



## Appendix E: Test Data for NB1 Band 12

Product Name: HC7 NB-IoT Sensor

Test Model: HC7

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.5 ° C  |
| Relative Humidity: | 52.3%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jerry Chu |
| Supervised by:     | Can Kun   |





## E.1 Conducted Output Power Data for NB1

### Test Result

| Band   | OpMode      | SCS     | BW  | Modu | Channel | Tones | Result (dBm) | Limit (dBm)  | Verdict |
|--------|-------------|---------|-----|------|---------|-------|--------------|--------------|---------|
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23011   | 1@0   | 23.62        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23011   | 1@47  | 23.60        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23095   | 1@0   | 23.65        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23095   | 1@47  | 23.66        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23179   | 1@0   | 23.75        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23179   | 1@47  | 23.78        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@0   | 23.53        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@47  | 23.62        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@0   | 23.69        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@47  | 23.70        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@0   | 23.80        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@47  | 23.67        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23011   | 1@0   | 22.87        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23011   | 1@11  | 22.90        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23011   | 3@3   | 22.70        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23095   | 1@0   | 22.90        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23095   | 1@11  | 22.92        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23095   | 3@3   | 22.69        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23179   | 1@0   | 23.02        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23179   | 1@11  | 23.04        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23179   | 3@3   | 22.78        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23011   | 1@0   | 23.03        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23011   | 1@11  | 23.04        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23011   | 3@3   | 22.71        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23095   | 1@0   | 23.04        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23095   | 1@11  | 23.03        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23095   | 3@3   | 22.68        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23179   | 1@0   | 23.15        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23179   | 1@11  | 23.14        | -999 To 34.8 | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23179   | 3@3   | 22.77        | -999 To 34.8 | PASS    |



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## E.2 Peak-to-Average Ratio(CCDF) for NB1

### Test Result

| Band   | OpMode      | SCS     | BW  | Modu | Channel | Tones | Result (dBm) | Limit (dBm) | Verdict |
|--------|-------------|---------|-----|------|---------|-------|--------------|-------------|---------|
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23095   | 1@0   | 2.17         | <=13        | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23095   | 1@47  | 8.38         | <=13        | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@0   | 8.43         | <=13        | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@47  | 8.37         | <=13        | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23095   | 1@0   | 3.41         | <=13        | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23095   | 1@11  | 3.27         | <=13        | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23095   | 3@3   | 10.96        | <=13        | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23095   | 1@0   | 6.38         | <=13        | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23095   | 1@11  | 6.92         | <=13        | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23095   | 3@3   | 8.41         | <=13        | PASS    |



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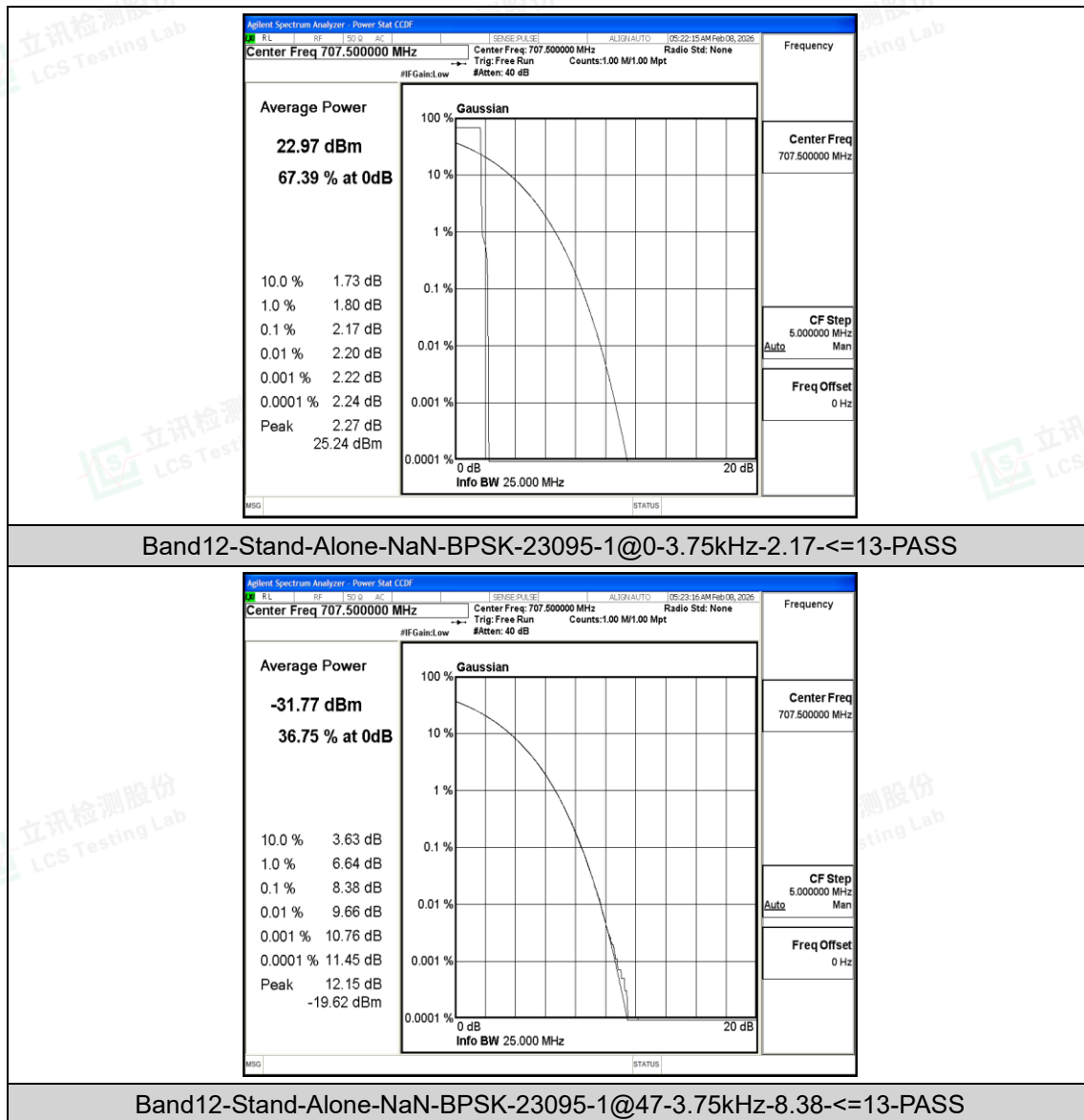
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## Test Graphs

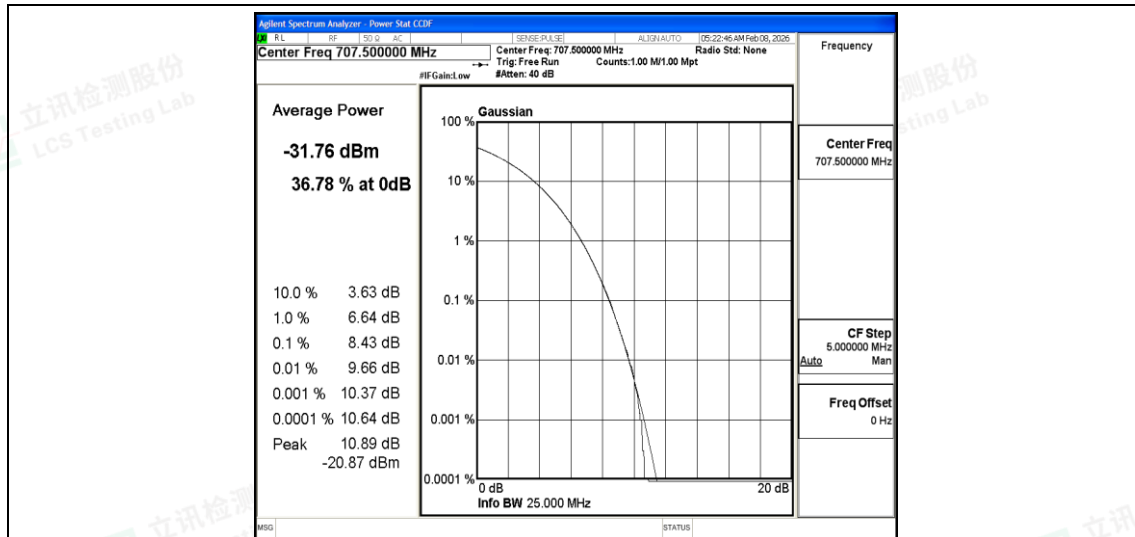


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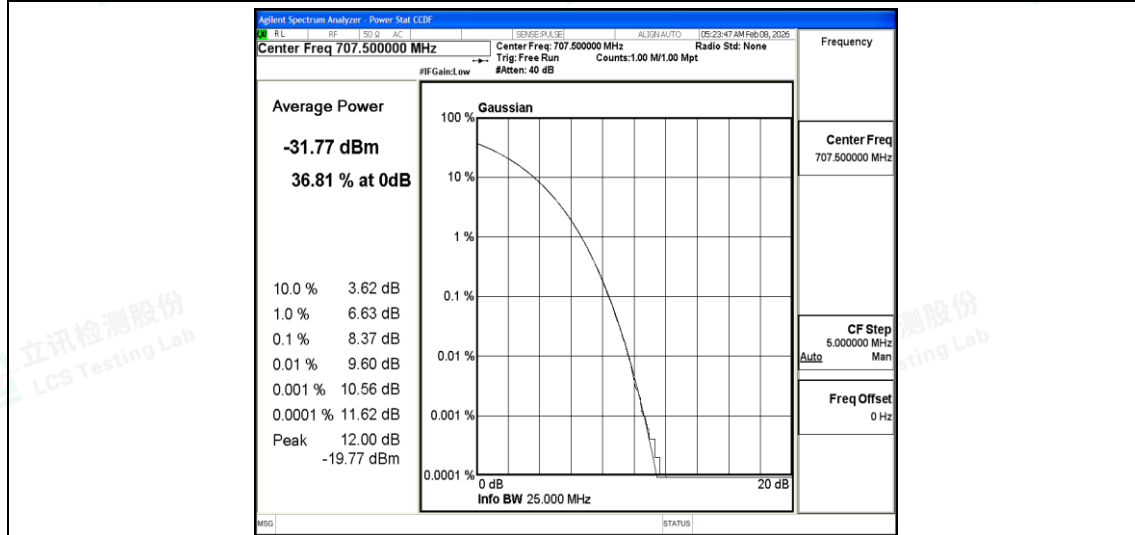
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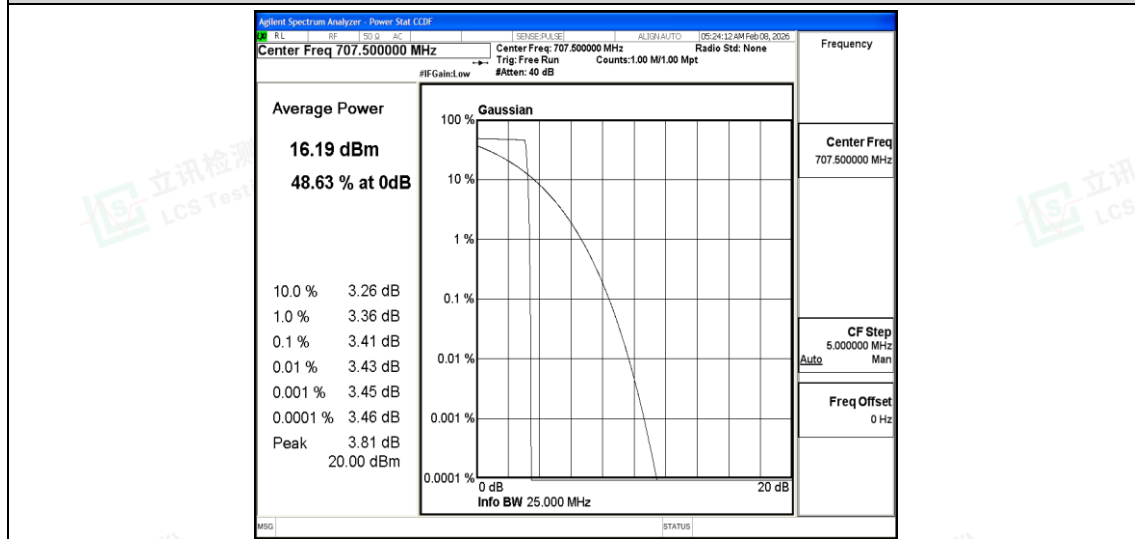
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## Band12-Stand-Alone-NaN-QPSK-23095-1@0-3.75kHz-8.43-&lt;=13-PASS



## Band12-Stand-Alone-NaN-QPSK-23095-1@47-3.75kHz-8.37-&lt;=13-PASS



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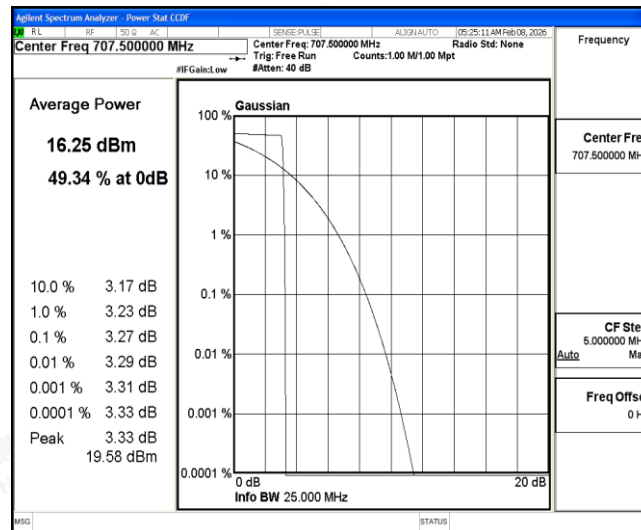
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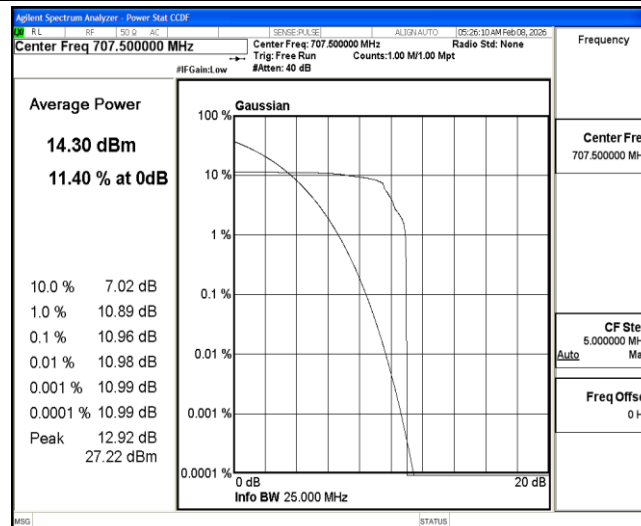
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## Band12-Stand-Alone-NaN-BPSK-23095-1@0-15kHz-3.41-&lt;=13-PASS



## Band12-Stand-Alone-NaN-BPSK-23095-1@11-15kHz-3.27-&lt;=13-PASS



## Band12-Stand-Alone-NaN-BPSK-23095-3@3-15kHz-10.96-&lt;=13-PASS



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Band12-Stand-Alone-NaN-QPSK-23095-3@3-15kHz-8.41-<=13-PASS





### E.3 Emission Bandwidth for NB1

#### Test Result

| Band   | OpMode      | SCS     | BW  | Modu | Channel | Tones | Emission Bandwidth (KHz) | 99% Bandwidth (KHz) | Verdict |
|--------|-------------|---------|-----|------|---------|-------|--------------------------|---------------------|---------|
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23011   | 1@0   | 70.72                    | 111.79              | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23095   | 1@0   | 71.47                    | 113.59              | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23179   | 1@0   | 70.24                    | 112.02              | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@0   | 68.34                    | 111.66              | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@0   | 68.54                    | 112.55              | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@0   | 68.05                    | 111.85              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23011   | 1@0   | 113.40                   | 104.21              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23011   | 12@0  | 233.60                   | 178.43              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23095   | 1@0   | 113.10                   | 100.96              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23095   | 12@0  | 235.20                   | 176.64              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23179   | 1@0   | 112.90                   | 101.11              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23179   | 12@0  | 218.70                   | 176.87              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23011   | 1@0   | 158.00                   | 132.56              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23011   | 12@0  | 230.00                   | 179.18              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23095   | 1@0   | 156.30                   | 129.46              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23095   | 12@0  | 222.50                   | 177.42              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23179   | 1@0   | 158.10                   | 129.80              | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23179   | 12@0  | 219.90                   | 178.73              | PASS    |



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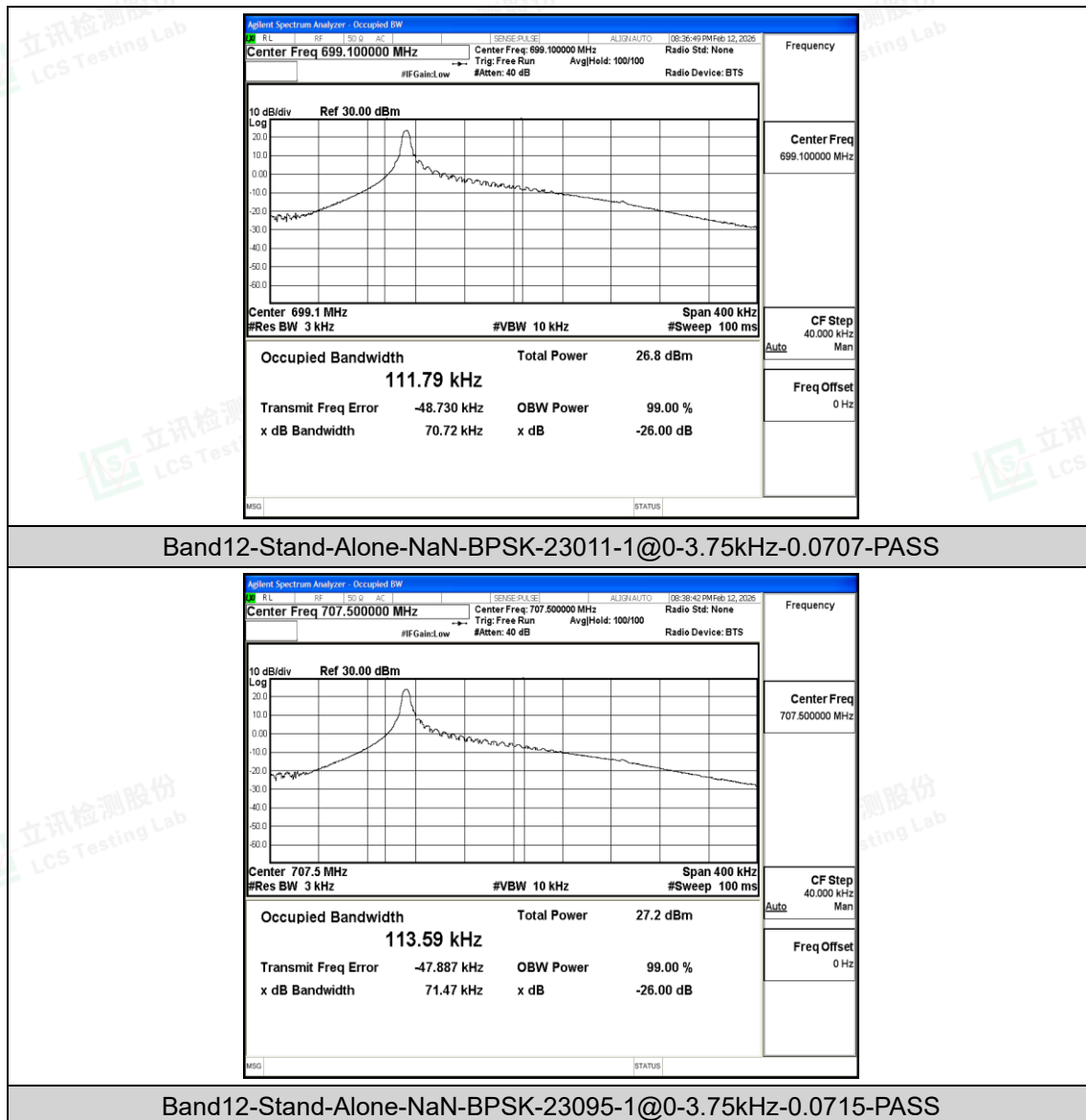
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## Test Graphs

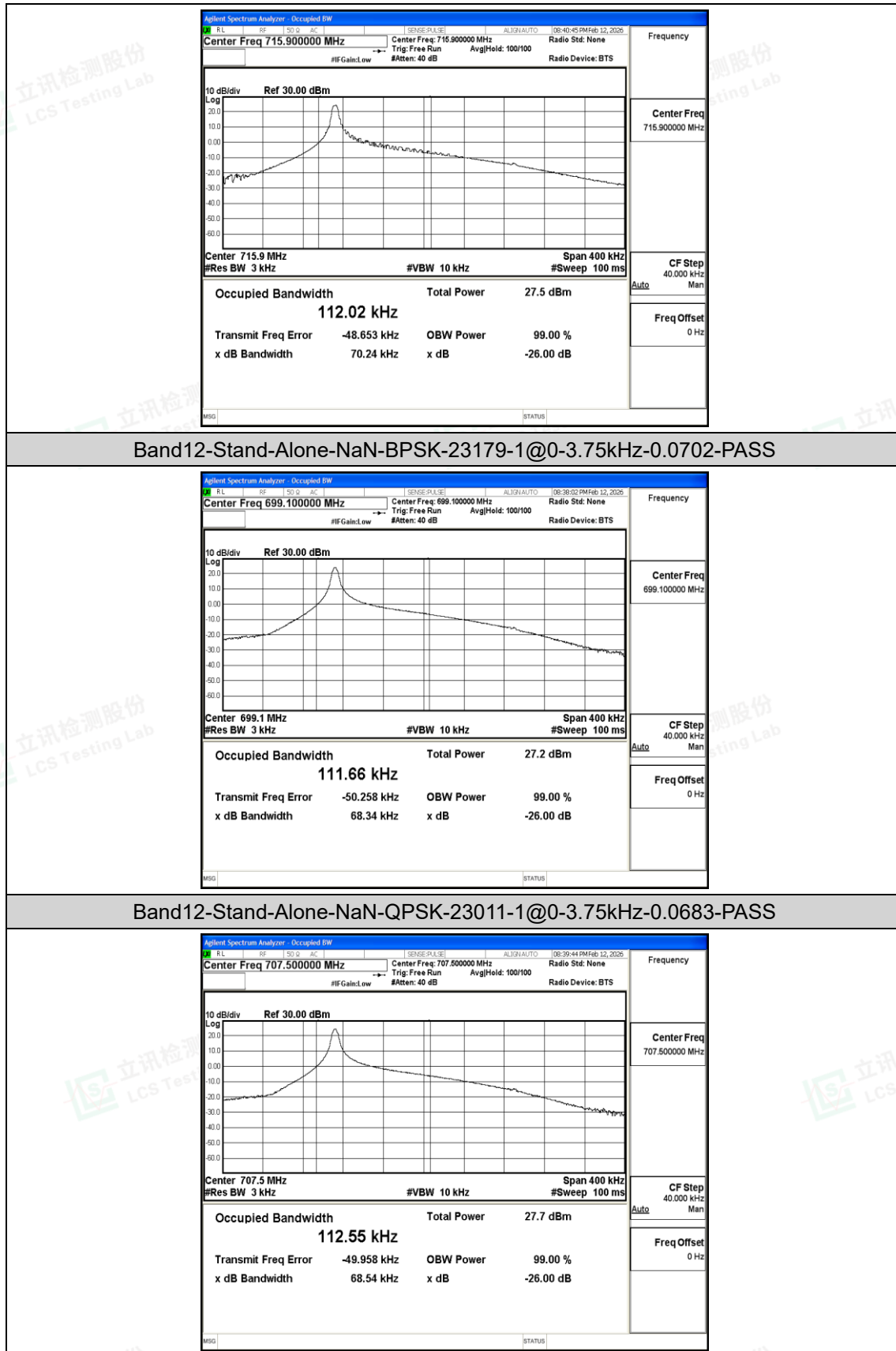


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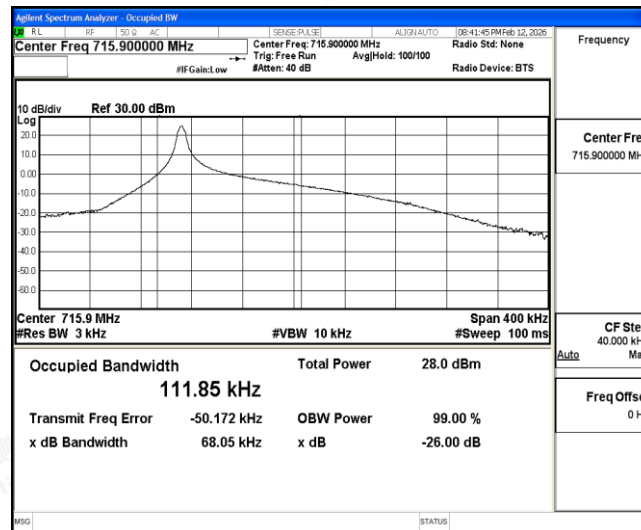
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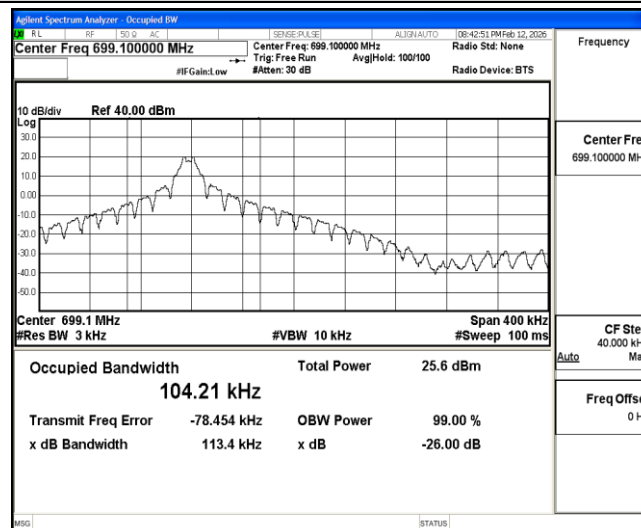
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## Band12-Stand-Alone-NaN-QPSK-23095-1@0-3.75kHz-0.0685-PASS



## Band12-Stand-Alone-NaN-QPSK-23179-1@0-3.75kHz-0.0681-PASS



## Band12-Stand-Alone-NaN-BPSK-23011-1@0-15kHz-0.1134-PASS



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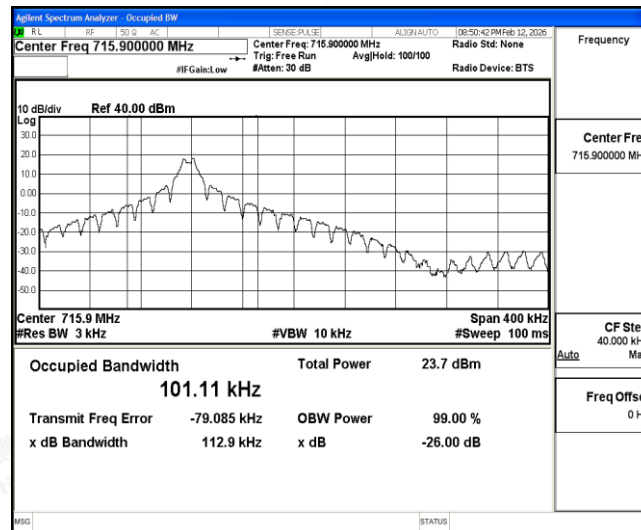
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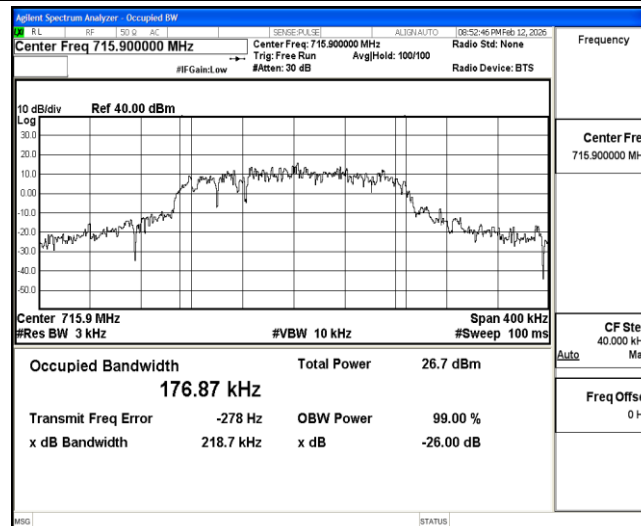
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## Band12-Stand-Alone-NaN-BPSK-23095-12@0-15kHz-0.2352-PASS



## Band12-Stand-Alone-NaN-BPSK-23179-1@0-15kHz-0.1129-PASS



## Band12-Stand-Alone-NaN-BPSK-23179-12@0-15kHz-0.2187-PASS

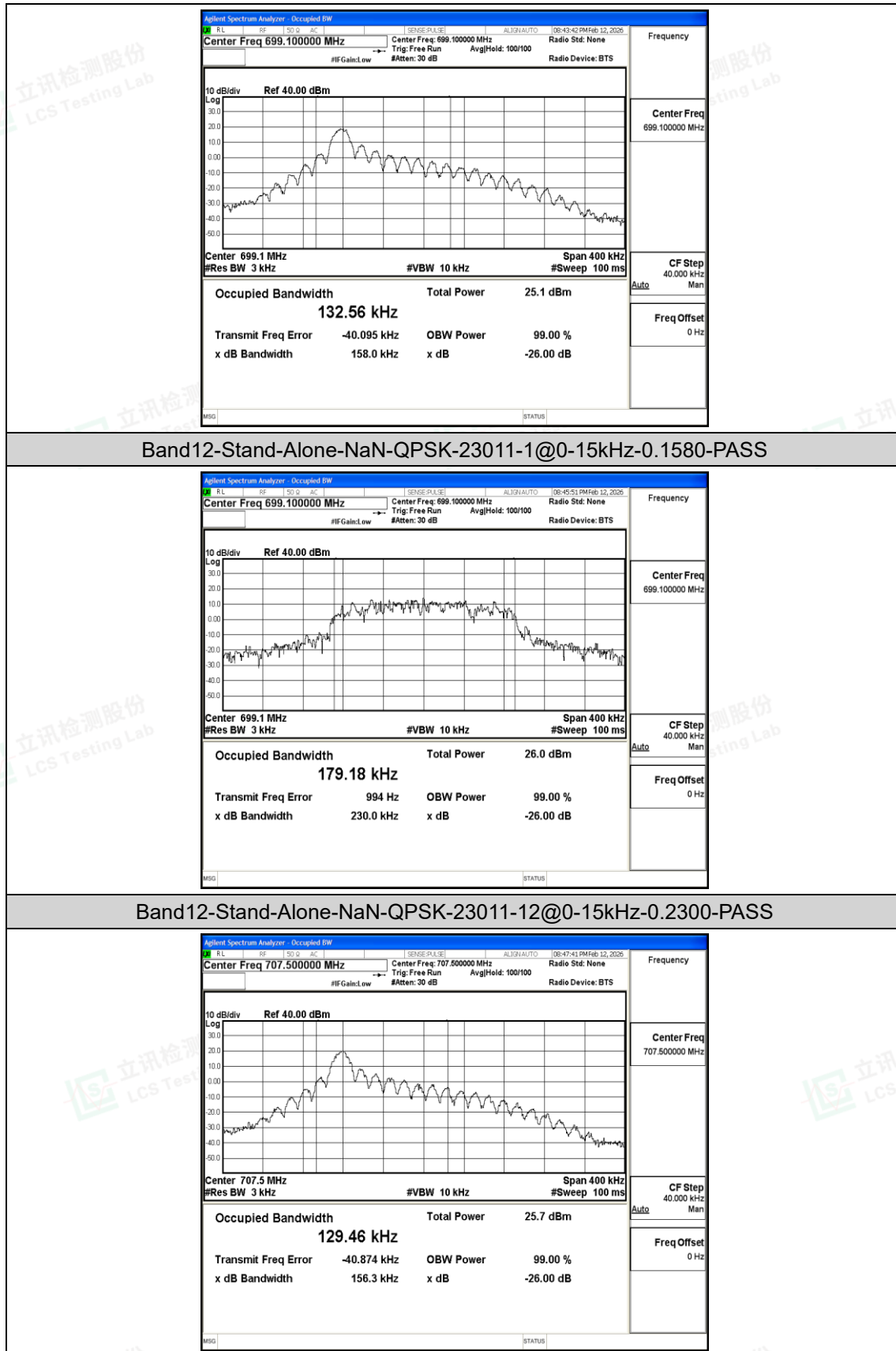


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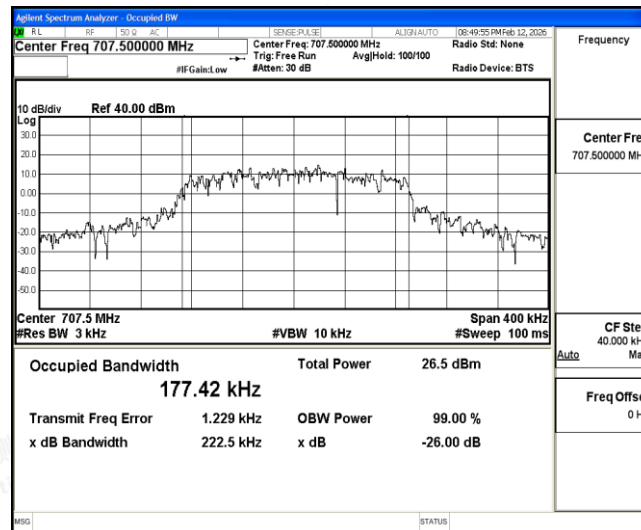
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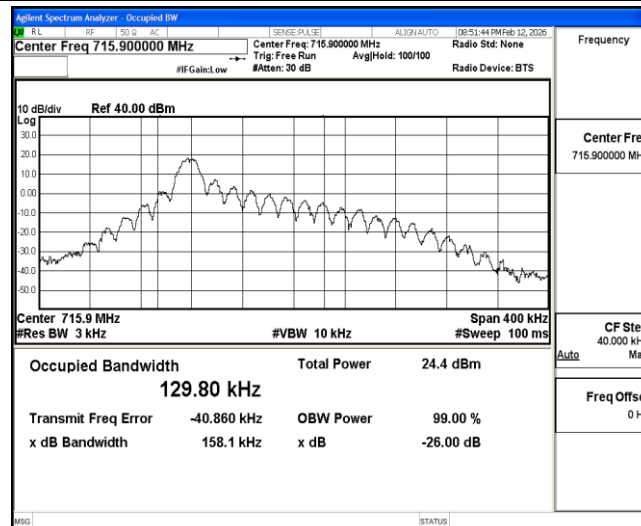
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## Band12-Stand-Alone-NaN-QPSK-23095-1@0-15kHz-0.1563-PASS



## Band12-Stand-Alone-NaN-QPSK-23095-12@0-15kHz-0.2225-PASS



## Band12-Stand-Alone-NaN-QPSK-23179-1@0-15kHz-0.1581-PASS

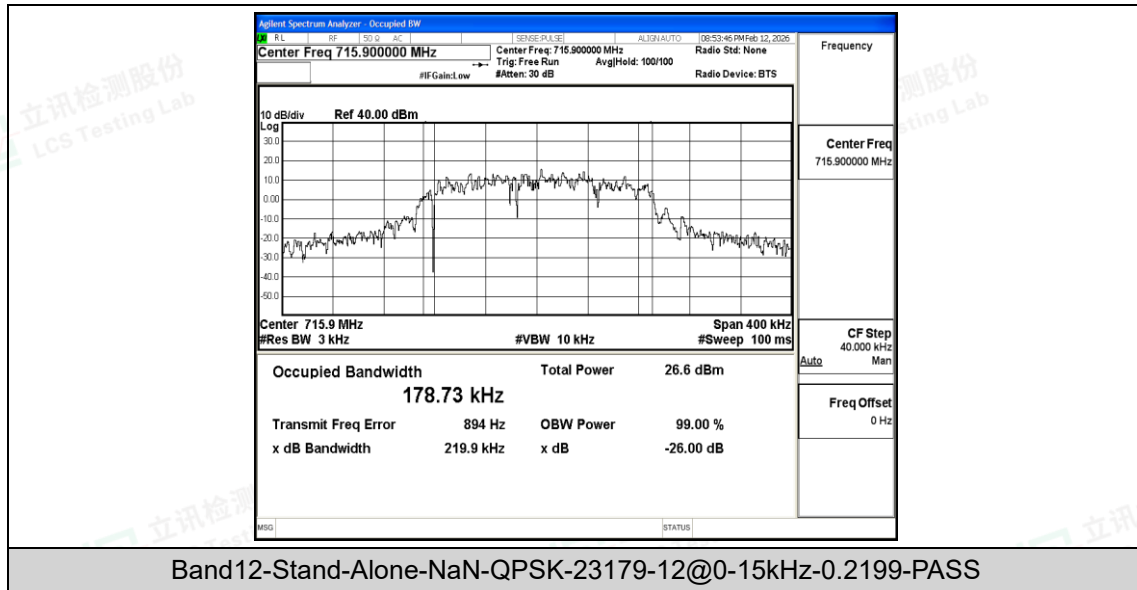


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Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-0.2199-PASS



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## E.4 Band Edge for NB1

### Test Result

| Band   | OpMode      | SCS     | BW  | Modu | Channel | Tones | Result (dBm) | Verdict |
|--------|-------------|---------|-----|------|---------|-------|--------------|---------|
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23011   | 1@0   | -25.25       | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23011   | 1@47  | -37.67       | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23179   | 1@0   | -34.10       | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | BPSK | 23179   | 1@47  | -13.71       | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@0   | -16.34       | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@47  | -38.57       | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@0   | -40.63       | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@47  | -15.90       | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23011   | 1@0   | -14.24       | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23011   | 1@11  | -49.39       | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23011   | 12@0  | -41.19       | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23179   | 1@0   | -53.02       | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23179   | 1@11  | -18.28       | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23179   | 12@0  | -37.80       | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23011   | 1@0   | -24.00       | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23011   | 1@11  | -38.21       | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23011   | 12@0  | -35.89       | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23179   | 1@0   | -41.40       | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | QPSK | 23179   | 1@11  | -18.93       | PASS    |
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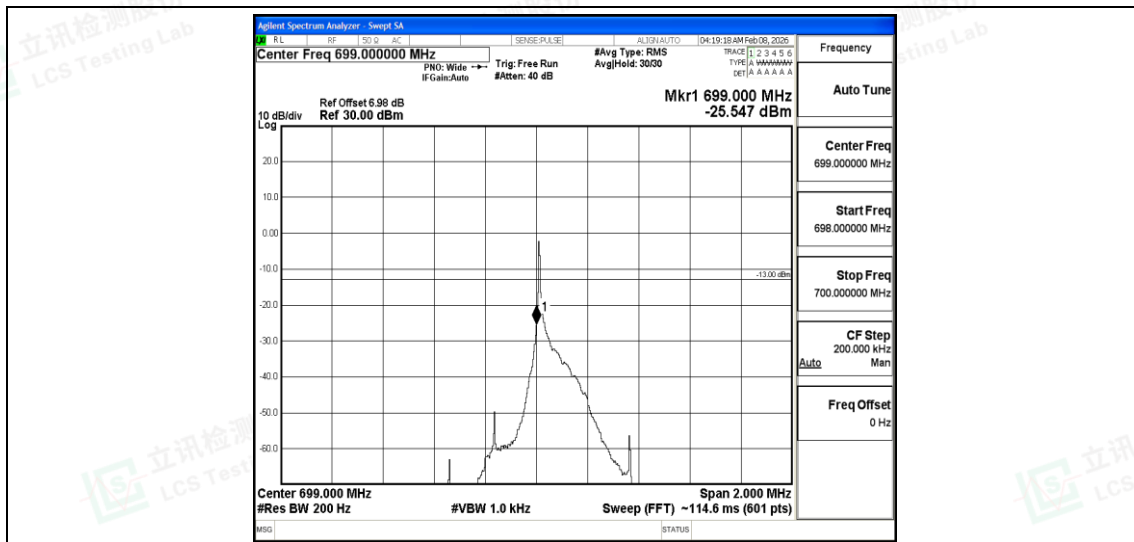
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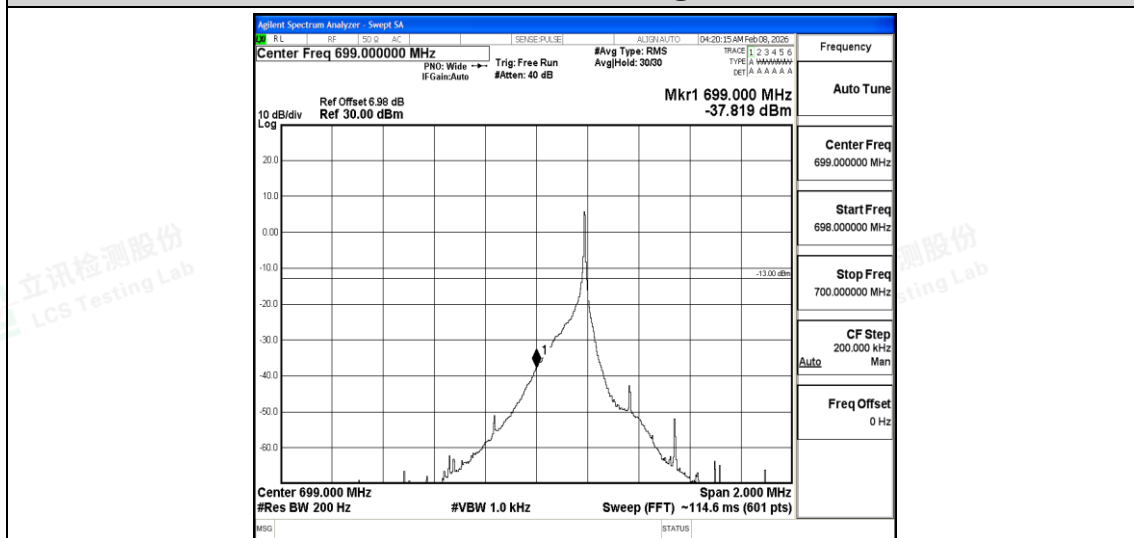
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## Test Graphs



Band12-Stand-Alone-NaN-BPSK-23011-1@0-3.75kHz--25.25-PASS



Band12-Stand-Alone-NaN-BPSK-23011-1@47-3.75kHz--37.67-PASS

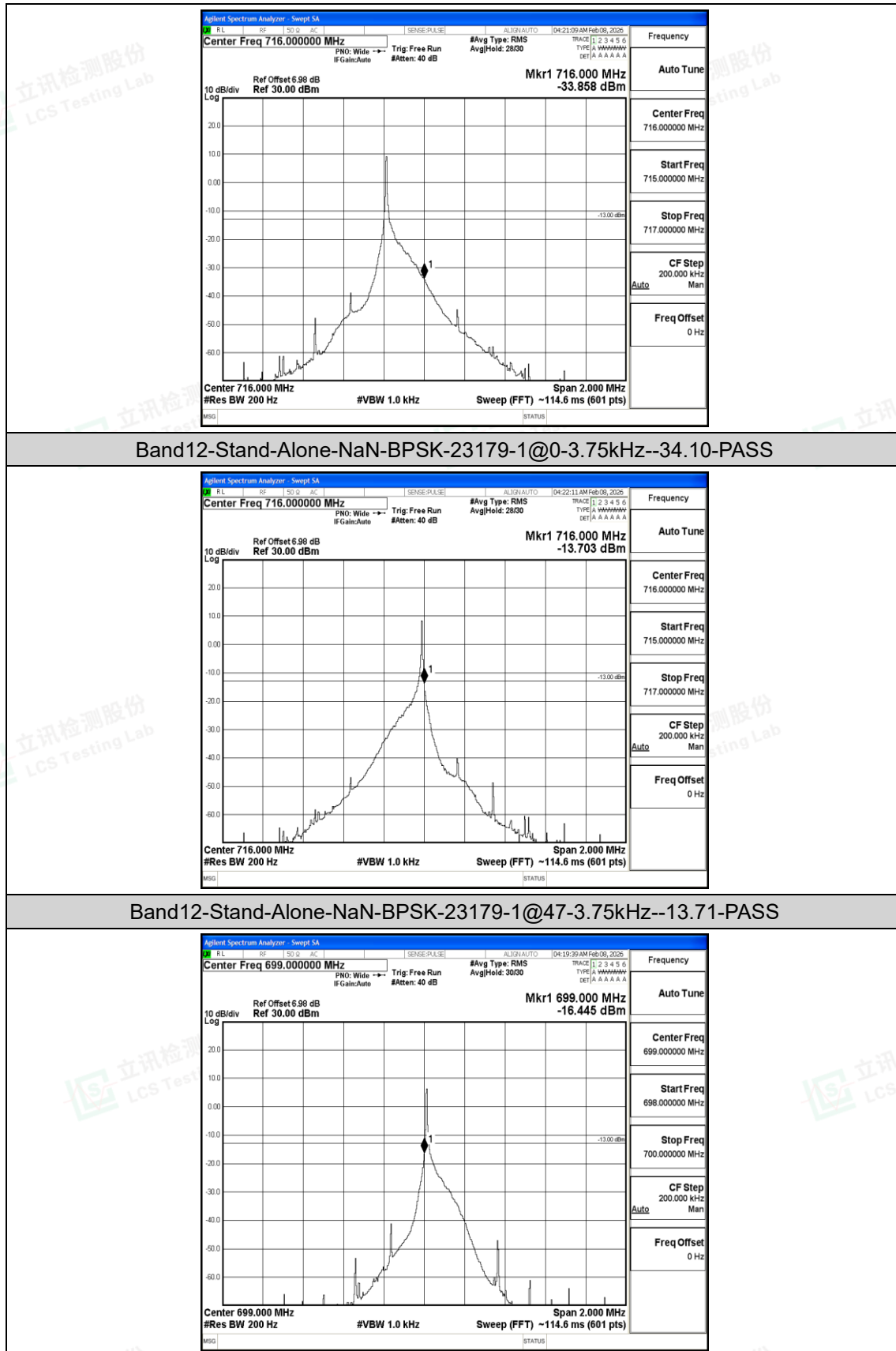


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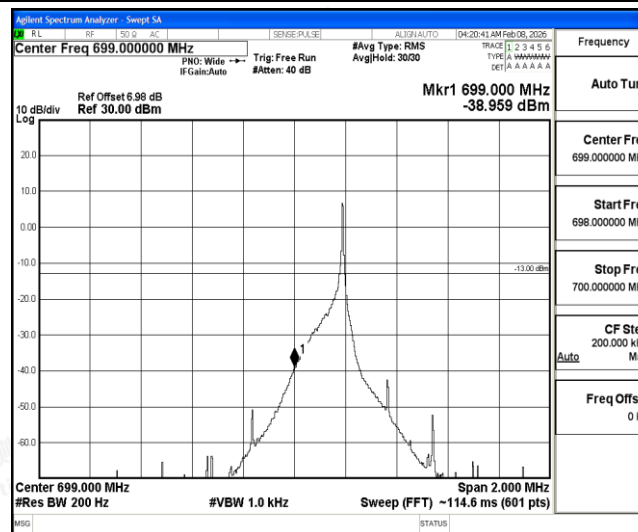
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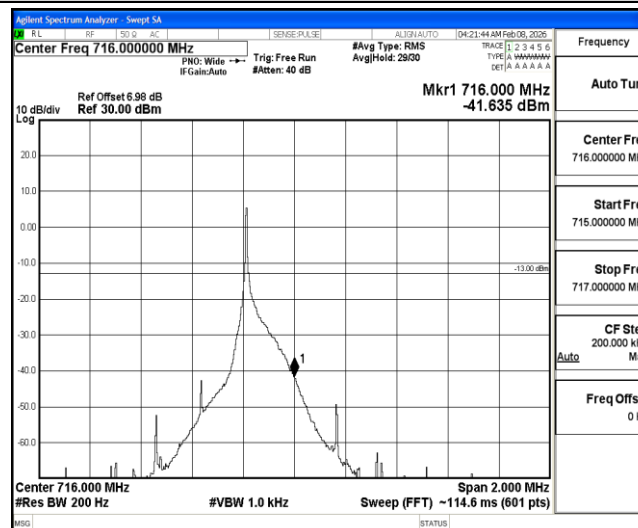
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## Band12-Stand-Alone-NaN-QPSK-23011-1@0-3.75kHz--16.34-PASS



## Band12-Stand-Alone-NaN-QPSK-23011-1@47-3.75kHz--38.57-PASS



## Band12-Stand-Alone-NaN-QPSK-23179-1@0-3.75kHz--40.63-PASS

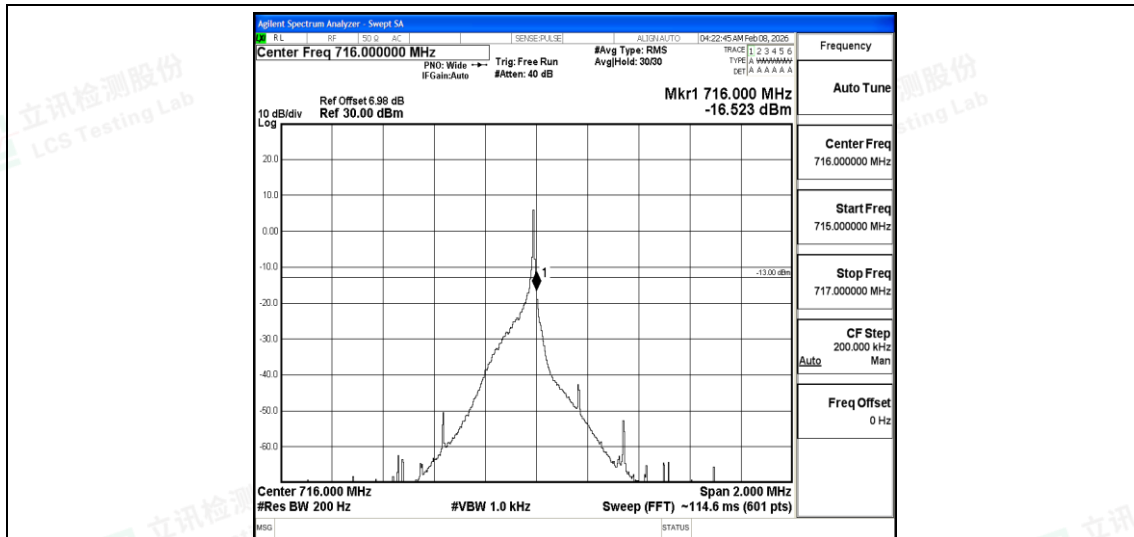


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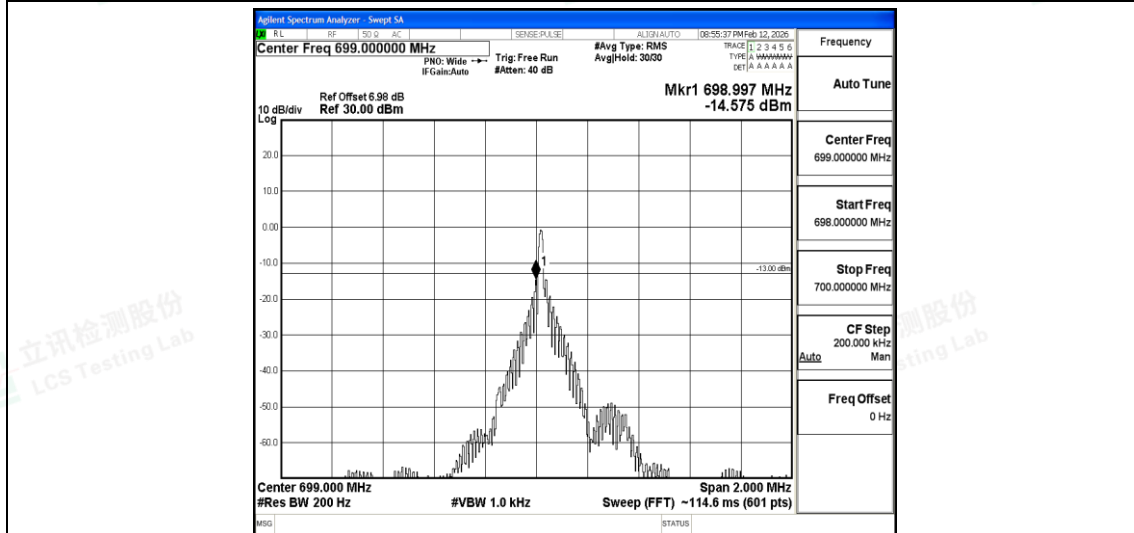
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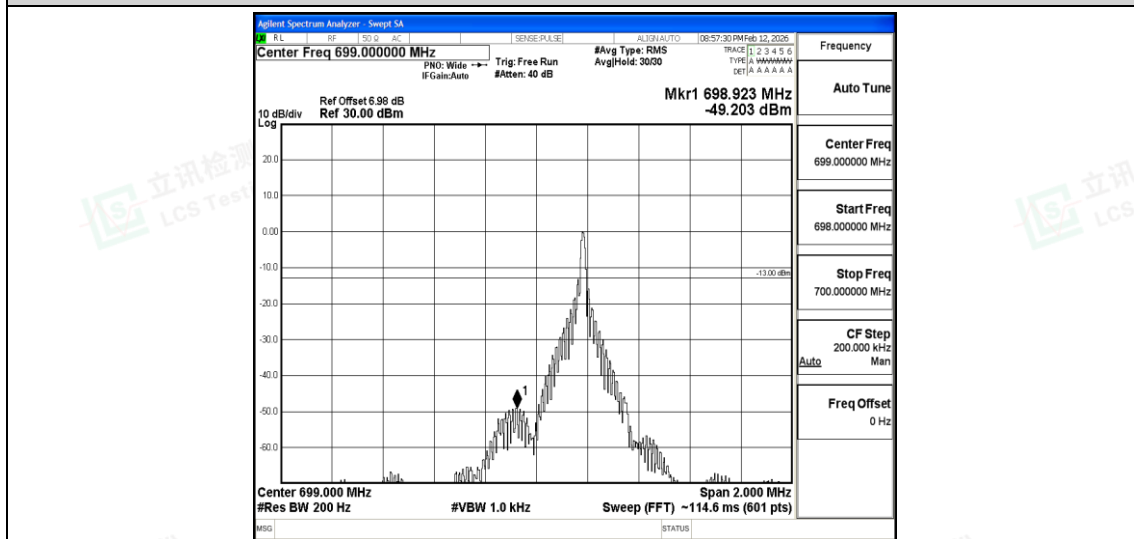
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Band12-Stand-Alone-NaN-QPSK-23179-1@47-3.75kHz--15.90-PASS



Band12-Stand-Alone-NaN-BPSK-23011-1@0-15kHz--14.24-PASS



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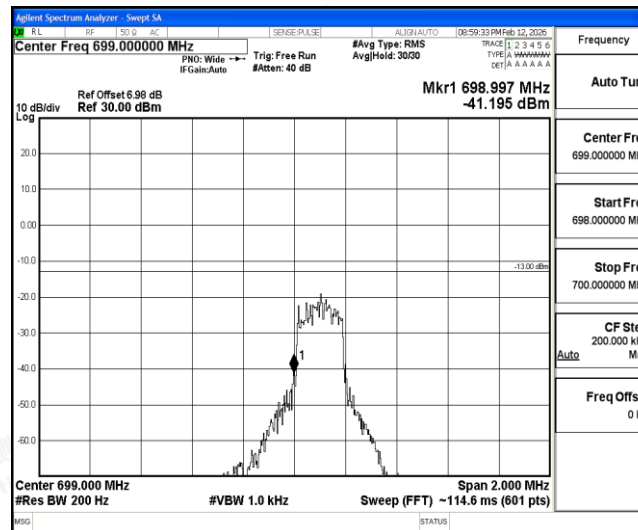
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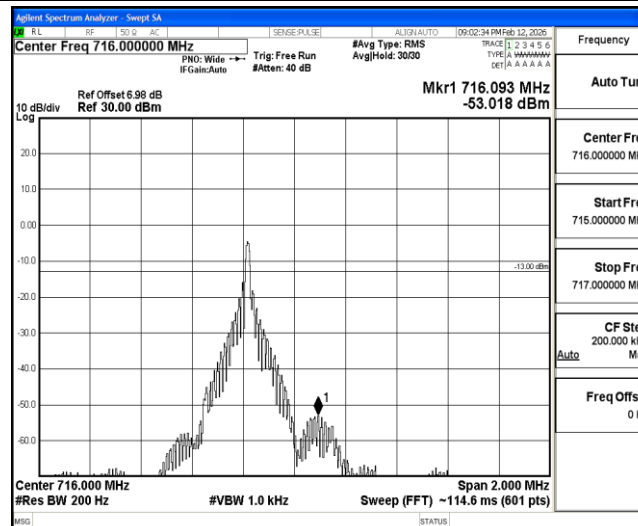
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## Band12-Stand-Alone-NaN-BPSK-23011-1@11-15kHz--49.39-PASS



## Band12-Stand-Alone-NaN-BPSK-23011-12@0-15kHz--41.19-PASS



## Band12-Stand-Alone-NaN-BPSK-23179-1@0-15kHz--53.02-PASS

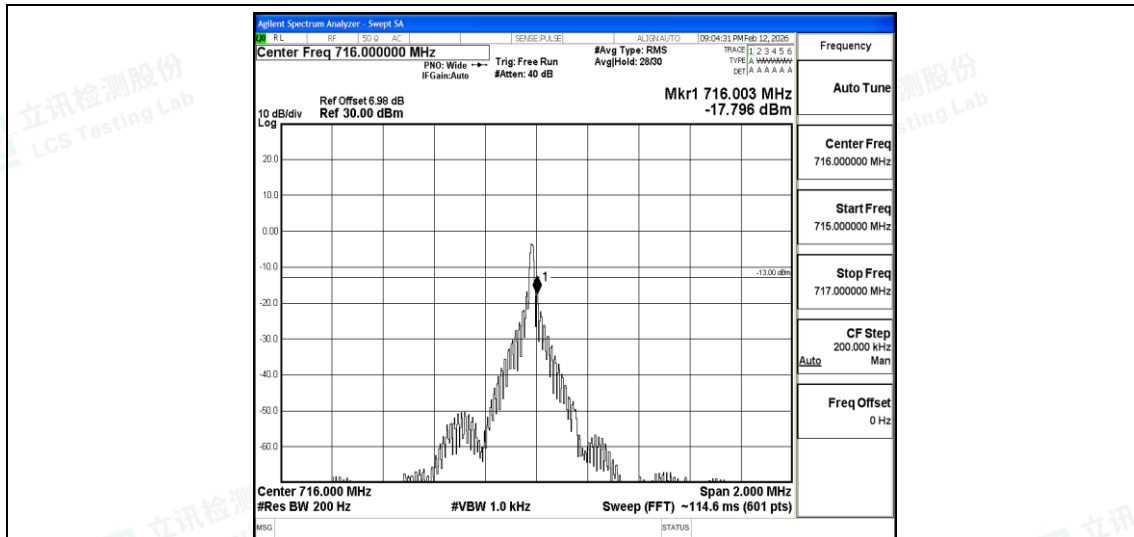


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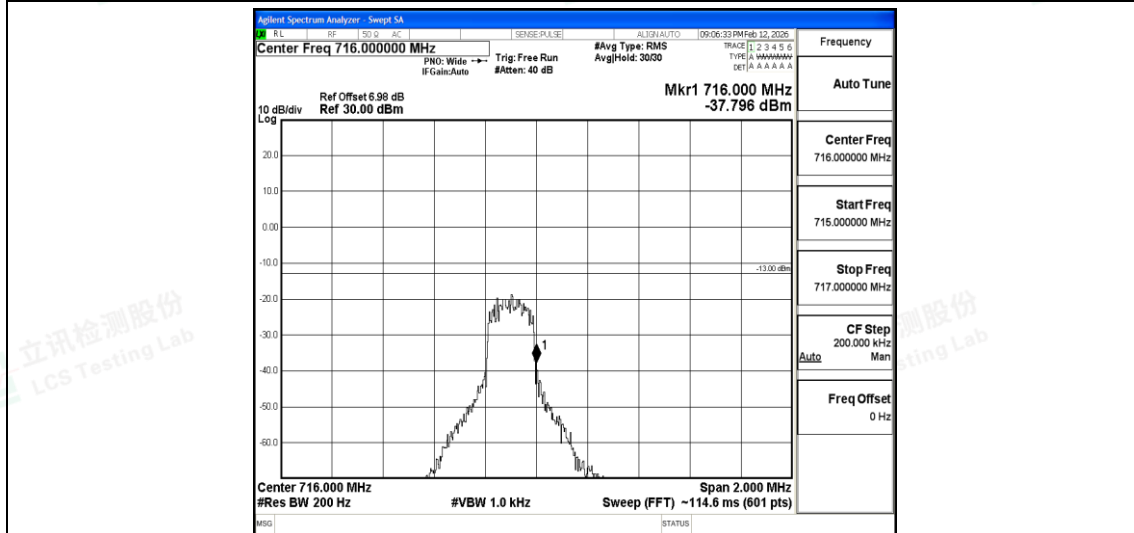
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Band12-Stand-Alone-NaN-BPSK-23179-1@11-15kHz--18.28-PASS



Band12-Stand-Alone-NaN-BPSK-23179-12@0-15kHz--37.80-PASS



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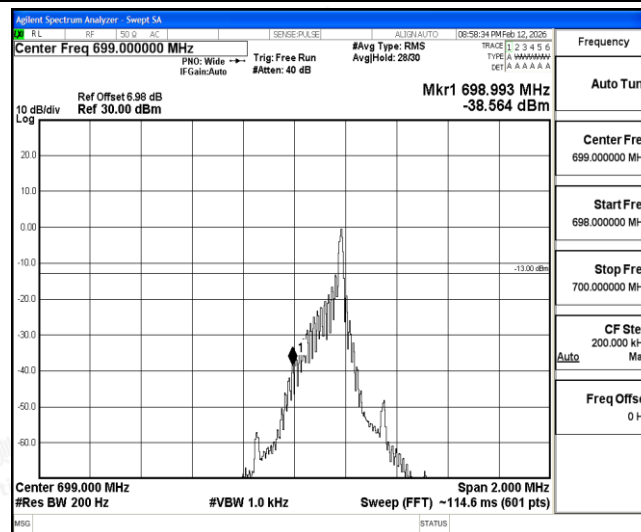
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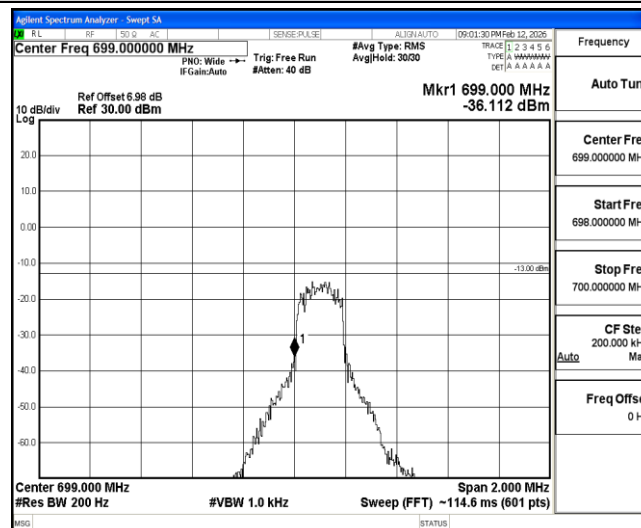
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## Band12-Stand-Alone-NaN-QPSK-23011-1@0-15kHz--24.00-PASS



## Band12-Stand-Alone-NaN-QPSK-23011-1@11-15kHz--38.21-PASS



## Band12-Stand-Alone-NaN-QPSK-23011-12@0-15kHz--35.89-PASS

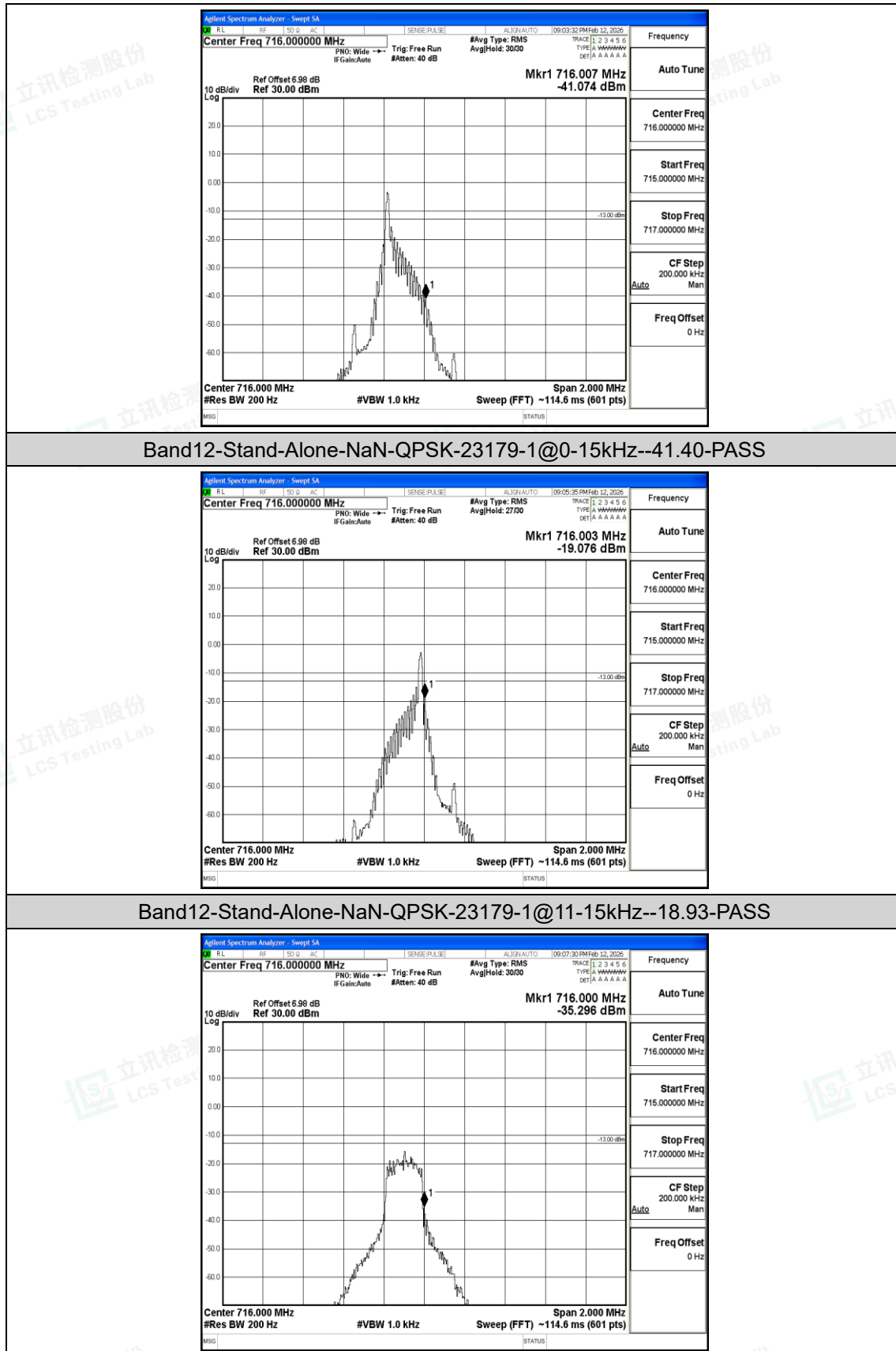


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Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz--35.30-PASS





## E.5 Conducted Spurious Emission for NB1

### Test Result

| Band   | OpMode      | SCS     | BW  | Modu | Channel | Tones | Freq Start [MHz] | Freq Stop [MHz] | Result (dBm)             | Limit (dBm) | Verdict |
|--------|-------------|---------|-----|------|---------|-------|------------------|-----------------|--------------------------|-------------|---------|
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@0   | 30               | 1000            | 30~1000MHz@-37.5dBm      | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@0   | 1000             | 5000            | 1000~5000MHz@-38.35dBm   | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@0   | 5000             | 12000           | 5000~12000MHz@-59.24dBm  | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@0   | 12000            | 26500           | 12000~26500MHz@-44.19dBm | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@47  | 30               | 1000            | 30~1000MHz@-37.8dBm      | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@47  | 1000             | 5000            | 1000~5000MHz@-38.26dBm   | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@47  | 5000             | 12000           | 5000~12000MHz@-59.33dBm  | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23011   | 1@47  | 12000            | 26500           | 12000~26500MHz@-44.32dBm | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@0   | 30               | 1000            | 30~1000MHz@-37.51dBm     | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@0   | 1000             | 5000            | 1000~5000MHz@-39.67dBm   | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@0   | 5000             | 12000           | 5000~12000MHz@-59.27dBm  | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@0   | 12000            | 26500           | 12000~26500MHz@-44.18dBm | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@47  | 30               | 1000            | 30~1000MHz@-37.6dBm      | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@47  | 1000             | 5000            | 1000~5000MHz@-39.5dBm    | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@47  | 5000             | 12000           | 5000~12000MHz@-59.31dBm  | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23095   | 1@47  | 12000            | 26500           | 12000~26500MHz@-44.33dBm | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@0   | 30               | 1000            | 30~1000MHz@-36.82dBm     | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@0   | 1000             | 5000            | 1000~5000MHz@-41.14dBm   | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@0   | 5000             | 12000           | 5000~12000MHz@-55.75dBm  | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@0   | 12000            | 26500           | 12000~26500MHz@-44.13dBm | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@47  | 30               | 1000            | 30~1000MHz@-36.26dBm     | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@47  | 1000             | 5000            | 1000~5000MHz@-42.73dBm   | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@47  | 5000             | 12000           | 5000~12000MHz@-55.46dBm  | -13         | PASS    |
| Band12 | Stand-Alone | 3.75kHz | NaN | QPSK | 23179   | 1@47  | 12000            | 26500           | 12000~26500MHz@-44.17dBm | -13         | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23011   | 1@0   | 30               | 1000            | 30~1000MHz@-37.11dBm     | -13         | PASS    |
| Band12 | Stand-Alone | 15kHz   | NaN | BPSK | 23011   | 1@0   | 1000             | 5000            | 1000~5000MHz@-42.59dBm   | -13         | PASS    |



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|--------|-------------|-------|-----|------|-------|------|-------|-------|--------------------------|-----|------|
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23011 | 1@0  | 5000  | 12000 | 5000~12000MHz@-59.36dBm  | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23011 | 1@0  | 12000 | 26500 | 12000~26500MHz@-44.05dBm | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23011 | 1@11 | 30    | 1000  | 30~1000MHz@-37.7dBm      | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23011 | 1@11 | 1000  | 5000  | 1000~5000MHz@-42.66dBm   | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23011 | 1@11 | 5000  | 12000 | 5000~12000MHz@-59.24dBm  | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23011 | 1@11 | 12000 | 26500 | 12000~26500MHz@-44.28dBm | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23095 | 1@0  | 30    | 1000  | 30~1000MHz@-37.82dBm     | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23095 | 1@0  | 1000  | 5000  | 1000~5000MHz@-43.61dBm   | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23095 | 1@0  | 5000  | 12000 | 5000~12000MHz@-59.29dBm  | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23095 | 1@0  | 12000 | 26500 | 12000~26500MHz@-44.27dBm | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23095 | 1@11 | 30    | 1000  | 30~1000MHz@-36.76dBm     | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23095 | 1@11 | 1000  | 5000  | 1000~5000MHz@-43.35dBm   | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23095 | 1@11 | 5000  | 12000 | 5000~12000MHz@-59.32dBm  | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23095 | 1@11 | 12000 | 26500 | 12000~26500MHz@-44.23dBm | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23179 | 1@0  | 30    | 1000  | 30~1000MHz@-37.24dBm     | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23179 | 1@0  | 1000  | 5000  | 1000~5000MHz@-43.43dBm   | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23179 | 1@0  | 5000  | 12000 | 5000~12000MHz@-59.25dBm  | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23179 | 1@0  | 12000 | 26500 | 12000~26500MHz@-44.18dBm | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23179 | 1@11 | 30    | 1000  | 30~1000MHz@-38.19dBm     | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23179 | 1@11 | 1000  | 5000  | 1000~5000MHz@-40.94dBm   | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23179 | 1@11 | 5000  | 12000 | 5000~12000MHz@-59.27dBm  | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | BPSK | 23179 | 1@11 | 12000 | 26500 | 12000~26500MHz@-44.31dBm | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23011 | 12@0 | 30    | 1000  | 30~1000MHz@-37.18dBm     | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23011 | 12@0 | 1000  | 5000  | 1000~5000MHz@-40.9dBm    | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23011 | 12@0 | 5000  | 12000 | 5000~12000MHz@-59.32dBm  | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23011 | 12@0 | 12000 | 26500 | 12000~26500MHz@-44.04dBm | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23095 | 12@0 | 30    | 1000  | 30~1000MHz@-37.63dBm     | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23095 | 12@0 | 1000  | 5000  | 1000~5000MHz@-43.46dBm   | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23095 | 12@0 | 5000  | 12000 | 5000~12000MHz@-59.24dBm  | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23095 | 12@0 | 12000 | 26500 | 12000~26500MHz@-44.21dBm | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23179 | 12@0 | 30    | 1000  | 30~1000MHz@-37.34dBm     | -13 | PASS |



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| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23179 | 12@0 | 1000  | 5000  | 1000~5000MHz@-41.71dBm   | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23179 | 12@0 | 5000  | 12000 | 5000~12000MHz@-59.11dBm  | -13 | PASS |
| Band12 | Stand-Alone | 15kHz | NaN | QPSK | 23179 | 12@0 | 12000 | 26500 | 12000~26500MHz@-44.18dBm | -13 | PASS |

