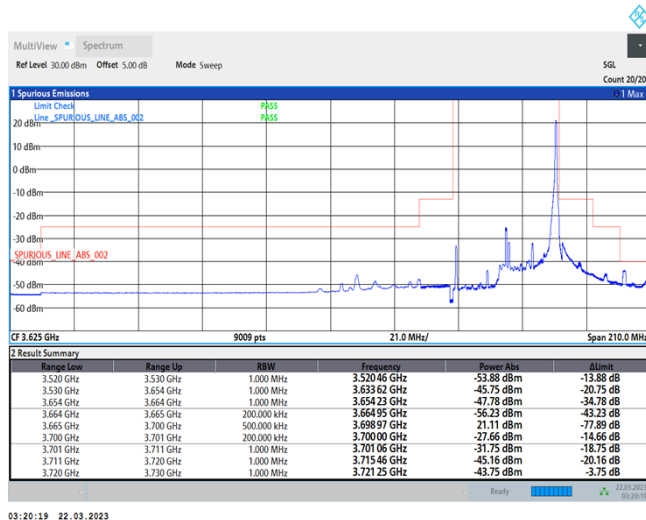
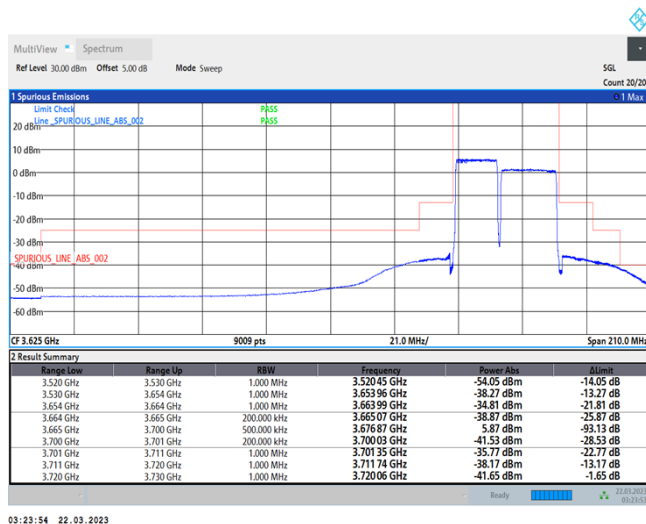


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### 48-48-15MHz-20MHz-QPSK-QPSK-56469-56640-0RB#0-1RB#99



### 48-48-15MHz-20MHz-QPSK-QPSK-56469-56640-75RB#0-100RB#0



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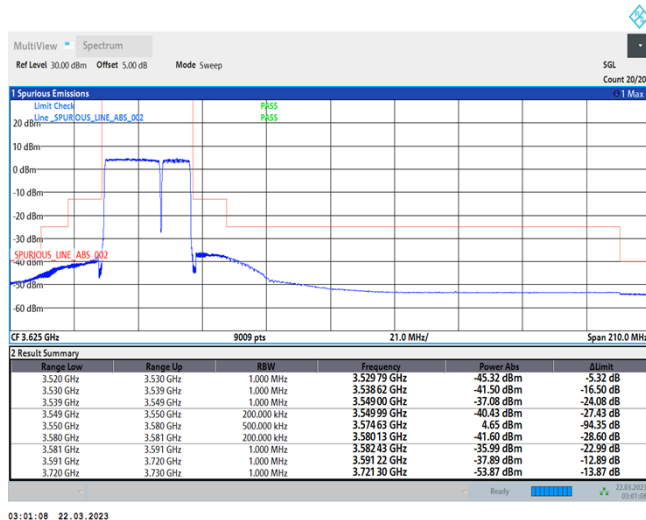
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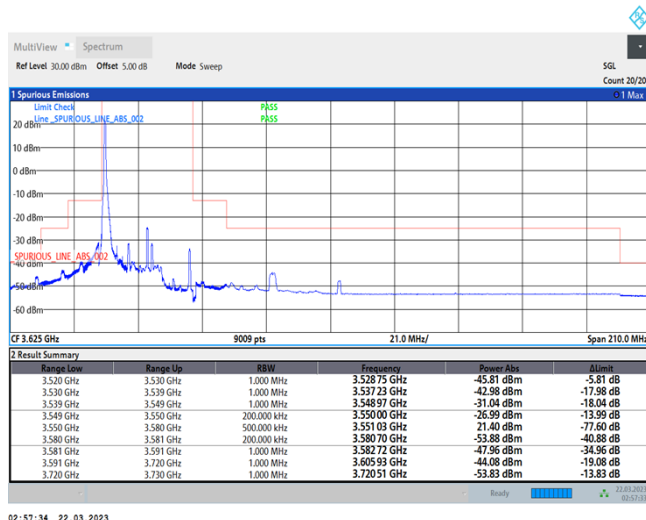
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### 48-48-20MHz-10MHz-QPSK-QPSK-55340-55484-100RB#0-50RB#0



03:01:08 22.03.2023

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02:57:34 22.03.2023



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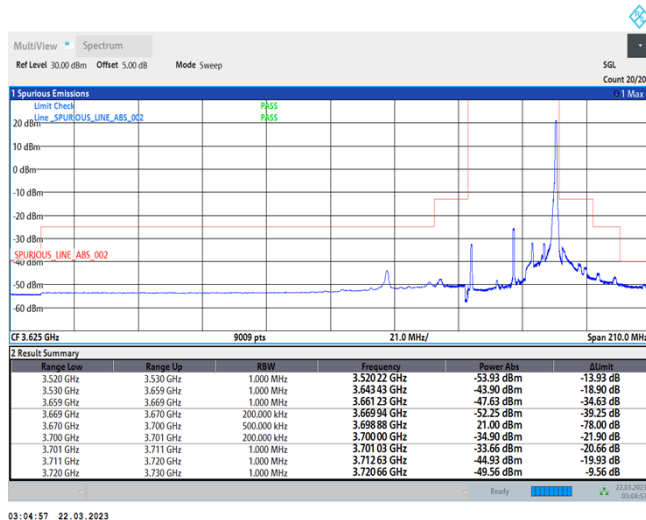
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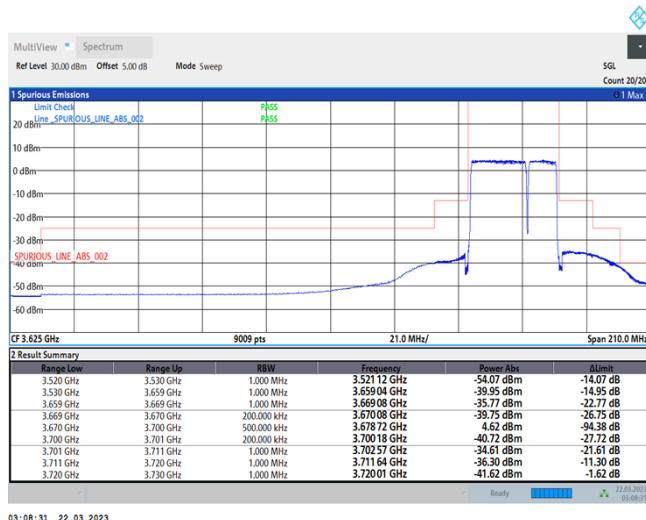
Report No.: SEWM2311000473RG05  
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### 48-48-20MHz-10MHz-QPSK-QPSK-56541-56685-0RB#0-1RB#49



03:04:57 22.03.2023

### 48-48-20MHz-10MHz-QPSK-QPSK-56541-56685-100RB#0-50RB#0



03:08:31 22.03.2023



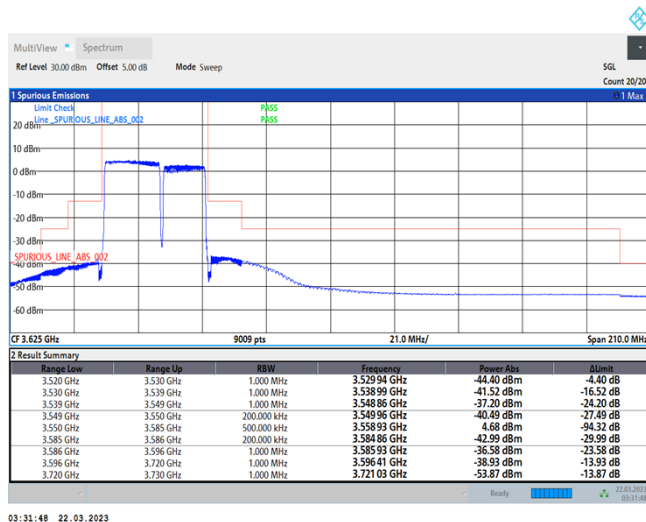
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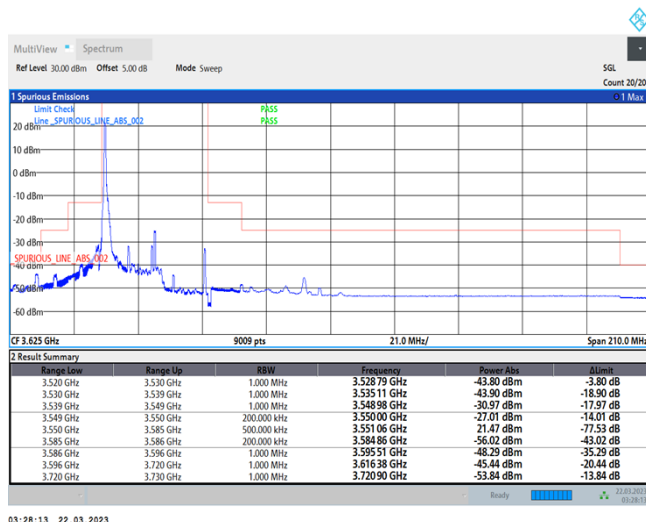
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### 48-48-20MHz-15MHz-QPSK-QPSK-55340-55511-100RB#0-75RB#0



### 48-48-20MHz-15MHz-QPSK-QPSK-55340-55511-1RB#0-0RB#0



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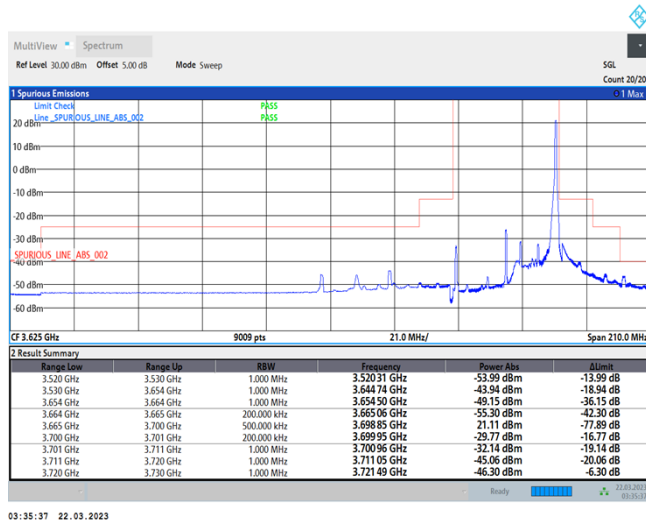
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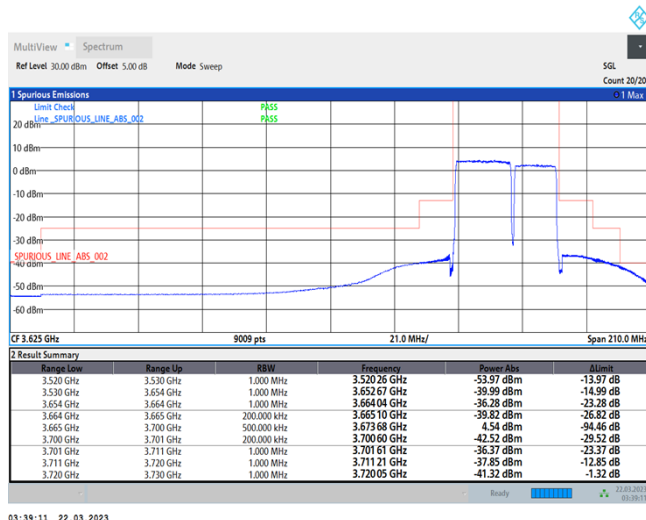
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### 48-48-20MHz-15MHz-QPSK-QPSK-56491-56662-0RB#0-1RB#74



03:35:37 22.03.2023

### 48-48-20MHz-15MHz-QPSK-QPSK-56491-56662-100RB#0-75RB#0



03:39:11 22.03.2023



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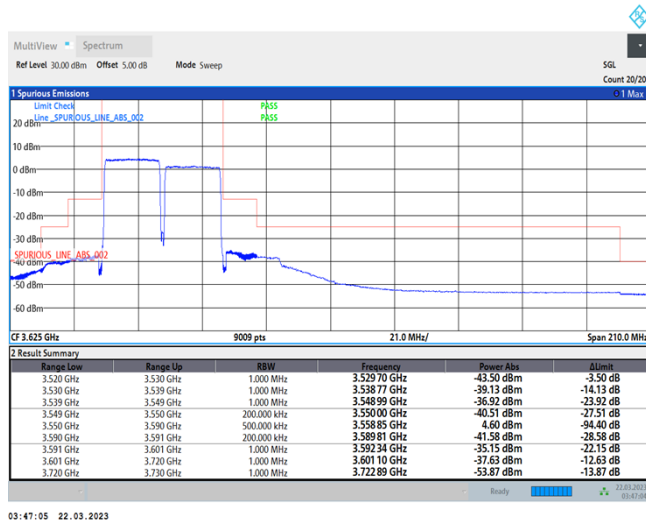
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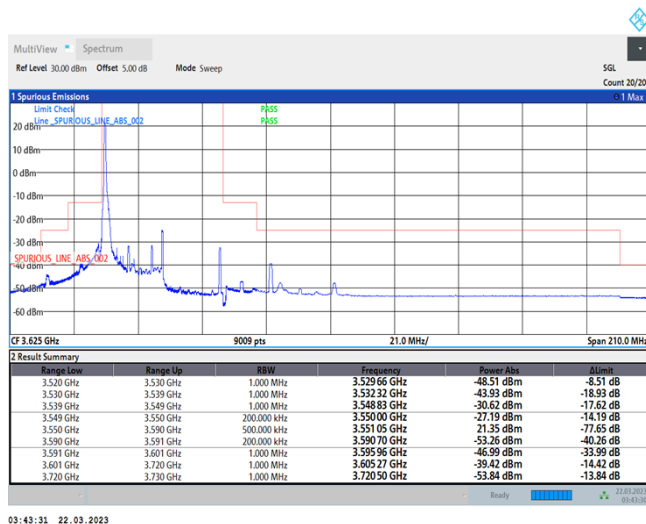
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### 48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-100RB#0-100RB#0



### 48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0



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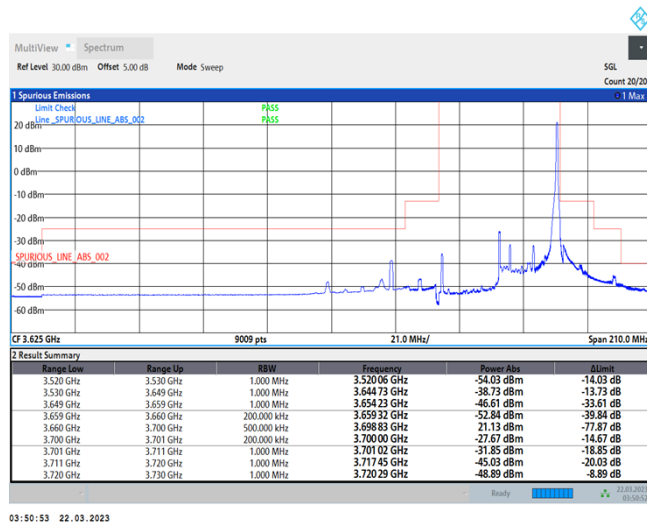
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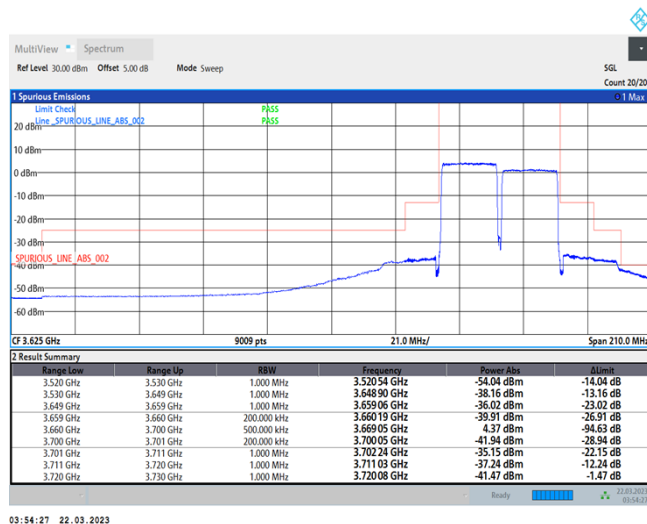
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### 48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-0RB#0-1RB#99



### 48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-100RB#0-100RB#0



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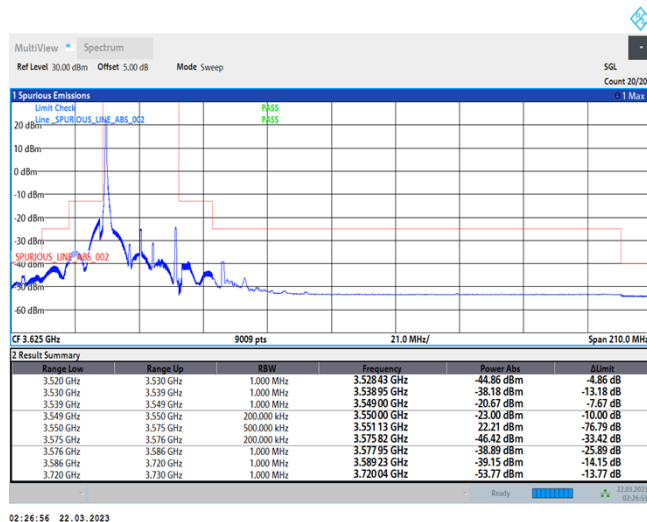
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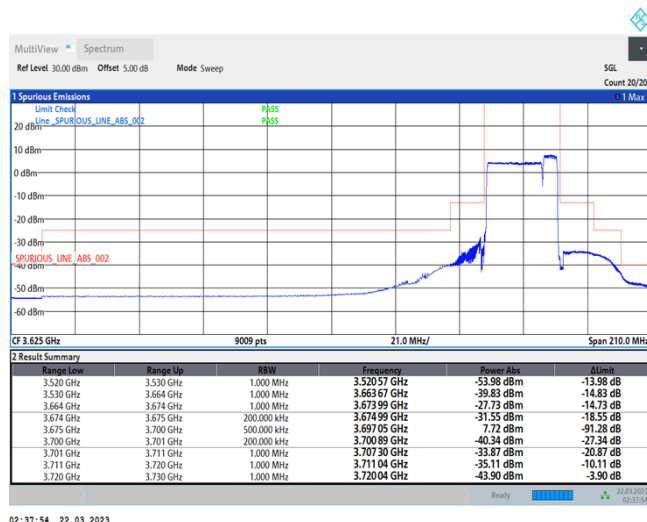
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### 48-48-20MHz-5MHz-QPSK-QPSK-55340-55457-1RB#0-0RB#0



02:26:56 22.03.2023

### 48-48-20MHz-5MHz-QPSK-QPSK-56590-56707-100RB#0-25RB#0



02:37:54 22.03.2023



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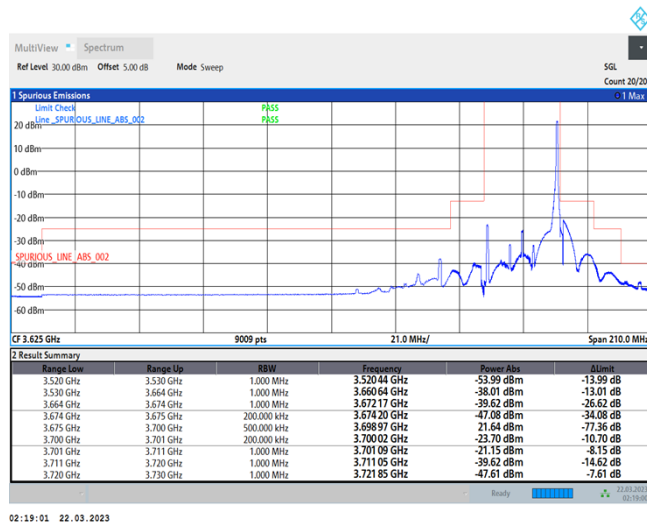
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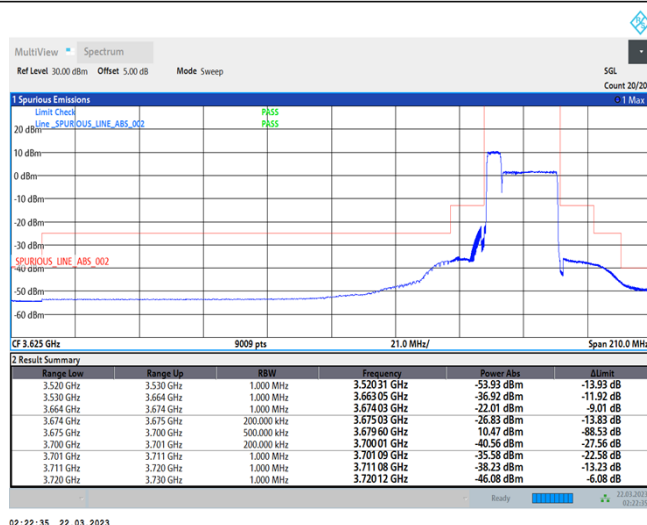
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### 48-48-5MHz-20MHz-QPSK-QPSK-56523-56640-0RB#0-1RB#99



02:19:01 22.03.2023

### 48-48-5MHz-20MHz-QPSK-QPSK-56523-56640-25RB#0-100RB#0



02:22:35 22.03.2023



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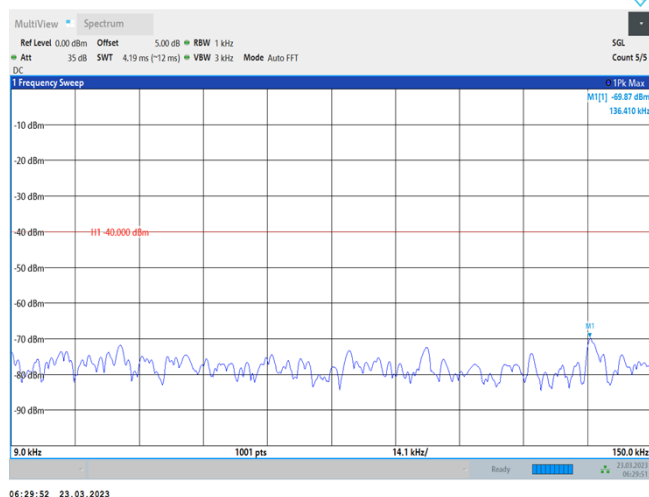
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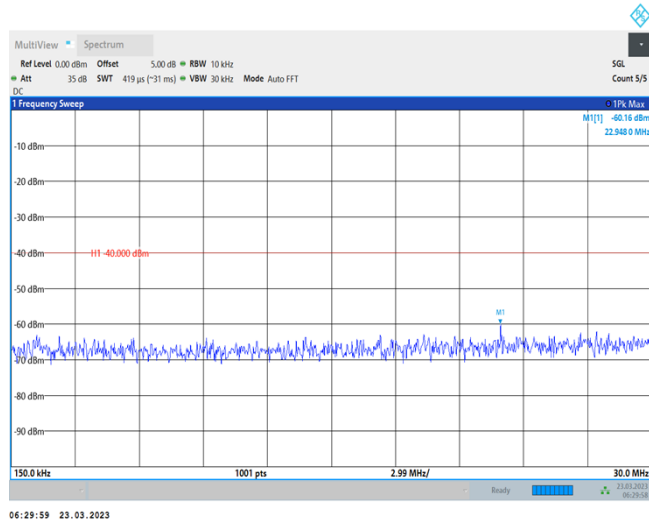
### Conducted Spurious Emission

#### Test Graphs

48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-0.009~0.15MHz



48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-0.15~30MHz



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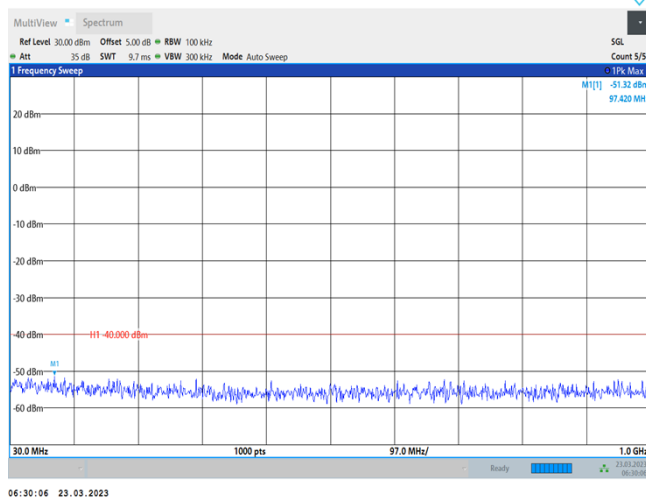
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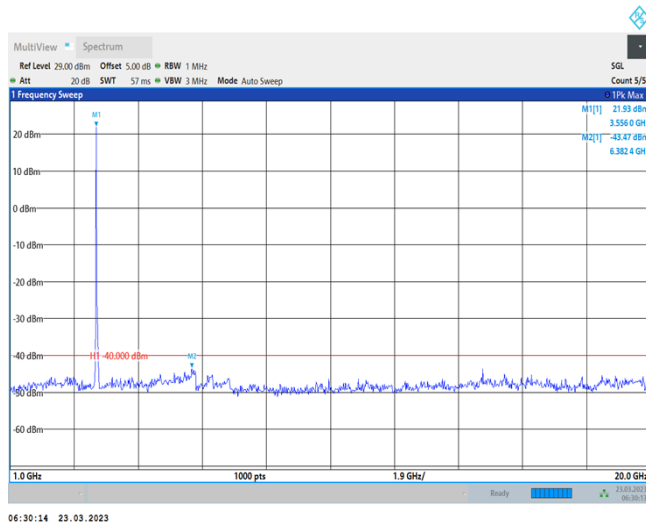
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### 48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-30~1000MHz



### 48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-1000~20000MHz



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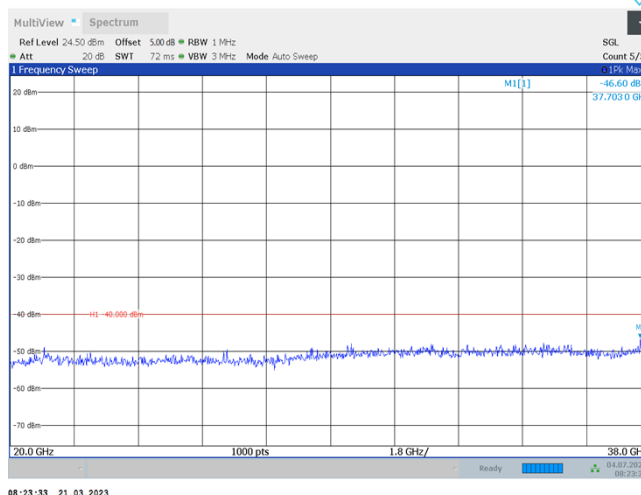
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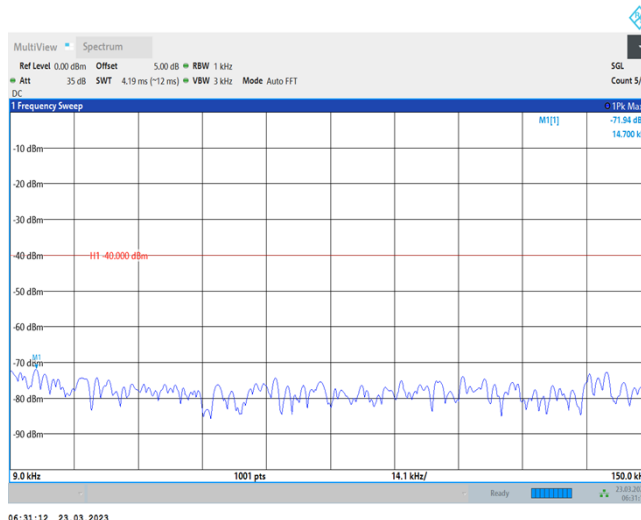
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### 48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-20000~38000MHz



### 48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-0.009~0.15MHz



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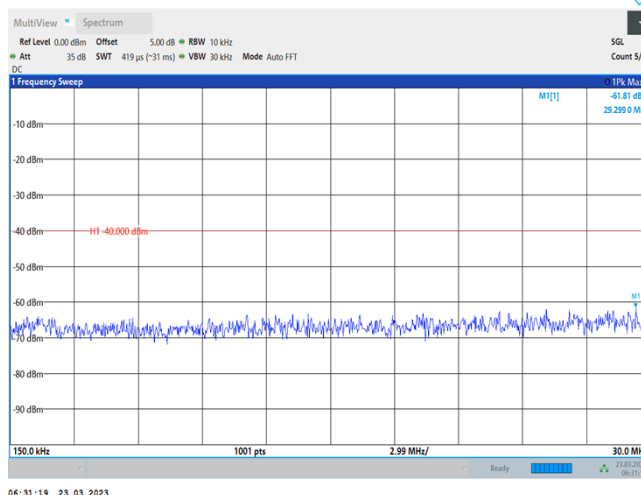
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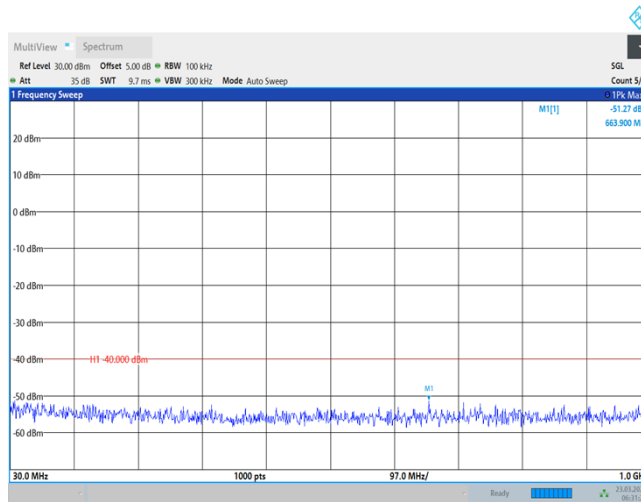
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### 48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-0.15~30MHz



06:31:19 23.03.2023

### 48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-30~1000MHz



06:31:27 23.03.2023



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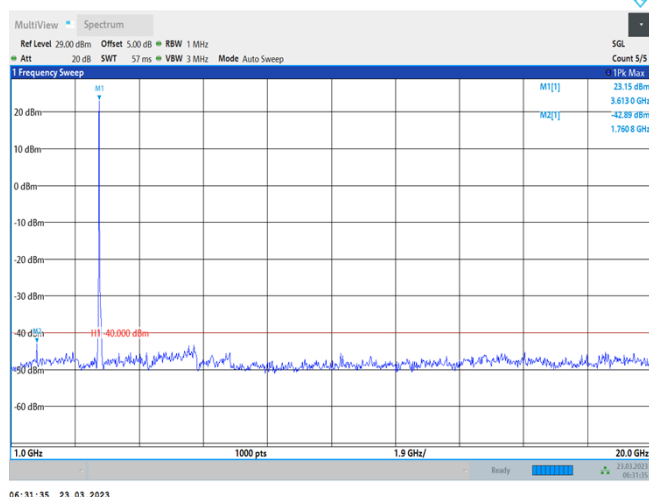
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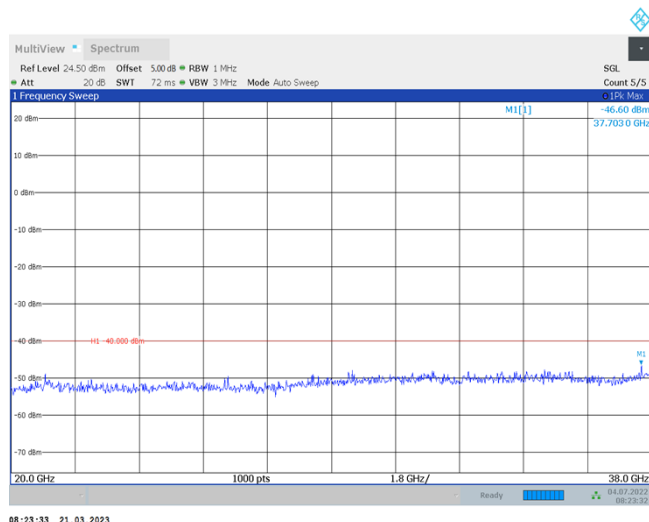
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### 48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-1000~20000MHz



### 48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-20000~38000MHz



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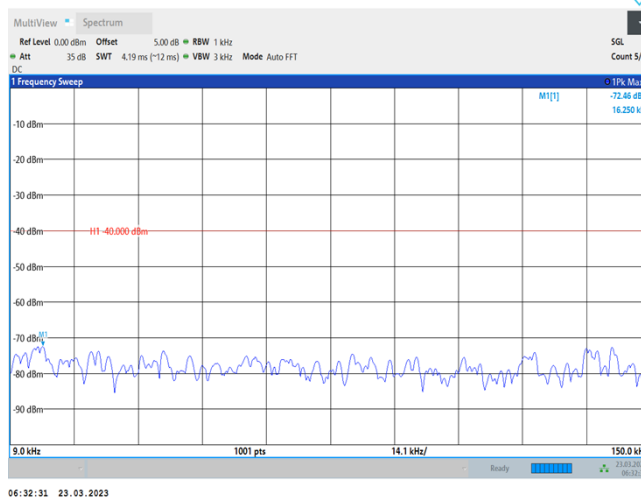
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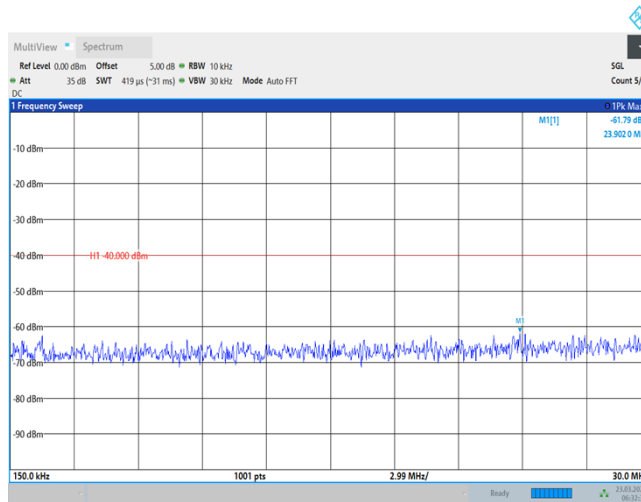
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### 48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-0.009~0.15MHz



06:32:31 23.03.2023

### 48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-0.15~30MHz



06:32:38 23.03.2023



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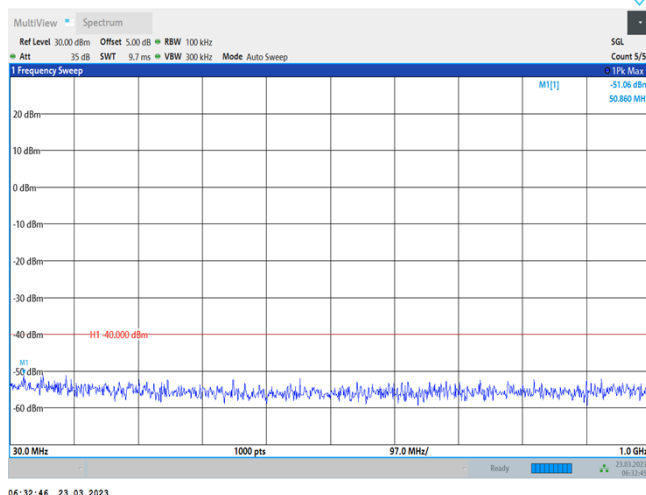
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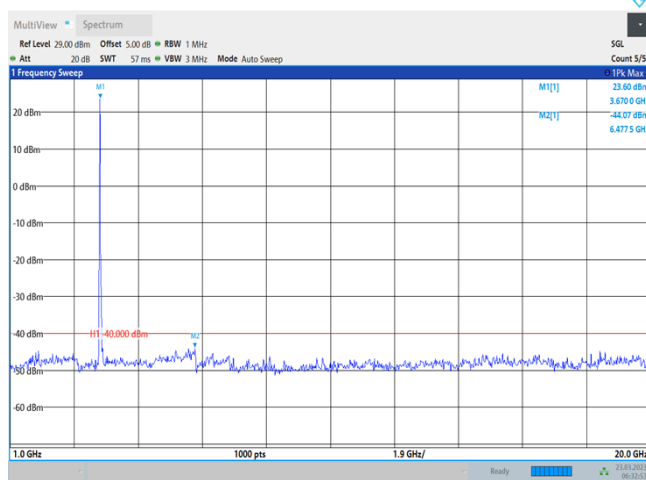
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## 48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-30~1000MHz



06:32:46 23.03.2023

## 48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-1000~20000MHz



06:32:54 23.03.2023



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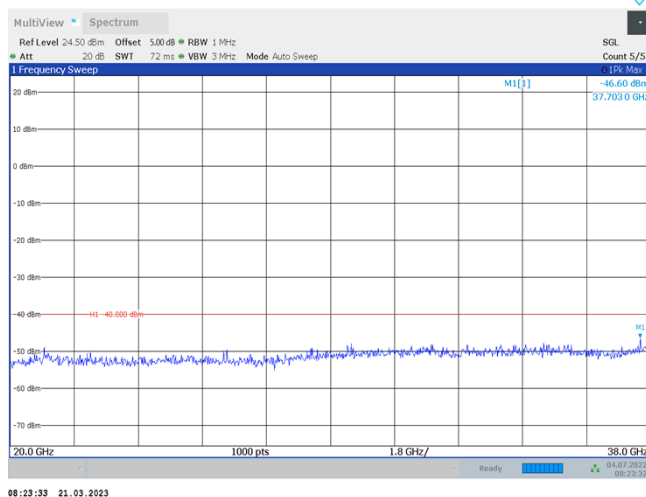
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48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-20000~38000MHz



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## Field Strength of Spurious Radiation

**Test Band = LTE Band48CA 3550-3700\_ TM1**

**Test Channel = Low**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7428.625        | 38.78          | -42.90      | 36.48    | -62.90      | -40.00      | 22.90       | 245         | 92        | Horizontal |
| 2               | 8134.725        | 34.73          | -41.62      | 37.06    | -65.09      | -40.00      | 25.09       | 136         | 301       | Horizontal |
| 3               | 9126.6          | 31.85          | -40.29      | 38.29    | -65.41      | -40.00      | 25.41       | 256         | 6         | Horizontal |
| 4               | 11201.2         | 26.96          | -36.61      | 39.11    | -65.80      | -40.00      | 25.80       | 144         | 227       | Horizontal |
| 5               | 12816.95        | 25.70          | -36.66      | 39.65    | -66.58      | -40.00      | 26.58       | 185         | 316       | Horizontal |
| 6               | 15077.275       | 23.07          | -34.47      | 39.12    | -67.54      | -40.00      | 27.54       | 196         | 92        | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 6931.25         | 48.28          | -43.62      | 36.00    | -54.60      | -40.00      | 14.60       | 248         | 4         | Vertical |
| 2               | 7187.7          | 39.74          | -43.62      | 36.57    | -62.57      | -40.00      | 22.57       | 184         | 318       | Vertical |
| 3               | 8401.525        | 37.08          | -41.38      | 37.33    | -62.22      | -40.00      | 22.22       | 166         | 123       | Vertical |
| 4               | 9494.6          | 33.54          | -39.96      | 38.47    | -63.21      | -40.00      | 23.21       | 291         | 197       | Vertical |
| 5               | 11145.42        | 26.94          | -37.23      | 39.10    | -66.45      | -40.00      | 26.45       | 154         | 357       | Vertical |
| 6               | 12851.45        | 25.74          | -36.75      | 39.68    | -66.59      | -40.00      | 26.59       | 177         | 272       | Vertical |



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**Test Band = LTE Band48CA 3550-3700\_ TM1**  
**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7619.525        | 37.82          | -42.78      | 36.43    | -63.79      | -40.00      | 23.79       | 142         | 168       | Horizontal |
| 2               | 8349.2          | 35.13          | -41.62      | 37.27    | -64.49      | -40.00      | 24.49       | 211         | 138       | Horizontal |
| 3               | 8605.075        | 34.61          | -40.91      | 37.76    | -63.80      | -40.00      | 23.80       | 230         | 0         | Horizontal |
| 4               | 9472.75         | 33.68          | -39.95      | 38.47    | -63.06      | -40.00      | 23.06       | 302         | 240       | Horizontal |
| 5               | 10697.5         | 26.97          | -37.50      | 39.14    | -66.66      | -40.00      | 26.66       | 145         | 0         | Horizontal |
| 6               | 12835.925       | 25.69          | -36.71      | 39.67    | -66.61      | -40.00      | 26.61       | 188         | 32        | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 7181.375        | 39.02          | -43.62      | 36.55    | -63.31      | -40.00      | 23.31       | 111         | 184       | Vertical |
| 2               | 8137.025        | 34.20          | -41.64      | 37.06    | -65.64      | -40.00      | 25.64       | 145         | 122       | Vertical |
| 3               | 8950.075        | 34.64          | -40.89      | 38.17    | -63.34      | -40.00      | 23.34       | 163         | 79        | Vertical |
| 4               | 10376.075       | 28.26          | -38.78      | 38.85    | -66.93      | -40.00      | 26.93       | 291         | 357       | Vertical |
| 5               | 11451.325       | 25.44          | -37.00      | 39.05    | -67.76      | -40.00      | 27.76       | 187         | 0         | Vertical |
| 6               | 13846.775       | 25.00          | -35.93      | 40.00    | -66.19      | -40.00      | 26.19       | 140         | 122       | Vertical |



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**Test Band = LTE Band48CA 3550-3700\_ TM1****Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 7441.275        | 38.50          | -42.95      | 36.47    | -63.24      | -40.00      | 23.24       | 214         | 214       | Horizontal |
| 2               | 8595.3          | 34.44          | -40.93      | 37.74    | -64.01      | -40.00      | 24.01       | 133         | 214       | Horizontal |
| 3               | 9417.55         | 33.50          | -39.93      | 38.49    | -63.20      | -40.00      | 23.20       | 259         | 109       | Horizontal |
| 4               | 11145.42        | 27.34          | -37.23      | 39.10    | -66.05      | -40.00      | 26.05       | 148         | 140       | Horizontal |
| 5               | 12811.2         | 25.99          | -36.65      | 39.64    | -66.28      | -40.00      | 26.28       | 185         | 80        | Horizontal |
| 6               | 14500.55        | 23.03          | -34.24      | 40.01    | -66.46      | -40.00      | 26.46       | 174         | 125       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 7416.55         | 38.23          | -42.85      | 36.48    | -63.40      | -40.00      | 23.40       | 247         | 212       | Vertical |
| 2               | 7787.425        | 37.87          | -42.63      | 36.76    | -63.26      | -40.00      | 23.26       | 136         | 331       | Vertical |
| 3               | 8946.05         | 34.59          | -40.89      | 38.17    | -63.39      | -40.00      | 23.39       | 261         | 8         | Vertical |
| 4               | 9993.7          | 29.67          | -39.37      | 38.48    | -66.48      | -40.00      | 26.48       | 145         | 318       | Vertical |
| 5               | 11435.8         | 26.02          | -37.15      | 39.07    | -67.32      | -40.00      | 27.32       | 185         | 256       | Vertical |
| 6               | 14335.525       | 23.62          | -35.58      | 40.13    | -67.09      | -40.00      | 27.09       | 192         | 59        | 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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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000  
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

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## Frequency Stability

### Test Result

| Band  | Bandwidth   | Modulation    | Channel     | RB Configure    | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-------------|---------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | VH            | NT               | 0.10           | 0.000146        | PASS    |
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | VL            | NT               | 0.80           | 0.001171        | PASS    |
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | VN            | NT               | 0.50           | 0.000732        | PASS    |

| Band  | Bandwidth   | Modulation    | Channel     | RB Configure    | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-------------|---------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | NV            | 50               | 1.40           | 0.002050        | PASS    |
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | NV            | 40               | 0.80           | 0.001171        | PASS    |
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | NV            | 30               | -1.20          | -0.001757       | PASS    |
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | NV            | 20               | -1.50          | -0.002196       | PASS    |
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | NV            | 10               | 1.90           | 0.002782        | PASS    |
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | NV            | 0                | -1.50          | -0.002196       | PASS    |
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | NV            | -10              | 1.50           | 0.002196        | PASS    |
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | NV            | -20              | 1.30           | 0.001903        | PASS    |
| 48-48 | 20MHz-20MHz | QPSK<br>-QPSK | 55891-56089 | 100RB#0-100RB#0 | NV            | -30              | 1.20           | 0.001757        | PASS    |

---End of Attachment---



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Wireless Laboratory

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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

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