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# Appendix B.3

## LTE Band 5



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## Effective (Isotropic) Radiated Power Output Data

## Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 23.23       | 23.29    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#2            | 23.53       | 23.59    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#5            | 23.56       | 23.62    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 22.44       | 22.5     | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 23.34       | 23.4     | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#2            | 23.34       | 23.4     | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#5            | 23.32       | 23.38    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 22.4        | 22.46    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 23.31       | 23.37    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#2            | 23.22       | 23.28    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5            | 22.98       | 23.04    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 22.42       | 22.48    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 22.62       | 22.68    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#2            | 22.81       | 22.87    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#5            | 22.65       | 22.71    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 21.8        | 21.86    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 22.59       | 22.65    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#2            | 22.73       | 22.79    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#5            | 22.73       | 22.79    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 21.57       | 21.63    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 22.72       | 22.78    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#2            | 22.68       | 22.74    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#5            | 22.46       | 22.52    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 21.46       | 21.52    | 38.45      | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | 23.2        | 23.26    | 38.45      | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#8            | 23.72       | 23.78    | 38.45      | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#14           | 23.74       | 23.8     | 38.45      | PASS    |



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|       |      |       |       |        |       |       |       |      |
|-------|------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 3MHz | QPSK  | 20415 | 15RB#0 | 22.68 | 22.74 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#0  | 23.25 | 23.31 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#8  | 23.4  | 23.46 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#14 | 23.25 | 23.31 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 15RB#0 | 22.4  | 22.46 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#0  | 23.43 | 23.49 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#8  | 23.45 | 23.51 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#14 | 22.97 | 23.03 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | 22.46 | 22.52 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0  | 22.6  | 22.66 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#8  | 22.87 | 22.93 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | 23.07 | 23.13 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 21.74 | 21.8  | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0  | 22.66 | 22.72 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8  | 22.71 | 22.77 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14 | 22.56 | 22.62 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 21.5  | 21.56 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0  | 22.76 | 22.82 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8  | 22.82 | 22.88 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | 22.47 | 22.53 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 21.55 | 21.61 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0  | 23.59 | 23.65 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#12 | 23.87 | 23.93 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#24 | 23.99 | 24.05 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | 22.9  | 22.96 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0  | 23.51 | 23.57 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#12 | 23.37 | 23.43 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#24 | 23.5  | 23.56 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | 22.51 | 22.57 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#0  | 23.88 | 23.94 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#12 | 23.59 | 23.65 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#24 | 23.24 | 23.3  | 38.45 | PASS |



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|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | 22.77 | 22.83 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#0  | 23    | 23.06 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#12 | 23.28 | 23.34 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#24 | 23.31 | 23.37 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | 21.98 | 22.04 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#0  | 22.92 | 22.98 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#12 | 22.65 | 22.71 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#24 | 22.89 | 22.95 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | 21.59 | 21.65 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0  | 23.22 | 23.28 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#12 | 22.95 | 23.01 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#24 | 22.77 | 22.83 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | 21.81 | 21.87 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0  | 23.69 | 23.75 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#24 | 24.12 | 24.18 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#49 | 23.6  | 23.66 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 27RB#0 | 22.96 | 23.02 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0  | 23.54 | 23.6  | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#24 | 23.43 | 23.49 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#49 | 23.65 | 23.71 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | 22.56 | 22.62 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0  | 23.65 | 23.71 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#24 | 23.79 | 23.85 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#49 | 23.36 | 23.42 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | 22.8  | 22.86 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0  | 23    | 23.06 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24 | 23.51 | 23.57 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | 22.88 | 22.94 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 27RB#0 | 23.32 | 23.38 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0  | 22.94 | 23    | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24 | 22.75 | 22.81 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49 | 22.99 | 23.05 | 38.45 | PASS |



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|       |       |       |       |        |       |       |       |      |
|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 10MHz | 16QAM | 20525 | 27RB#0 | 23.15 | 23.21 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0  | 23.13 | 23.19 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24 | 23.32 | 23.38 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | 22.7  | 22.76 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 27RB#0 | 23.12 | 23.18 | 38.45 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 5.52       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 5.80       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 5.60       | 13        | PASS    |



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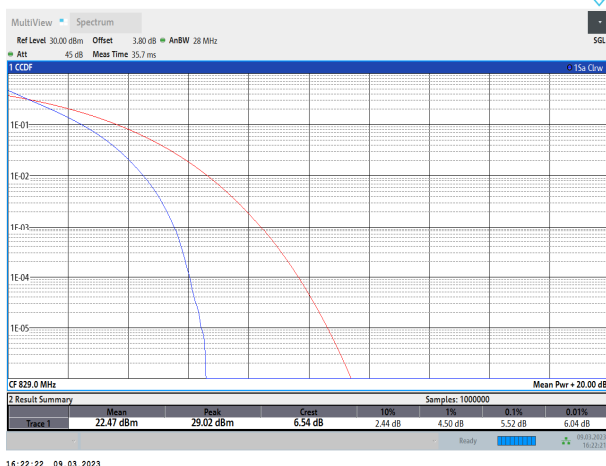
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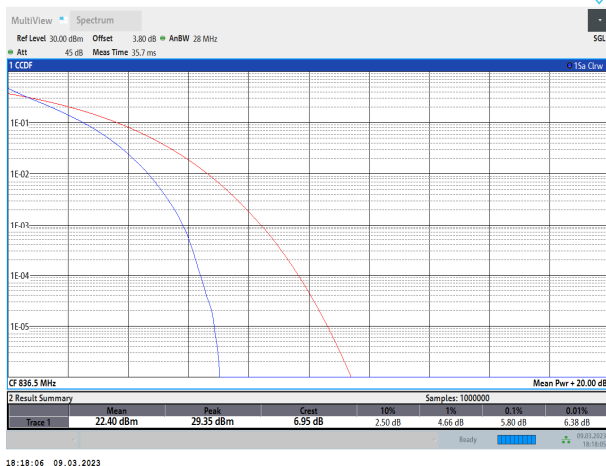
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### Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0



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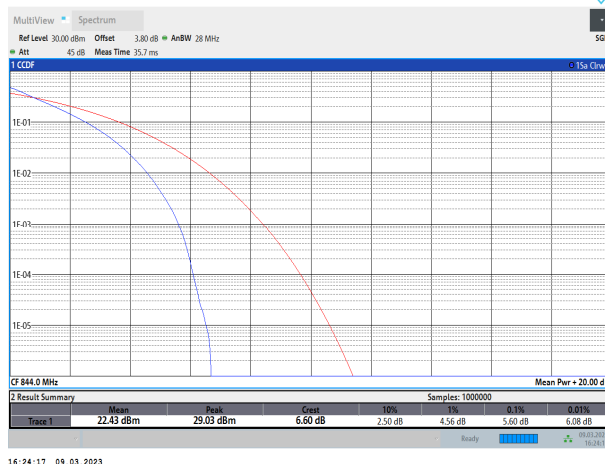
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### Band5-10MHz-QPSK-20600-50RB#0



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## Modulation Characteristics

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|-------|-----------|------------|---------|------------------|--------|---------|
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | PASS   | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | PASS   | PASS    |



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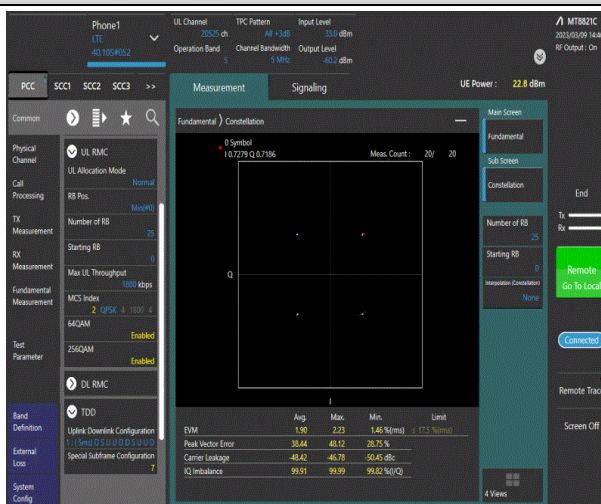
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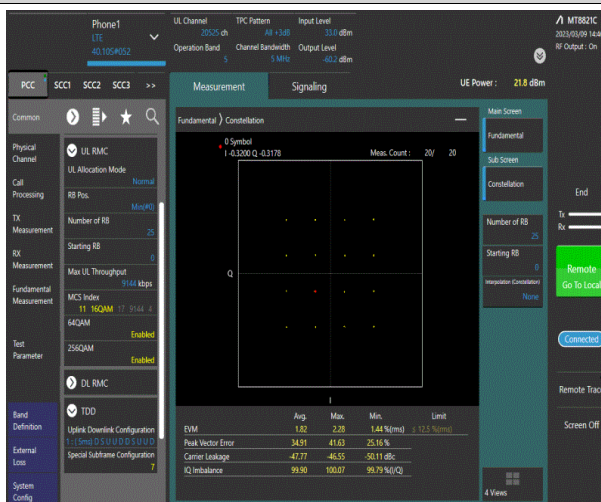
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### Test Graphs

Band5-5MHz-QPSK-20525-25RB#0



Band5-10MHz-16QAM-20525-50RB#0



## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 1.088                    | 1.29                 | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 1.088                    | 1.29                 | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 1.088                    | 1.29                 | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 1.096                    | 1.30                 | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 1.096                    | 1.30                 | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 1.095                    | 1.30                 | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 2.696                    | 3.02                 | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 2.689                    | 3.00                 | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 2.693                    | 3.00                 | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 2.691                    | 3.03                 | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 2.689                    | 3.00                 | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 2.687                    | 3.00                 | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 4.47                     | 4.94                 | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 4.465                    | 4.93                 | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 4.466                    | 4.91                 | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 4.468                    | 4.98                 | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 4.468                    | 4.99                 | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | 4.46                     | 4.96                 | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 8.936                    | 9.86                 | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 8.945                    | 9.98                 | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 8.927                    | 9.88                 | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 27RB#0           | 4.878                    | 5.88                 | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 27RB#0           | 4.887                    | 5.96                 | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 27RB#0           | 4.884                    | 5.88                 | PASS    |



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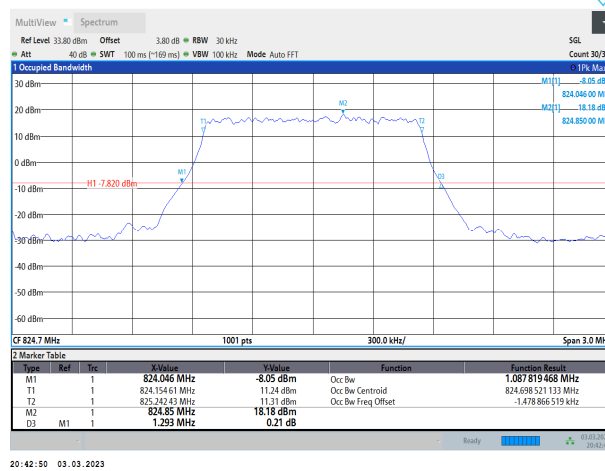
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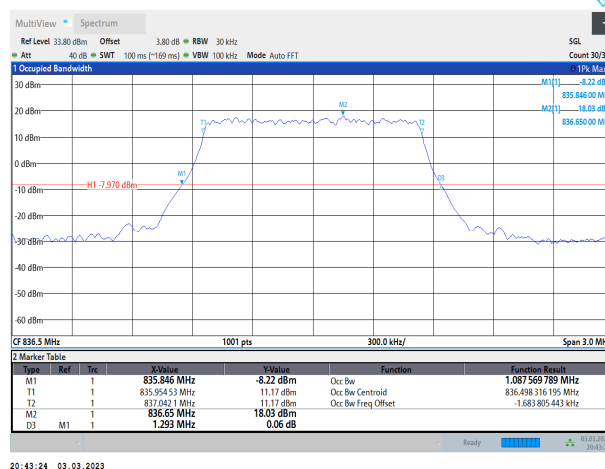
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### Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0



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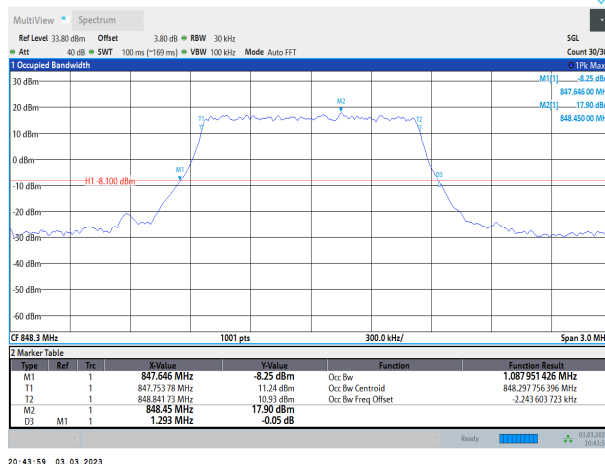
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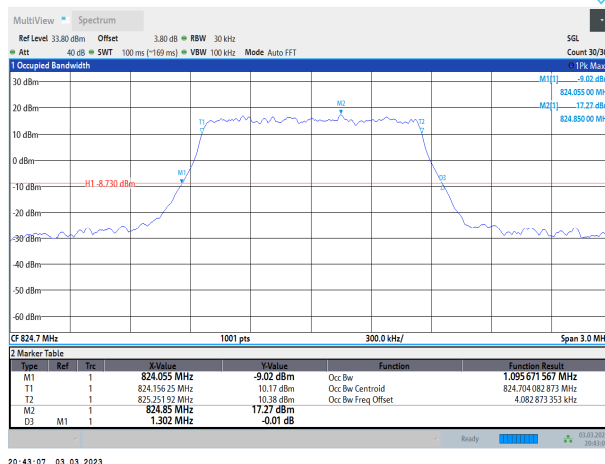
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### Band5-1.4MHz-QPSK-20643-6RB#0



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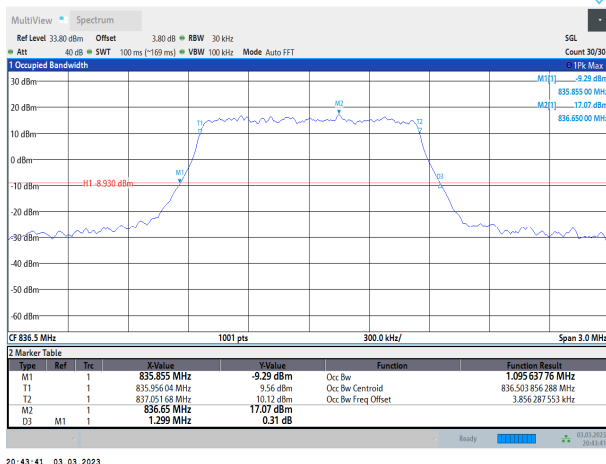


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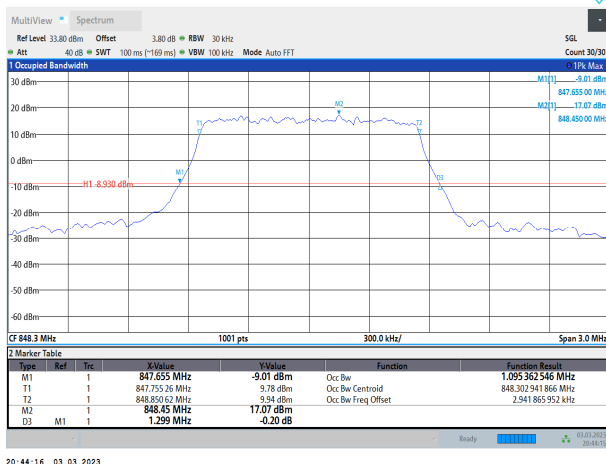
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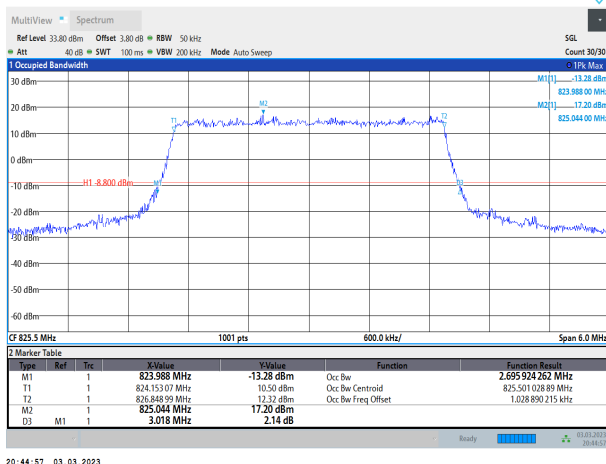


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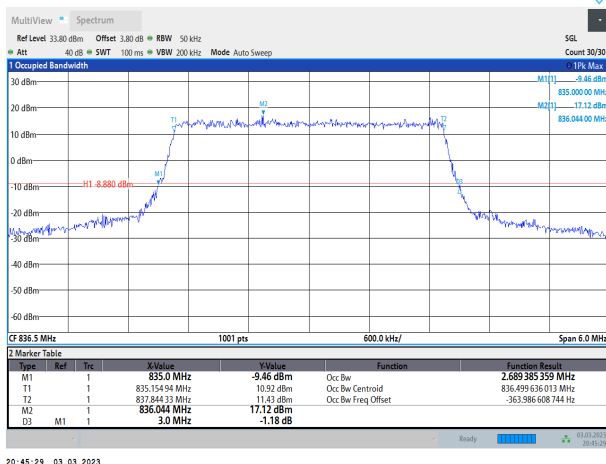
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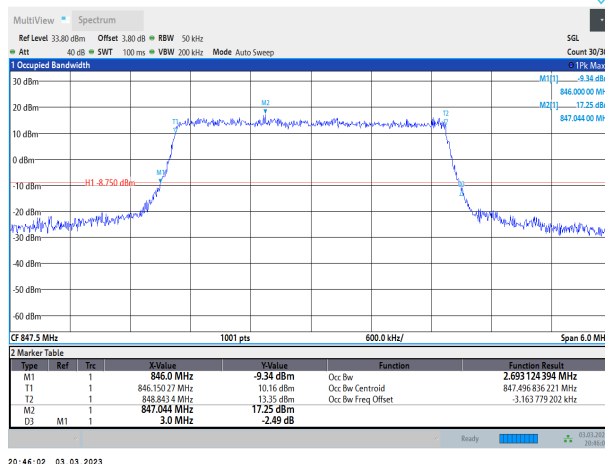
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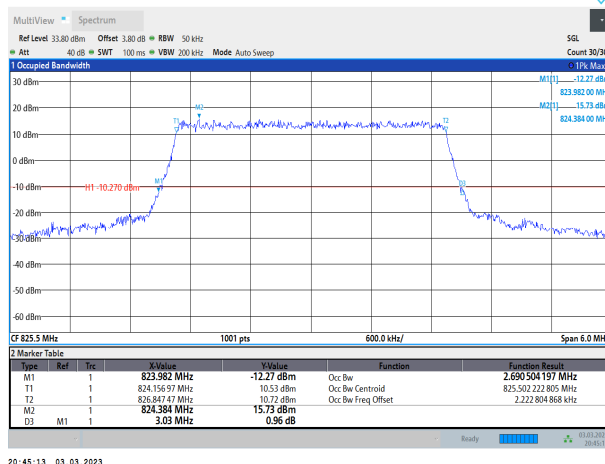
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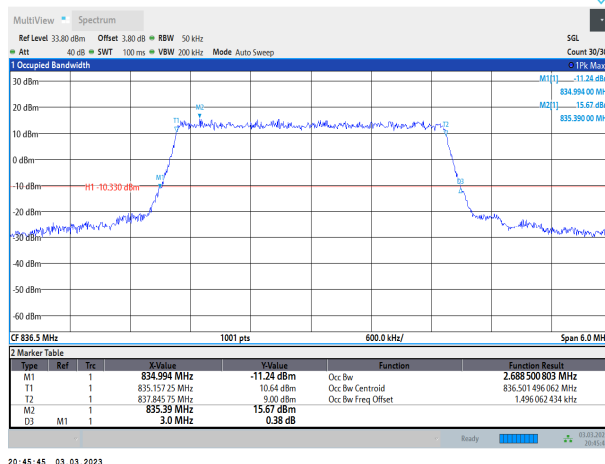
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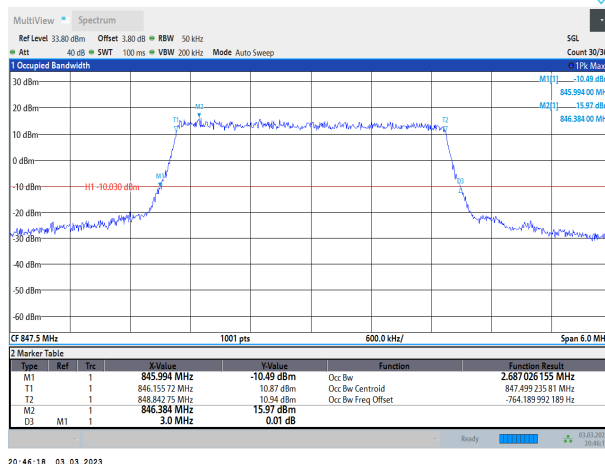
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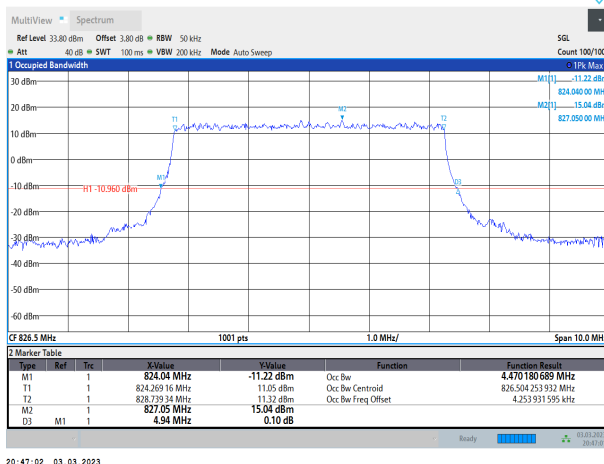
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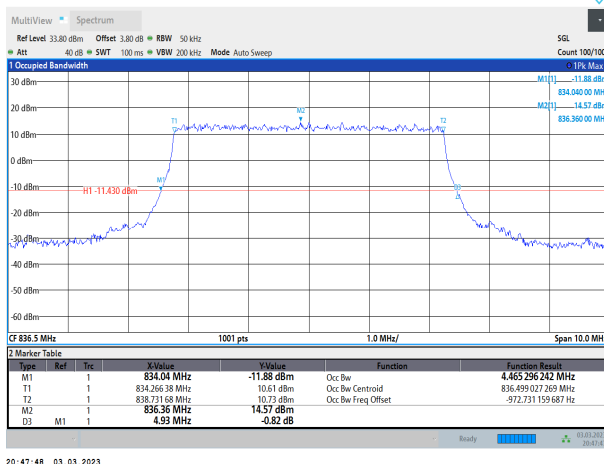
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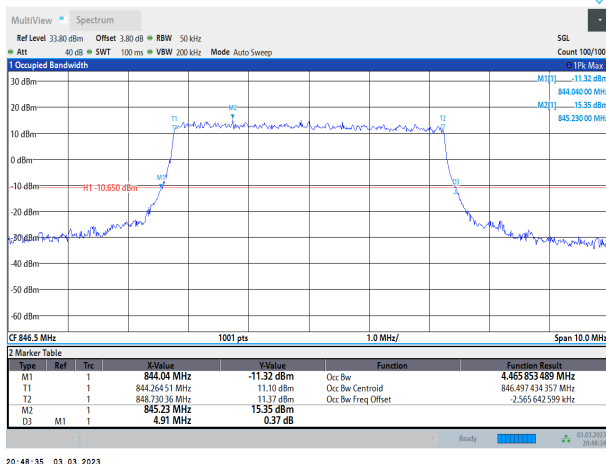


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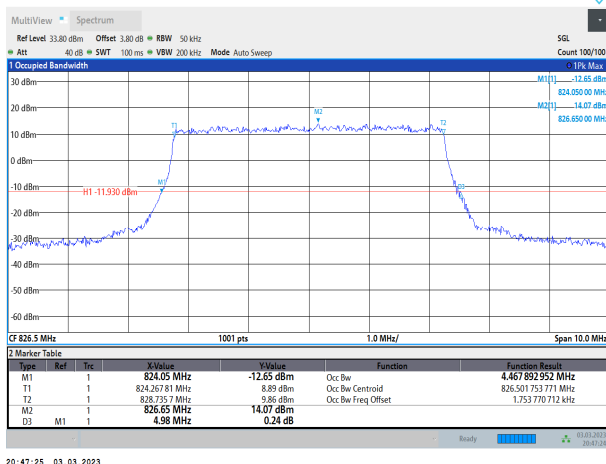
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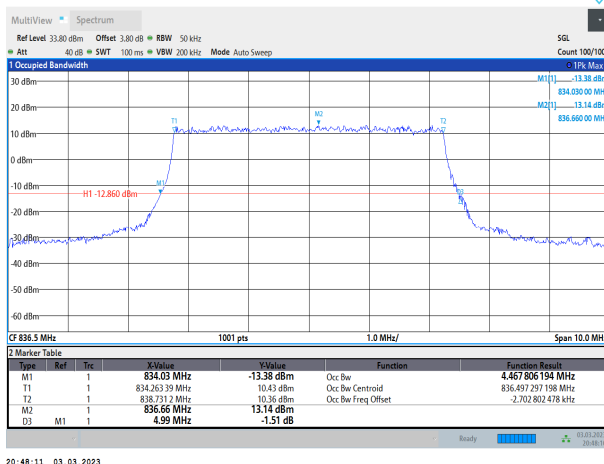


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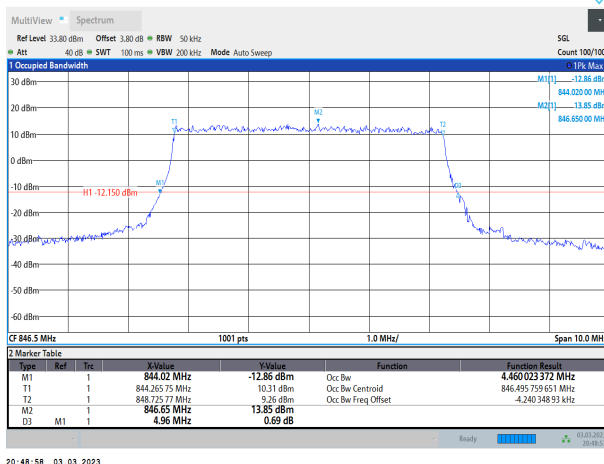
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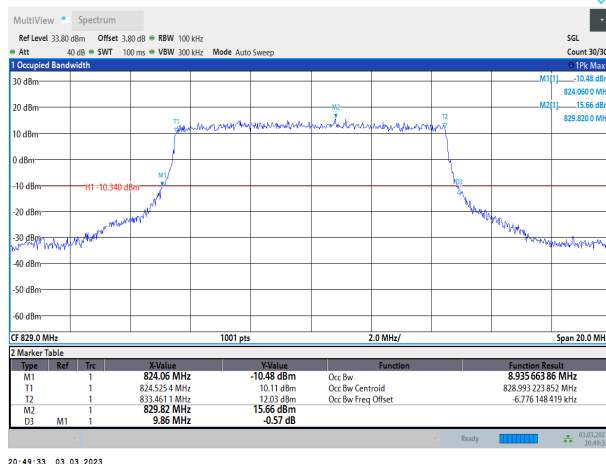


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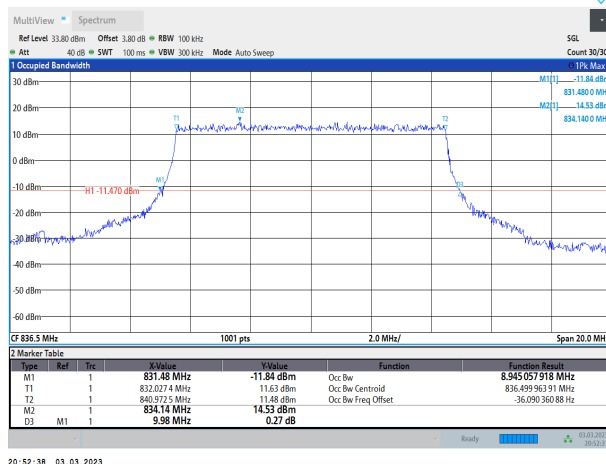
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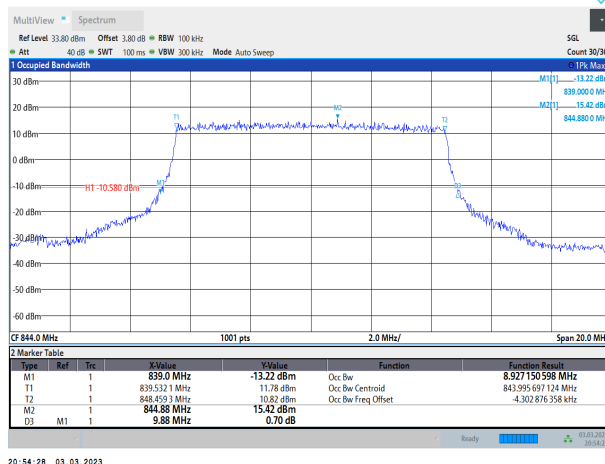


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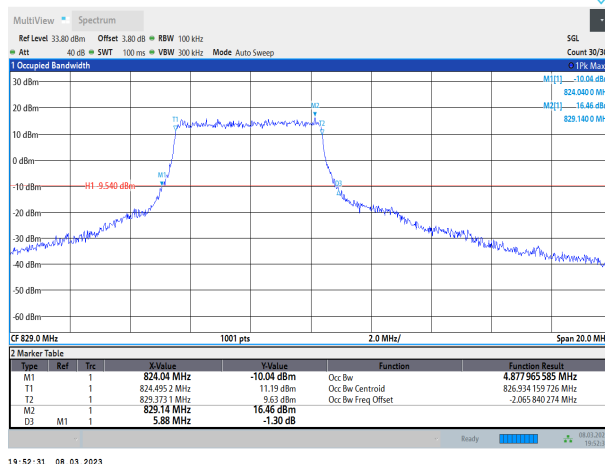
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### Band5-10MHz-QPSK-20600-50RB#0



### Band5-10MHz-16QAM-20450-27RB#0



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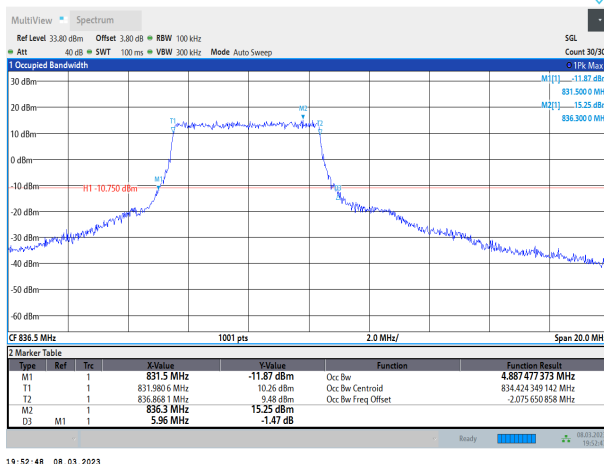
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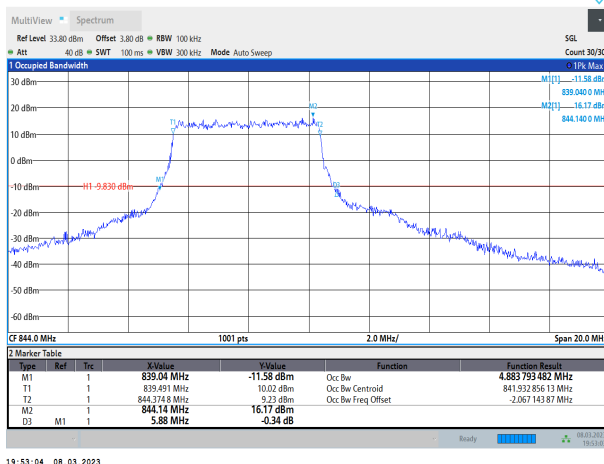
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### Band5-10MHz-16QAM-20525-27RB#0



### Band5-10MHz-16QAM-20600-27RB#0



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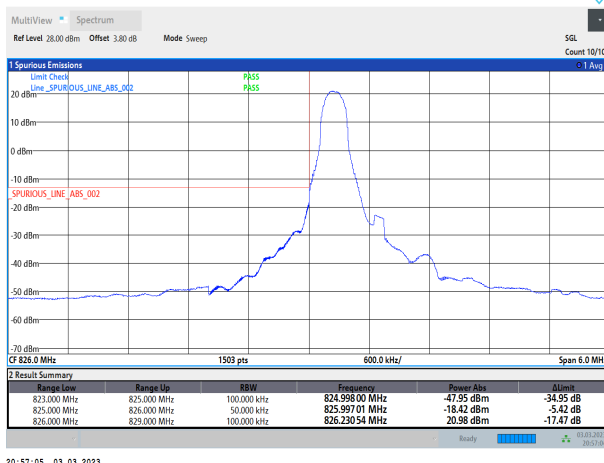
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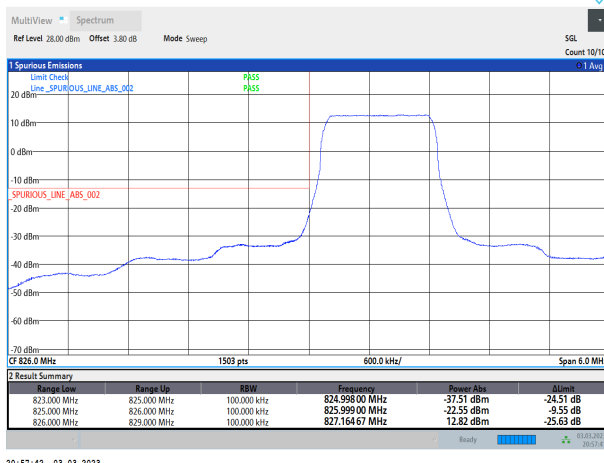
### Band Edge

### Test Graphs

#### Band5-1.4MHz-QPSK-20427-1RB#0



#### Band5-1.4MHz-QPSK-20427-6RB#0



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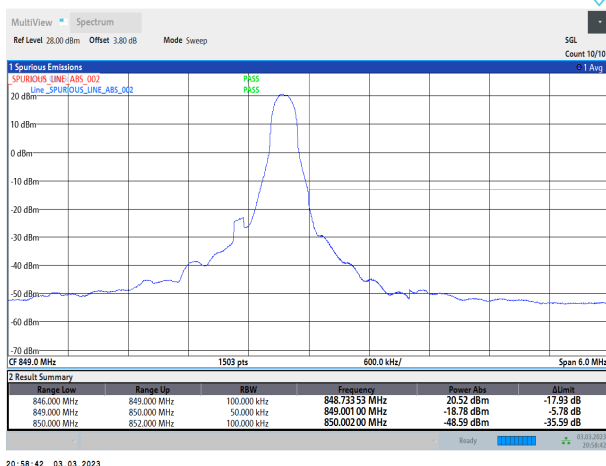
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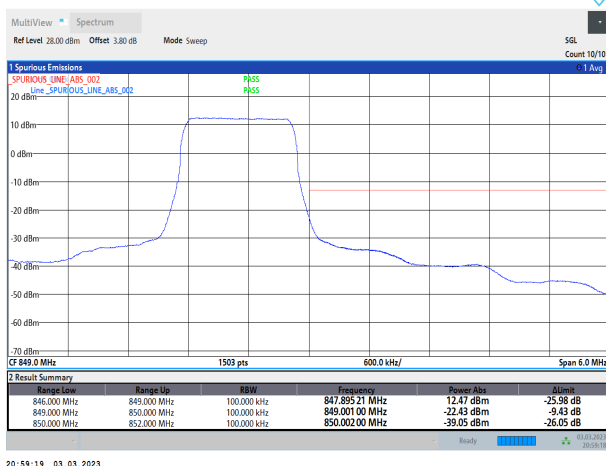
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### Band5-1.4MHz-QPSK-20643-1RB#5



### Band5-1.4MHz-QPSK-20643-6RB#0



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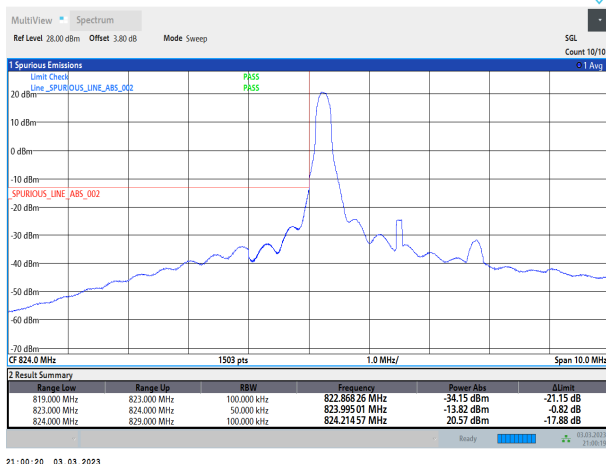
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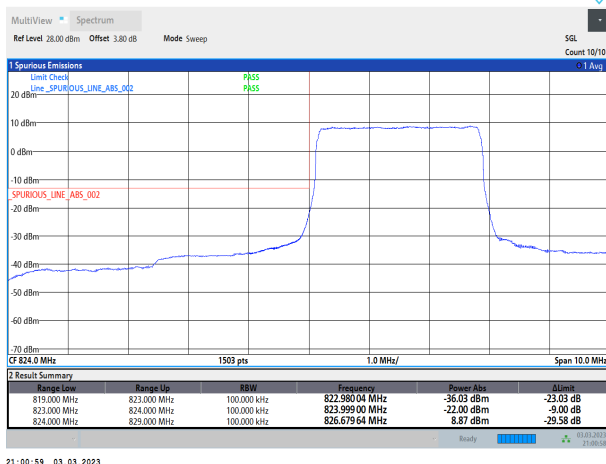
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### Band5-3MHz-QPSK-20415-1RB#0



### Band5-3MHz-QPSK-20415-15RB#0



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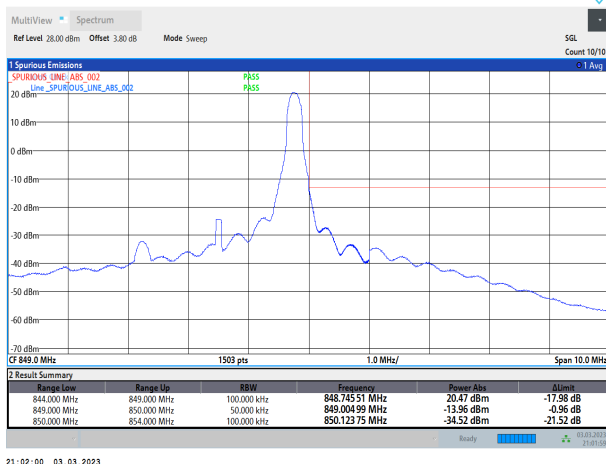


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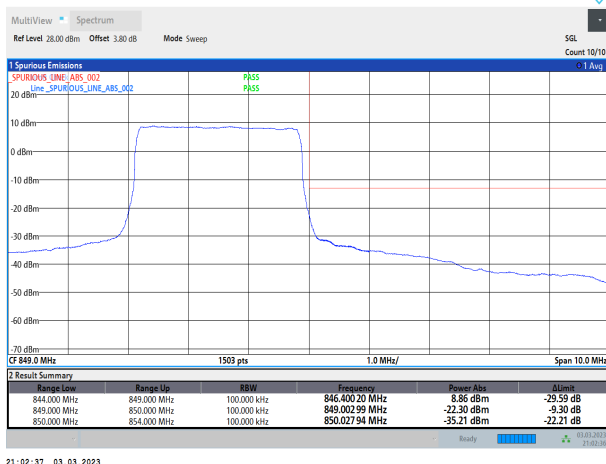
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### Band5-3MHz-QPSK-20635-1RB#14



### Band5-3MHz-QPSK-20635-15RB#0



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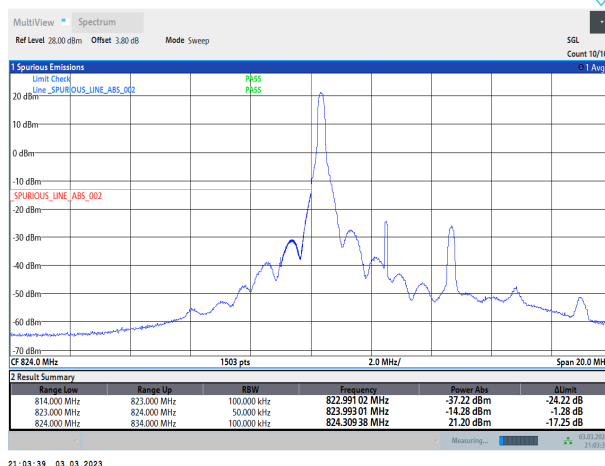
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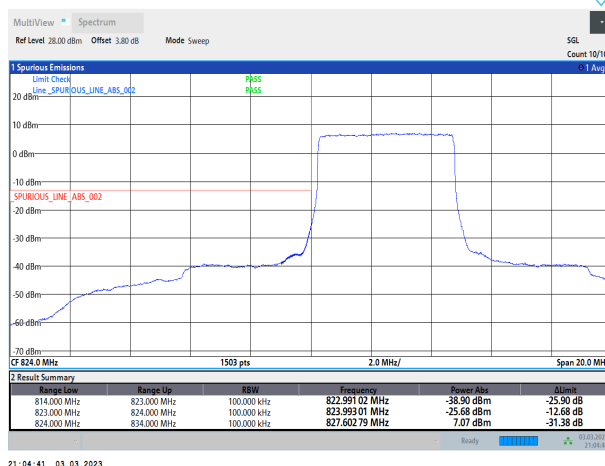
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### Band5-5MHz-QPSK-20425-1RB#0



21:09:39 03.03.2023

### Band5-5MHz-QPSK-20425-25RB#0



21:04:41 03.03.2023



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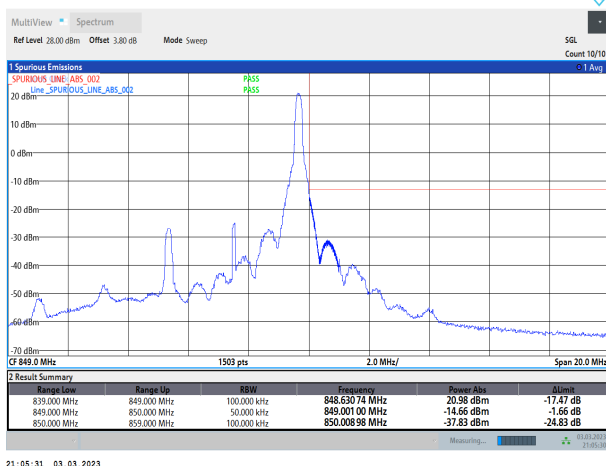
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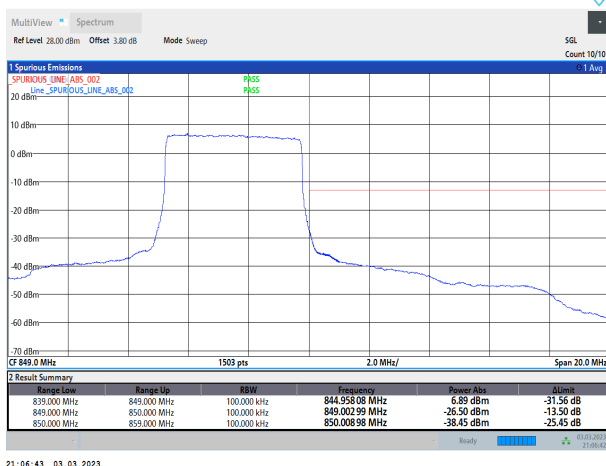
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### Band5-5MHz-QPSK-20625-25RB#0



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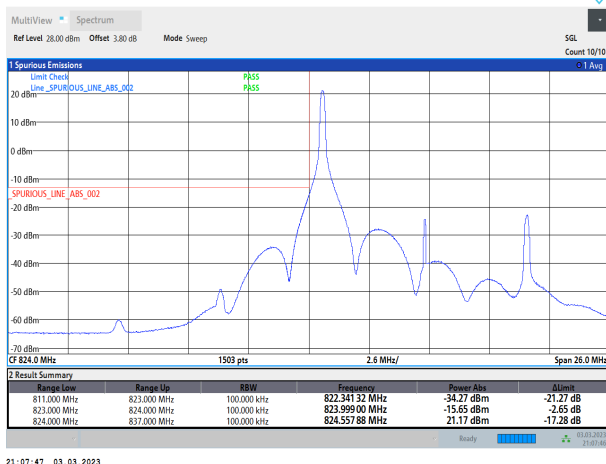
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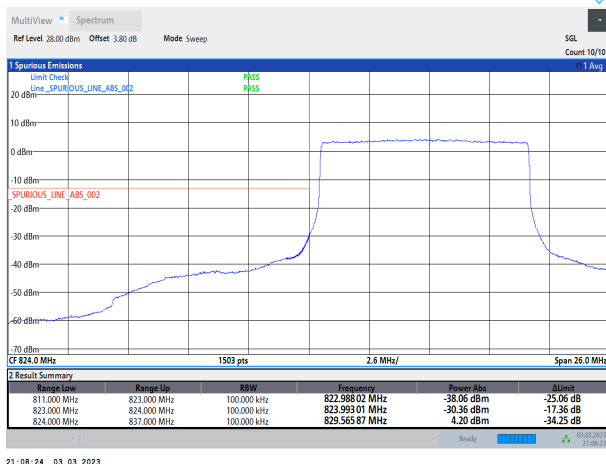
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### Band5-10MHz-QPSK-20450-1RB#0



### Band5-10MHz-QPSK-20450-50RB#0



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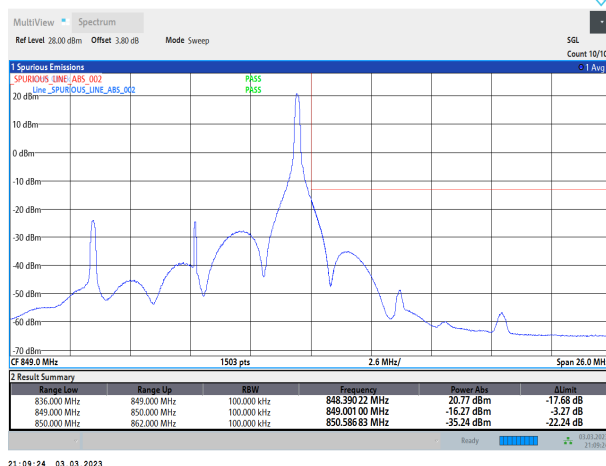
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## Band5-10MHz-QPSK-20600-1RB#49



## Band5-10MHz-QPSK-20600-50RB#0



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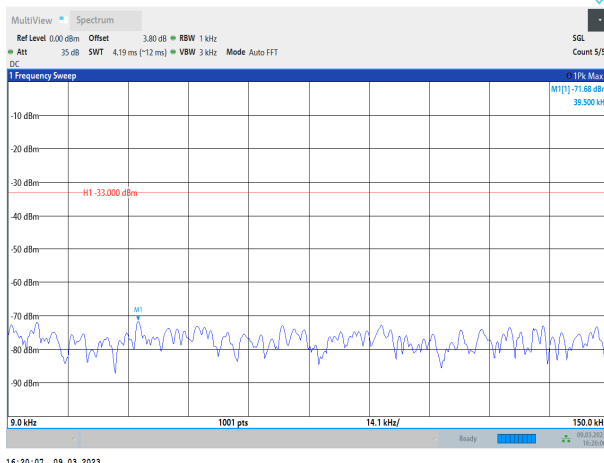
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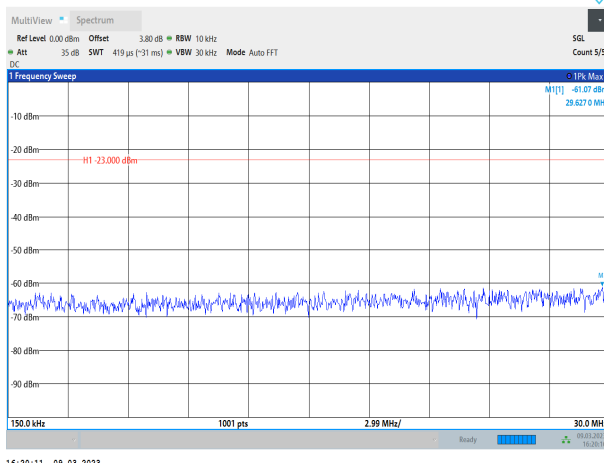
### Conducted Spurious Emission

#### Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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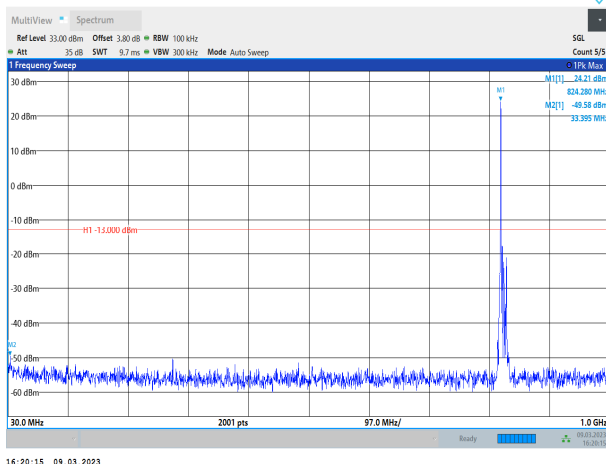
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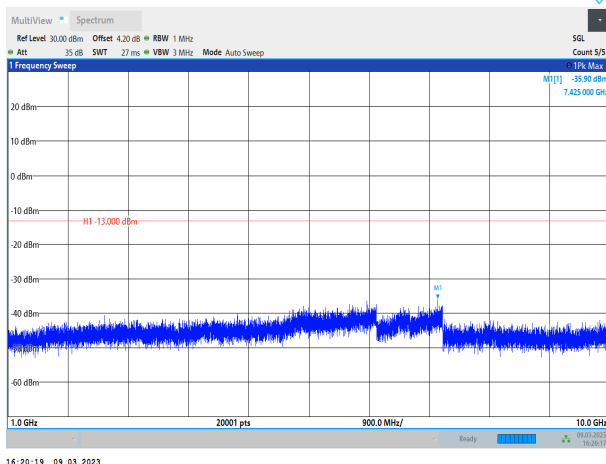
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### Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



### Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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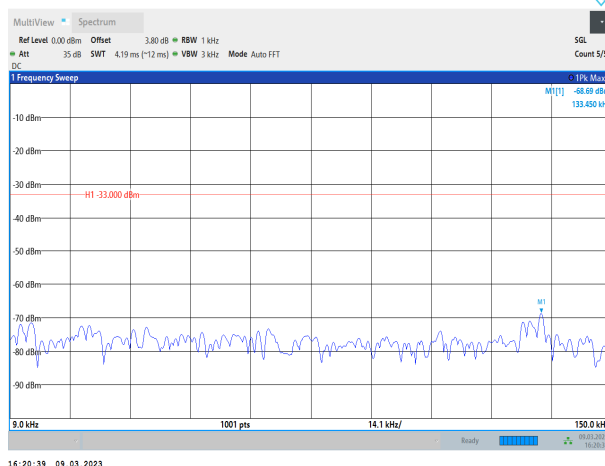


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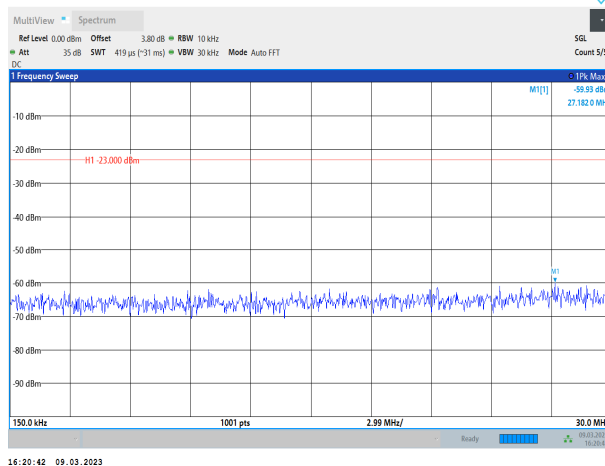
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### Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



### Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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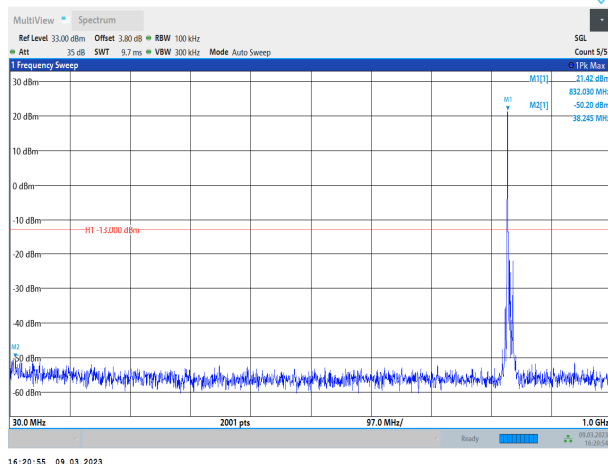
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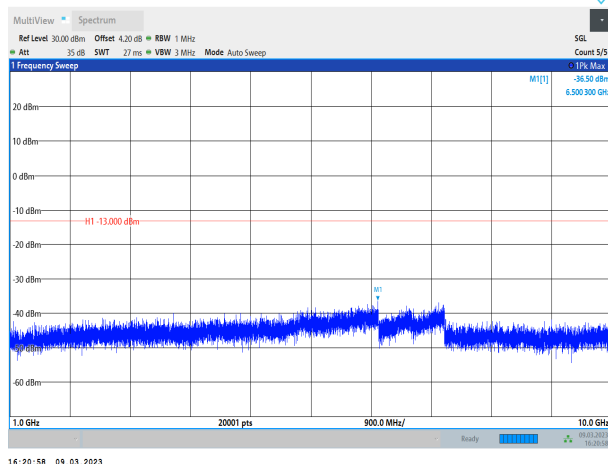
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### Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



### Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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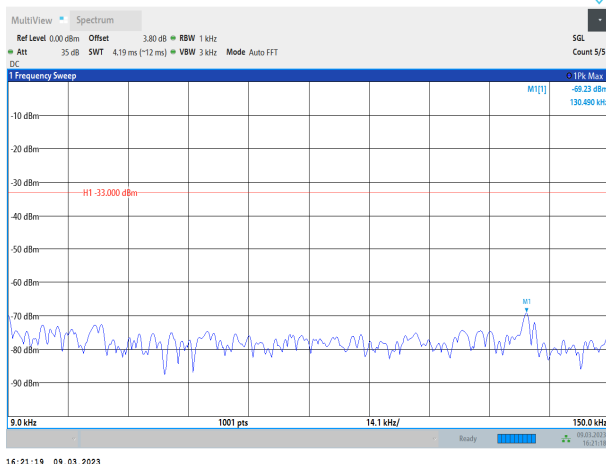
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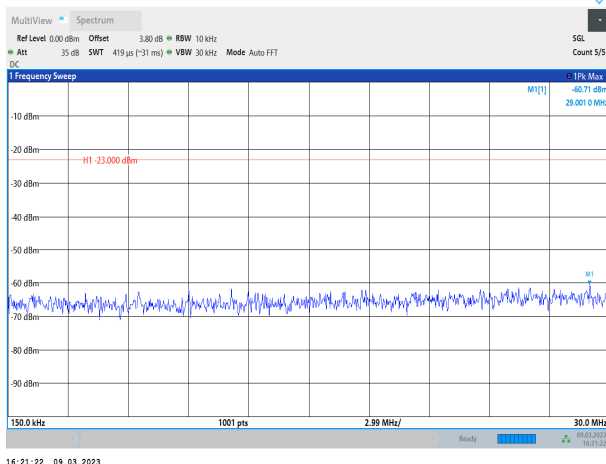
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### Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



### Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



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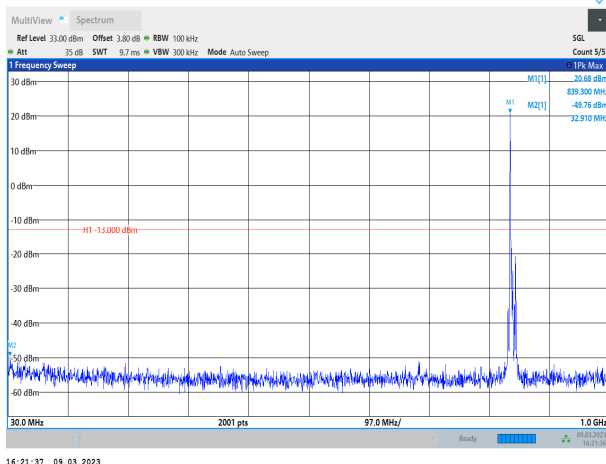
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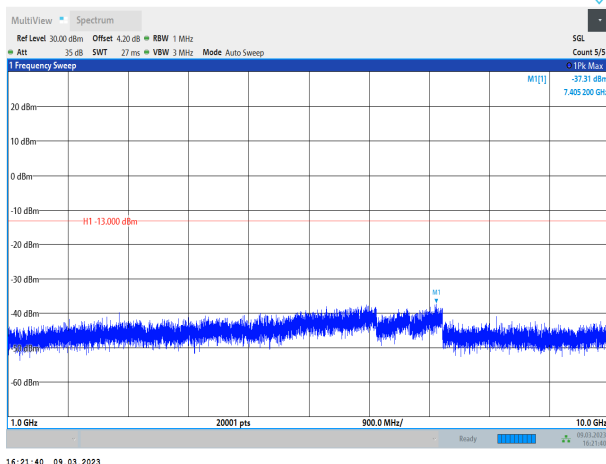
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### Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



### Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

**Test Band = LTE Band 5\_QPSK\_10MHz\_TM1**
**Test Channel = Low Channel**

### Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1   | 1649.18            | 53.36             | -48.38         | 25.58    | -64.71         | -13.00         | 51.71          | 162            | 13           | Horizontal |
| 2   | 2473.77            | 49.79             | -46.96         | 27.85    | -64.58         | -13.00         | 51.58          | 241            | 154          | Horizontal |
| 3   | 3298.36            | 45.94             | -46.11         | 29.48    | -65.95         | -13.00         | 52.95          | 168            | 139          | Horizontal |
| 4   | 4122.95            | 41.30             | -45.34         | 30.80    | -68.50         | -13.00         | 55.50          | 209            | 184          | Horizontal |
| 5   | 4947.54            | 40.38             | -45.08         | 32.48    | -67.49         | -13.00         | 54.49          | 238            | 301          | Horizontal |
| 6   | 5772.13            | 38.03             | -43.52         | 33.47    | -67.28         | -13.00         | 54.28          | 214            | 1            | Horizontal |

### Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| 1   | 1649.18            | 48.48             | -48.38         | 25.58    | -69.59         | -13.00         | 56.59          | 147            | 99           | Vertical |
| 2   | 2473.77            | 63.80             | -46.96         | 27.85    | -50.57         | -13.00         | 37.57          | 216            | 277          | Vertical |
| 3   | 3298.36            | 45.18             | -46.11         | 29.48    | -66.71         | -13.00         | 53.71          | 225            | 247          | Vertical |
| 4   | 4122.95            | 43.17             | -45.34         | 30.80    | -66.63         | -13.00         | 53.63          | 248            | 233          | Vertical |
| 5   | 4947.54            | 40.63             | -45.08         | 32.48    | -67.24         | -13.00         | 54.24          | 159            | 360          | Vertical |
| 6   | 5772.13            | 38.77             | -43.52         | 33.47    | -66.54         | -13.00         | 53.54          | 186            | 337          | Vertical |



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**Test Band = LTE Band 5\_QPSK\_10MHz\_TM1**
**Test Channel = Mid Channel**
**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1   | 1664.18            | 57.23             | -48.34         | 25.57    | -60.80         | -13.00         | 47.80          | 185            | 317          | Horizontal |
| 2   | 2496.27            | 45.12             | -46.77         | 27.89    | -69.02         | -13.00         | 56.02          | 213            | 156          | Horizontal |
| 3   | 3328.36            | 44.20             | -46.16         | 29.47    | -67.75         | -13.00         | 54.75          | 221            | 54           | Horizontal |
| 4   | 4160.45            | 42.10             | -45.23         | 30.86    | -67.53         | -13.00         | 54.53          | 245            | 69           | Horizontal |
| 5   | 4992.54            | 39.63             | -45.02         | 32.58    | -68.07         | -13.00         | 55.07          | 156            | 230          | Horizontal |
| 6   | 5824.63            | 39.83             | -43.43         | 33.64    | -65.22         | -13.00         | 52.22          | 205            | 358          | Horizontal |

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| 1   | 1664.18            | 52.87             | -48.34         | 25.57    | -65.16         | -13.00         | 52.16          | 234            | 115          | Vertical |
| 2   | 2496.27            | 55.76             | -46.77         | 27.89    | -58.38         | -13.00         | 45.38          | 154            | 205          | Vertical |
| 3   | 3328.36            | 43.61             | -46.16         | 29.47    | -68.34         | -13.00         | 55.34          | 176            | 248          | Vertical |
| 4   | 4160.45            | 42.04             | -45.23         | 30.86    | -67.59         | -13.00         | 54.59          | 159            | 337          | Vertical |
| 5   | 4992.54            | 40.47             | -45.02         | 32.58    | -67.23         | -13.00         | 54.23          | 215            | 360          | Vertical |
| 6   | 5824.63            | 39.54             | -43.43         | 33.64    | -65.51         | -13.00         | 52.51          | 238            | 308          | Vertical |



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**Test Band = LTE Band 5\_QPSK\_10MHz\_TM1****Test Channel = High Channel****Final Data List**

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| 1   | 1679.18         | 61.29          | -48.30      | 25.56    | -56.71      | -13.00      | 43.71       | 142         | 230       | Horizontal |
| 2   | 2518.77         | 46.06          | -46.84      | 27.96    | -68.07      | -13.00      | 55.07       | 231         | 38        | Horizontal |
| 3   | 3358.36         | 45.40          | -46.21      | 29.46    | -66.61      | -13.00      | 53.61       | 225         | 100       | Horizontal |
| 4   | 4197.95         | 42.68          | -45.12      | 30.92    | -66.78      | -13.00      | 53.78       | 168         | 216       | Horizontal |
| 5   | 5037.54         | 39.92          | -44.85      | 32.60    | -67.59      | -13.00      | 54.59       | 174         | 230       | Horizontal |
| 6   | 5887.13         | 39.30          | -43.24      | 33.84    | -65.36      | -13.00      | 52.36       | 215         | 0         | 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   | 1679.18         | 59.58          | -48.30      | 25.56    | -58.42      | -13.00      | 45.42       | 209         | 325       | Vertical |
| 2   | 2518.77         | 60.17          | -46.84      | 27.96    | -53.96      | -13.00      | 40.96       | 149         | 146       | Vertical |
| 3   | 3358.36         | 44.61          | -46.21      | 29.46    | -67.40      | -13.00      | 54.40       | 285         | 279       | Vertical |
| 4   | 4197.95         | 43.25          | -45.12      | 30.92    | -66.21      | -13.00      | 53.21       | 165         | 358       | Vertical |
| 5   | 5037.54         | 40.05          | -44.85      | 32.60    | -67.46      | -13.00      | 54.46       | 220         | 101       | Vertical |
| 6   | 5887.13         | 39.18          | -43.24      | 33.84    | -65.48      | -13.00      | 52.48       | 178         | 3         | 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) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5   | 10MHz     | QPSK       | 20525   | 50RB#0       | VL            | NT               | -5.40          | -0.006455       | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20525   | 50RB#0       | VN            | NT               | -1.90          | -0.002271       | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20525   | 50RB#0       | VH            | NT               | -3.10          | -0.003706       | ±2.5        | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -30              | -1.90          | -0.002271       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -20              | -5.10          | -0.006097       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -10              | -3.80          | -0.004543       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 0                | -4.00          | -0.004782       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 10               | -3.20          | -0.003825       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 20               | -3.80          | -0.004543       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 30               | -2.90          | -0.003467       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 40               | -1.30          | -0.001554       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 50               | 0.50           | 0.000598        | ±2.5        | PASS    |

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