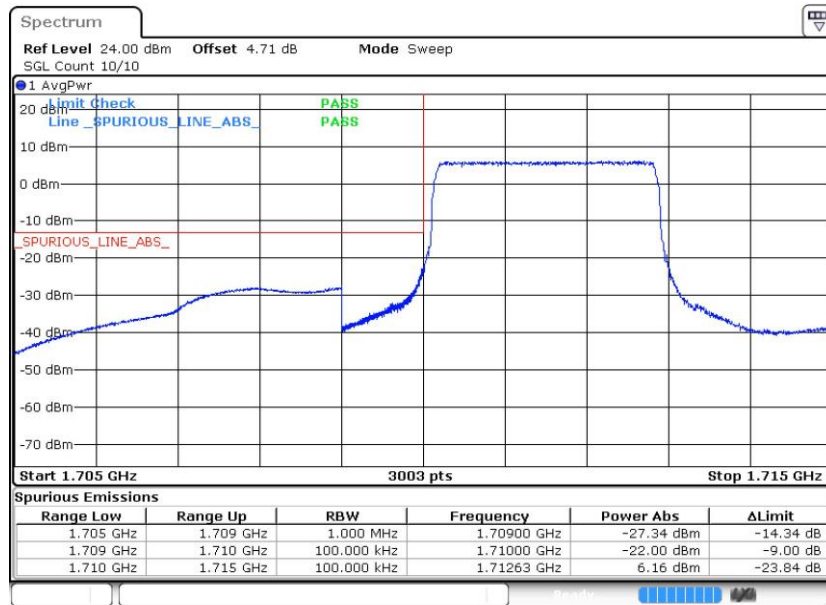




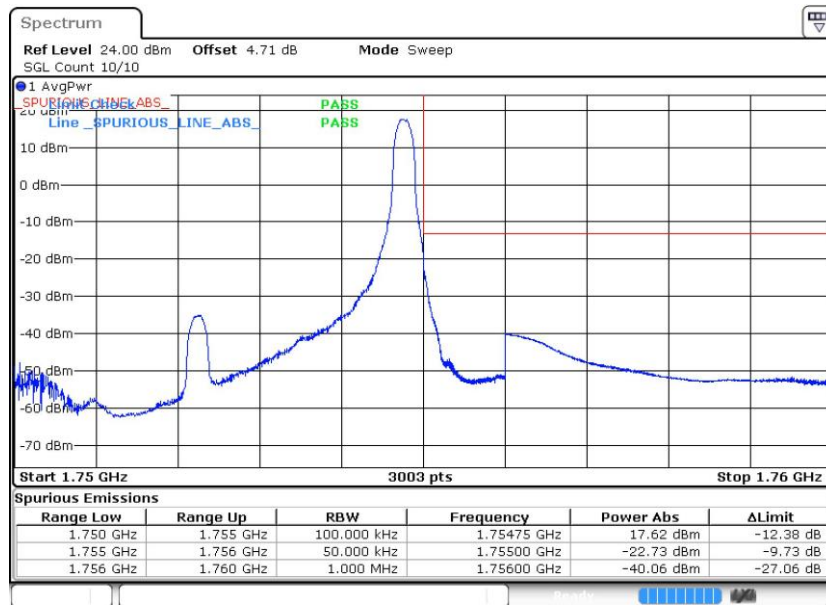
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## Band4-3MHz-QPSK-19965-15RB#0



## Band4-3MHz-QPSK-20385-1RB#14



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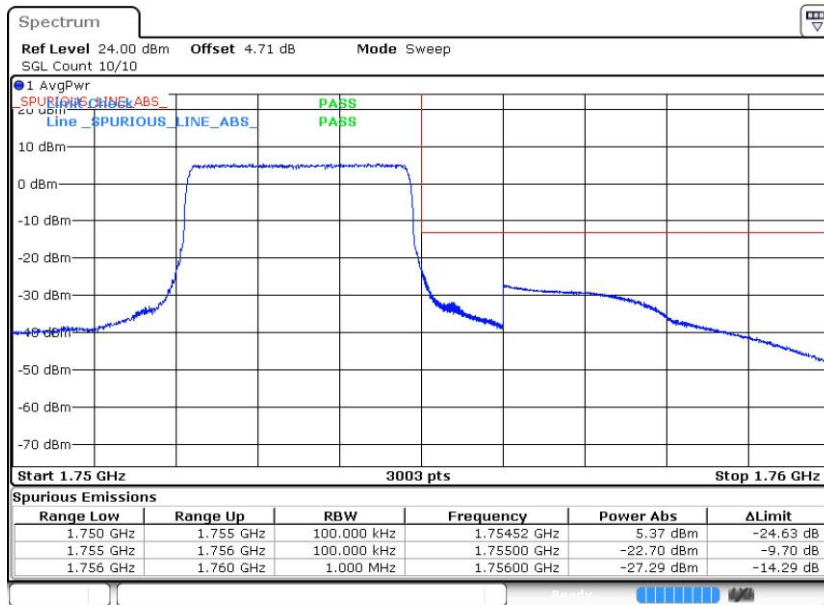
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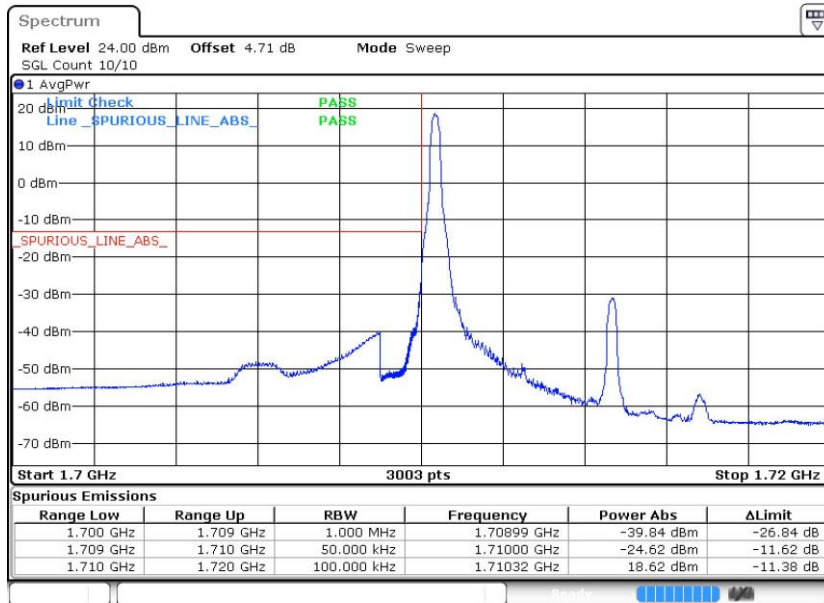
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## Band4-3MHz-QPSK-20385-15RB#0



## Band4-5MHz-QPSK-19975-1RB#0



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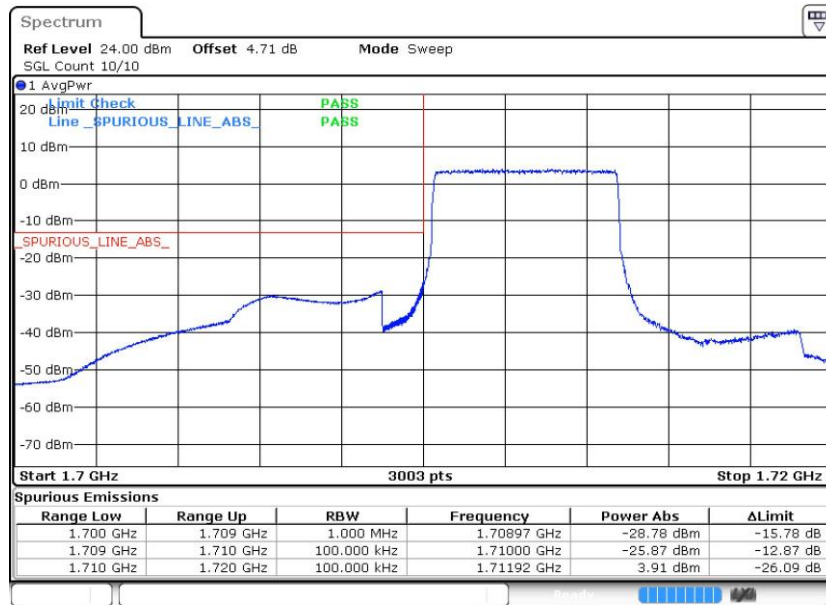
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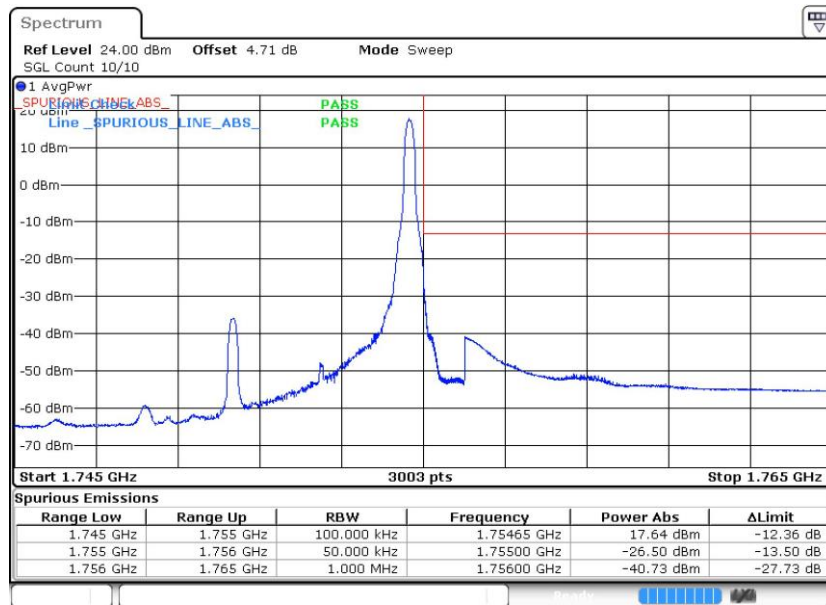
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## Band4-5MHz-QPSK-19975-25RB#0



## Band4-5MHz-QPSK-20375-1RB#24



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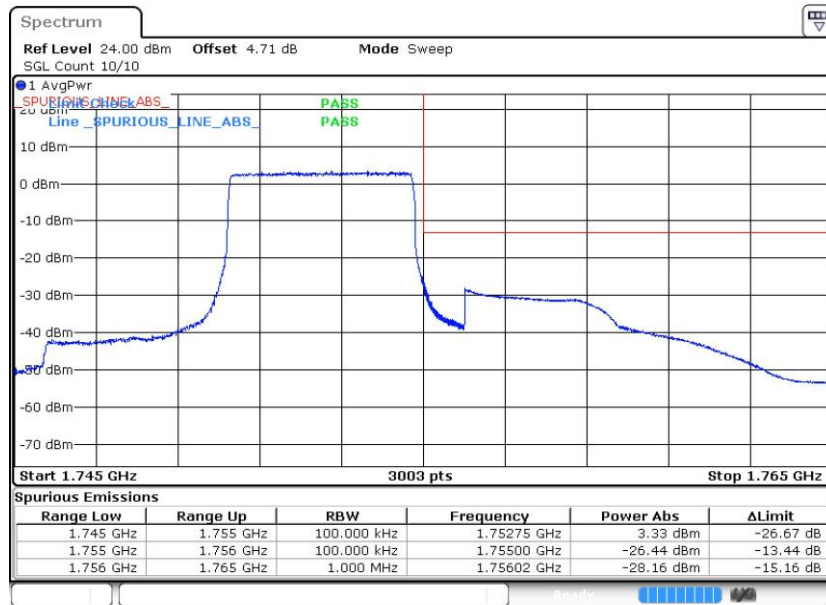
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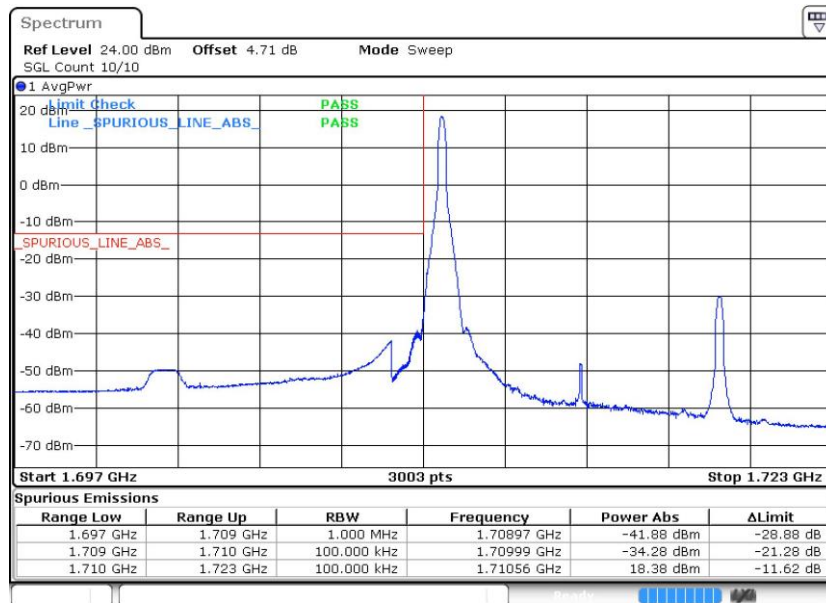
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## Band4-5MHz-QPSK-20375-25RB#0



Date: 18 DEC. 2023 22:56:09

## Band4-10MHz-QPSK-20000-1RB#0



Date: 18 DEC. 2023 22:56:59



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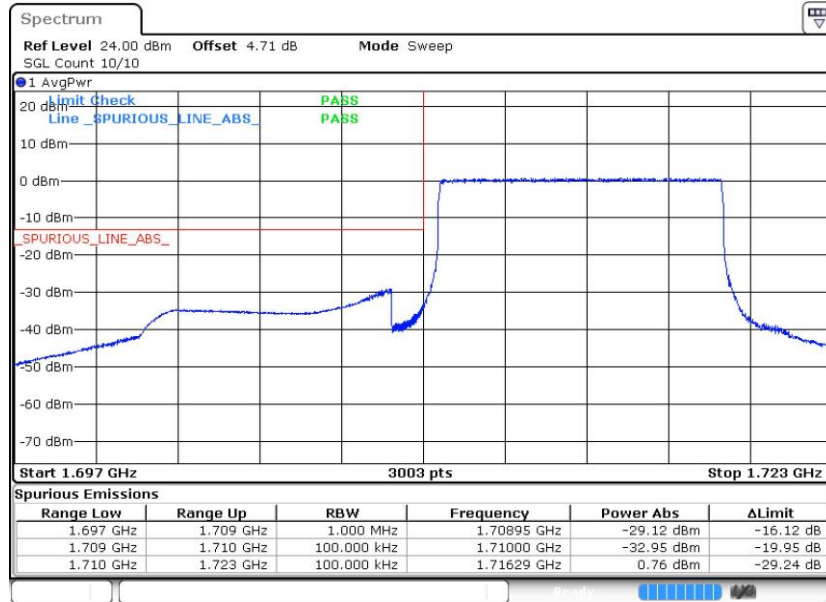
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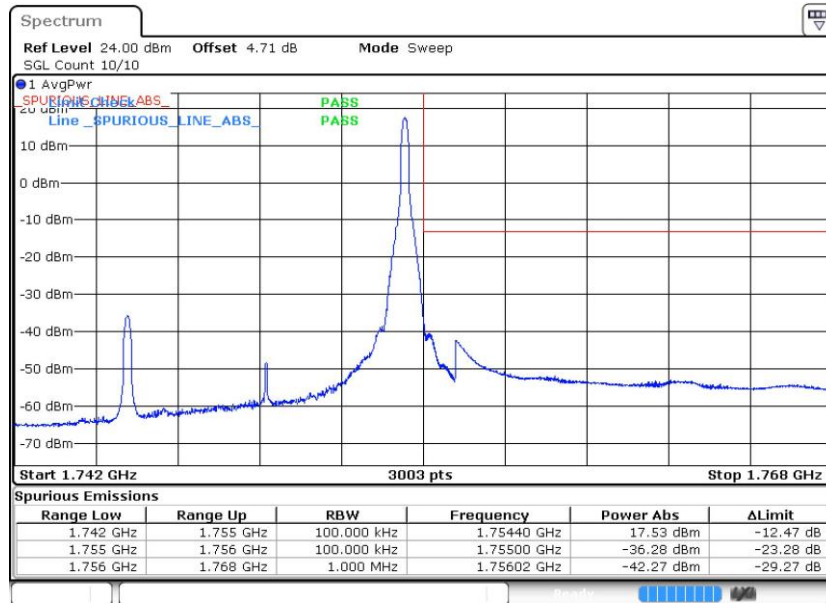
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## Band4-10MHz-QPSK-20000-50RB#0



## Band4-10MHz-QPSK-20350-1RB#49



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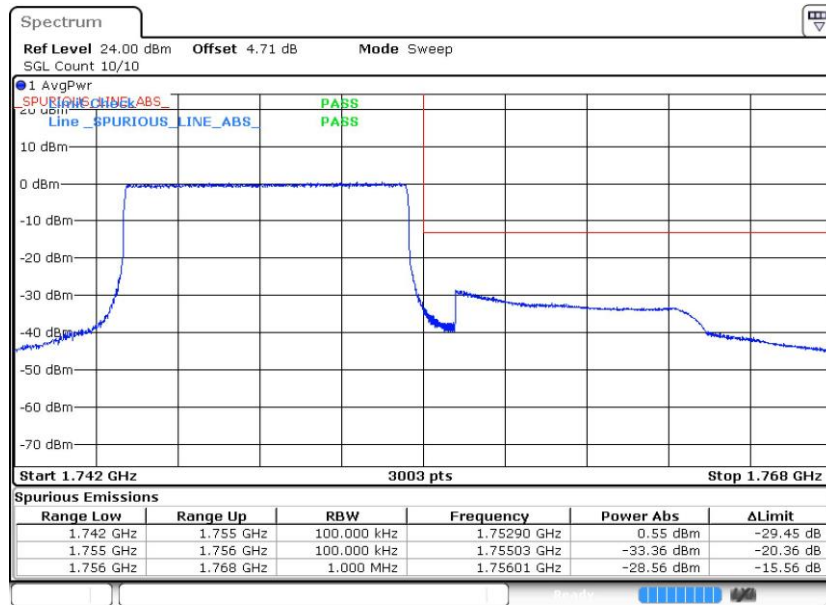
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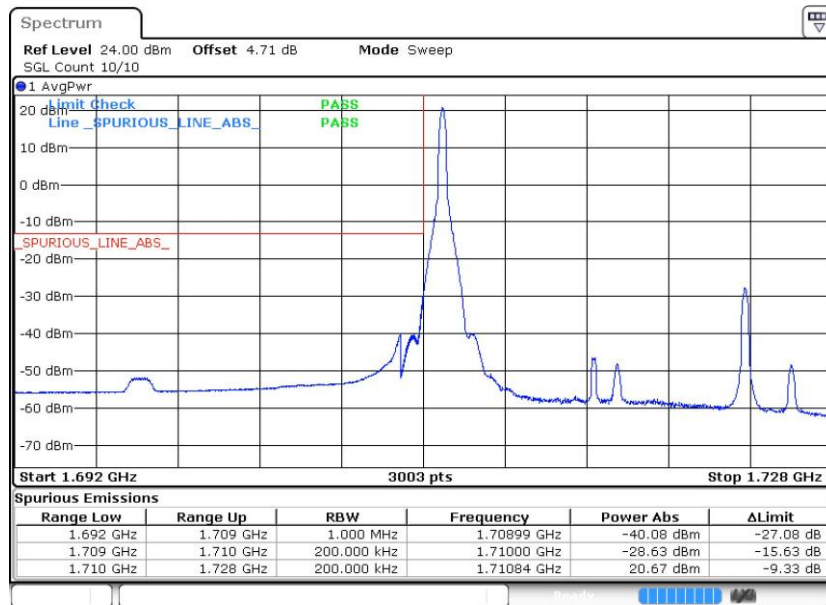
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## Band4-10MHz-QPSK-20350-50RB#0



## Band4-15MHz-QPSK-20025-1RB#0



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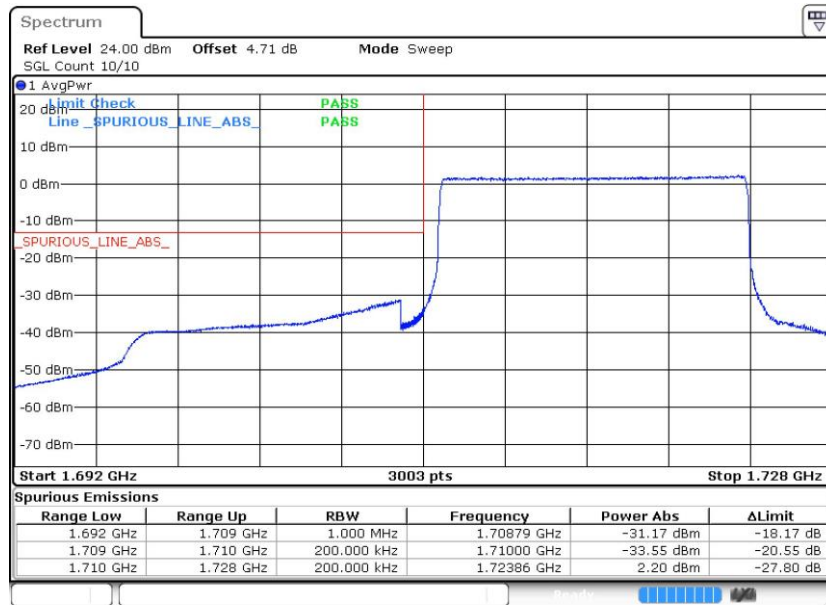
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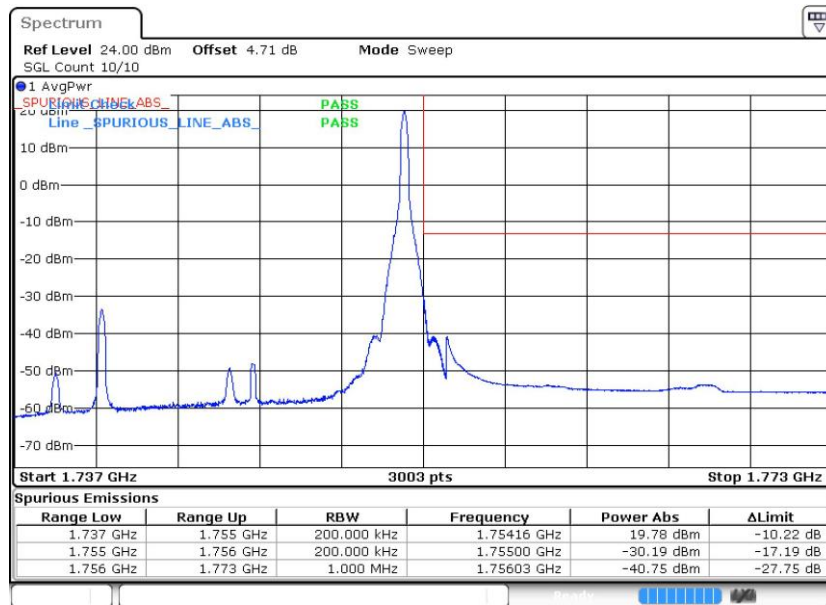
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## Band4-15MHz-QPSK-20025-75RB#0



## Band4-15MHz-QPSK-20325-1RB#74



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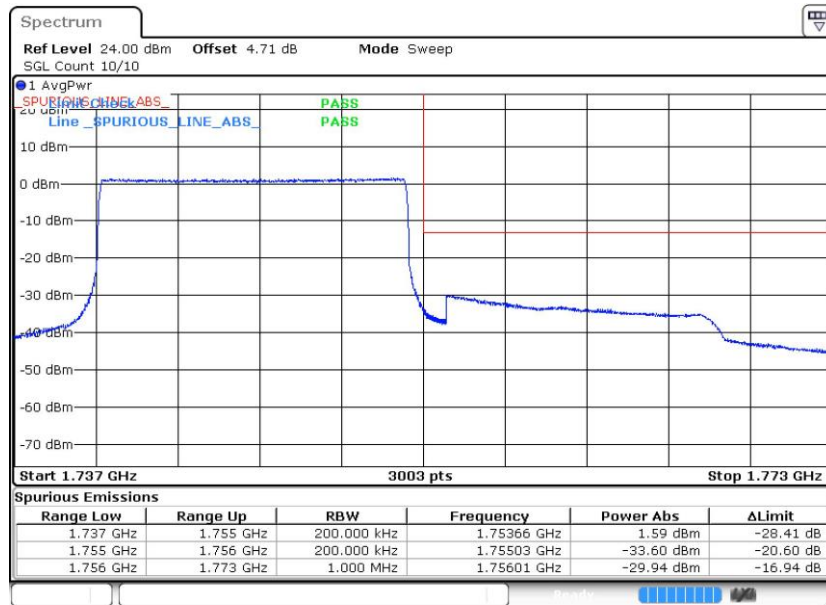
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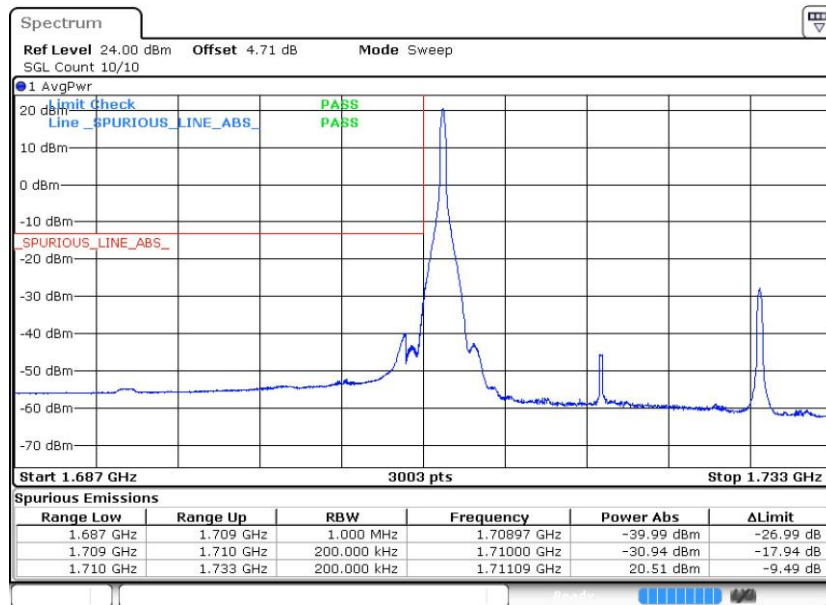
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## Band4-15MHz-QPSK-20325-75RB#0



## Band4-20MHz-QPSK-20050-1RB#0



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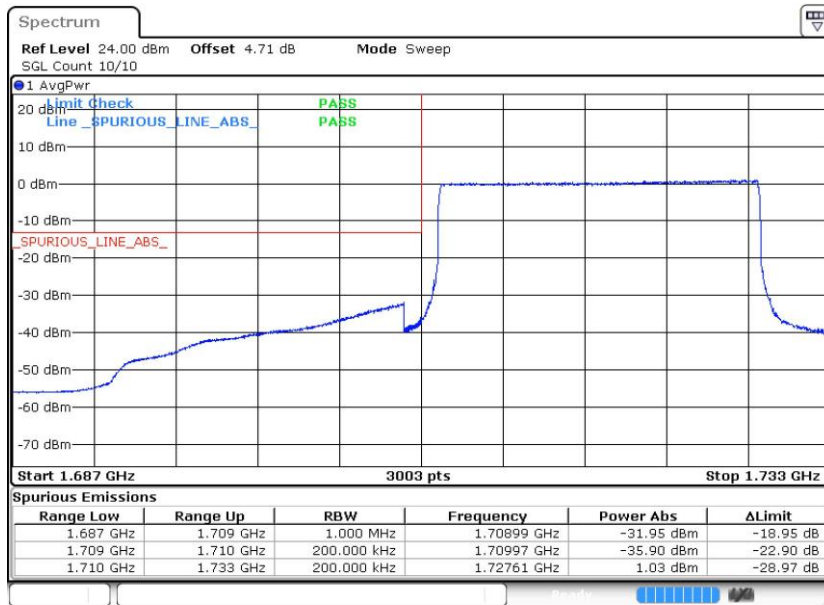
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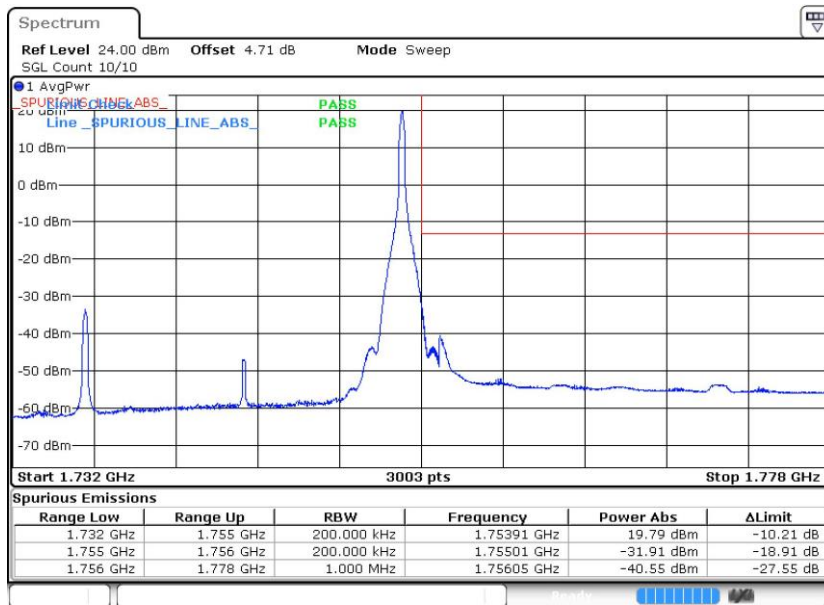
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## Band4-20MHz-QPSK-20050-100RB#0



## Band4-20MHz-QPSK-20300-1RB#99



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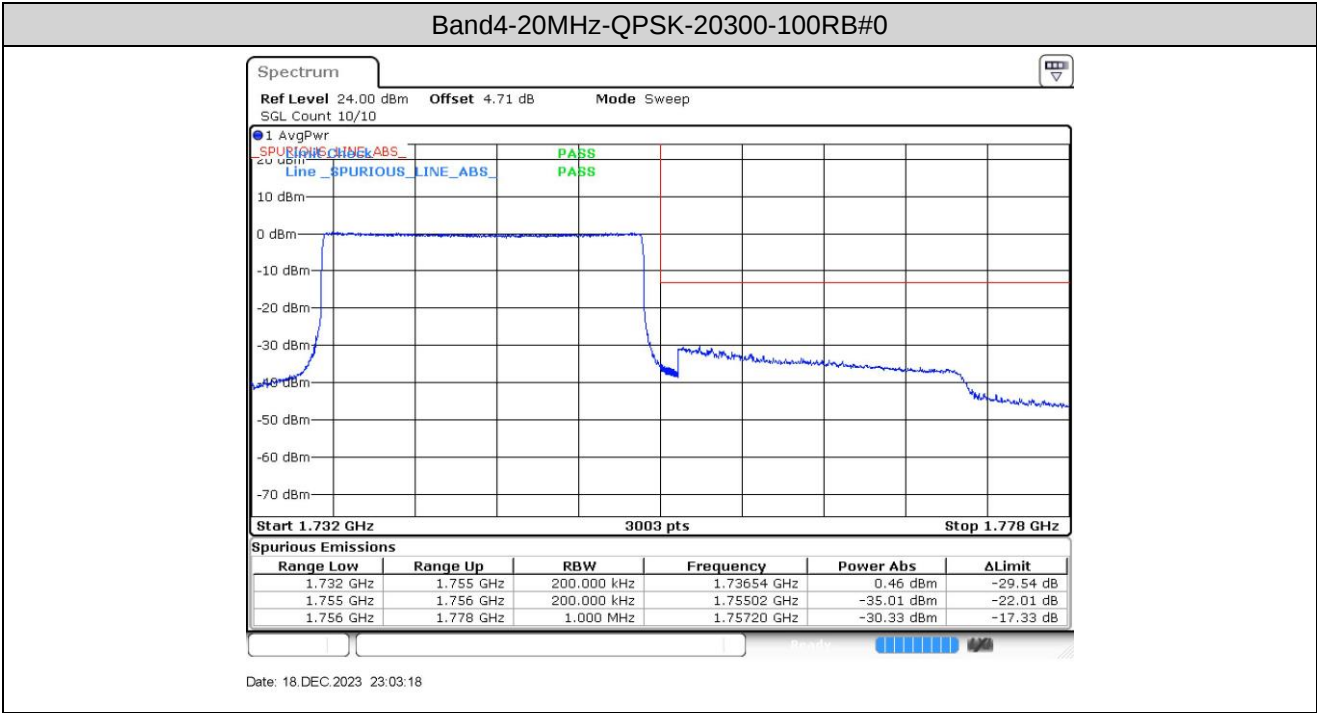
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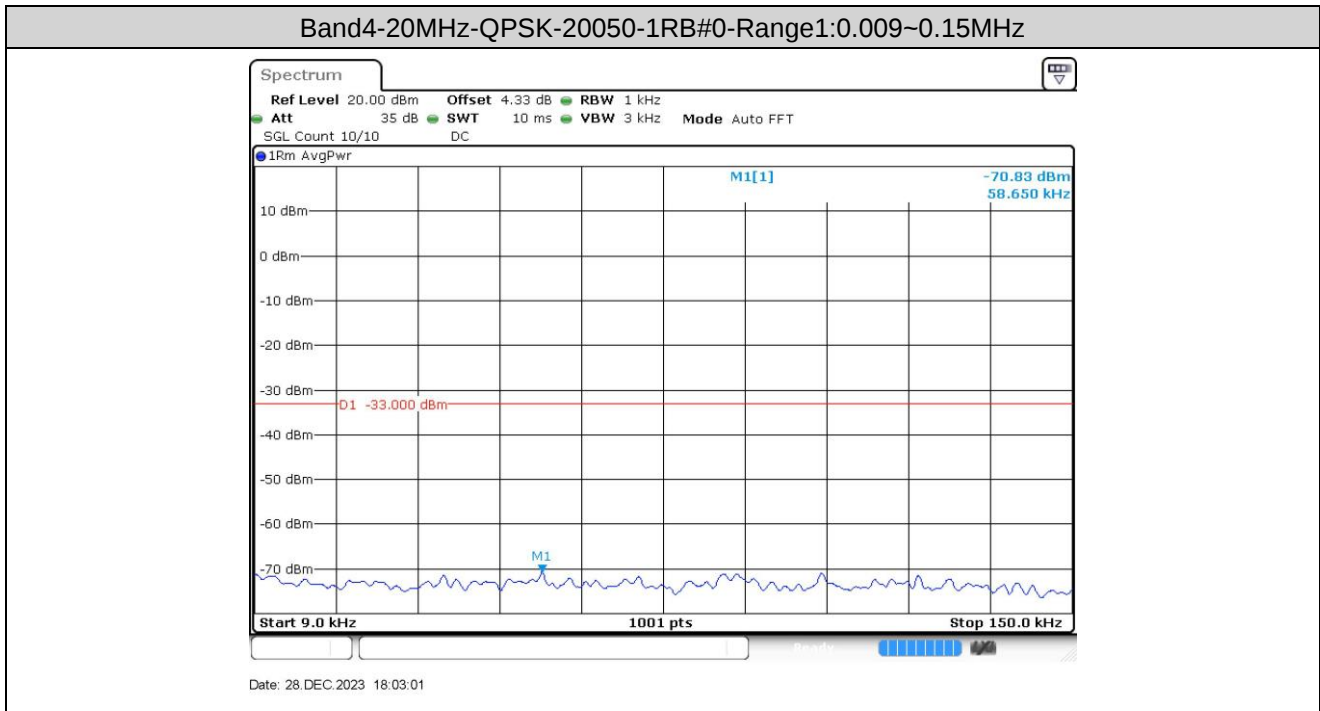


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## Conducted Spurious Emission

### Test Graphs



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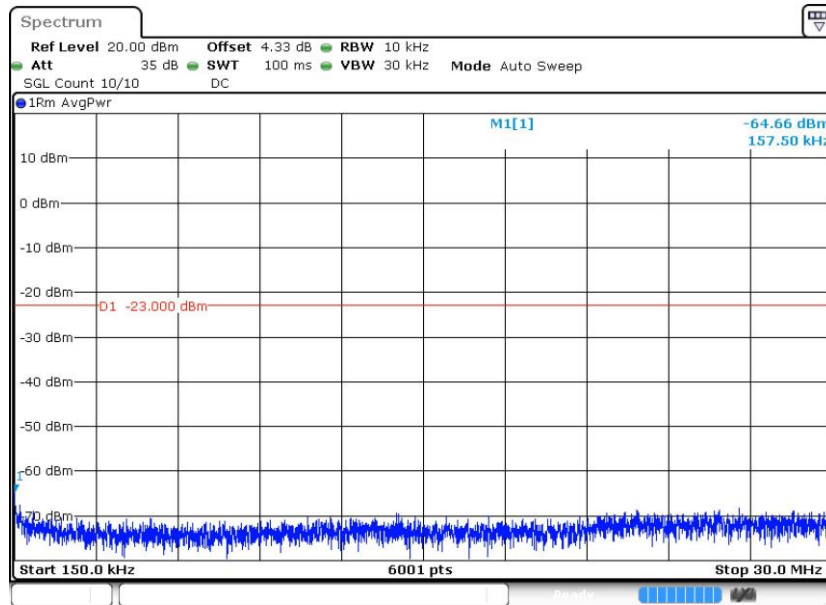
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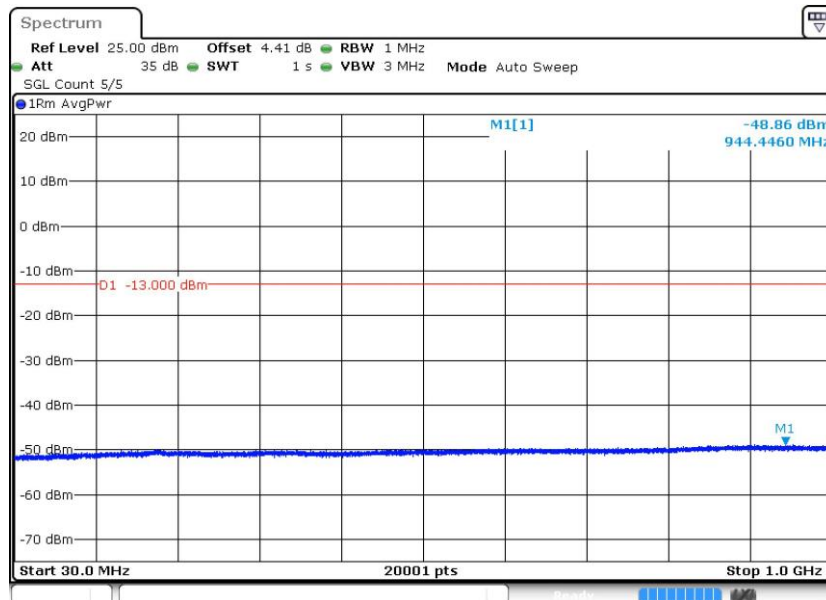
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## Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



Date: 28.DEC.2023 18:03:05

## Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



Date: 28.DEC.2023 18:03:13



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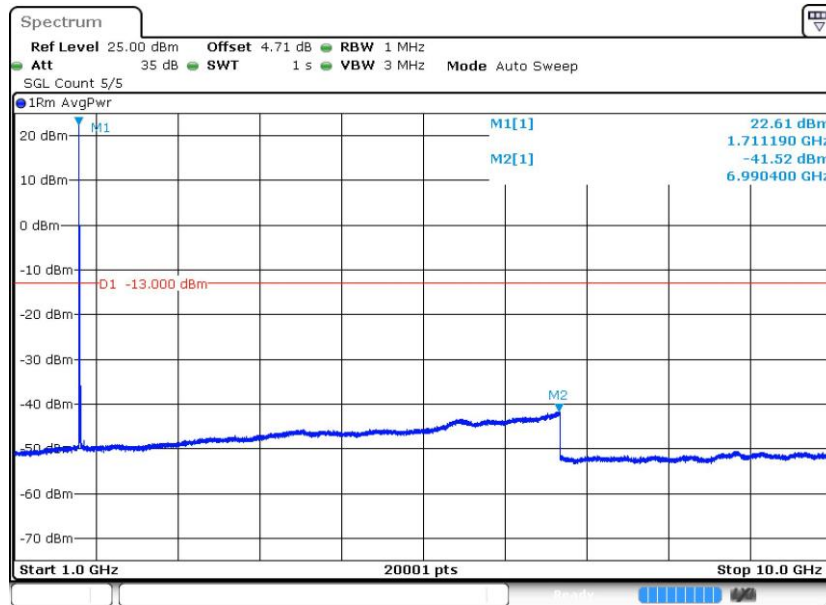
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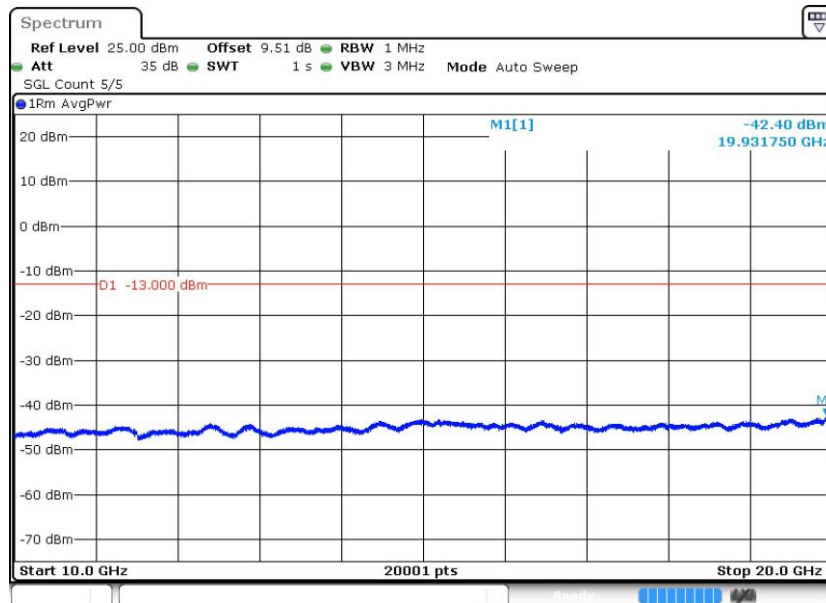
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## Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~10000MHz



Date: 28 DEC. 2023 18:03:23

## Band4-20MHz-QPSK-20050-1RB#0-Range5:10000~20000MHz



Date: 28 DEC. 2023 18:03:31



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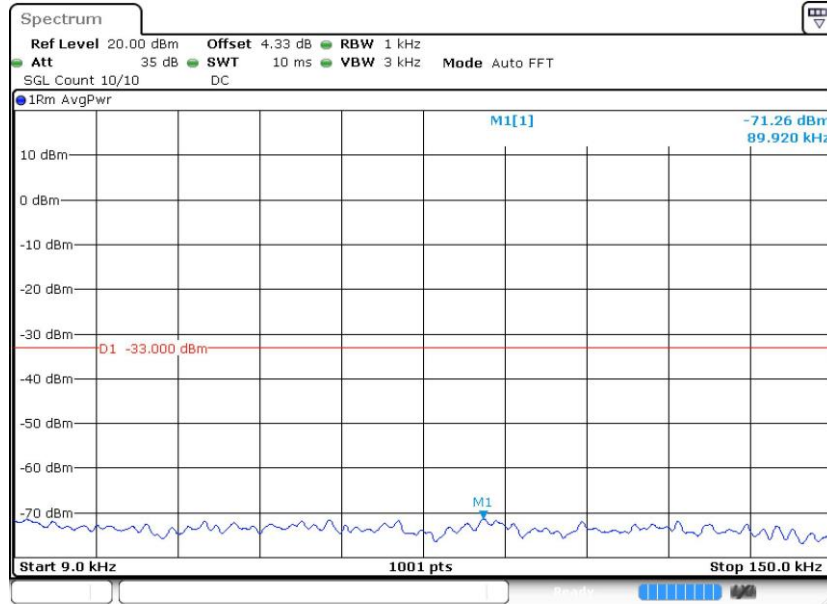
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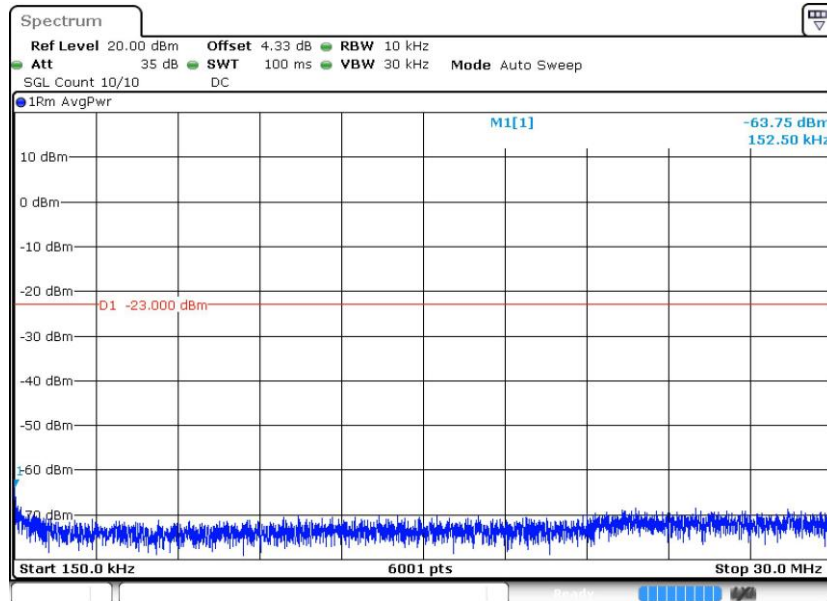
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## Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



Date: 28 DEC. 2023 18:03:44

## Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



Date: 28 DEC. 2023 18:03:49



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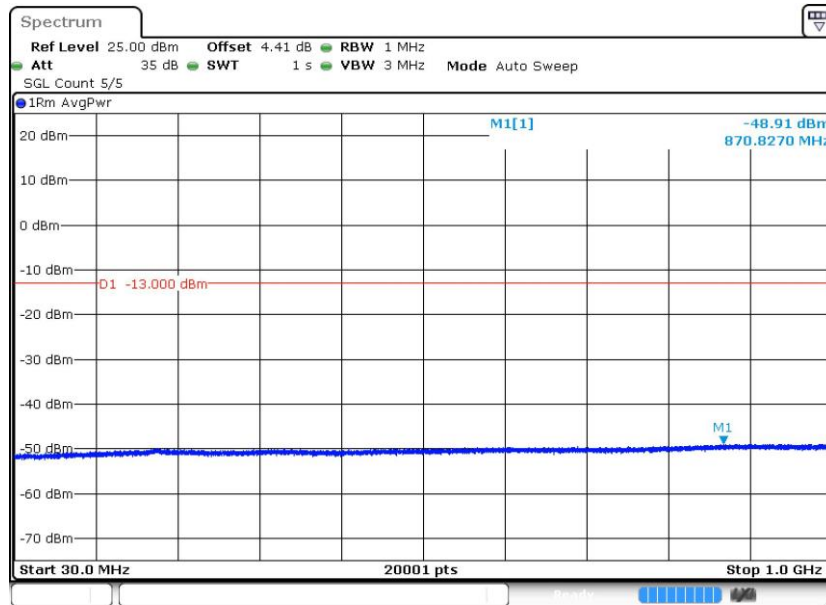
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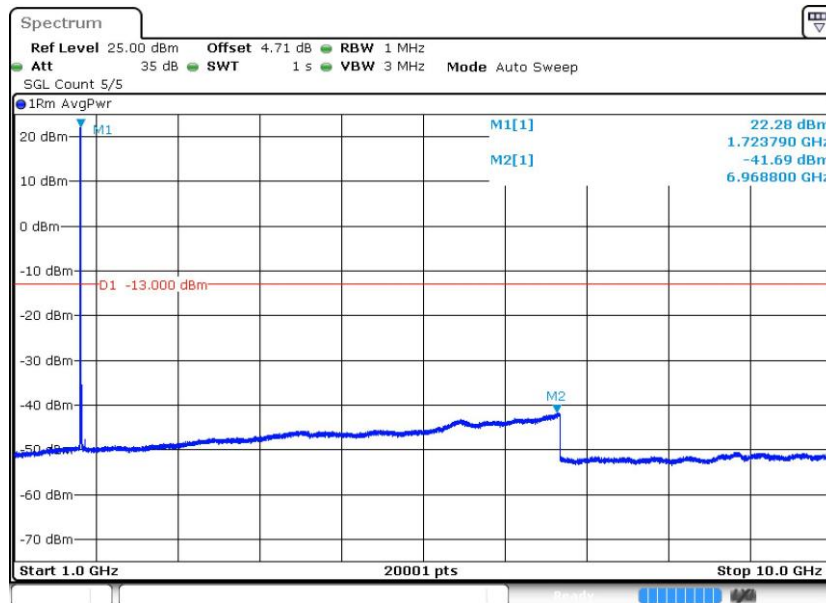
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## Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



Date: 28.DEC.2023 18:03:57

## Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~10000MHz



Date: 28.DEC.2023 18:04:06



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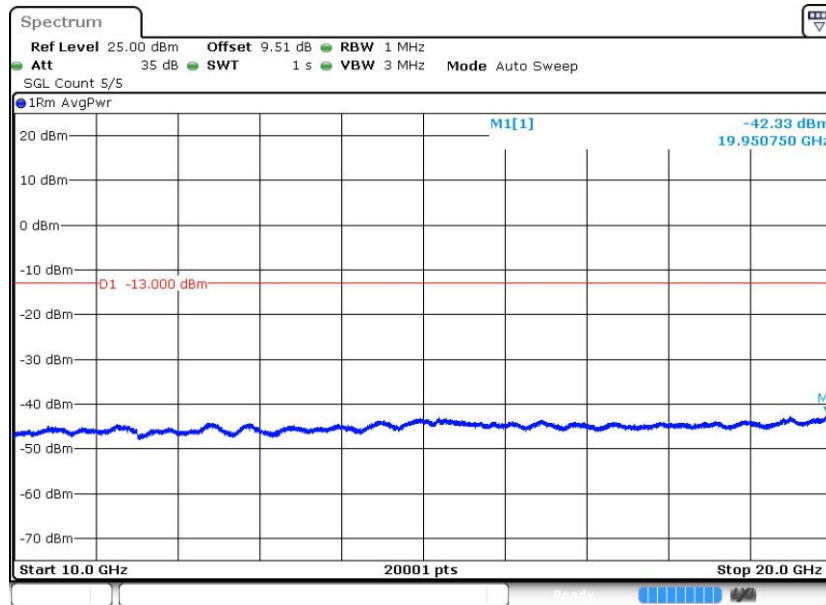
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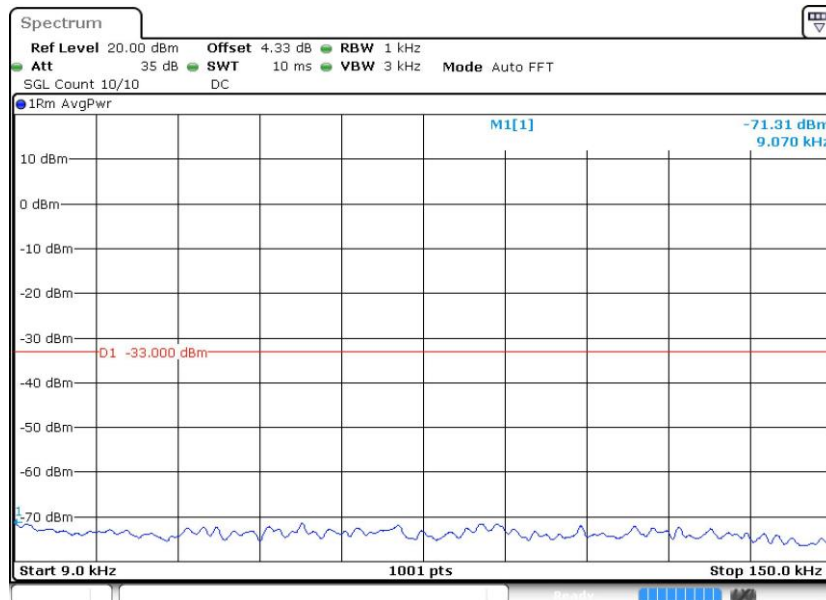
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## Band4-20MHz-QPSK-20175-1RB#0-Range5:10000~20000MHz



Date: 28 DEC. 2023 18:04:15

## Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



Date: 28 DEC. 2023 18:04:28



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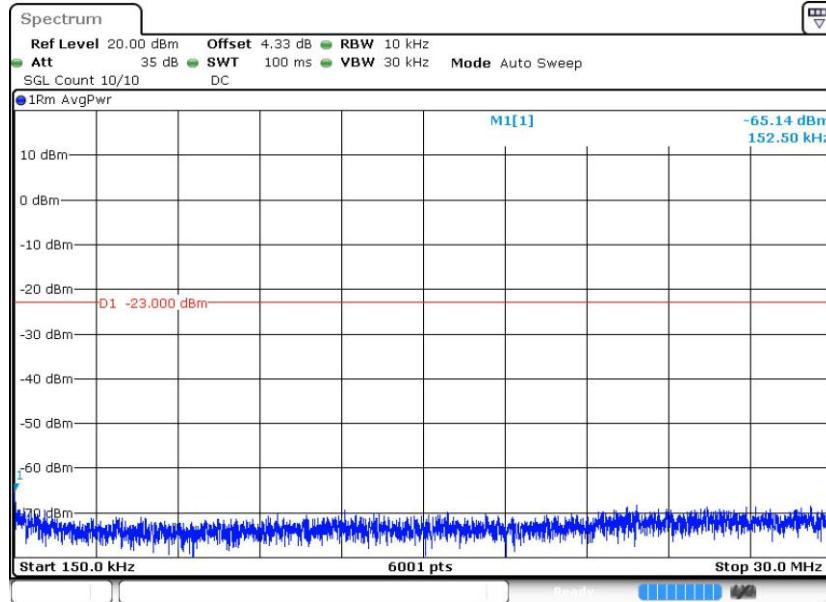
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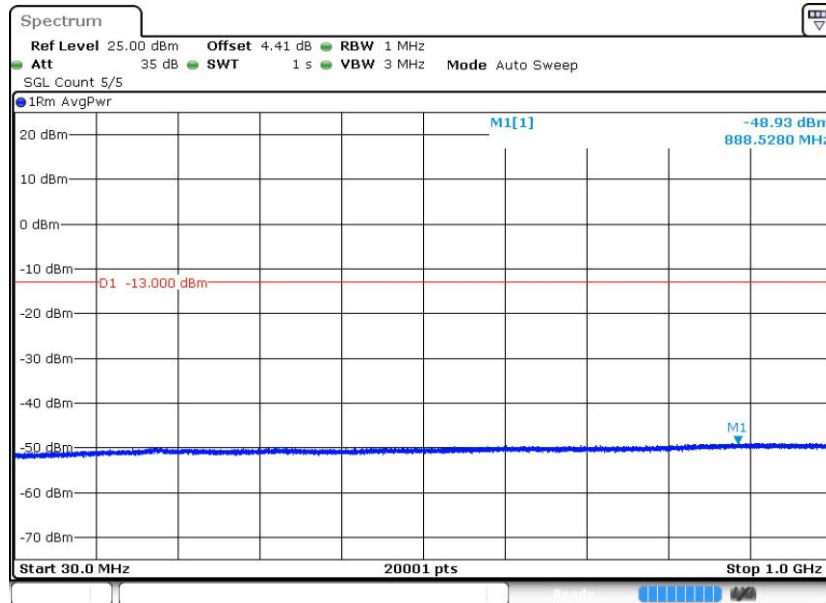
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## Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



## Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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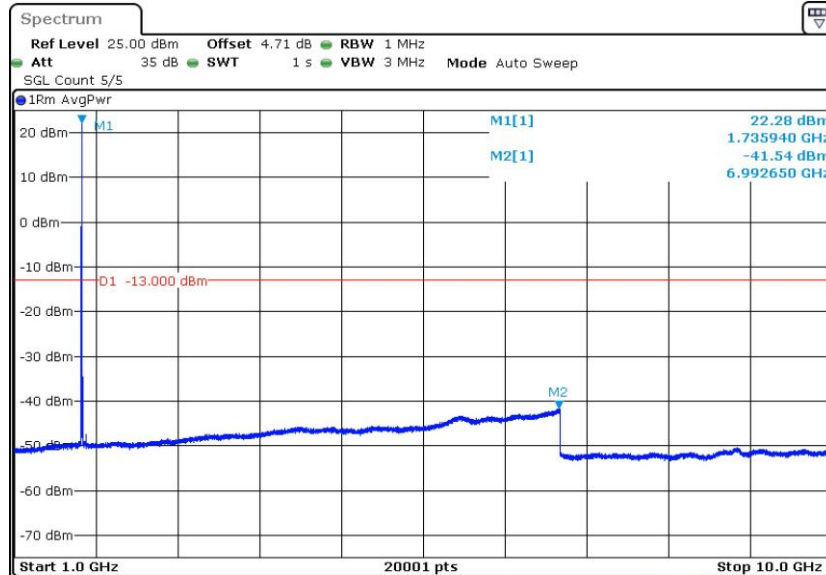
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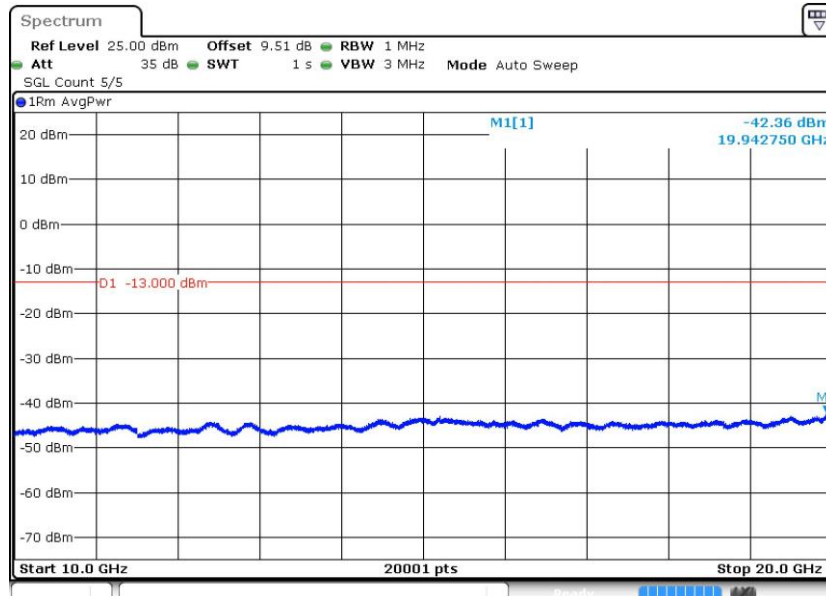
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## Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~10000MHz



Date: 28 DEC. 2023 18:04:50

## Band4-20MHz-QPSK-20300-1RB#0-Range5:10000~20000MHz



Date: 28 DEC. 2023 18:04:58



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## Field Strength of Spurious Radiation

Test Band = B4\_ TM1

Test Channel = Low channel

| Final Data List |                 |                |           |             |             |             |             |            |
|-----------------|-----------------|----------------|-----------|-------------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3422.0000       | 45.50          | 28.68     | -47.01      | -68.09      | -13.00      | 55.09       | Horizontal |
| 2               | 5133.0000       | 44.77          | 31.72     | -47.02      | -65.79      | -13.00      | 52.79       | Horizontal |
| 3               | 6844.0000       | 44.24          | 35.43     | -46.12      | -61.71      | -13.00      | 48.71       | Horizontal |
| 4               | 8555.0000       | 41.53          | 36.14     | -43.31      | -60.90      | -13.00      | 47.90       | Horizontal |
| 5               | 10266.0000      | 38.31          | 38.72     | -40.54      | -58.77      | -13.00      | 45.77       | Horizontal |
| 6               | 11977.0000      | 37.10          | 39.80     | -38.68      | -57.04      | -13.00      | 44.04       | Horizontal |

| Final Data List |                 |                |           |             |             |             |             |          |
|-----------------|-----------------|----------------|-----------|-------------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3422.0000       | 45.15          | 28.68     | -47.01      | -68.44      | -13.00      | 55.44       | Vertical |
| 2               | 5133.0000       | 46.35          | 31.72     | -47.02      | -64.21      | -13.00      | 51.21       | Vertical |
| 3               | 6844.0000       | 45.28          | 35.43     | -46.12      | -60.67      | -13.00      | 47.67       | Vertical |
| 4               | 8555.0000       | 41.75          | 36.14     | -43.31      | -60.68      | -13.00      | 47.68       | Vertical |
| 5               | 10266.0000      | 37.79          | 38.72     | -40.54      | -59.29      | -13.00      | 46.29       | Vertical |
| 6               | 11977.0000      | 37.21          | 39.80     | -38.68      | -56.93      | -13.00      | 43.93       | Vertical |



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**Test Band = B4\_ TM1**  
**Test Channel = Mid channel**

| Final Data List |                 |                |           |             |             |             |             |            |
|-----------------|-----------------|----------------|-----------|-------------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3447.0000       | 44.86          | 28.69     | -46.98      | -68.69      | -13.00      | 55.69       | Horizontal |
| 2               | 5170.5000       | 44.63          | 31.81     | -46.96      | -65.78      | -13.00      | 52.78       | Horizontal |
| 3               | 6894.0000       | 43.66          | 35.55     | -46.10      | -62.15      | -13.00      | 49.15       | Horizontal |
| 4               | 8617.5000       | 41.09          | 36.14     | -43.18      | -61.21      | -13.00      | 48.21       | Horizontal |
| 5               | 10341.0000      | 38.60          | 38.81     | -40.30      | -58.15      | -13.00      | 45.15       | Horizontal |
| 6               | 12064.5000      | 36.86          | 39.79     | -38.68      | -57.29      | -13.00      | 44.29       | Horizontal |

| Final Data List |                 |                |           |             |             |             |             |          |
|-----------------|-----------------|----------------|-----------|-------------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3447.0000       | 44.90          | 28.69     | -46.98      | -68.65      | -13.00      | 55.65       | Vertical |
| 2               | 5170.5000       | 45.90          | 31.81     | -46.96      | -64.51      | -13.00      | 51.51       | Vertical |
| 3               | 6894.0000       | 44.10          | 35.55     | -46.10      | -61.71      | -13.00      | 48.71       | Vertical |
| 4               | 8617.5000       | 41.49          | 36.14     | -43.18      | -60.81      | -13.00      | 47.81       | Vertical |
| 5               | 10341.0000      | 38.69          | 38.81     | -40.30      | -58.06      | -13.00      | 45.06       | Vertical |
| 6               | 12064.5000      | 37.22          | 39.79     | -38.68      | -56.93      | -13.00      | 43.93       | Vertical |



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**Test Band = B4\_ TM1**  
**Test Channel = High channel**

| Final Data List |                 |                |           |             |             |             |             |            |
|-----------------|-----------------|----------------|-----------|-------------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3472.0000       | 44.50          | 28.69     | -46.95      | -69.02      | -13.00      | 56.02       | Horizontal |
| 2               | 5208.0000       | 44.65          | 31.90     | -46.94      | -65.65      | -13.00      | 52.65       | Horizontal |
| 3               | 6944.0000       | 43.84          | 35.67     | -45.94      | -61.69      | -13.00      | 48.69       | Horizontal |
| 4               | 8680.0000       | 41.10          | 36.13     | -43.17      | -61.20      | -13.00      | 48.20       | Horizontal |
| 5               | 10416.0000      | 38.19          | 38.90     | -40.46      | -58.63      | -13.00      | 45.63       | Horizontal |
| 6               | 12152.0000      | 37.22          | 39.78     | -38.85      | -57.11      | -13.00      | 44.11       | Horizontal |

| Final Data List |                 |                |           |             |             |             |             |          |
|-----------------|-----------------|----------------|-----------|-------------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3472.0000       | 44.60          | 28.69     | -46.95      | -68.92      | -13.00      | 55.92       | Vertical |
| 2               | 5208.0000       | 44.42          | 31.90     | -46.94      | -65.88      | -13.00      | 52.88       | Vertical |
| 3               | 6944.0000       | 43.70          | 35.67     | -45.94      | -61.83      | -13.00      | 48.83       | Vertical |
| 4               | 8680.0000       | 41.21          | 36.13     | -43.17      | -61.09      | -13.00      | 48.09       | Vertical |
| 5               | 10416.0000      | 38.48          | 38.90     | -40.46      | -58.34      | -13.00      | 45.34       | Vertical |
| 6               | 12152.0000      | 36.69          | 39.78     | -38.85      | -57.64      | -13.00      | 44.64       | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VL            | NT               | 2.70           | 0.001558        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VN            | NT               | 0.70           | 0.000404        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VH            | NT               | 2.70           | 0.001558        | PASS    |

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -30              | 0.00           | 0.000000        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -20              | 0.40           | 0.000231        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -10              | 0.80           | 0.000462        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 0                | 1.70           | 0.000981        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 10               | -0.60          | -0.000346       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 20               | 0.80           | 0.000462        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 30               | 0.90           | 0.000519        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 40               | -0.40          | -0.000231       | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 50               | -0.10          | -0.000058       | PASS    |

---End of Attachment---



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Shenzhen Branch

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