

# APPENDIX REPORT

|                 |                 |                     |              |
|-----------------|-----------------|---------------------|--------------|
| Project No.     | SHT2207065103EW | Radio Specification | GSM          |
| Test sample No. | YPHT22070651011 | Model No.           | L300         |
| Start test date | 2022/7/27       | Finish date         | 2022/7/27    |
| Temperature     | 25.8℃           | Humidity            | 34%          |
| Test Engineer   | Tiancheng.Huang | Auditor             | Xiaodong Zhu |

| Appendix clause | Test item                              | Result |
|-----------------|----------------------------------------|--------|
| A               | Conducted Output Power                 | PASS   |
| B               | Peak-to-Average Ratio                  | PASS   |
| C               | 26 dB Bandwidth and Occupied Bandwidth | PASS   |
| D               | Band edge                              | PASS   |
| E               | Conducted Spurious Emission            | PASS   |
| F               | Frequency Stability                    | PASS   |
| G               | ERP and EIRP                           | PASS   |

## 8.1 Appendix A: Conducted Output Power

### Test Result

| Band    | Channel | PCL | Power(dBm) | Limit(dBm) | Verdict |
|---------|---------|-----|------------|------------|---------|
| GSM850  | 128     | 5   | 33.25      | 38.5       | PASS    |
| GSM850  | 190     | 5   | 33.20      | 38.5       | PASS    |
| GSM850  | 251     | 5   | 32.75      | 38.5       | PASS    |
| GSM1900 | 512     | 0   | 28.35      | 33         | PASS    |
| GSM1900 | 661     | 0   | 28.13      | 33         | PASS    |
| GSM1900 | 810     | 0   | 27.91      | 33         | PASS    |

| Band     | Channel | PCL | Slot | Power(dBm) | Limit(dBm) | Verdict |
|----------|---------|-----|------|------------|------------|---------|
| GPRS850  | 128     | 5   | 1    | 32.99      | 38.5       | PASS    |
| GPRS850  | 128     | 5   | 2    | 31.20      | 38.5       | PASS    |
| GPRS850  | 128     | 5   | 3    | 29.30      | 38.5       | PASS    |
| GPRS850  | 128     | 5   | 4    | 26.99      | 38.5       | PASS    |
| GPRS850  | 190     | 5   | 1    | 32.70      | 38.5       | PASS    |
| GPRS850  | 190     | 5   | 2    | 31.03      | 38.5       | PASS    |
| GPRS850  | 190     | 5   | 3    | 29.04      | 38.5       | PASS    |
| GPRS850  | 190     | 5   | 4    | 26.76      | 38.5       | PASS    |
| GPRS850  | 251     | 5   | 1    | 32.36      | 38.5       | PASS    |
| GPRS850  | 251     | 5   | 2    | 30.54      | 38.5       | PASS    |
| GPRS850  | 251     | 5   | 3    | 28.55      | 38.5       | PASS    |
| GPRS850  | 251     | 5   | 4    | 26.27      | 38.5       | PASS    |
| GPRS1900 | 512     | 0   | 1    | 28.40      | 33         | PASS    |
| GPRS1900 | 512     | 0   | 2    | 26.70      | 33         | PASS    |
| GPRS1900 | 512     | 0   | 3    | 25.14      | 33         | PASS    |
| GPRS1900 | 512     | 0   | 4    | 22.97      | 33         | PASS    |
| GPRS1900 | 661     | 0   | 1    | 28.00      | 33         | PASS    |
| GPRS1900 | 661     | 0   | 2    | 26.23      | 33         | PASS    |
| GPRS1900 | 661     | 0   | 3    | 24.67      | 33         | PASS    |
| GPRS1900 | 661     | 0   | 4    | 22.53      | 33         | PASS    |
| GPRS1900 | 810     | 0   | 1    | 27.80      | 33         | PASS    |
| GPRS1900 | 810     | 0   | 2    | 25.73      | 33         | PASS    |
| GPRS1900 | 810     | 0   | 3    | 24.11      | 33         | PASS    |
| GPRS1900 | 810     | 0   | 4    | 21.97      | 33         | PASS    |

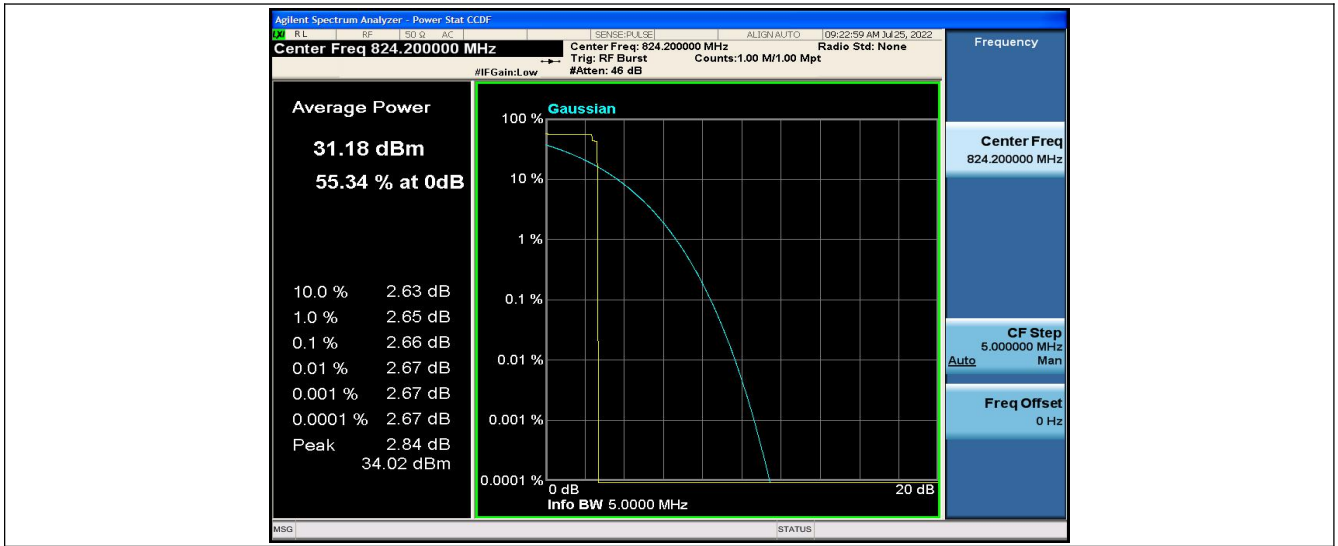
| Band      | Channel | PCL | Slot | Power(dBm) | Limit(dBm) | Verdict |
|-----------|---------|-----|------|------------|------------|---------|
| EGPRS850  | 128     | 8   | 1    | 25.95      | 38.5       | PASS    |
| EGPRS850  | 128     | 8   | 2    | 25.26      | 38.5       | PASS    |
| EGPRS850  | 128     | 8   | 3    | 22.29      | 38.5       | PASS    |
| EGPRS850  | 128     | 8   | 4    | 19.36      | 38.5       | PASS    |
| EGPRS850  | 190     | 8   | 1    | 26.12      | 38.5       | PASS    |
| EGPRS850  | 190     | 8   | 2    | 25.93      | 38.5       | PASS    |
| EGPRS850  | 190     | 8   | 3    | 22.43      | 38.5       | PASS    |
| EGPRS850  | 190     | 8   | 4    | 20.94      | 38.5       | PASS    |
| EGPRS850  | 251     | 8   | 1    | 25.45      | 38.5       | PASS    |
| EGPRS850  | 251     | 8   | 2    | 24.88      | 38.5       | PASS    |
| EGPRS850  | 251     | 8   | 3    | 22.90      | 38.5       | PASS    |
| EGPRS850  | 251     | 8   | 4    | 19.46      | 38.5       | PASS    |
| EGPRS1900 | 512     | 2   | 1    | 25.35      | 33         | PASS    |
| EGPRS1900 | 512     | 2   | 2    | 24.43      | 33         | PASS    |
| EGPRS1900 | 512     | 2   | 3    | 22.45      | 33         | PASS    |
| EGPRS1900 | 512     | 2   | 4    | 18.50      | 33         | PASS    |
| EGPRS1900 | 661     | 2   | 1    | 24.93      | 33         | PASS    |
| EGPRS1900 | 661     | 2   | 2    | 24.22      | 33         | PASS    |
| EGPRS1900 | 661     | 2   | 3    | 22.73      | 33         | PASS    |
| EGPRS1900 | 661     | 2   | 4    | 18.63      | 33         | PASS    |
| EGPRS1900 | 810     | 2   | 1    | 23.93      | 33         | PASS    |
| EGPRS1900 | 810     | 2   | 2    | 23.47      | 33         | PASS    |
| EGPRS1900 | 810     | 2   | 3    | 21.45      | 33         | PASS    |
| EGPRS1900 | 810     | 2   | 4    | 17.37      | 33         | PASS    |

## 8.2 Appendix B: Peak-to-Average Ratio

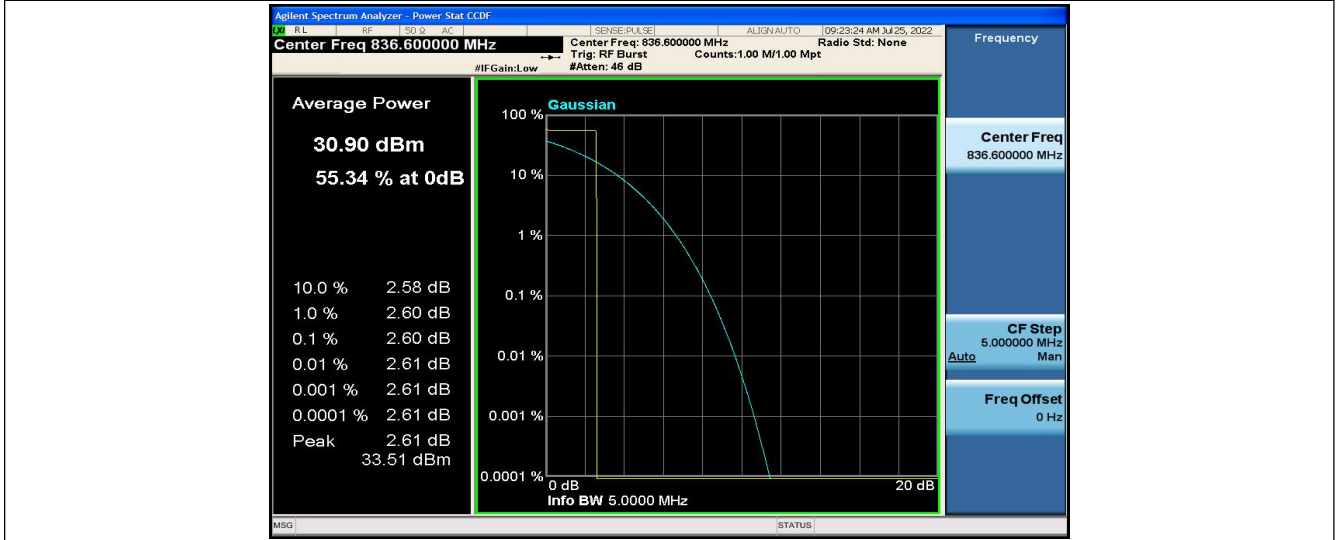
### Test Result

| Band      | Channel | Peak-to-Average Ratio(dB) | Limit(dBm) | Verdict |
|-----------|---------|---------------------------|------------|---------|
| GSM850    | 128     | 2.66                      | 13         | PASS    |
| GSM850    | 190     | 2.60                      | 13         | PASS    |
| GSM850    | 251     | 2.60                      | 13         | PASS    |
| GPRS850   | 128     | 2.62                      | 13         | PASS    |
| GPRS850   | 190     | 2.62                      | 13         | PASS    |
| GPRS850   | 251     | 2.61                      | 13         | PASS    |
| EGPRS850  | 128     | 5.23                      | 13         | PASS    |
| EGPRS850  | 190     | 4.93                      | 13         | PASS    |
| EGPRS850  | 251     | 5.09                      | 13         | PASS    |
| GSM1900   | 512     | 2.66                      | 13         | PASS    |
| GSM1900   | 661     | 2.66                      | 13         | PASS    |
| GSM1900   | 810     | 2.65                      | 13         | PASS    |
| GPRS1900  | 512     | 2.67                      | 13         | PASS    |
| GPRS1900  | 661     | 2.66                      | 13         | PASS    |
| GPRS1900  | 810     | 2.65                      | 13         | PASS    |
| EGPRS1900 | 512     | 5.03                      | 13         | PASS    |
| EGPRS1900 | 661     | 4.99                      | 13         | PASS    |
| EGPRS1900 | 810     | 5.08                      | 13         | PASS    |

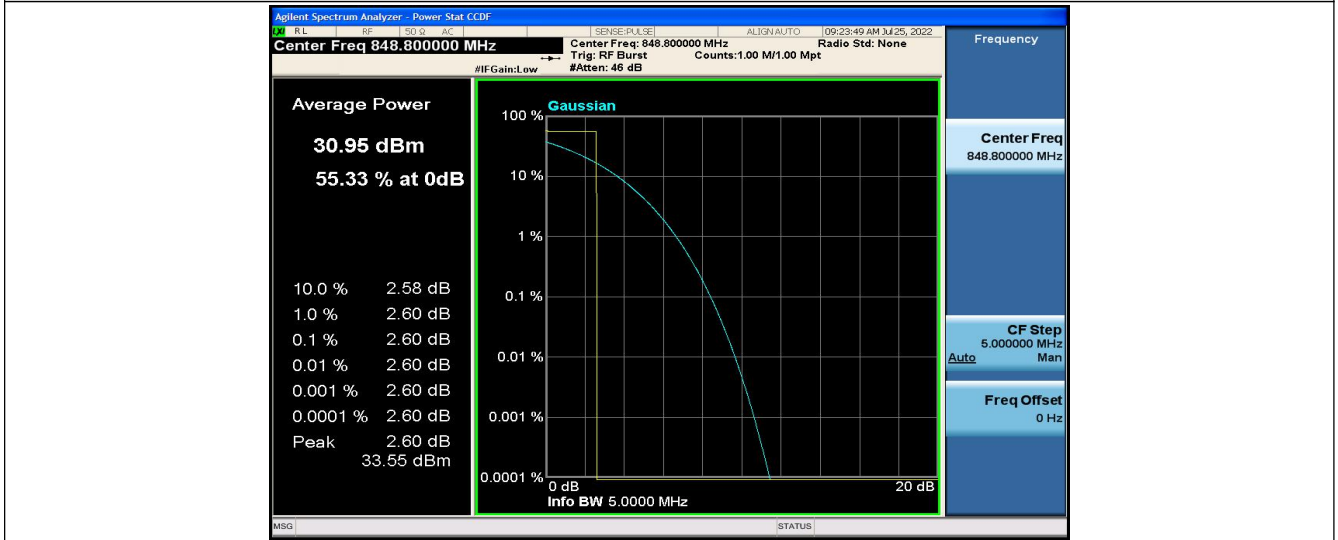
Test Graphs



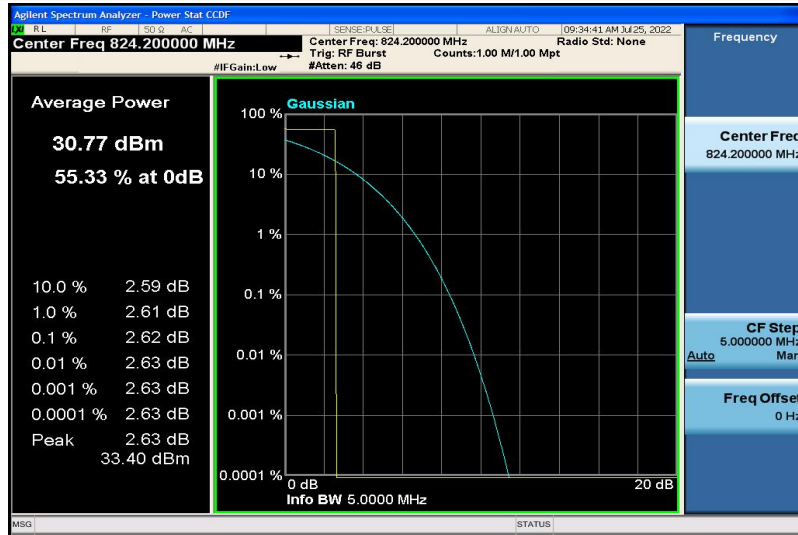
GSM850-128



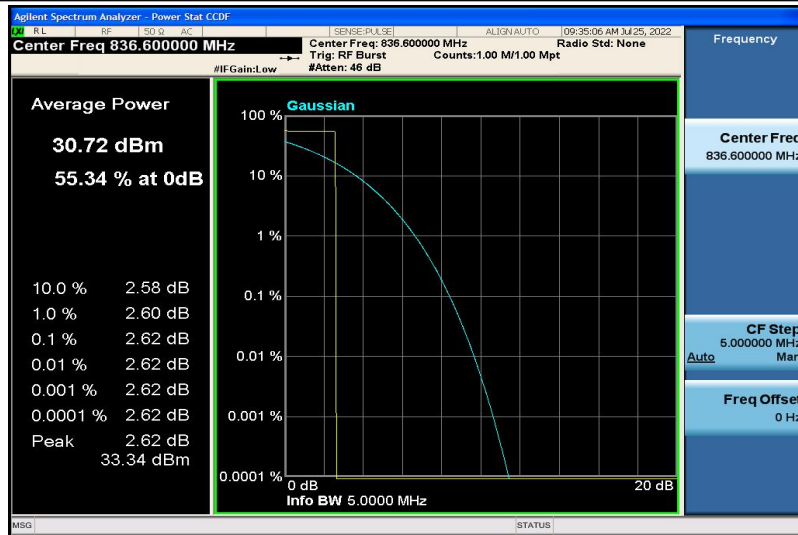
GSM850-190



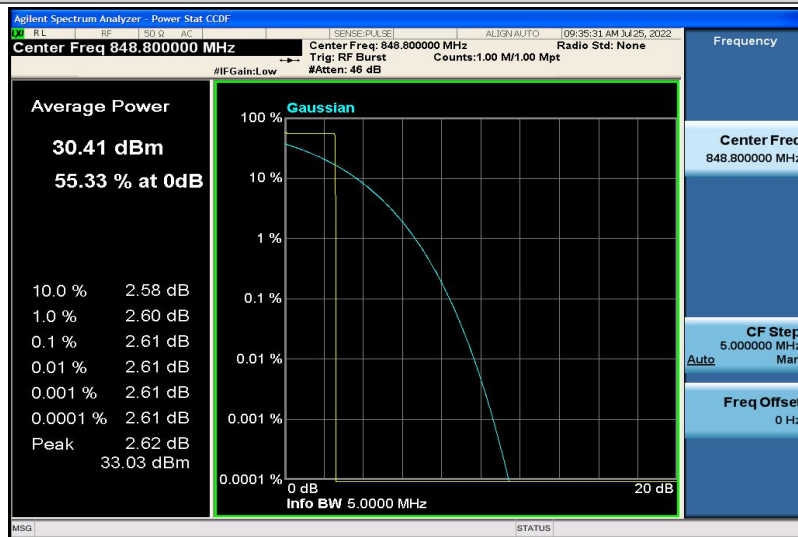
GSM850-251



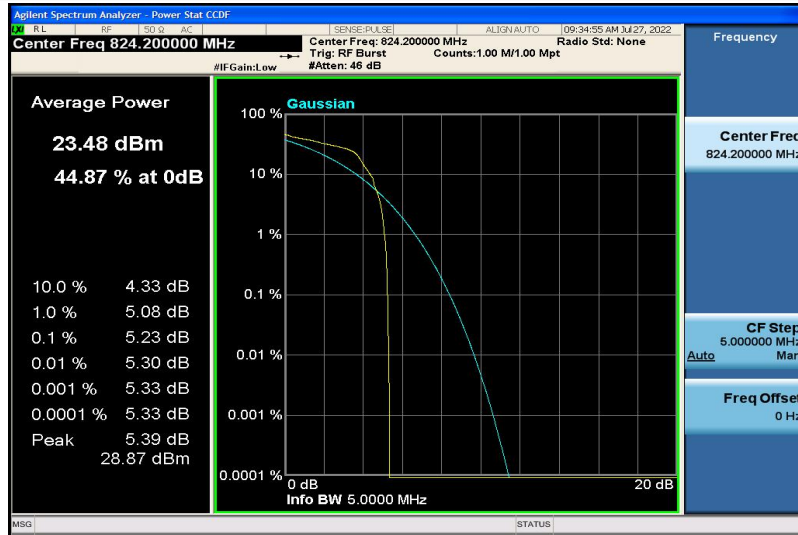
GPRS850-128



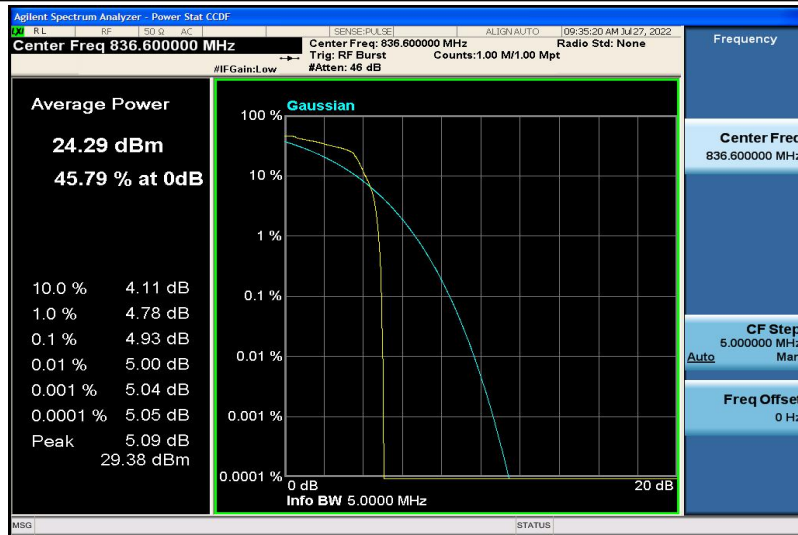
GPRS850-190



GPRS850-251



EGPRS850-128

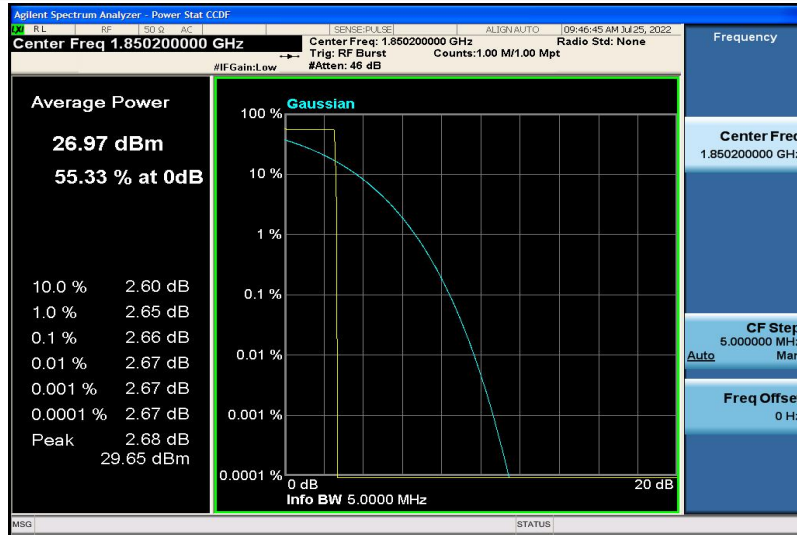


EGPRS850-190

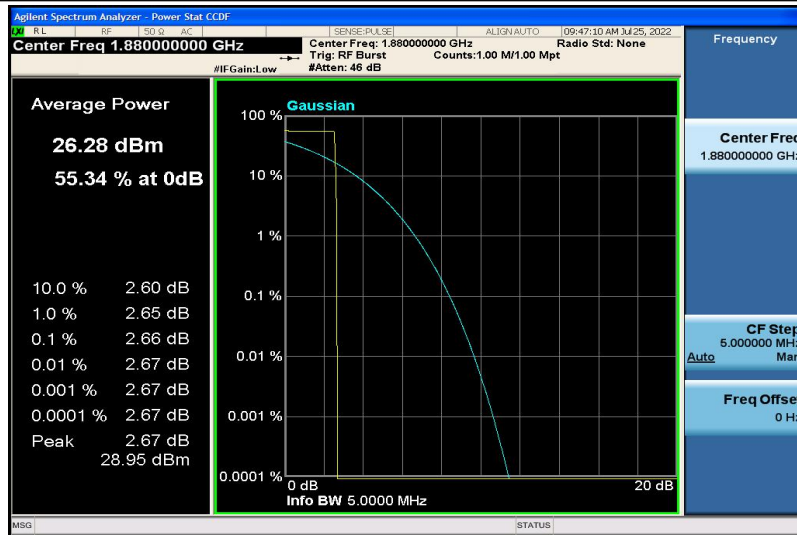


EGPRS850-251

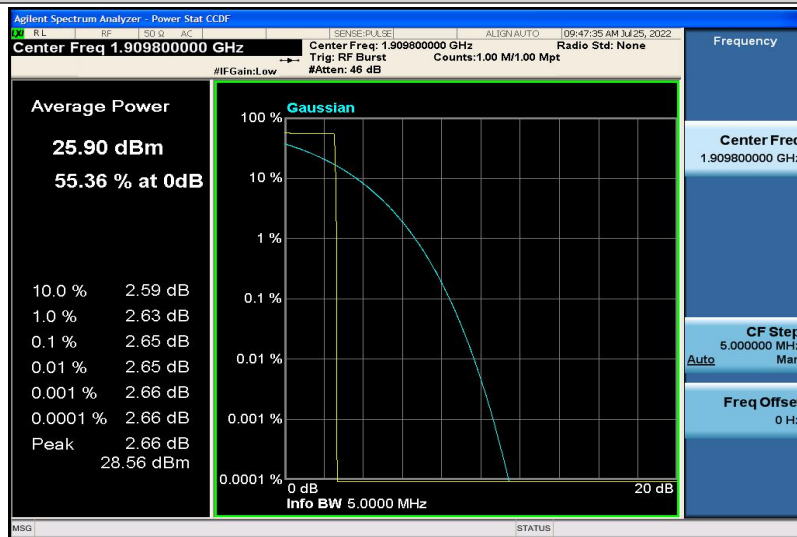




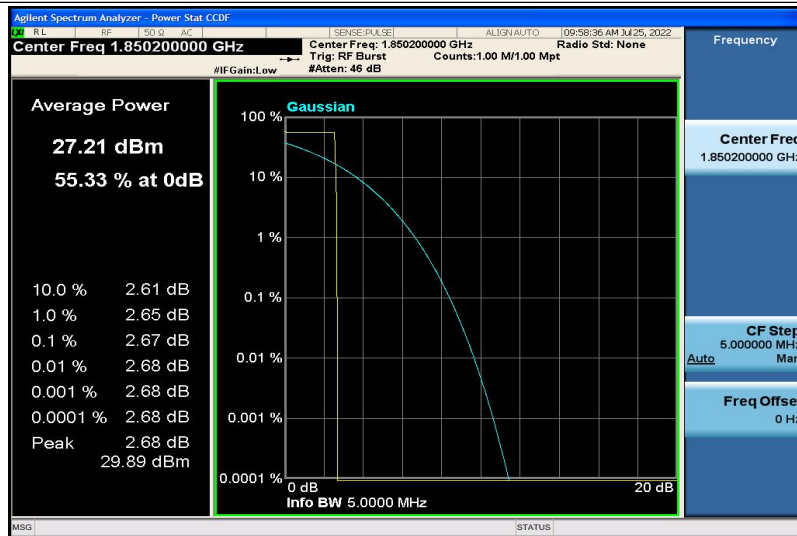
GSM1900-512



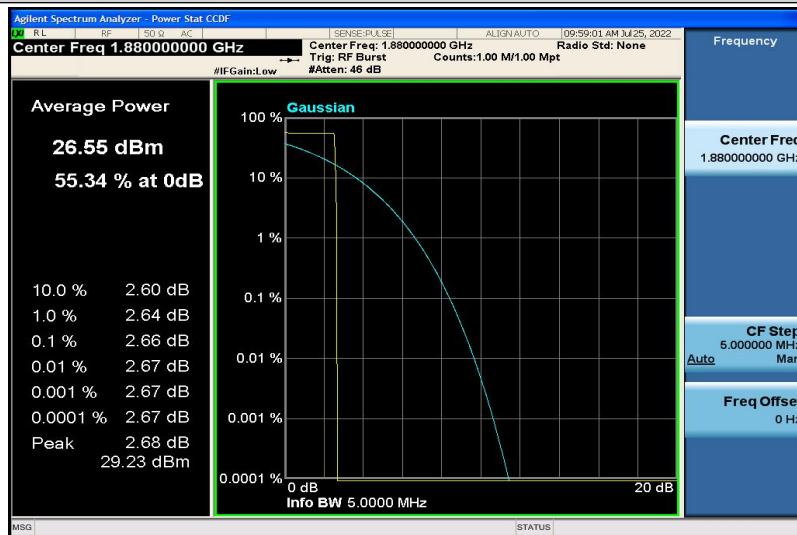
GSM1900-661



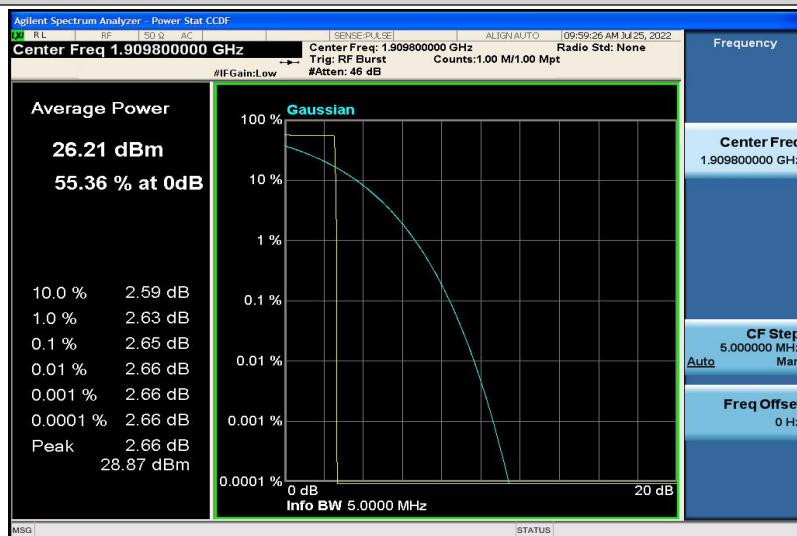
GSM1900-810



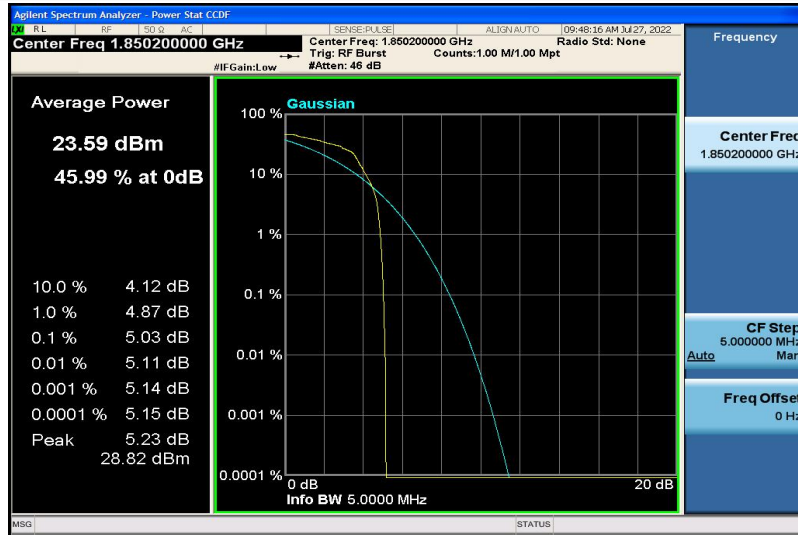
GPRS1900-512



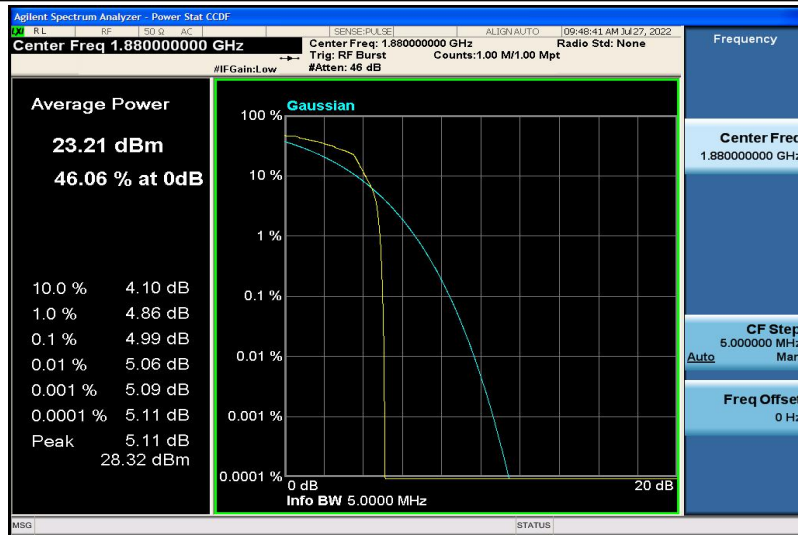
GPRS1900-661



GPRS1900-810



EGPRS1900-512



EGPRS1900-661



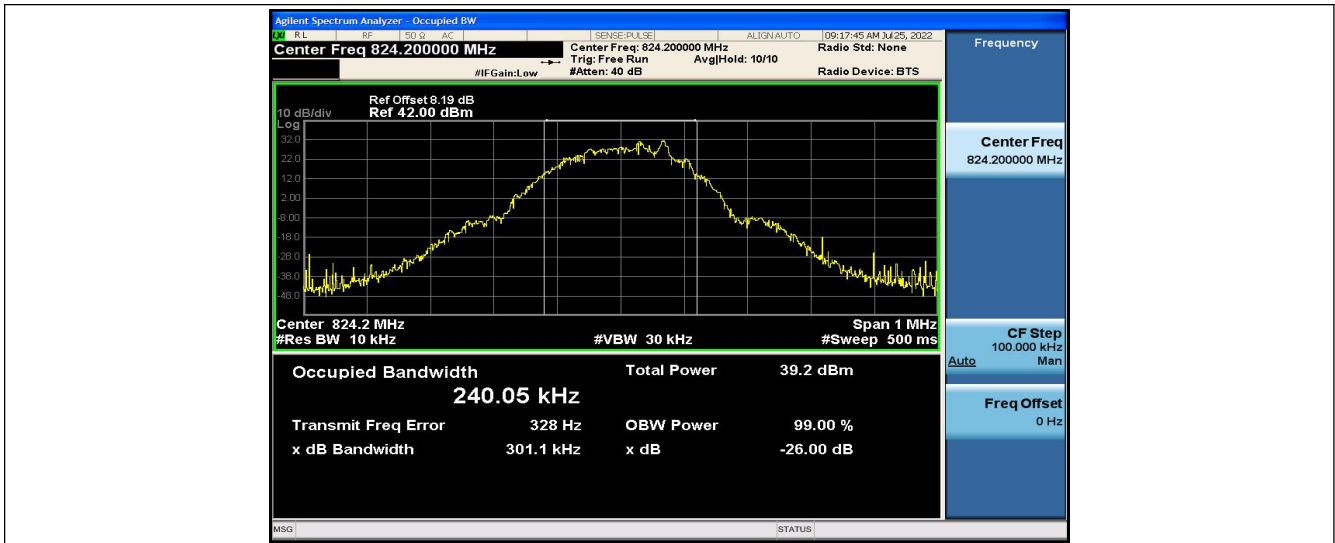
EGPRS1900-810

### 8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

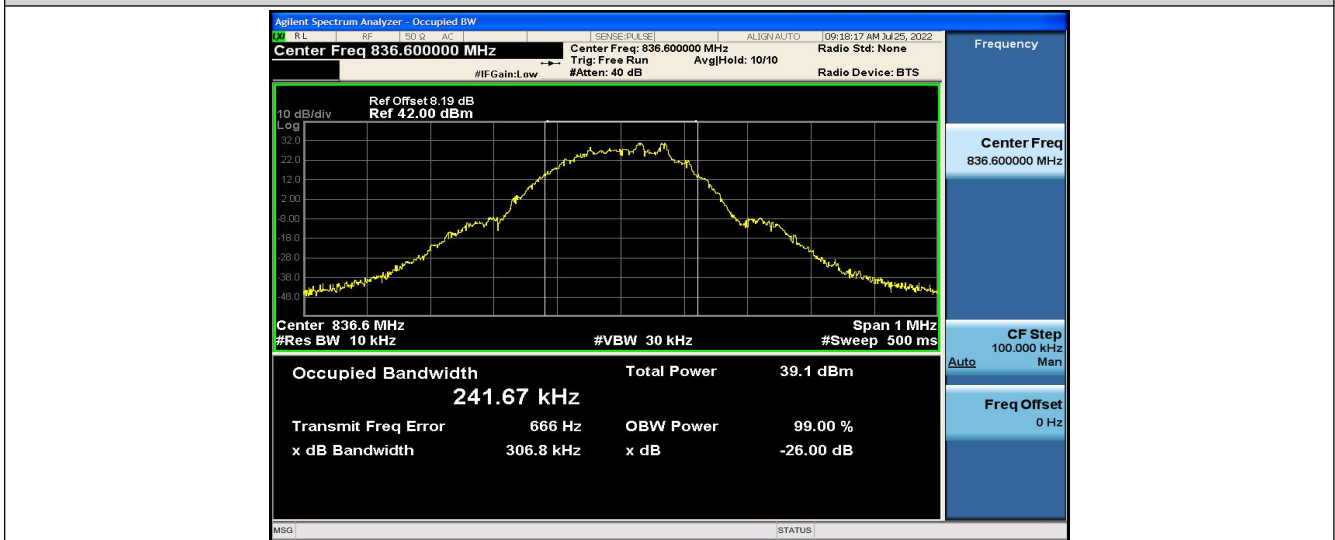
#### Test Result

| Band      | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-----------|---------|--------------------------|----------------------|------------|---------|
| GSM850    | 128     | 240.05                   | 301.1                | ---        | PASS    |
| GSM850    | 190     | 241.67                   | 306.8                | ---        | PASS    |
| GSM850    | 251     | 241.39                   | 304.4                | ---        | PASS    |
| GPRS850   | 128     | 243.20                   | 312.2                | ---        | PASS    |
| GPRS850   | 190     | 245.68                   | 319.7                | ---        | PASS    |
| GPRS850   | 251     | 246.77                   | 317.5                | ---        | PASS    |
| EGPRS850  | 128     | 248.57                   | 319.0                | ---        | PASS    |
| EGPRS850  | 190     | 257.00                   | 321.3                | ---        | PASS    |
| EGPRS850  | 251     | 251.47                   | 322.1                | ---        | PASS    |
| GSM1900   | 512     | 241.56                   | 302.8                | ---        | PASS    |
| GSM1900   | 661     | 242.02                   | 305.1                | ---        | PASS    |
| GSM1900   | 810     | 240.35                   | 304.8                | ---        | PASS    |
| GPRS1900  | 512     | 244.57                   | 318.0                | ---        | PASS    |
| GPRS1900  | 661     | 244.27                   | 318.5                | ---        | PASS    |
| GPRS1900  | 810     | 244.28                   | 310.5                | ---        | PASS    |
| EGPRS1900 | 512     | 256.48                   | 323.0                | ---        | PASS    |
| EGPRS1900 | 661     | 255.63                   | 321.0                | ---        | PASS    |
| EGPRS1900 | 810     | 255.19                   | 326.4                | ---        | PASS    |

Test Graphs



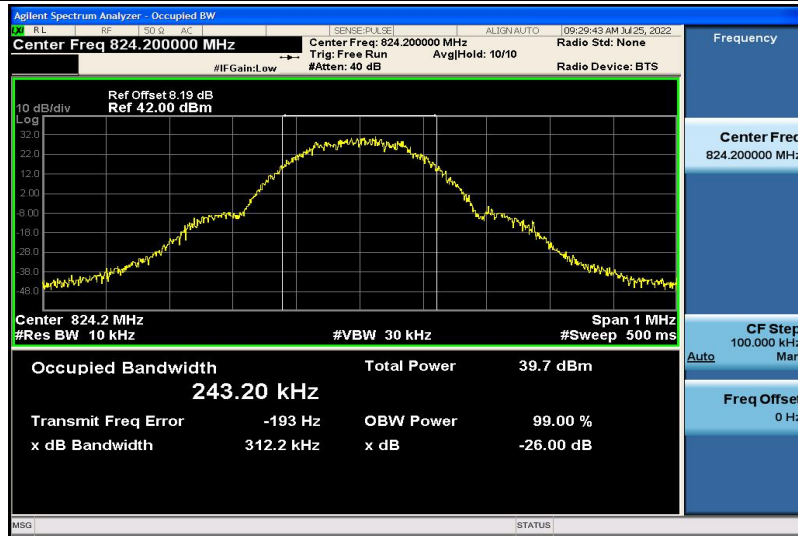
GSM850-128



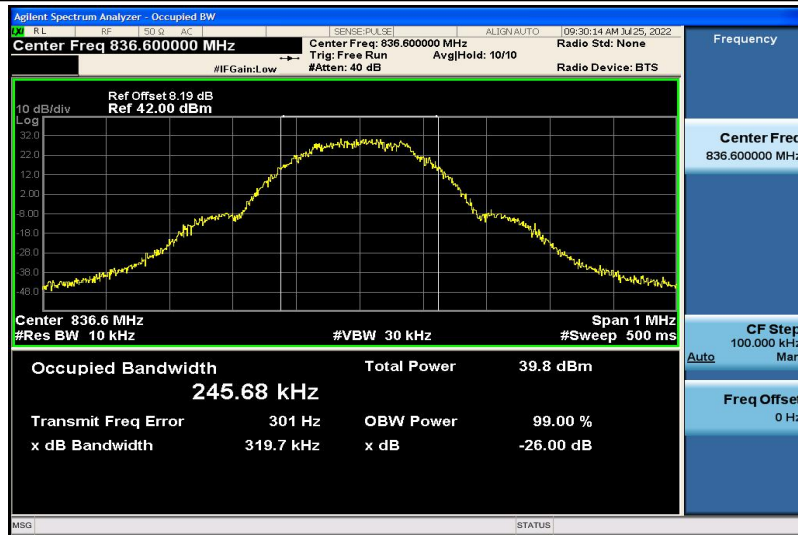
GSM850-190



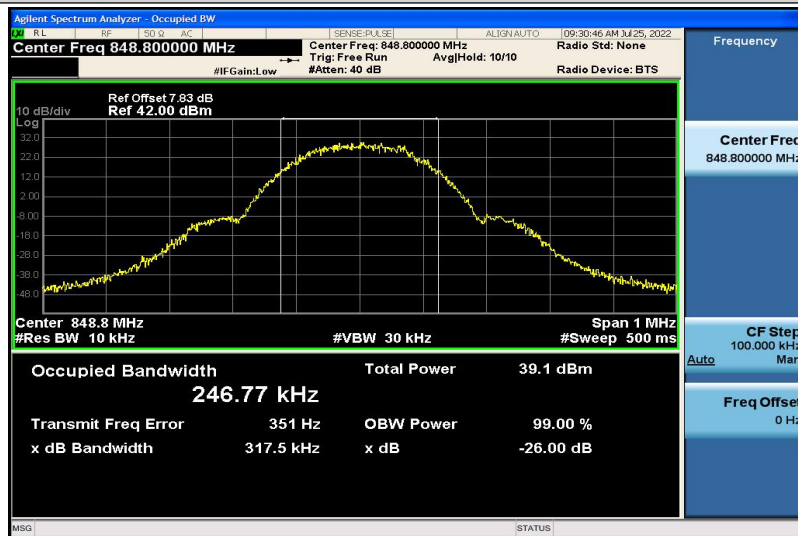
GSM850-251



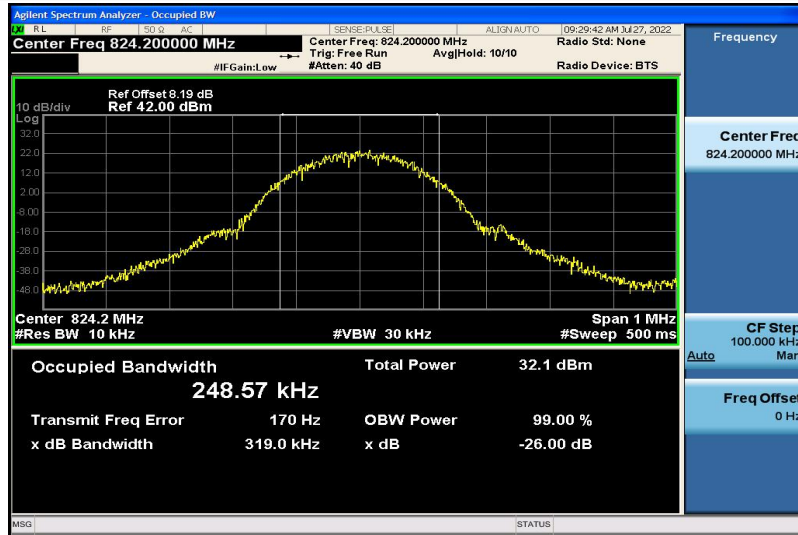
GPRS850-128



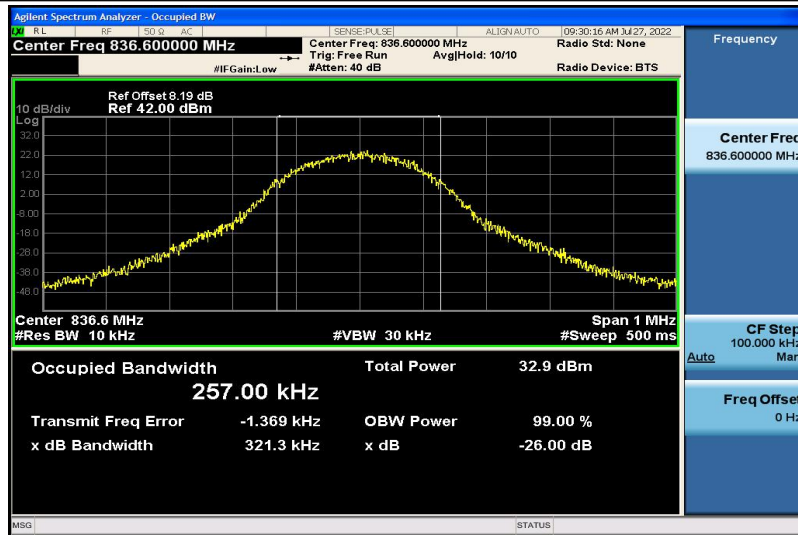
GPRS850-190



GPRS850-251



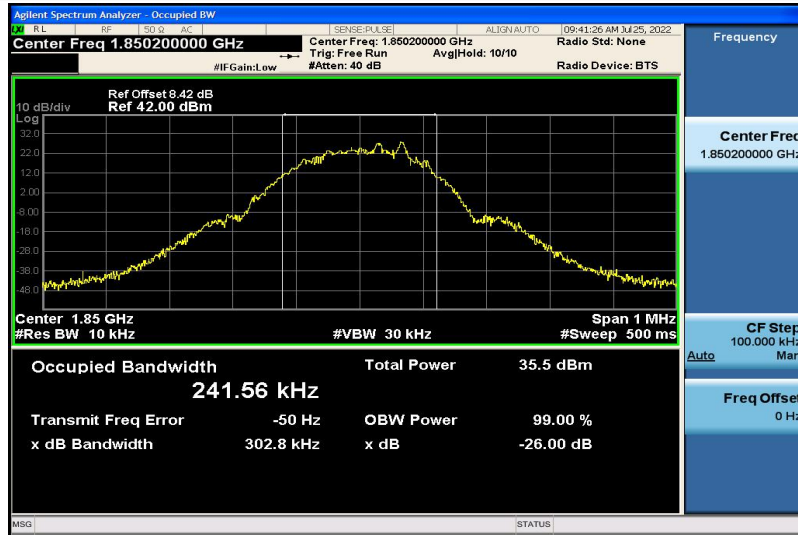
EGPRS850-128



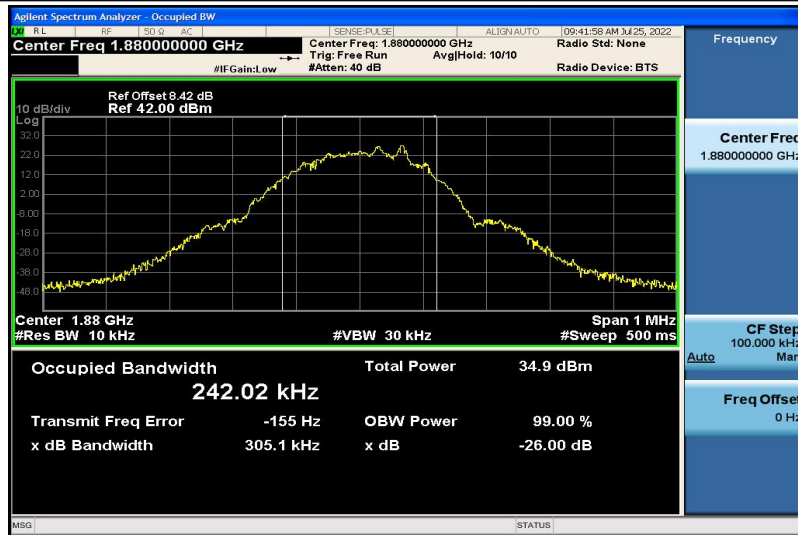
EGPRS850-190



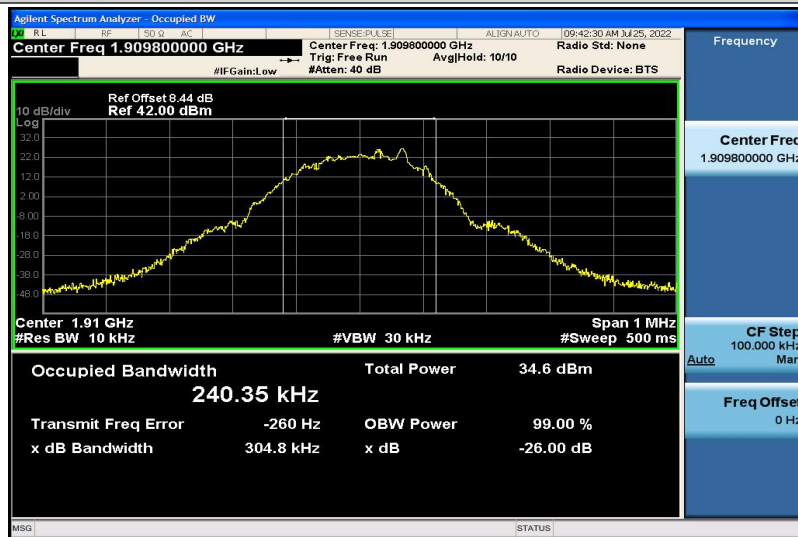
EGPRS850-251



GSM1900-512

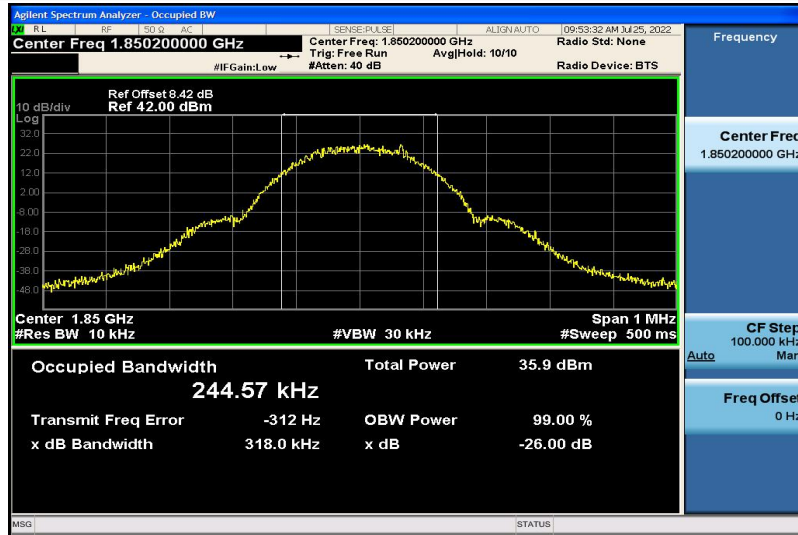


GSM1900-661

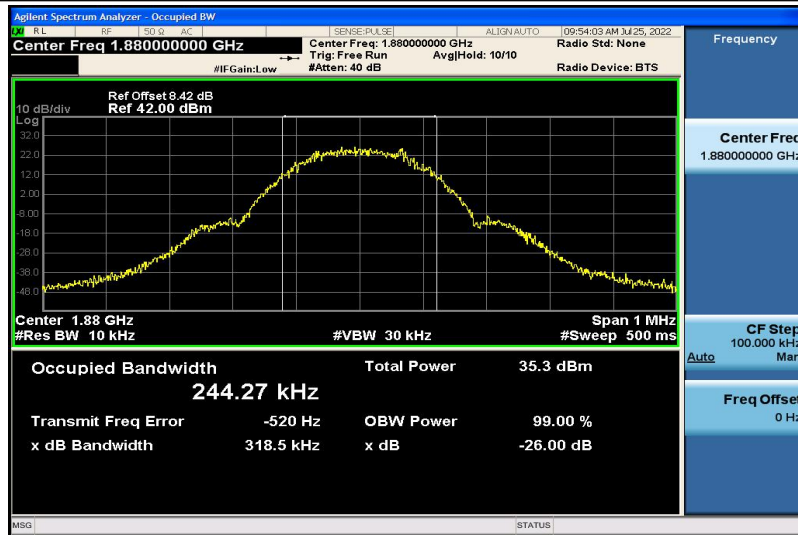


GSM1900-810

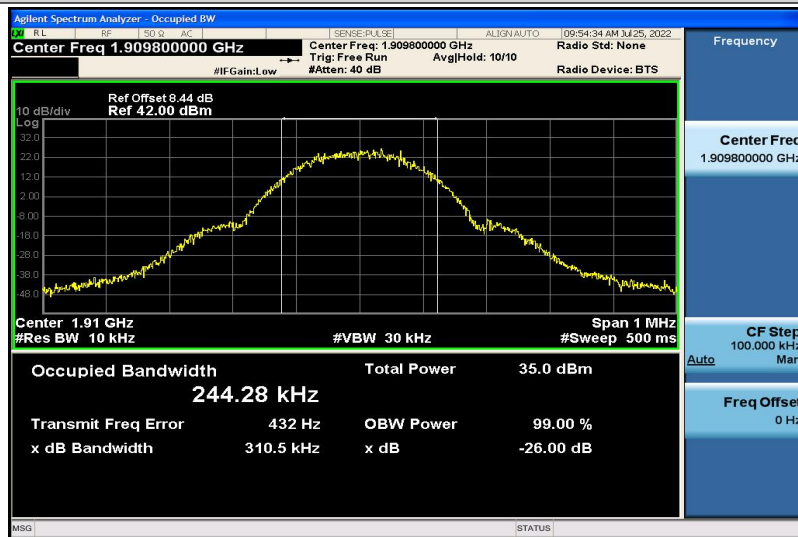




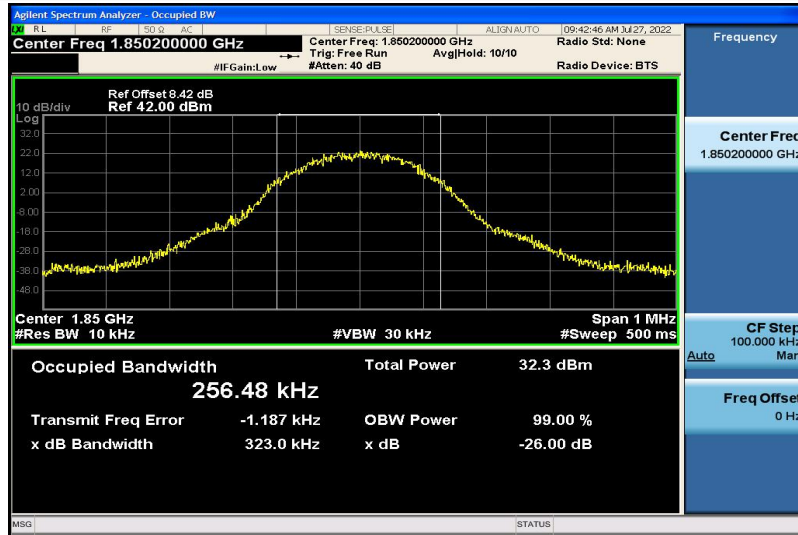
GPRS1900-512



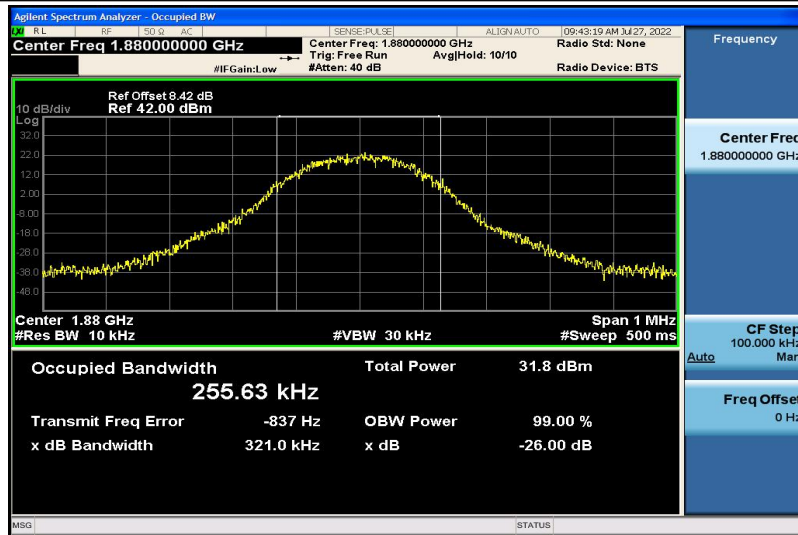
GPRS1900-661



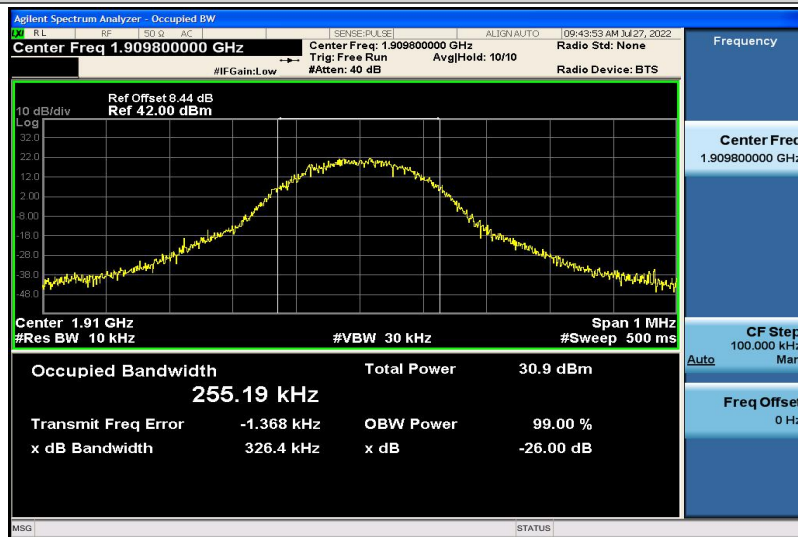
GPRS1900-810



EGPRS1900-512



EGPRS1900-661



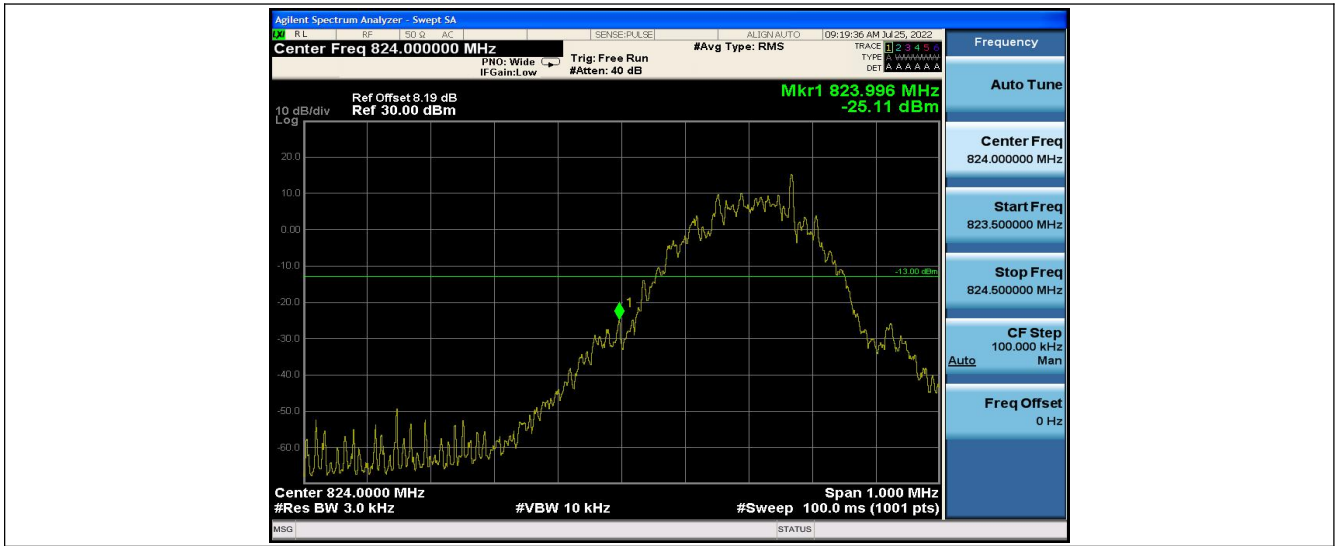
EGPRS1900-810

## 8.4 Appendix D: Band Edge

### Test Result

| Band      | Channel | Value(dBm) | Limit(dBm) | Verdict |
|-----------|---------|------------|------------|---------|
| GSM850    | 128     | -25.11     | -13        | PASS    |
| GSM850    | 251     | -26.62     | -13        | PASS    |
| GPRS850   | 128     | -27.43     | -13        | PASS    |
| GPRS850   | 251     | -26.20     | -13        | PASS    |
| EGPRS850  | 128     | -37.31     | -13        | PASS    |
| EGPRS850  | 251     | -36.37     | -13        | PASS    |
| GSM1900   | 512     | -28.39     | -13        | PASS    |
| GSM1900   | 810     | -29.90     | -13        | PASS    |
| GPRS1900  | 512     | -29.06     | -13        | PASS    |
| GPRS1900  | 810     | -31.12     | -13        | PASS    |
| EGPRS1900 | 512     | -32.66     | -13        | PASS    |
| EGPRS1900 | 810     | -36.02     | -13        | PASS    |

Test Graphs



GSM850-128



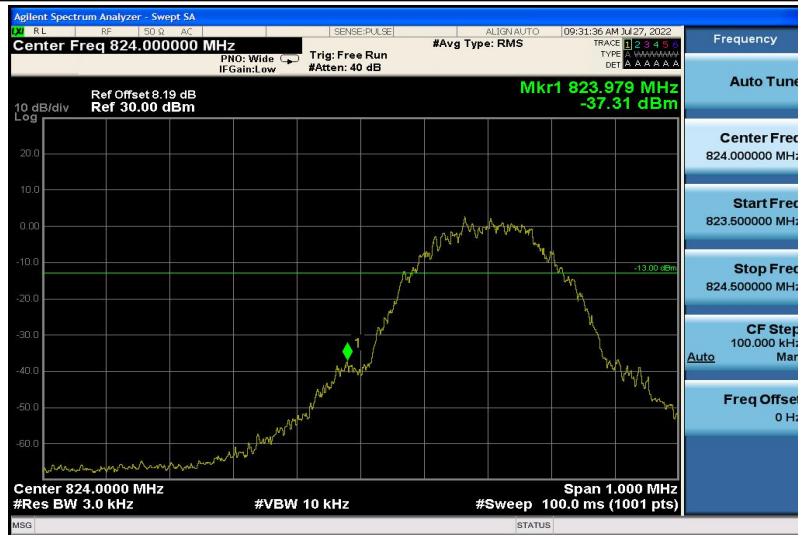
GSM850-251



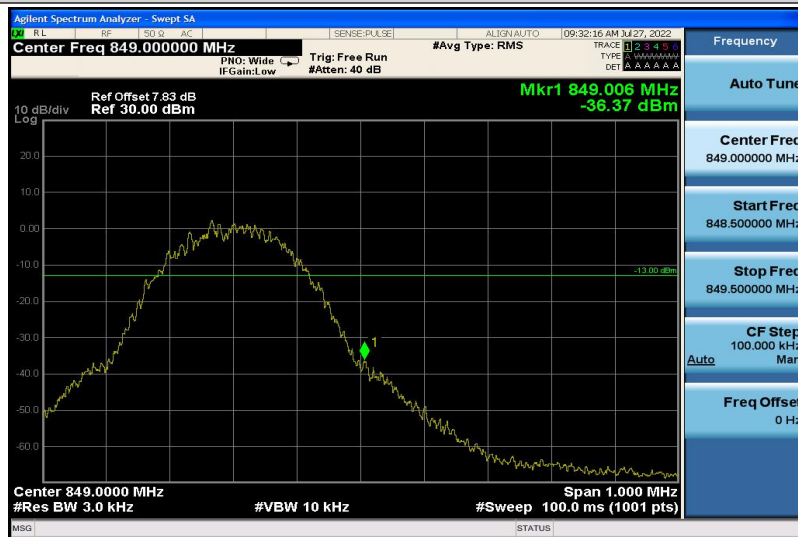
GPRS850-128



GPRS850-251



EGPRS850-128



EGPRS850-251



GSM1900-512



GSM1900-810



GPRS1900-512