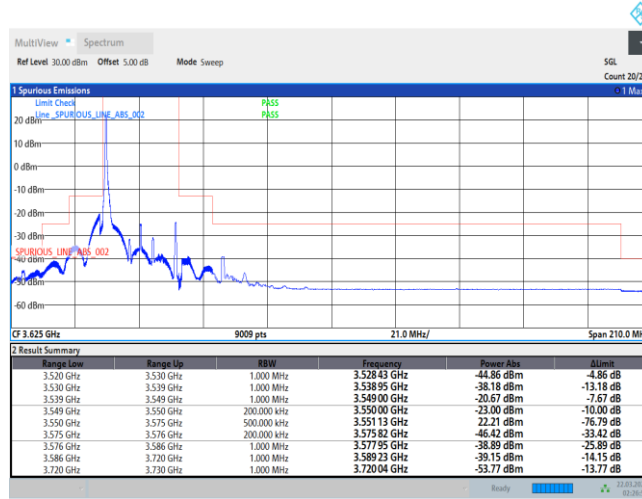
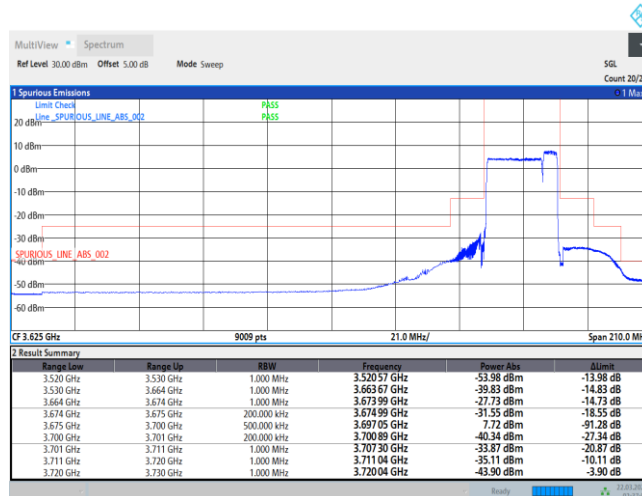


48-48-20MHz-5MHz-QPSK-QPSK-55340-55457-1RB#0-0RB#0



02:26:56 22.03.2023

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



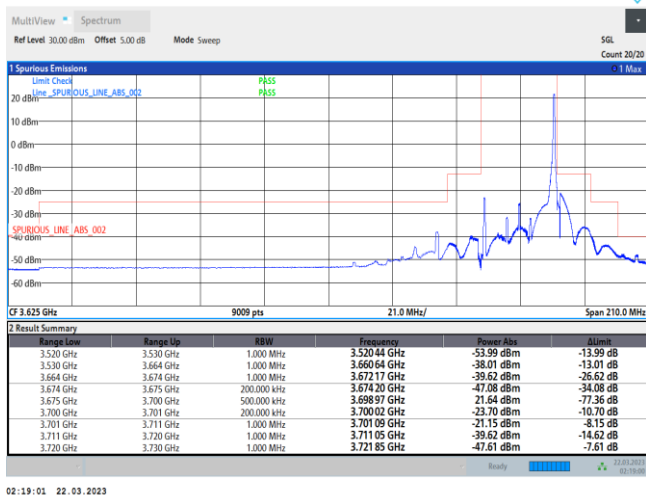
02:37:54 22.03.2023



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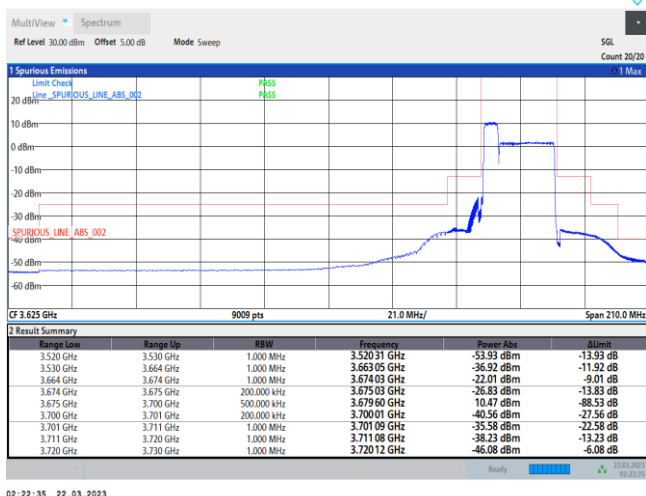
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48-48-5MHz-20MHz-QPSK-QPSK-56523-56640-0RB#0-1RB#99



02:19:01 22.03.2023

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



02:22:35 22.03.2023



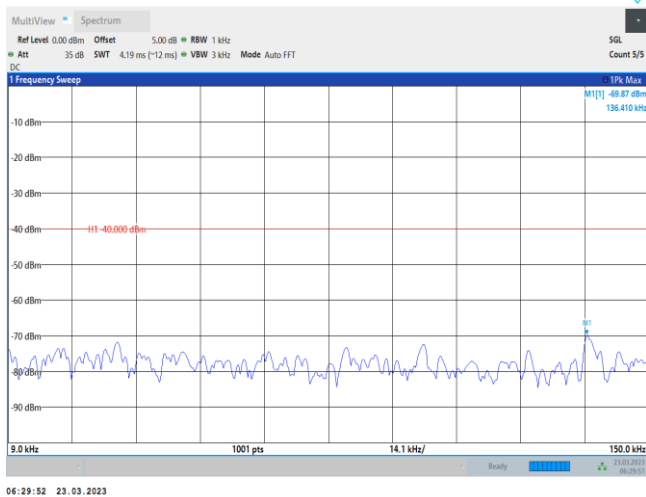
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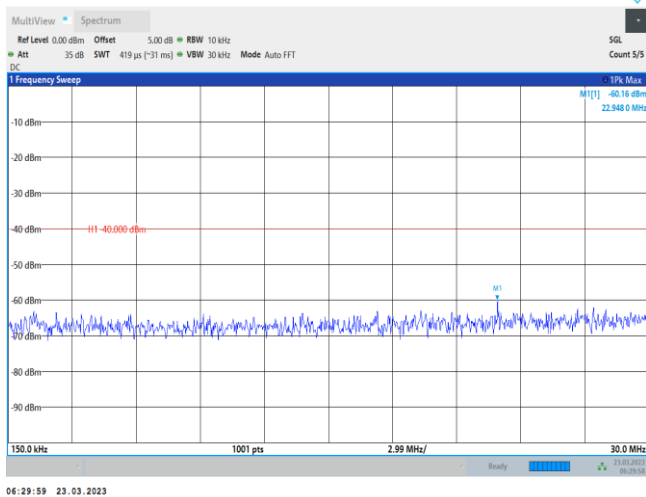
Conducted Spurious Emission

Test Graphs

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



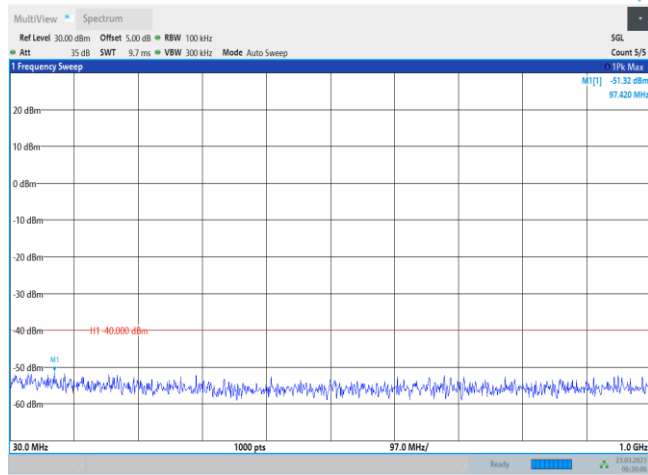
48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-0.15~30MHz



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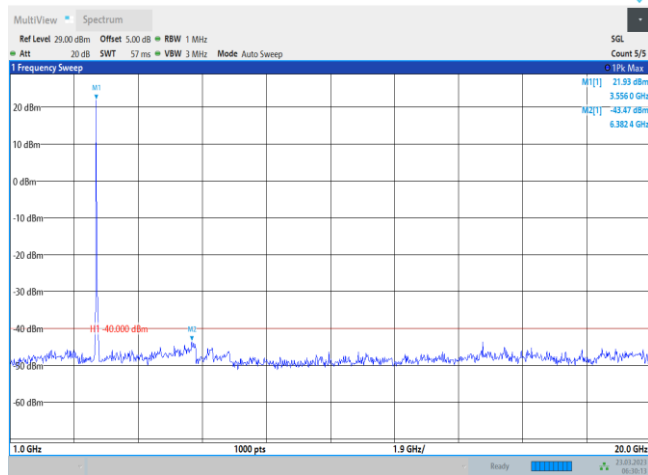
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48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-30~1000MHz



06:30:06 23.03.2023

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



06:30:14 23.03.2023

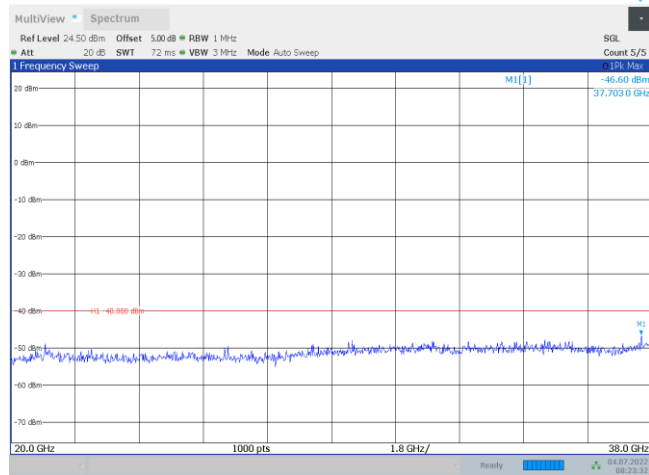


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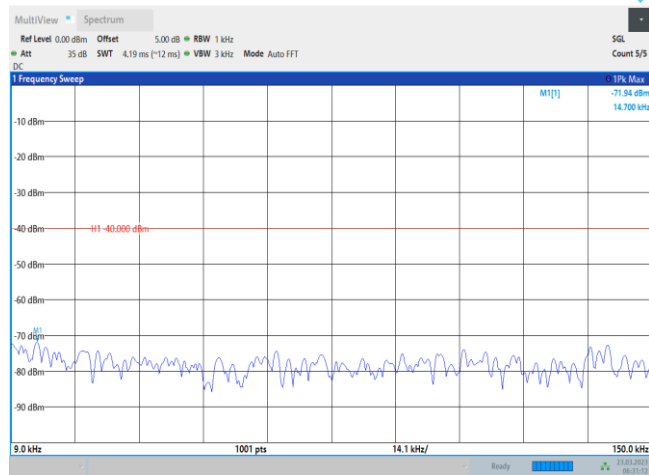
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48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-20000~38000MHz



08:23:33 21.03.2023

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



06:31:12 23.03.2023

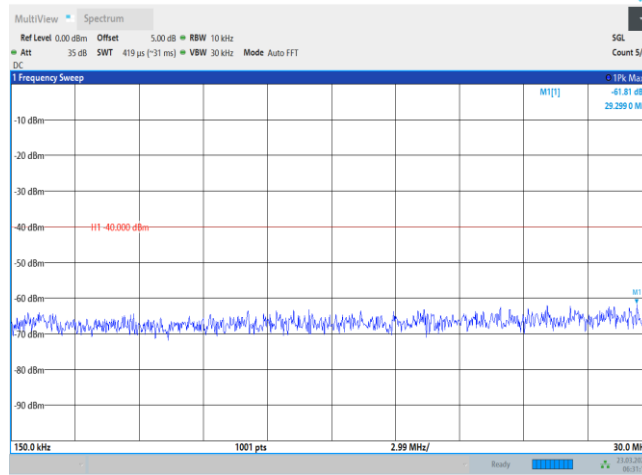


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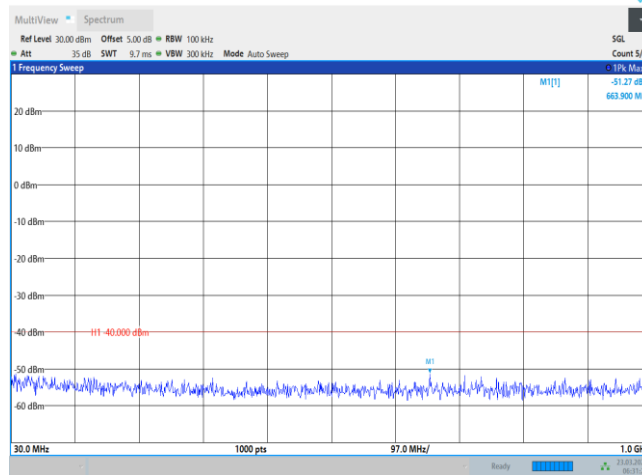
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48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-0.15~30MHz



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

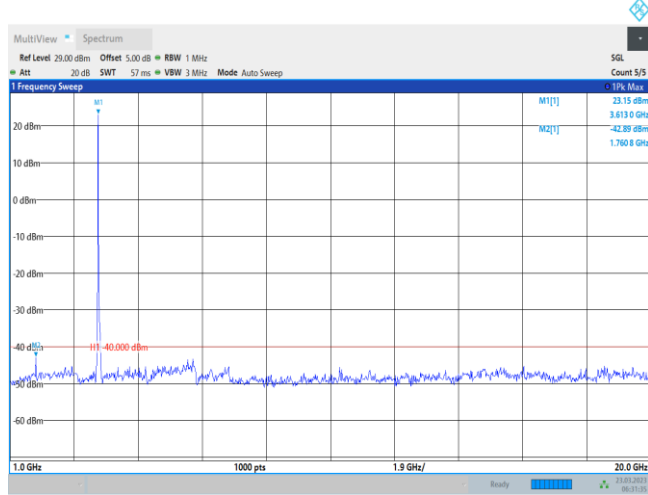


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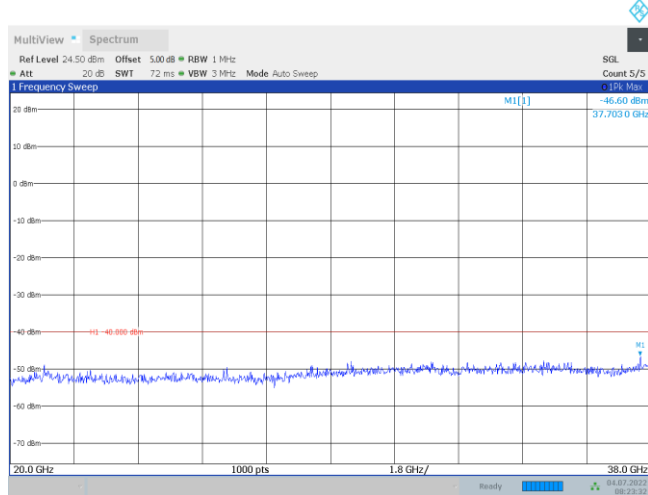
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48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-1000~20000MHz



06:31:35 23.03.2023

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



08:23:33 21.03.2023

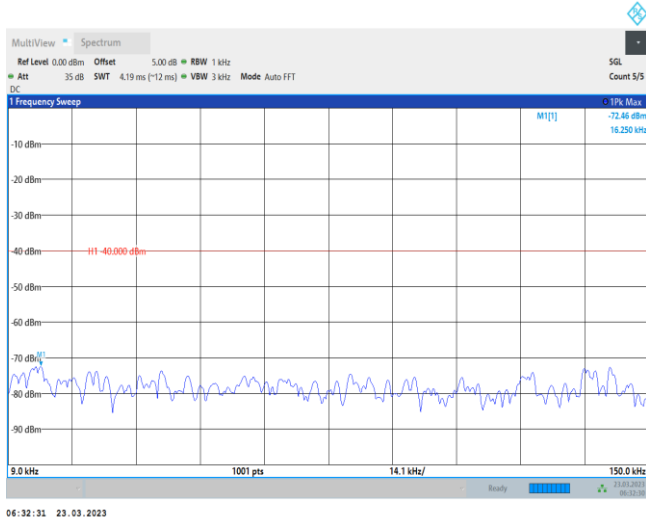


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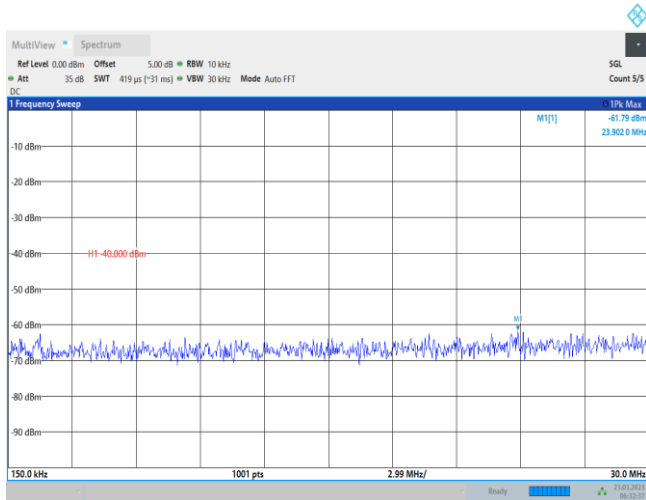
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48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-0.009~0.15MHz



06:32:31 23.03.2023

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



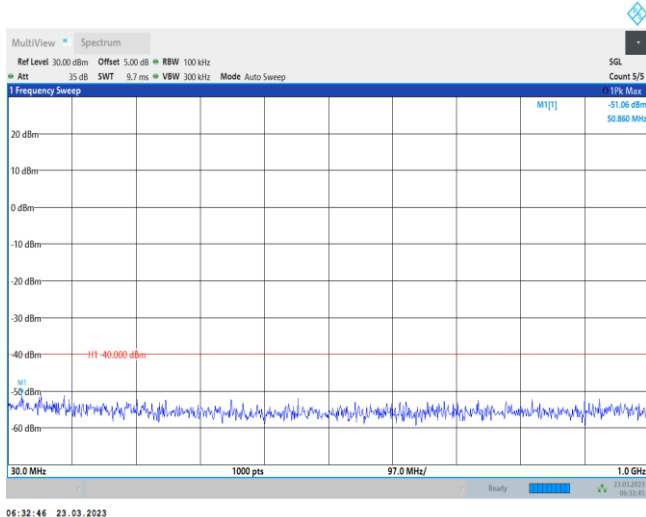
06:32:38 23.03.2023



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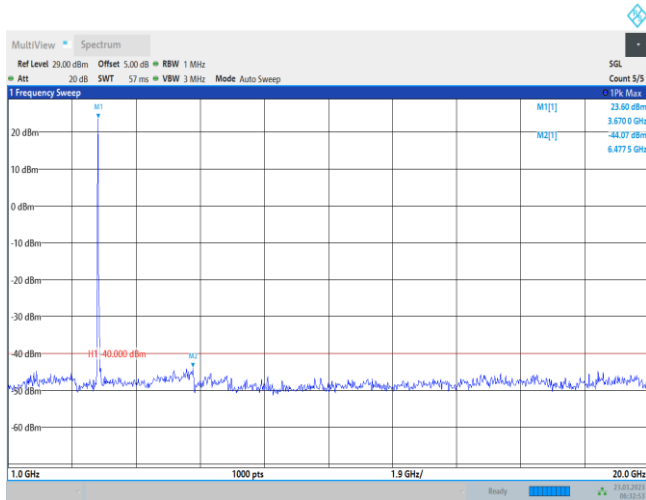
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48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-30~1000MHz



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

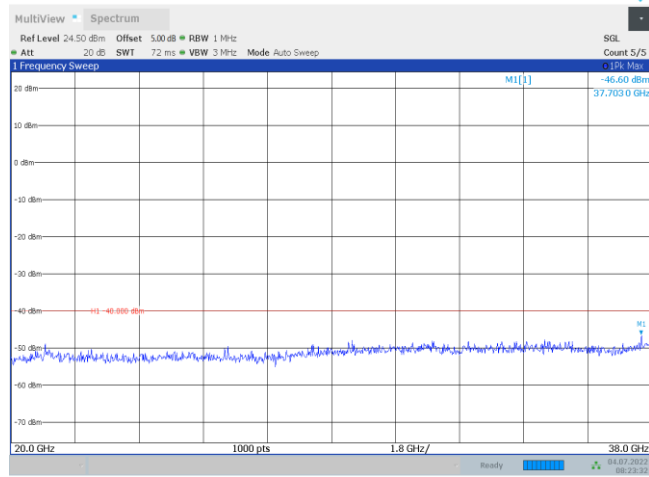


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08:23:33 21.03.2023



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Report No.: SEWM2311000473RG05
 Rev.: 01
 Page: 80 of 83

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 | 11145.425 | 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 | 11145.425 | 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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Frequency Stability

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-------------|---------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 48-48 | 20MHz-20MHz | QPSK -QPSK | 55891-56089 | 100RB#0-100RB#0 | VH | NT | 0.10 | 0.000146 | PASS |
| 48-48 | 20MHz-20MHz | QPSK -QPSK | 55891-56089 | 100RB#0-100RB#0 | VL | NT | 0.80 | 0.001171 | PASS |
| 48-48 | 20MHz-20MHz | QPSK -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 -QPSK | 55891-56089 | 100RB#0-100RB#0 | NV | 50 | 1.40 | 0.002050 | PASS |
| 48-48 | 20MHz-20MHz | QPSK -QPSK | 55891-56089 | 100RB#0-100RB#0 | NV | 40 | 0.80 | 0.001171 | PASS |
| 48-48 | 20MHz-20MHz | QPSK -QPSK | 55891-56089 | 100RB#0-100RB#0 | NV | 30 | -1.20 | -0.001757 | PASS |
| 48-48 | 20MHz-20MHz | QPSK -QPSK | 55891-56089 | 100RB#0-100RB#0 | NV | 20 | -1.50 | -0.002196 | PASS |
| 48-48 | 20MHz-20MHz | QPSK -QPSK | 55891-56089 | 100RB#0-100RB#0 | NV | 10 | 1.90 | 0.002782 | PASS |
| 48-48 | 20MHz-20MHz | QPSK -QPSK | 55891-56089 | 100RB#0-100RB#0 | NV | 0 | -1.50 | -0.002196 | PASS |
| 48-48 | 20MHz-20MHz | QPSK -QPSK | 55891-56089 | 100RB#0-100RB#0 | NV | -10 | 1.50 | 0.002196 | PASS |
| 48-48 | 20MHz-20MHz | QPSK -QPSK | 55891-56089 | 100RB#0-100RB#0 | NV | -20 | 1.30 | 0.001903 | PASS |
| 48-48 | 20MHz-20MHz | QPSK -QPSK | 55891-56089 | 100RB#0-100RB#0 | NV | -30 | 1.20 | 0.001757 | PASS |

---End of Attachment---



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