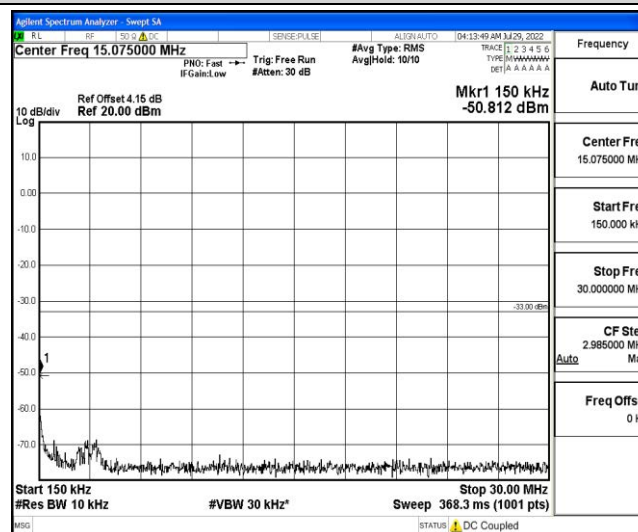
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## Band5-1.4MHz-QPSK-20643-1RB#0-Range1:0.009~0.15MHz



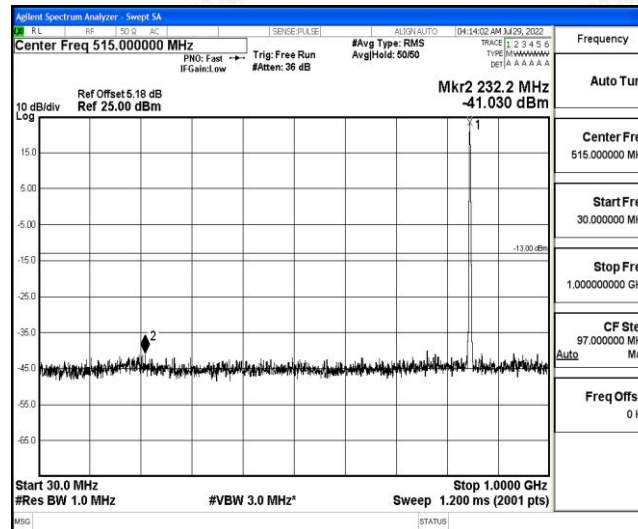
## Band5-1.4MHz-QPSK-20643-1RB#0-Range2:0.15~30MHz



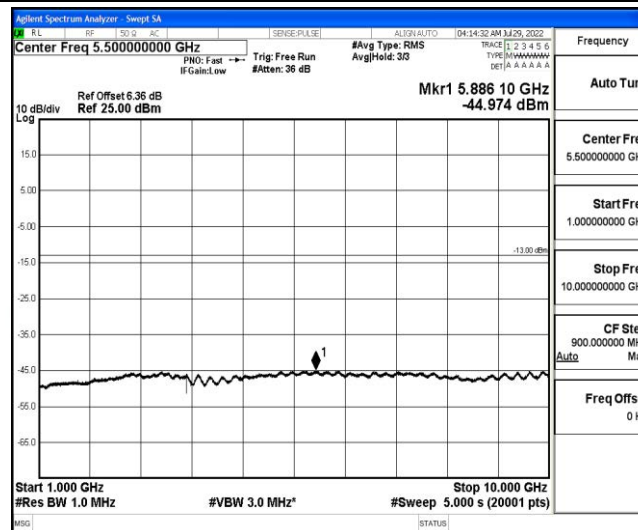
## Band5-1.4MHz-QPSK-20643-1RB#0-Range3:30~1000MHz



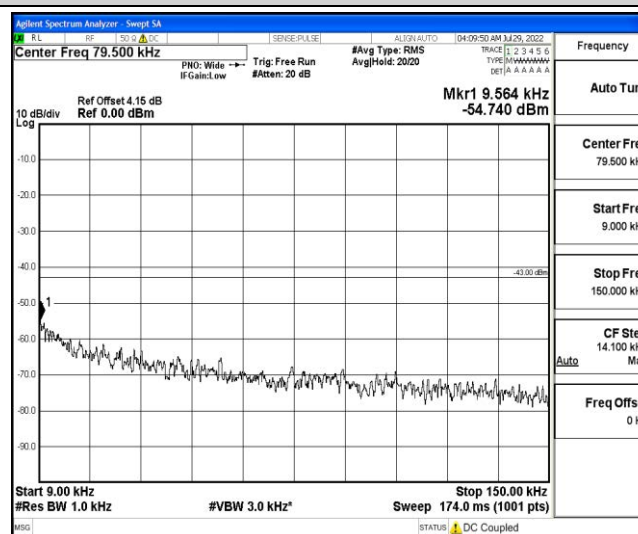
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Band5-1.4MHz-QPSK-20643-1RB#0-Range4:1000~10000MHz



Band5-1.4MHz-16QAM-20407-1RB#0-Range1:0.009~0.15MHz



Band5-1.4MHz-16QAM-20407-1RB#0-Range2:0.15~30MHz

