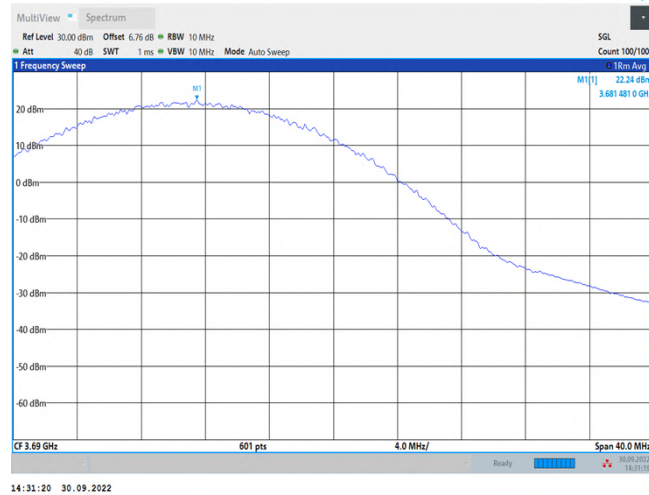
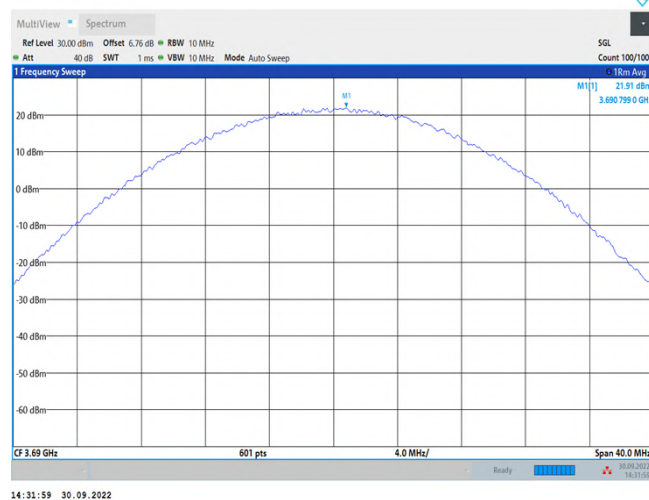


### Band48-20MHz-16QAM-56640-1RB#0



### Band48-20MHz-16QAM-56640-1RB#49



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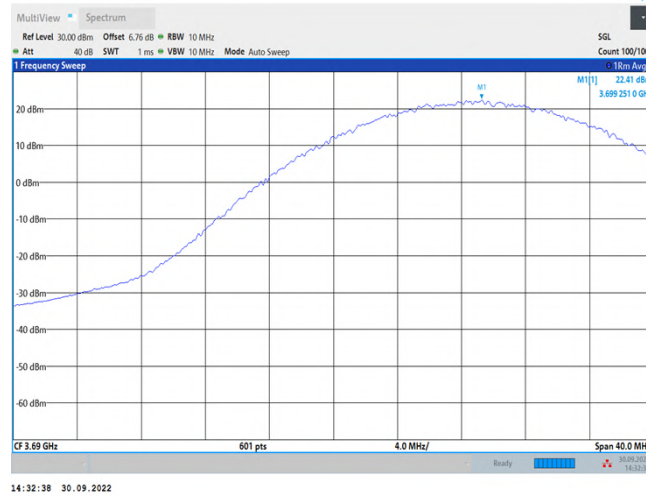
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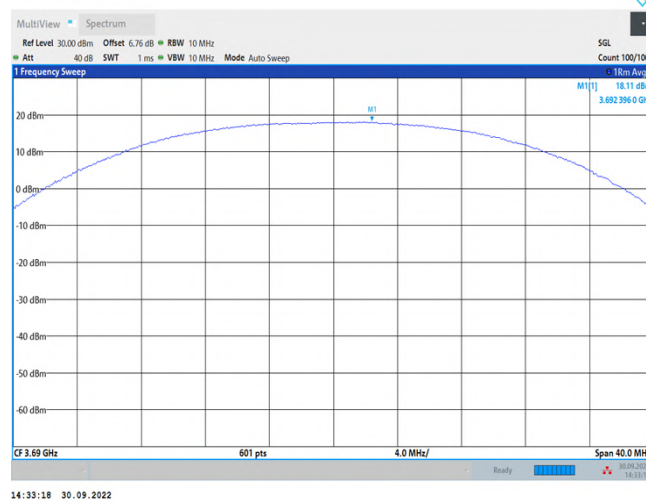
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### Band48-20MHz-16QAM-56640-1RB#99



### Band48-20MHz-16QAM-56640-100RB#0



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band48 | 20MHz     | QPSK       | 55340   | 100RB#0          | 7.48       | 13        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0          | 7.28       | 13        | PASS    |
| Band48 | 20MHz     | QPSK       | 56640   | 100RB#0          | 6.76       | 13        | PASS    |
| Band48 | 20MHz     | 16QAM      | 55340   | 100RB#0          | 8.26       | 13        | PASS    |
| Band48 | 20MHz     | 16QAM      | 55990   | 100RB#0          | 7.90       | 13        | PASS    |
| Band48 | 20MHz     | 16QAM      | 56640   | 100RB#0          | 7.42       | 13        | PASS    |



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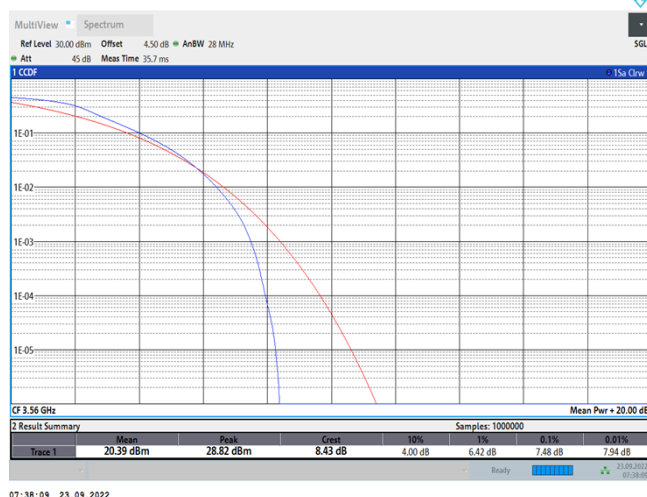
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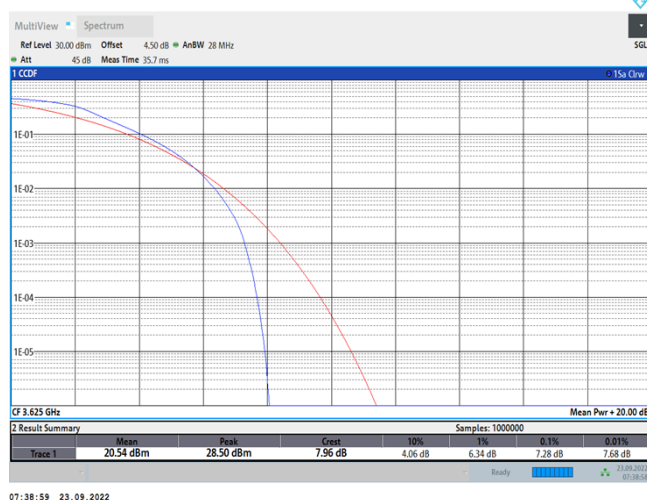
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### Test Graphs

Band48-20MHz-QPSK-55340-100RB#0



Band48-20MHz-QPSK-55990-100RB#0



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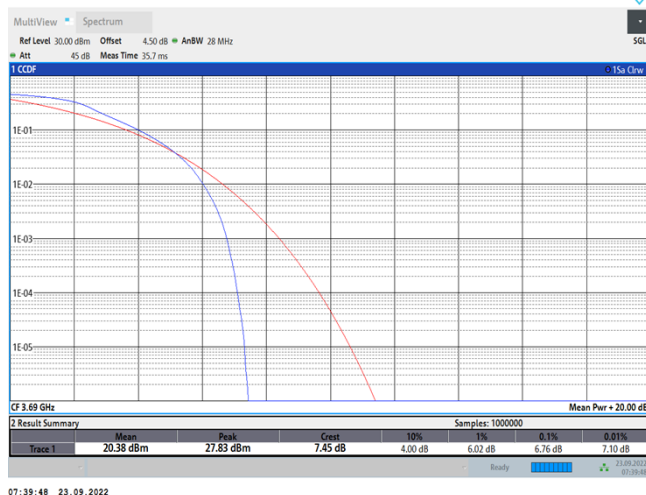
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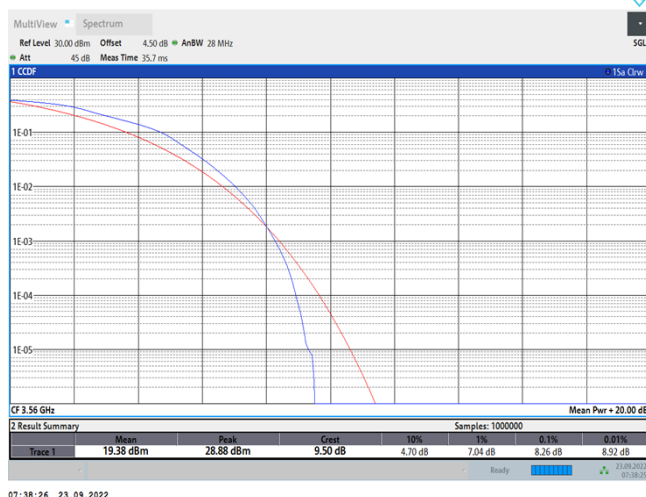
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## Band48-20MHz-QPSK-56640-100RB#0



## Band48-20MHz-16QAM-55340-100RB#0



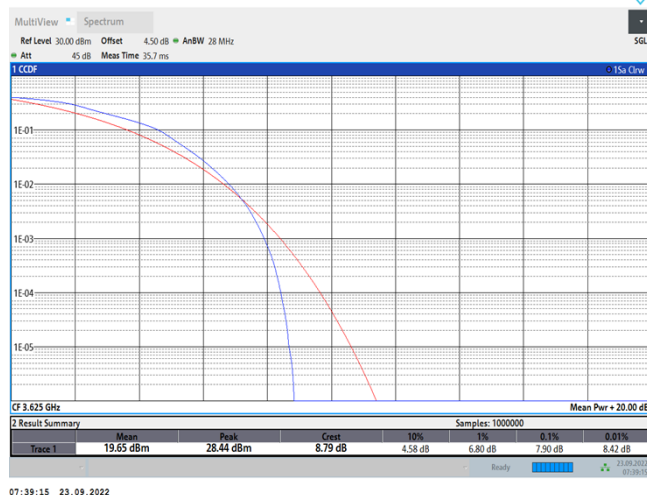
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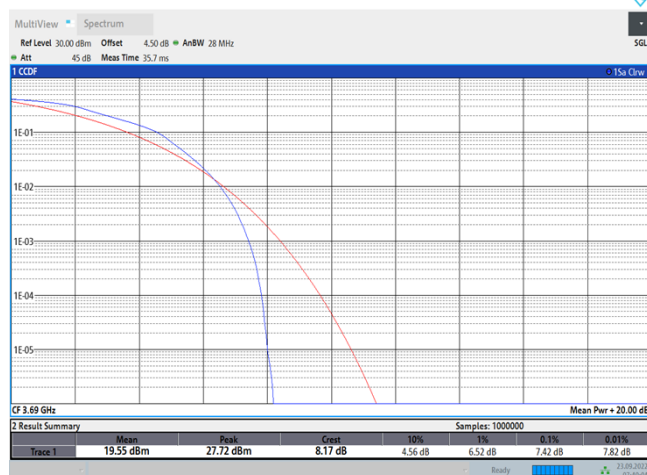
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## Band48-20MHz-16QAM-55990-100RB#0



07:39:15 23.09.2022

## Band48-20MHz-16QAM-56640-100RB#0



07:40:04 23.09.2022



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band48 | 5MHz      | QPSK       | 55265   | 25RB#0           | 4.5                      | 4.99                 | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 25RB#0           | 4.497                    | 4.97                 | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 25RB#0           | 4.502                    | 4.97                 | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 25RB#0           | 4.504                    | 5.07                 | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 25RB#0           | 4.502                    | 5.08                 | PASS    |
| Band48 | 5MHz      | 16QAM      | 56715   | 25RB#0           | 4.502                    | 5.10                 | PASS    |
| Band48 | 10MHz     | QPSK       | 55290   | 50RB#0           | 8.992                    | 9.93                 | PASS    |
| Band48 | 10MHz     | QPSK       | 55990   | 50RB#0           | 9.008                    | 9.90                 | PASS    |
| Band48 | 10MHz     | QPSK       | 56690   | 50RB#0           | 9.006                    | 9.97                 | PASS    |
| Band48 | 10MHz     | 16QAM      | 55290   | 50RB#0           | 8.969                    | 9.83                 | PASS    |
| Band48 | 10MHz     | 16QAM      | 55990   | 50RB#0           | 8.967                    | 9.77                 | PASS    |
| Band48 | 10MHz     | 16QAM      | 56690   | 50RB#0           | 8.963                    | 9.90                 | PASS    |
| Band48 | 15MHz     | QPSK       | 55315   | 75RB#0           | 13.5                     | 14.80                | PASS    |
| Band48 | 15MHz     | QPSK       | 55990   | 75RB#0           | 13.478                   | 14.75                | PASS    |
| Band48 | 15MHz     | QPSK       | 56665   | 75RB#0           | 13.479                   | 14.80                | PASS    |
| Band48 | 15MHz     | 16QAM      | 55315   | 75RB#0           | 13.462                   | 14.95                | PASS    |
| Band48 | 15MHz     | 16QAM      | 55990   | 75RB#0           | 13.465                   | 14.75                | PASS    |
| Band48 | 15MHz     | 16QAM      | 56665   | 75RB#0           | 13.462                   | 14.85                | PASS    |
| Band48 | 20MHz     | QPSK       | 55340   | 100RB#0          | 18.024                   | 19.80                | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0          | 18.027                   | 19.73                | PASS    |
| Band48 | 20MHz     | QPSK       | 56640   | 100RB#0          | 18.049                   | 19.80                | PASS    |
| Band48 | 20MHz     | 16QAM      | 55340   | 100RB#0          | 18.001                   | 19.67                | PASS    |
| Band48 | 20MHz     | 16QAM      | 55990   | 100RB#0          | 17.969                   | 19.67                | PASS    |
| Band48 | 20MHz     | 16QAM      | 56640   | 100RB#0          | 17.999                   | 19.73                | PASS    |



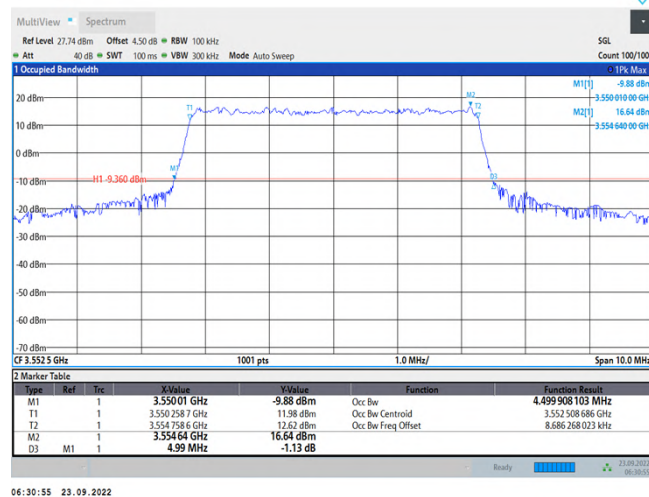
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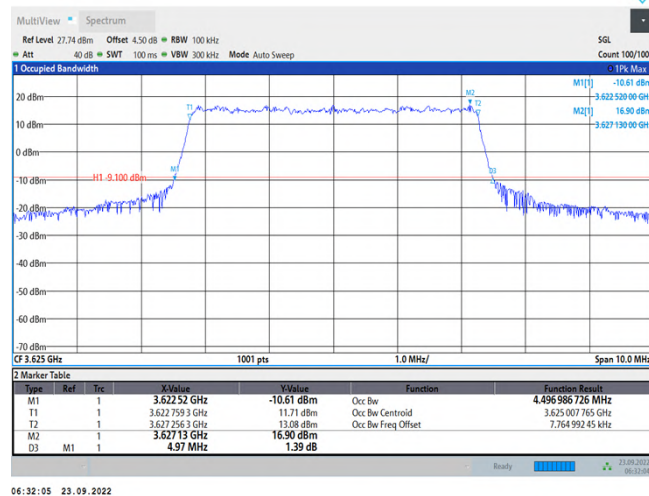
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## Test Graphs

Band48-5MHz-QPSK-55265-25RB#0



Band48-5MHz-QPSK-55990-25RB#0



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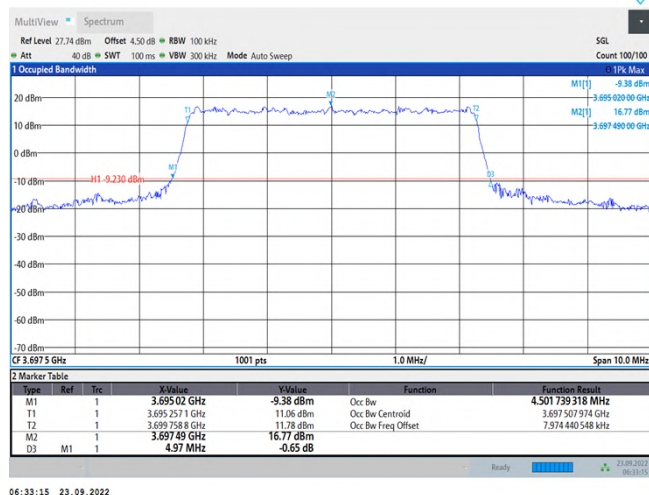
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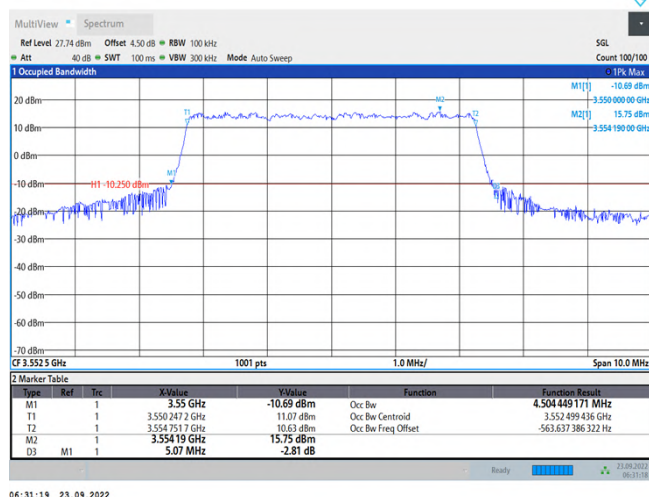
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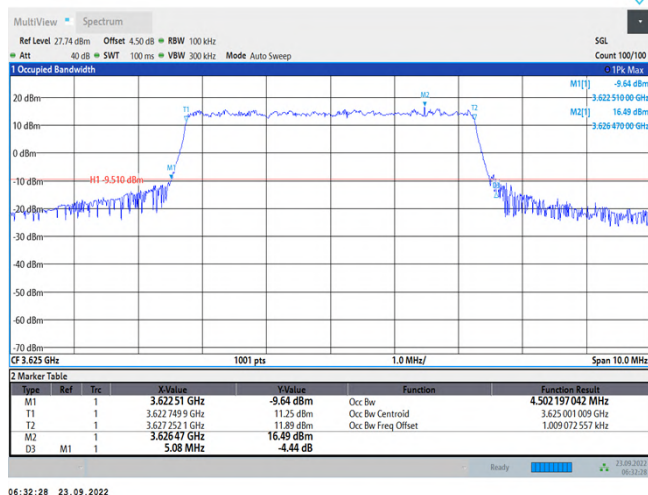
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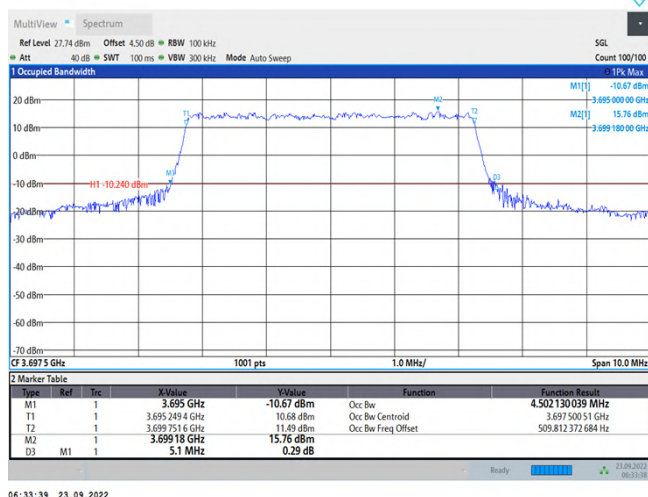
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## Band48-5MHz-16QAM-55990-25RB#0



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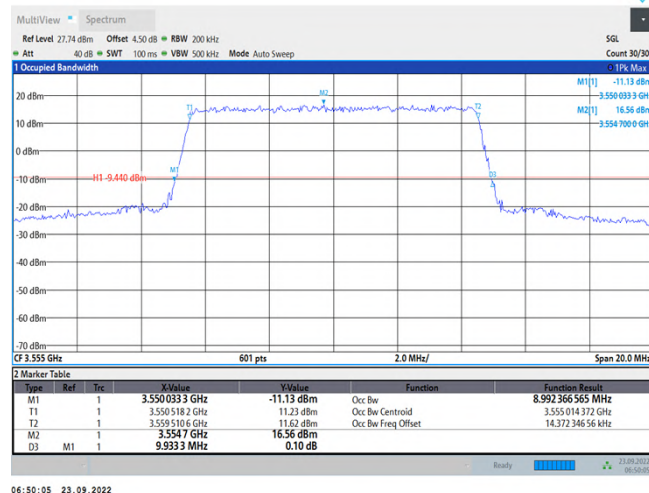
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## Band48-10MHz-QPSK-55290-50RB#0



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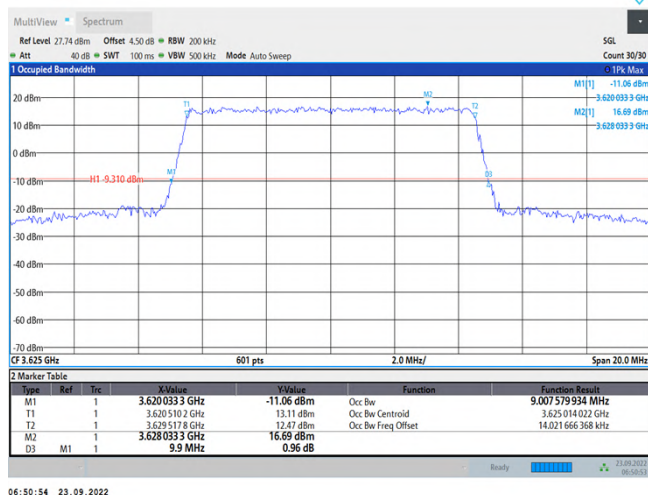
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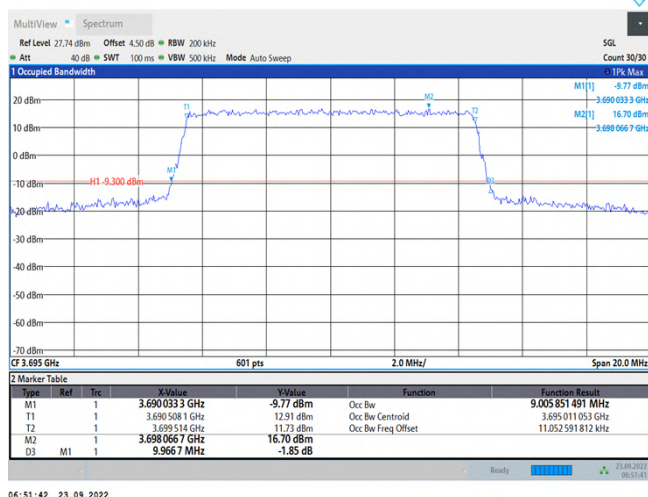
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## Band48-10MHz-QPSK-55990-50RB#0



## Band48-10MHz-QPSK-56690-50RB#0



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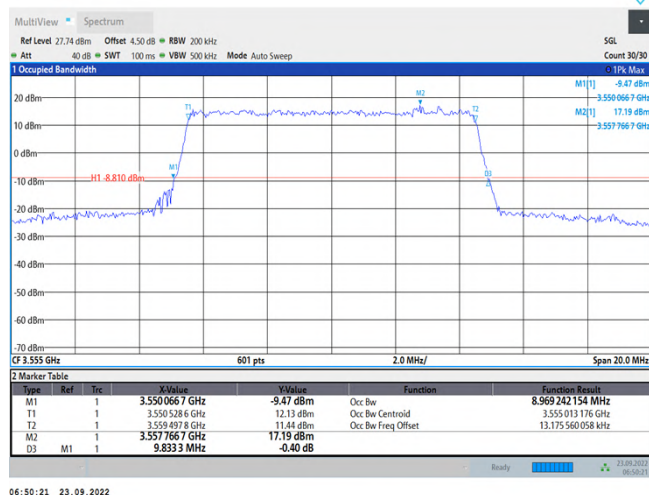
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## Band48-10MHz-16QAM-55290-50RB#0



## Band48-10MHz-16QAM-55990-50RB#0



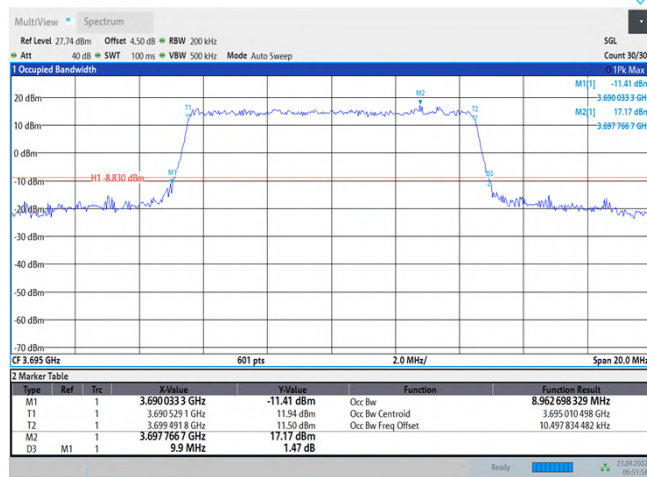
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## Band48-10MHz-16QAM-56690-50RB#0



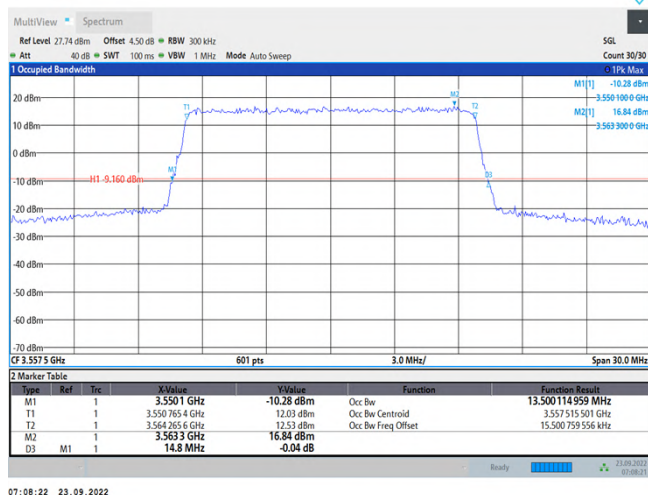
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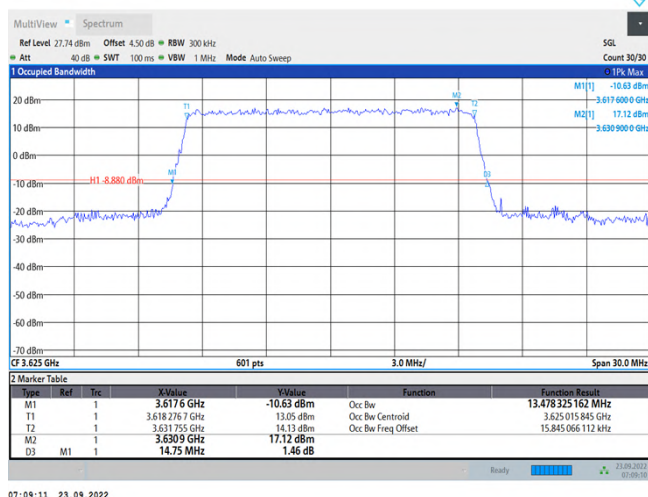
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## Band48-15MHz-QPSK-55315-75RB#0



## Band48-15MHz-QPSK-55990-75RB#0



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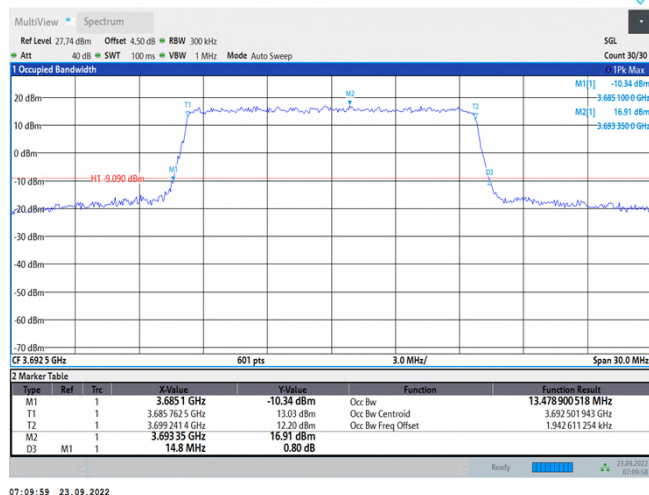
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## Band48-15MHz-QPSK-56665-75RB#0



## Band48-15MHz-16QAM-55315-75RB#0



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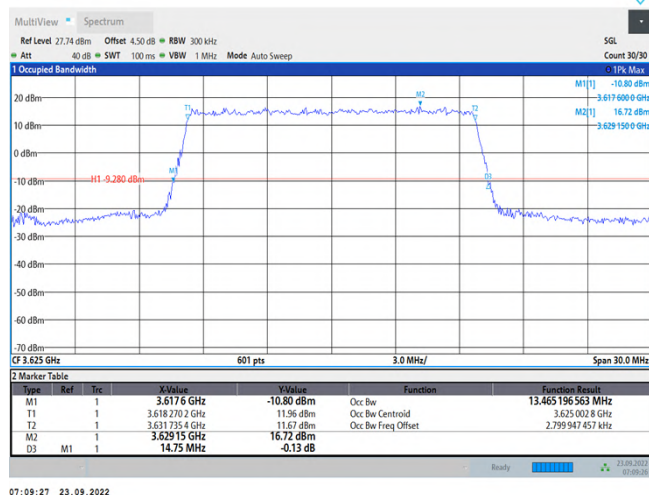
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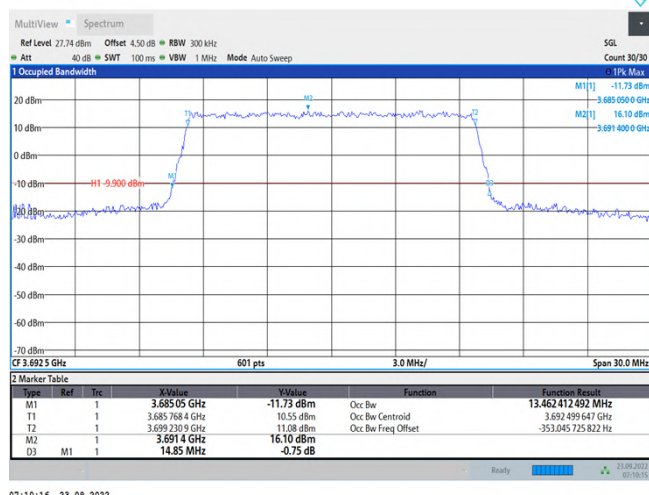


## Band48-15MHz-16QAM-55990-75RB#0



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## Band48-15MHz-16QAM-56665-75RB#0



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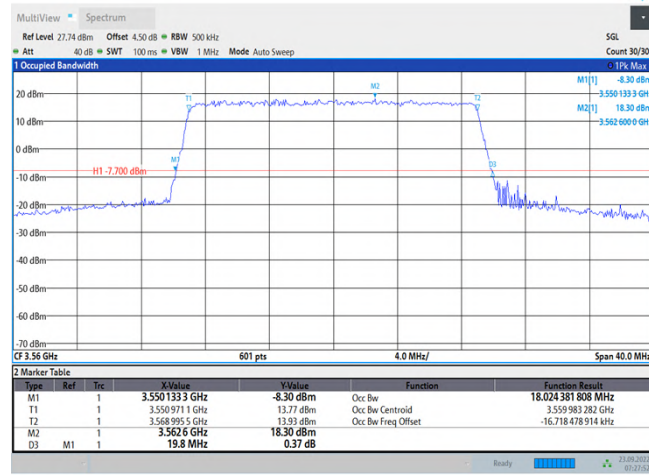
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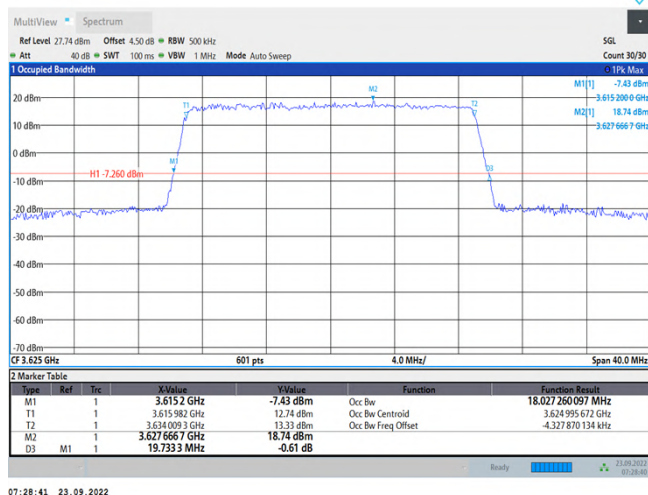
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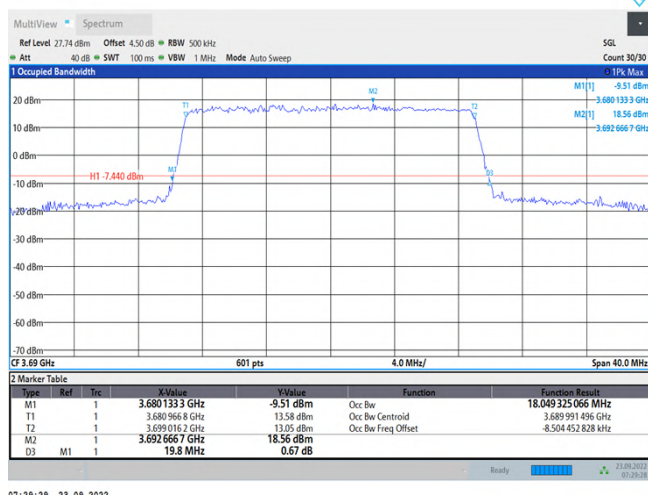
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### Band48-20MHz-QPSK-55990-100RB#0



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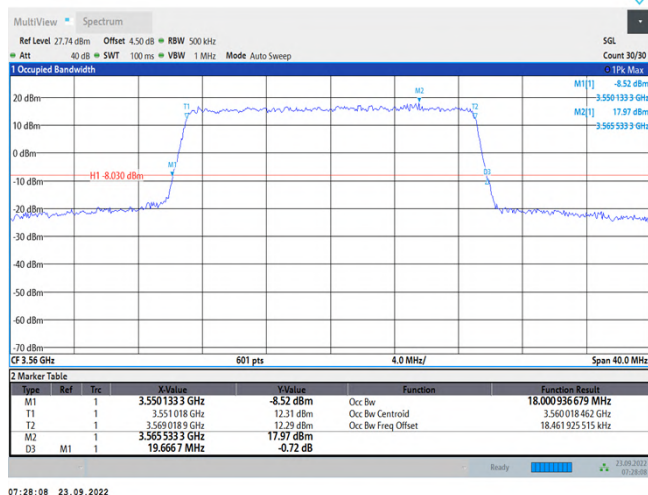
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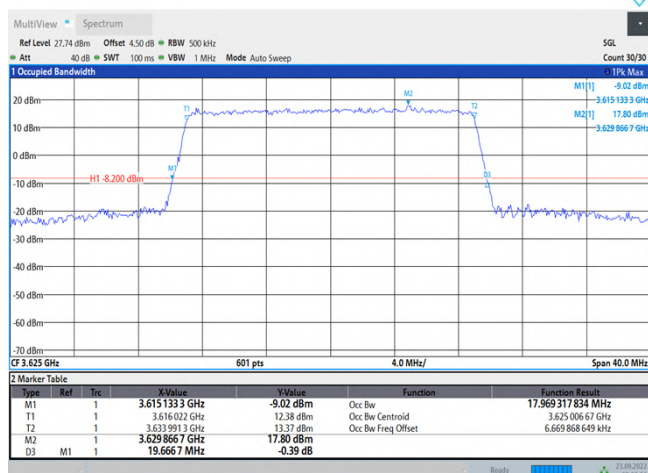


### Band48-20MHz-16QAM-55340-100RB#0



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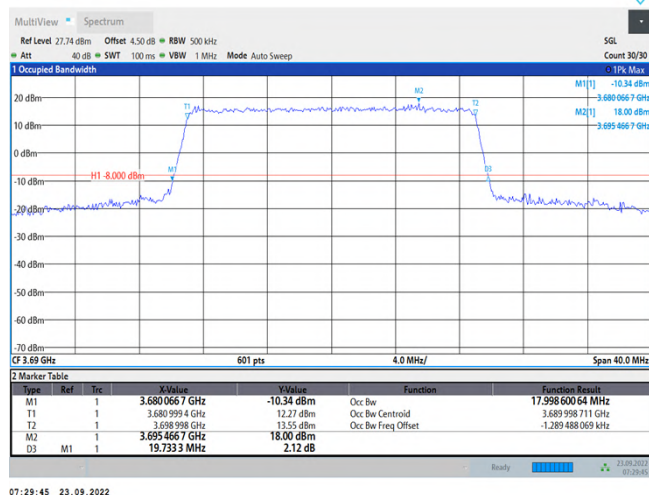
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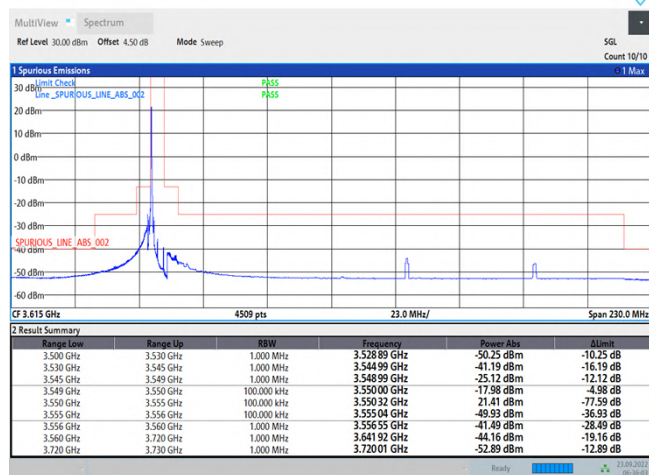


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## Band Edge

## Test Graphs

## Band48-5MHz-QPSK-55265-1RB#0



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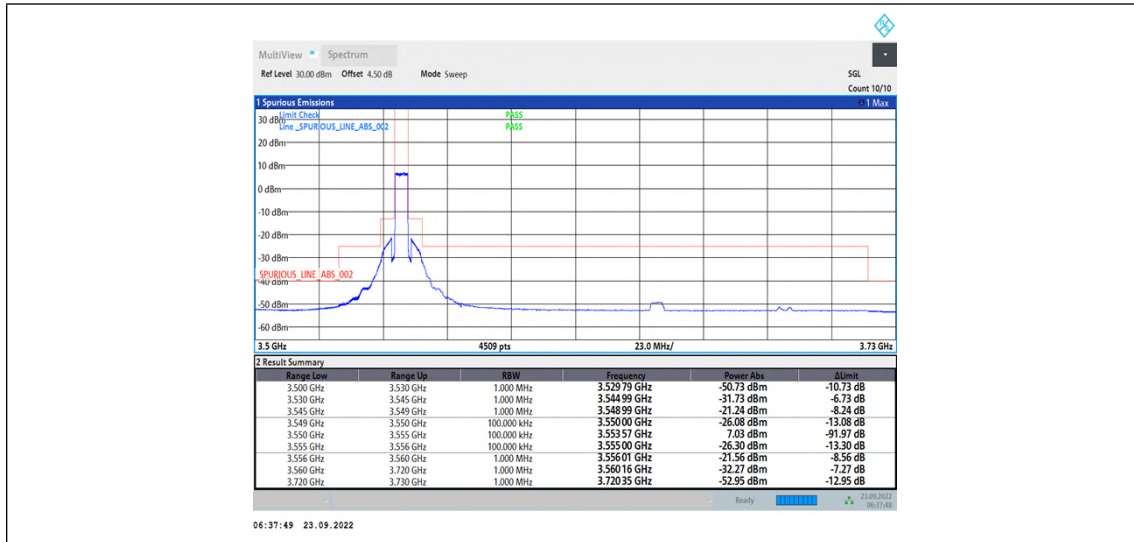


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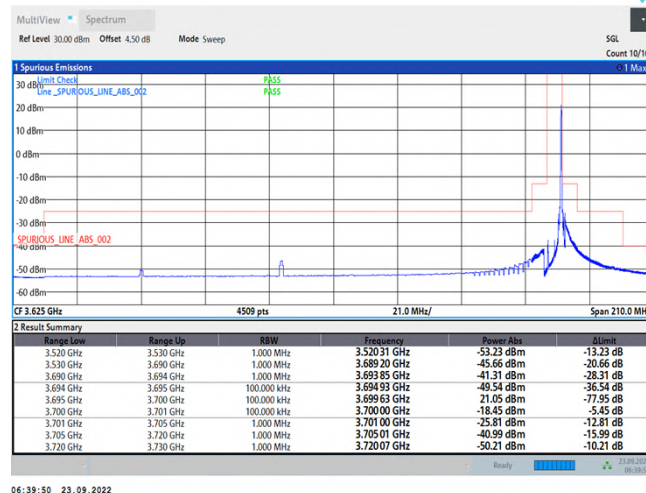
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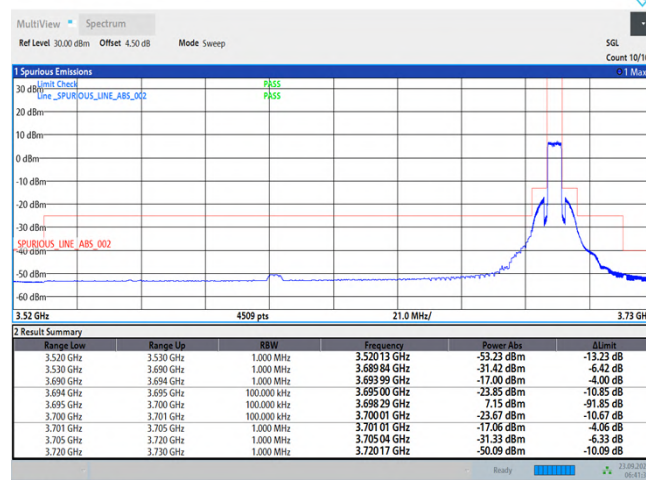
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06:39:50 23.09.2022

### Band48-5MHz-QPSK-56715-25RB#0



06:41:35 23.09.2022



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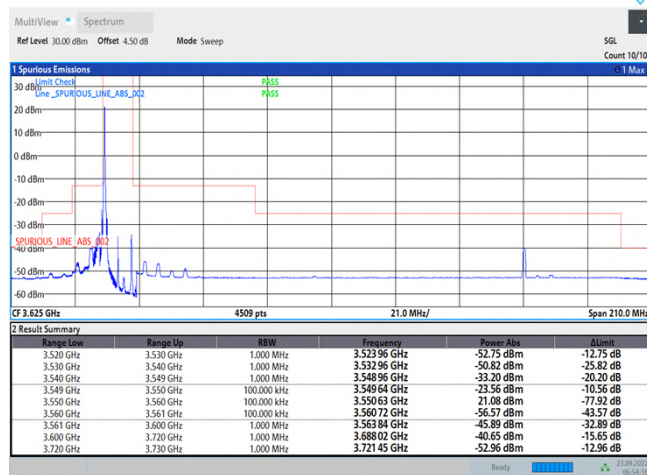
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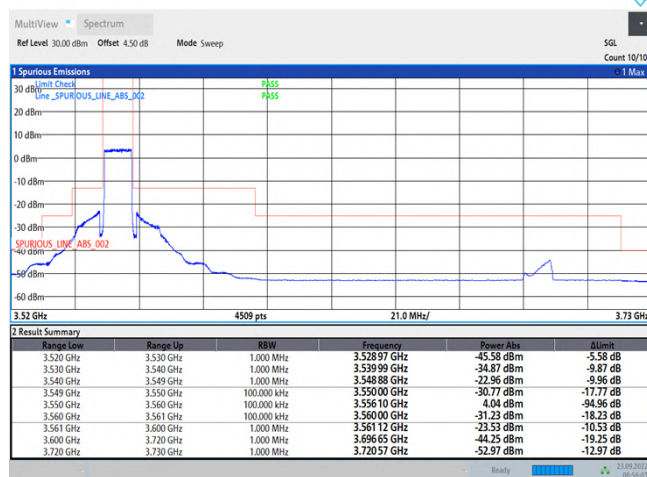
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## Band48-10MHz-QPSK-55290-1RB#0



## Band48-10MHz-QPSK-55290-50RB#0



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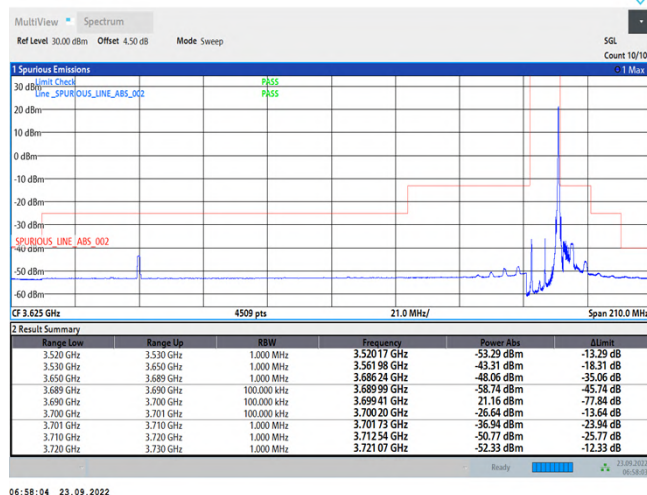
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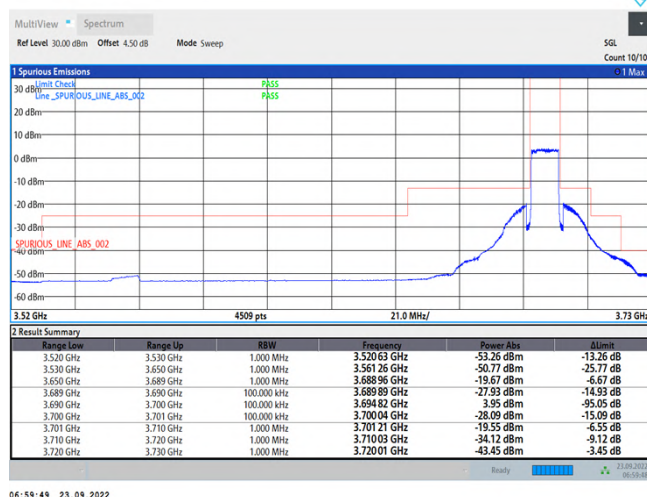
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## Band48-10MHz-QPSK-56690-1RB#49



## Band48-10MHz-QPSK-56690-50RB#0



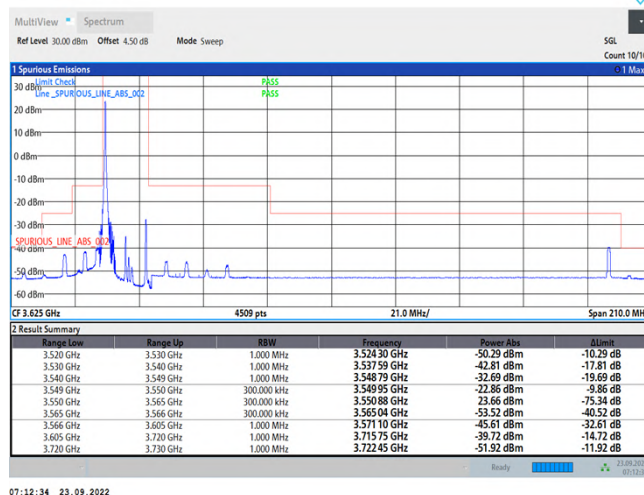
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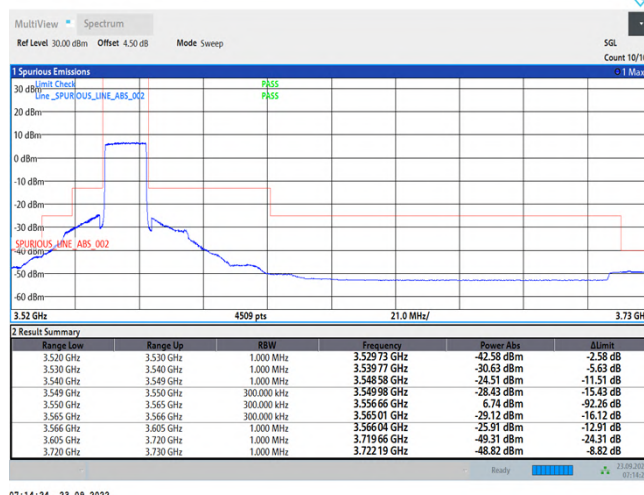
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## Band48-15MHz-QPSK-55315-1RB#0



07:12:34 23.09.2022

## Band48-15MHz-QPSK-55315-75RB#0



07:14:24 23.09.2022



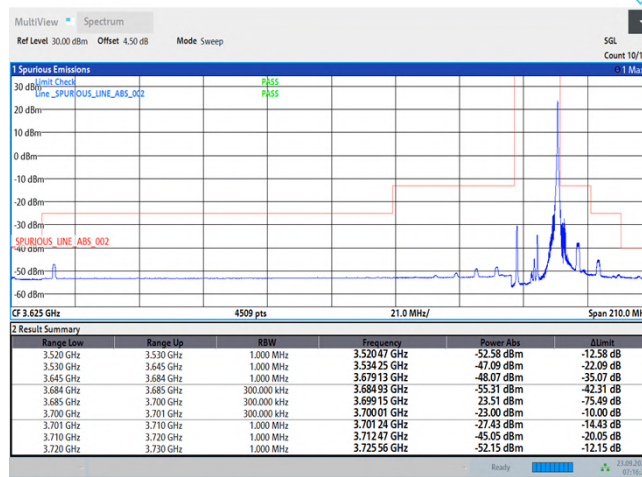
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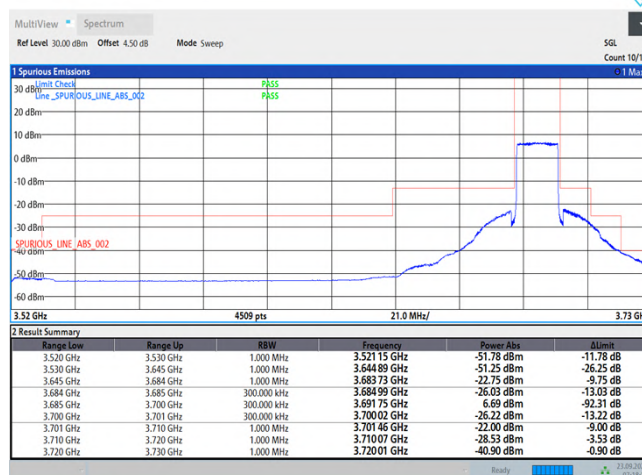
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## Band48-15MHz-QPSK-56665-1RB#74



07:16:26 23.09.2022

## Band48-15MHz-QPSK-56665-75RB#0



07:18:18 23.09.2022



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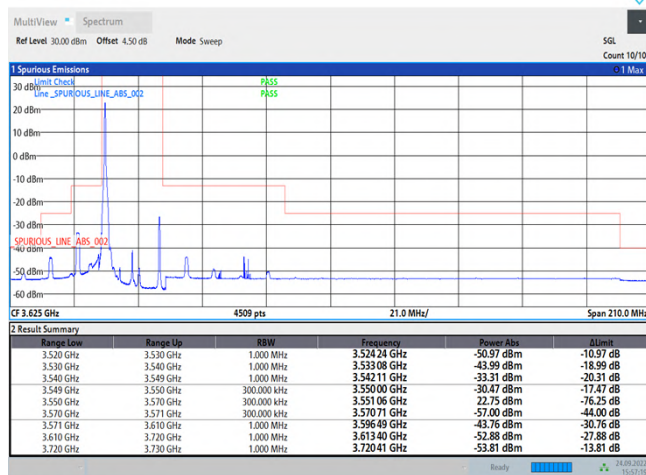
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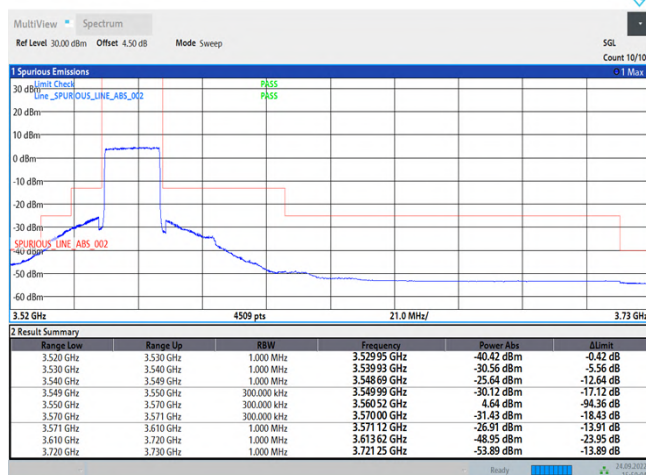


## Band48-20MHz-QPSK-55340-1RB#0



15:57:20 24.09.2022

## Band48-20MHz-QPSK-55340-100RB#0



15:59:05 24.09.2022



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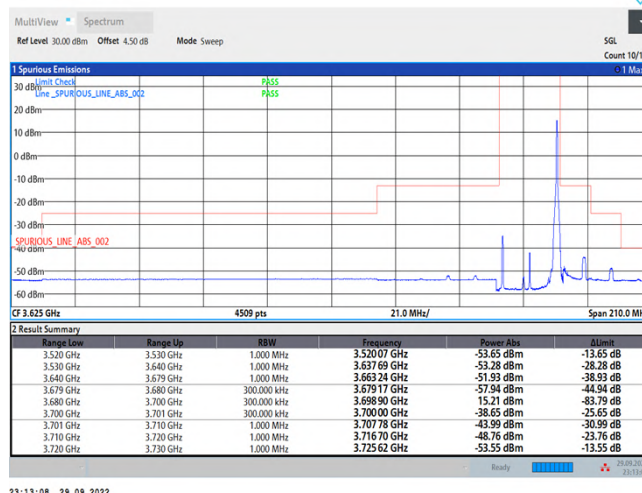
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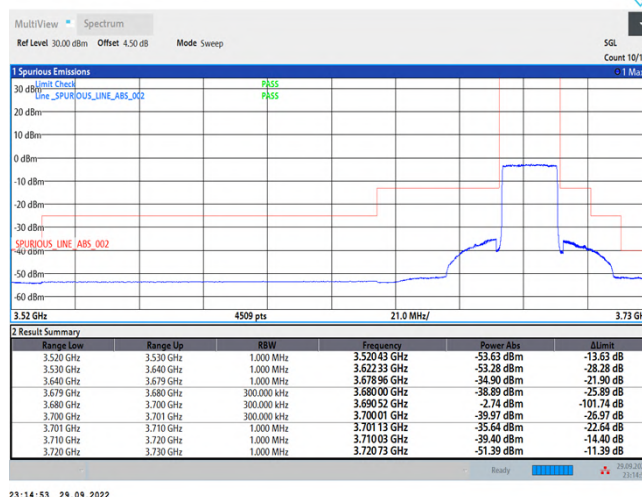
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## Band48-20MHz-QPSK-56640-1RB#99



## Band48-20MHz-QPSK-56640-100RB#0



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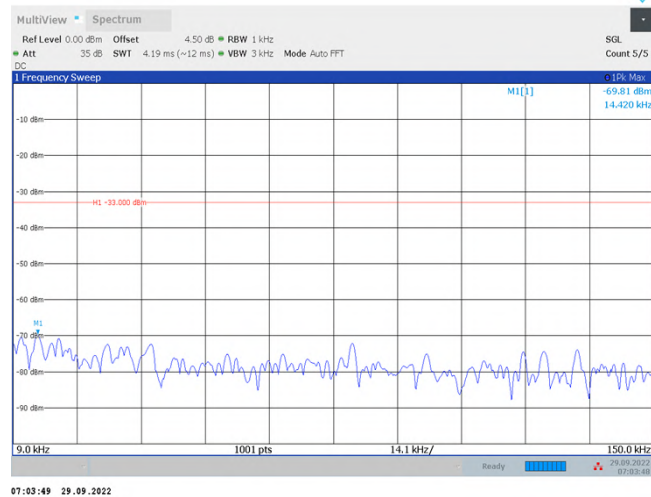
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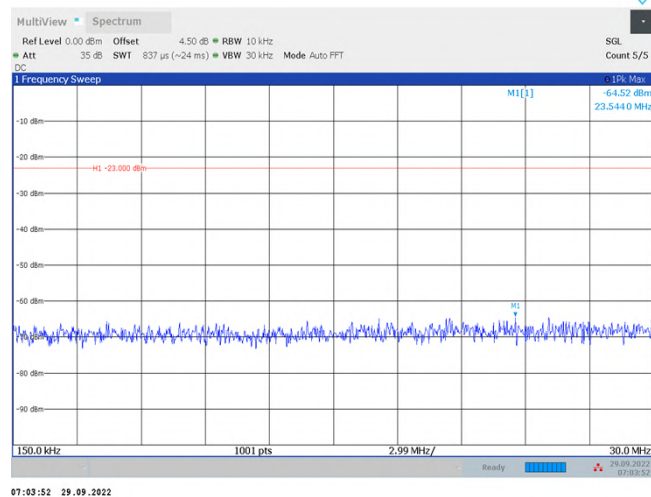
## Conducted Spurious Emission

### Test Graphs

Band48-20MHz-QPSK-55340-1RB#0-Range1:0.009~0.15MHz



Band48-20MHz-QPSK-55340-1RB#0-Range2:0.15~30MHz



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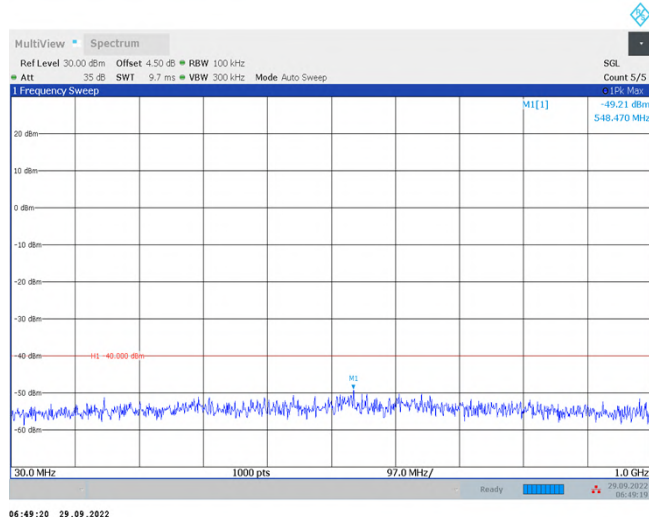
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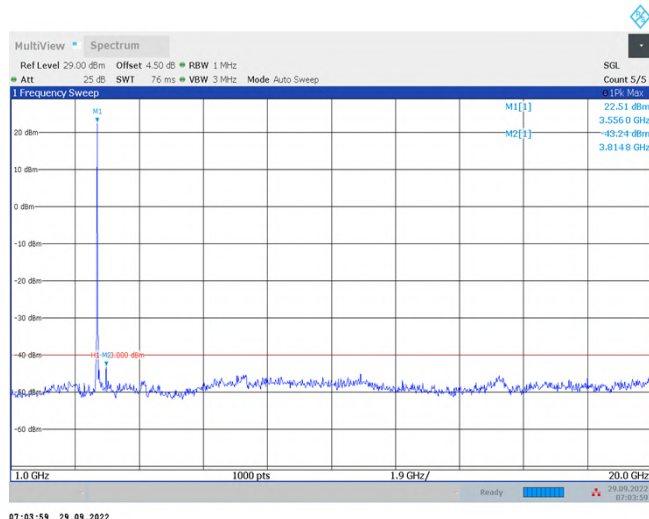
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### Band48-20MHz-QPSK-55340-1RB#0-Range5:30~1000MHz



### Band48-20MHz-QPSK-55340-1RB#0-Range4:1000~20000MHz



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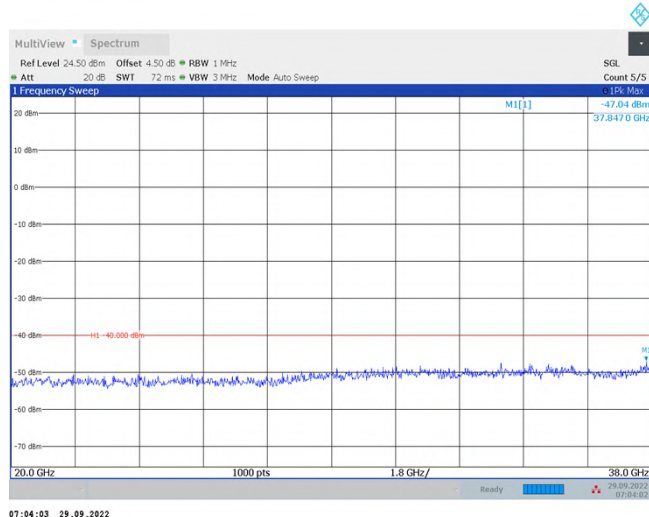
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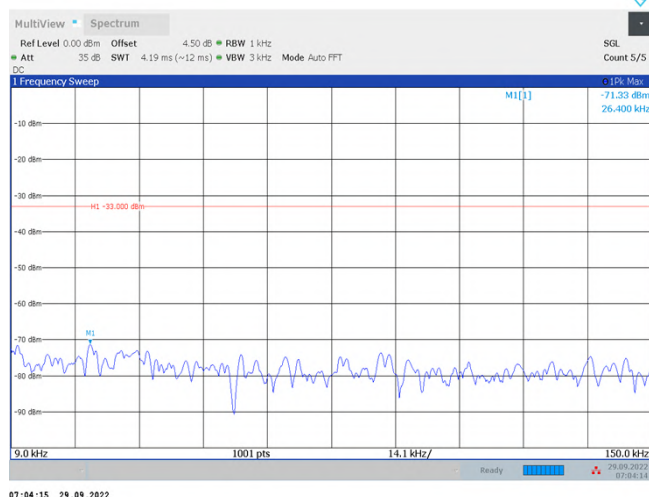
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## Band48-20MHz-QPSK-55340-1RB#0-Range5:20000~38000MHz



## Band48-20MHz-QPSK-55990-1RB#0-Range1:0.009~0.15MHz



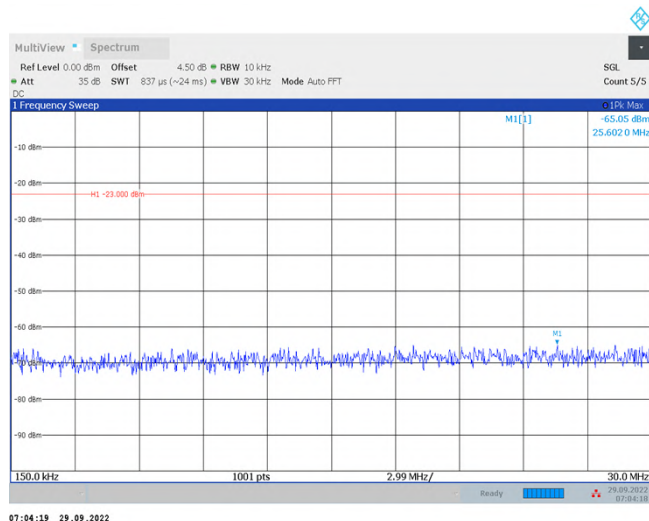
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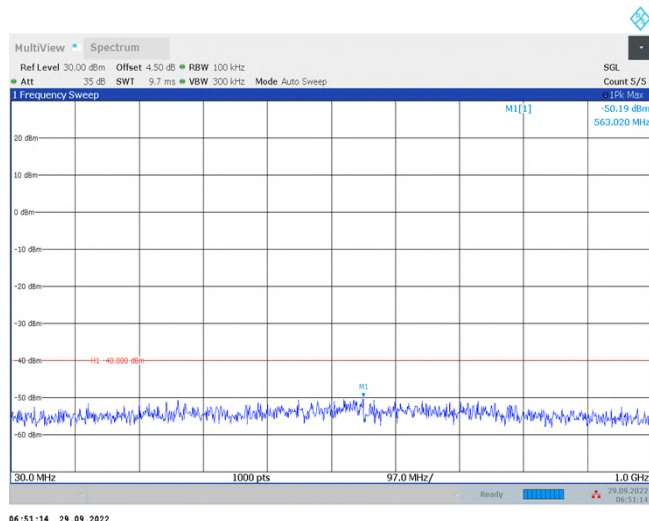
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## Band48-20MHz-QPSK-55990-1RB#0-Range2:0.15~30MHz



## Band48-20MHz-QPSK-55990-1RB#0-Range5:30~1000MHz



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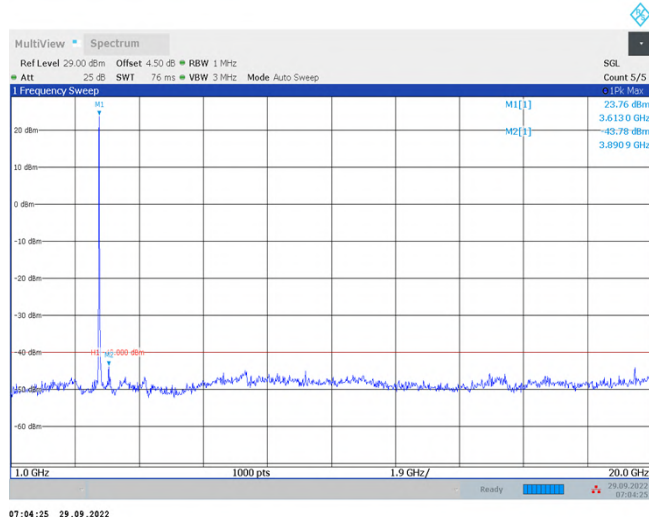
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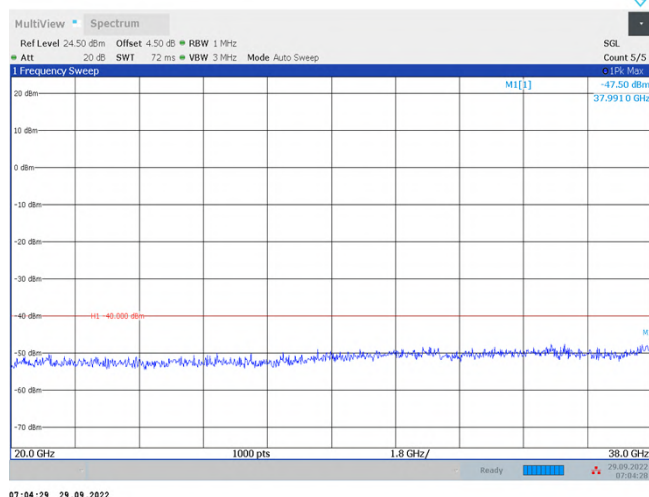
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### Band48-20MHz-QPSK-55990-1RB#0-Range4:1000~20000MHz



### Band48-20MHz-QPSK-55990-1RB#0-Range5:20000~38000MHz



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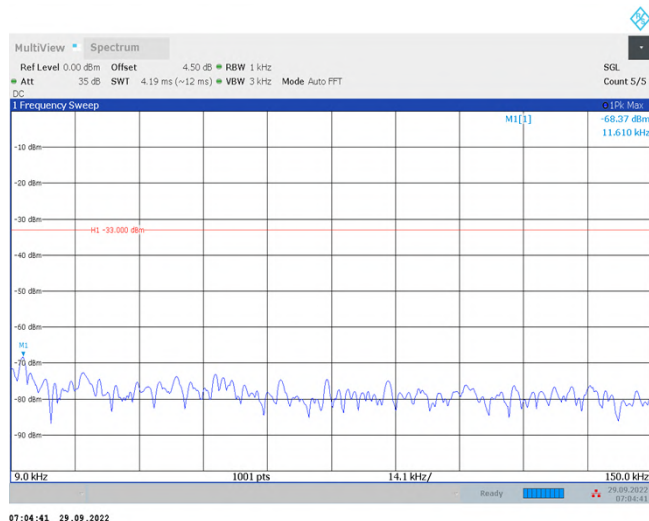
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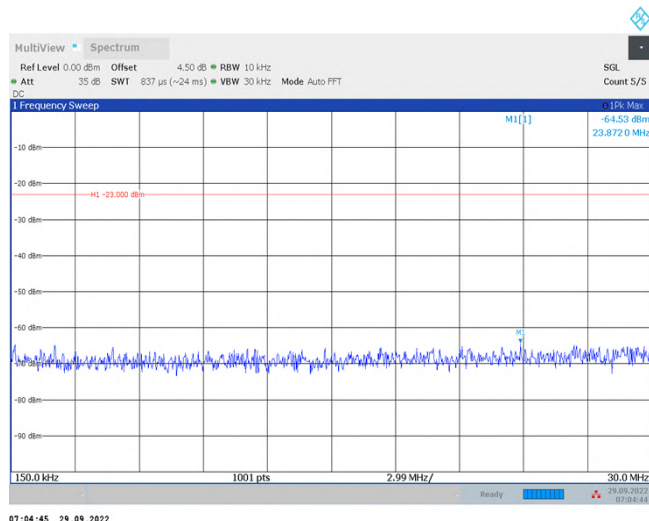
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## Band48-20MHz-QPSK-56640-1RB#0-Range1:0.009~0.15MHz



## Band48-20MHz-QPSK-56640-1RB#0-Range2:0.15~30MHz



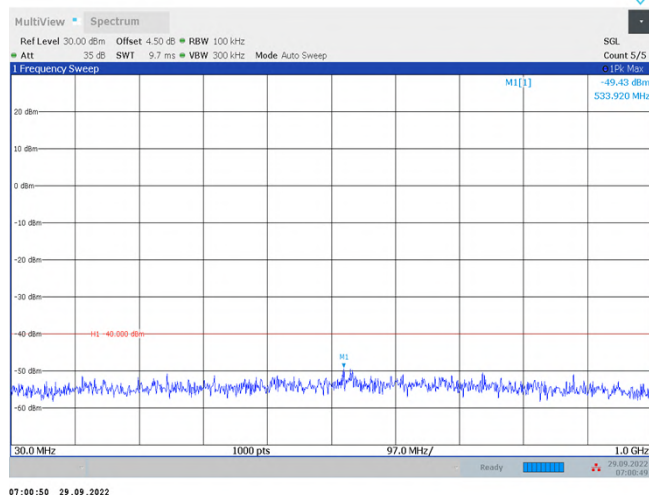
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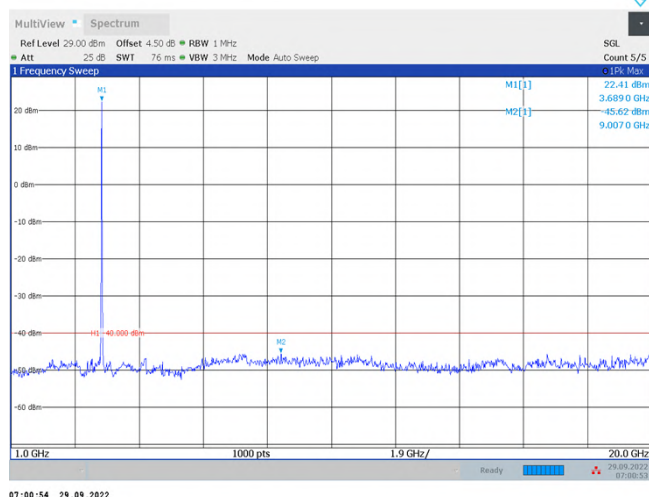
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## Band48-20MHz-QPSK-56640-1RB#0-Range5:30~1000MHz



## Band48-20MHz-QPSK-56640-1RB#0-Range6:1000~20000MHz



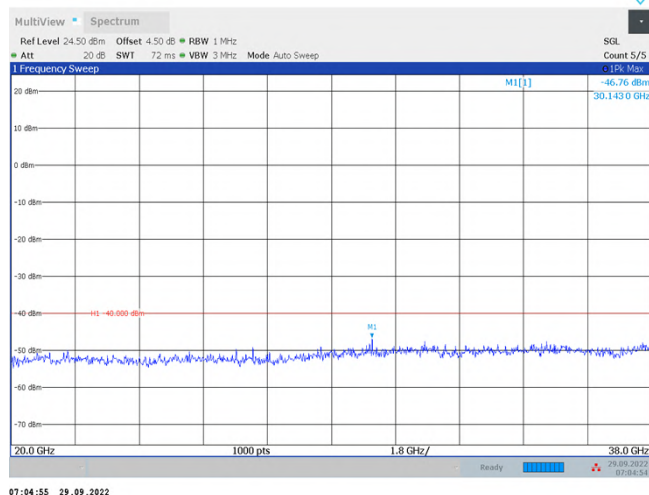
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## Band48-20MHz-QPSK-56640-1RB#0-Range5:20000~38000MHz



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## Frequency Stability

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | VL            | NT               | -7.20          | -0.001986       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | VN            | NT               | -2.00          | -0.000552       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | VH            | NT               | -11.00         | -0.003034       | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | -30              | -6.90          | -0.001903       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | -20              | -3.70          | -0.001021       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 0                | -4.40          | -0.001214       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 10               | -4.40          | -0.001214       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 20               | -5.00          | -0.001379       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 30               | -3.70          | -0.001021       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 40               | -7.50          | -0.002069       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 50               | -3.80          | -0.001048       | PASS    |



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## Modulation Characteristics

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band48 | 20MHz     | QPSK       | 55740   | 100RB#0          | PASS   | PASS    |
| Band48 | 20MHz     | 16QAM      | 55740   | 100RB#0          | PASS   | PASS    |



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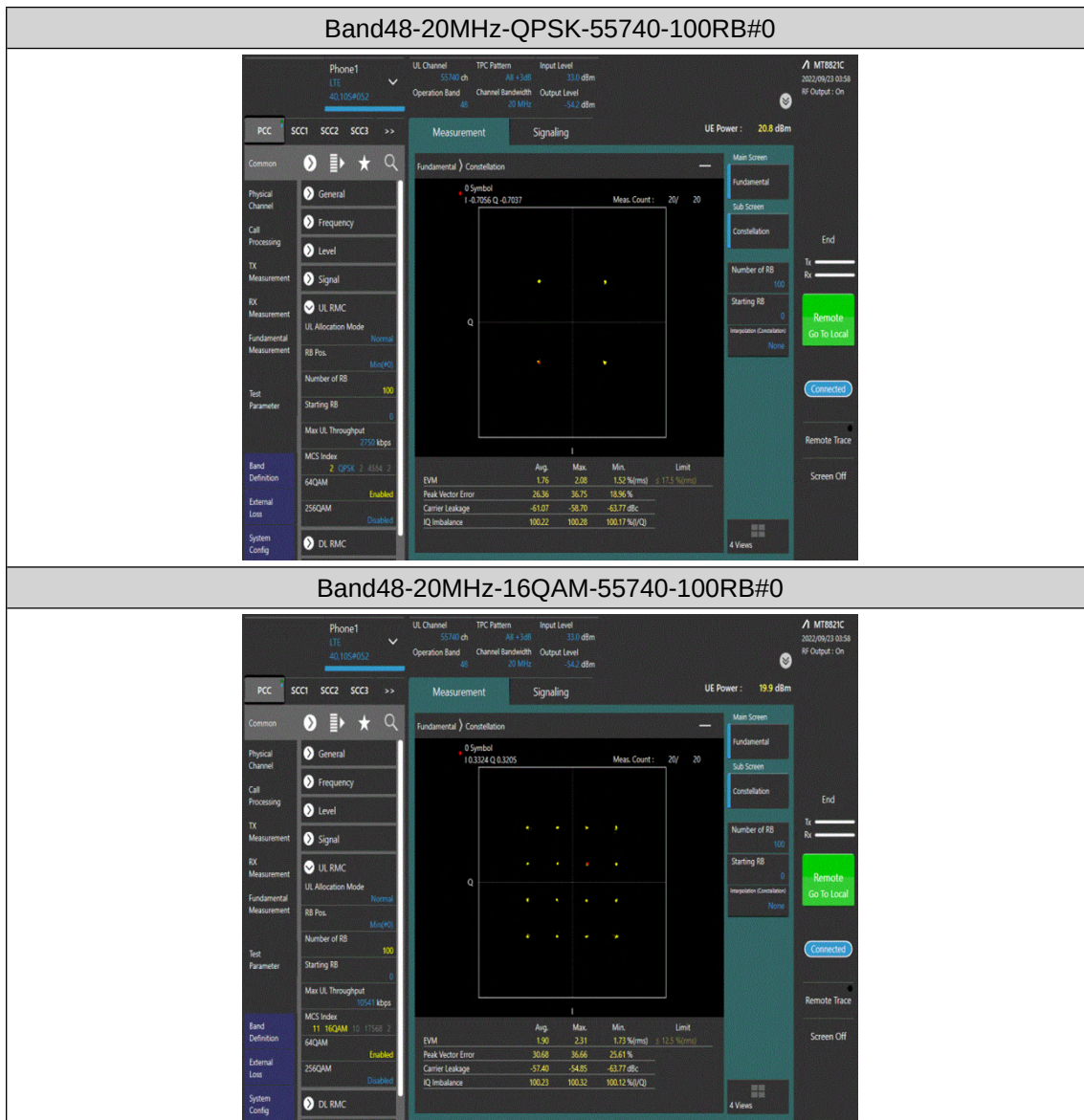
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## Test Graphs



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