

# Appendix B

## NR band N38



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# 1 Effective (Isotropic) Radiated Power Output Data

## Ant4:

| NR Band | Bandwidth | SCS   | Modulation | Channel | RB Config       | Conducted Power(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|---------|-----------|-------|------------|---------|-----------------|----------------------|------------|-------------|---------|
| N38     | 20MHz     | 30KHz | TM1        | 516000  | Inner Full      | 23.06                | 20.06      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 516000  | Inner 1RB Left  | 21.9                 | 18.9       | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 516000  | Inner 1RB Right | 21.41                | 18.41      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 519000  | Inner Full      | 22.48                | 19.48      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 519000  | Inner 1RB Left  | 21.69                | 18.69      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 519000  | Inner 1RB Right | 22.14                | 19.14      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 522000  | Inner Full      | 23.31                | 20.31      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 522000  | Inner 1RB Left  | 21.93                | 18.93      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 522000  | Inner 1RB Right | 21.81                | 18.81      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM2        | 516000  | Inner Full      | 21.98                | 18.98      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM2        | 516000  | Inner 1RB Left  | 20.99                | 17.99      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM2        | 516000  | Inner 1RB Right | 20.53                | 17.53      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM2        | 519000  | Inner Full      | 21.53                | 18.53      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM2        | 519000  | Inner 1RB Left  | 20.6                 | 17.6       | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM2        | 519000  | Inner 1RB Right | 20.75                | 17.75      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM2        | 522000  | Inner Full      | 22.29                | 19.29      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM2        | 522000  | Inner 1RB Left  | 20.98                | 17.98      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM2        | 522000  | Inner 1RB Right | 20.87                | 17.87      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM3        | 516000  | Inner Full      | 20.49                | 17.49      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM3        | 516000  | Inner 1RB Left  | 20.5                 | 17.5       | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM3        | 516000  | Inner 1RB Right | 19.86                | 16.86      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM3        | 519000  | Inner Full      | 20                   | 17         | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM3        | 519000  | Inner 1RB Left  | 20.23                | 17.23      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM3        | 519000  | Inner 1RB Right | 20.58                | 17.58      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM3        | 522000  | Inner Full      | 20.76                | 17.76      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM3        | 522000  | Inner 1RB Left  | 20.4                 | 17.4       | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM3        | 522000  | Inner 1RB Right | 20.47                | 17.47      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM4        | 516000  | Inner Full      | 18.54                | 15.54      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM4        | 516000  | Inner 1RB Left  | 17.99                | 14.99      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM4        | 516000  | Inner 1RB Right | 17.8                 | 14.8       | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM4        | 519000  | Inner Full      | 18.1                 | 15.1       | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM4        | 519000  | Inner 1RB Left  | 18.18                | 15.18      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM4        | 519000  | Inner 1RB Right | 18.47                | 15.47      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM4        | 522000  | Inner Full      | 18.83                | 15.83      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM4        | 522000  | Inner 1RB Left  | 18.52                | 15.52      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM4        | 522000  | Inner 1RB Right | 18.35                | 15.35      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM5        | 516000  | Inner Full      | 21.46                | 18.46      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM5        | 516000  | Inner 1RB Left  | 19.97                | 16.97      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM5        | 516000  | Inner 1RB Right | 19.38                | 16.38      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM5        | 519000  | Inner Full      | 21.05                | 18.05      | 33          | PASS    |



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|     |       |       |     |        |                 |       |       |    |      |
|-----|-------|-------|-----|--------|-----------------|-------|-------|----|------|
| N38 | 20MHz | 30KHz | TM5 | 519000 | Inner 1RB Left  | 19.78 | 16.78 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 519000 | Inner 1RB Right | 20.06 | 17.06 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 522000 | Inner Full      | 21.83 | 18.83 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 522000 | Inner 1RB Left  | 19.91 | 16.91 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 522000 | Inner 1RB Right | 20.04 | 17.04 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 516000 | Inner Full      | 21    | 18    | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 516000 | Inner 1RB Left  | 19.86 | 16.86 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 516000 | Inner 1RB Right | 19.11 | 16.11 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 519000 | Inner Full      | 20.57 | 17.57 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 519000 | Inner 1RB Left  | 19.65 | 16.65 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 519000 | Inner 1RB Right | 19.88 | 16.88 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 522000 | Inner Full      | 21.42 | 18.42 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 522000 | Inner 1RB Left  | 20.47 | 17.47 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 522000 | Inner 1RB Right | 18.86 | 15.86 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 516000 | Inner Full      | 19.52 | 16.52 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 516000 | Inner 1RB Left  | 19.41 | 16.41 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 516000 | Inner 1RB Right | 18.9  | 15.9  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 519000 | Inner Full      | 19.11 | 16.11 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 519000 | Inner 1RB Left  | 19.25 | 16.25 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 519000 | Inner 1RB Right | 19.75 | 16.75 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 522000 | Inner Full      | 19.95 | 16.95 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 522000 | Inner 1RB Left  | 19.51 | 16.51 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 522000 | Inner 1RB Right | 19.57 | 16.57 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 516000 | Inner Full      | 16.53 | 13.53 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 516000 | Inner 1RB Left  | 16.07 | 13.07 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 516000 | Inner 1RB Right | 15.71 | 12.71 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 519000 | Inner Full      | 15.97 | 12.97 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 519000 | Inner 1RB Left  | 15.96 | 12.96 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 519000 | Inner 1RB Right | 16.69 | 13.69 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 522000 | Inner Full      | 16.94 | 13.94 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 522000 | Inner 1RB Left  | 16.62 | 13.62 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 522000 | Inner 1RB Right | 16.33 | 13.33 | 33 | PASS |

**Ant3:**

| NR Band | Bandwidth | SCS   | Modulation | Channel | RB Config       | Conducted Power(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|---------|-----------|-------|------------|---------|-----------------|----------------------|------------|-------------|---------|
| N38     | 20MHz     | 30KHz | TM1        | 516000  | Inner Full      | 16.38                | 15.38      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 516000  | Inner 1RB Left  | 16.29                | 15.29      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 516000  | Inner 1RB Right | 16.2                 | 15.2       | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 519000  | Inner Full      | 16.17                | 15.17      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 519000  | Inner 1RB Left  | 16.25                | 15.25      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 519000  | Inner 1RB Right | 16.31                | 15.31      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 522000  | Inner Full      | 16.33                | 15.33      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 522000  | Inner 1RB Left  | 16.35                | 15.35      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM1        | 522000  | Inner 1RB Right | 16.35                | 15.35      | 33          | PASS    |
| N38     | 20MHz     | 30KHz | TM2        | 516000  | Inner Full      | 16.29                | 15.29      | 33          | PASS    |



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|     |       |       |     |        |                 |       |       |    |      |
|-----|-------|-------|-----|--------|-----------------|-------|-------|----|------|
| N38 | 20MHz | 30KHz | TM2 | 516000 | Inner 1RB Left  | 16.38 | 15.38 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM2 | 516000 | Inner 1RB Right | 16.31 | 15.31 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM2 | 519000 | Inner Full      | 16.39 | 15.39 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM2 | 519000 | Inner 1RB Left  | 16.46 | 15.46 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM2 | 519000 | Inner 1RB Right | 16.41 | 15.41 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM2 | 522000 | Inner Full      | 16.5  | 15.5  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM2 | 522000 | Inner 1RB Left  | 16.53 | 15.53 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM2 | 522000 | Inner 1RB Right | 16.63 | 15.63 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM3 | 516000 | Inner Full      | 16.61 | 15.61 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM3 | 516000 | Inner 1RB Left  | 16.64 | 15.64 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM3 | 516000 | Inner 1RB Right | 16.67 | 15.67 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM3 | 519000 | Inner Full      | 16.75 | 15.75 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM3 | 519000 | Inner 1RB Left  | 16.84 | 15.84 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM3 | 519000 | Inner 1RB Right | 16.82 | 15.82 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM3 | 522000 | Inner Full      | 16.86 | 15.86 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM3 | 522000 | Inner 1RB Left  | 16.78 | 15.78 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM3 | 522000 | Inner 1RB Right | 16.83 | 15.83 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM4 | 516000 | Inner Full      | 16.88 | 15.88 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM4 | 516000 | Inner 1RB Left  | 16.8  | 15.8  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM4 | 516000 | Inner 1RB Right | 16.87 | 15.87 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM4 | 519000 | Inner Full      | 16.92 | 15.92 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM4 | 519000 | Inner 1RB Left  | 16.98 | 15.98 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM4 | 519000 | Inner 1RB Right | 17.04 | 16.04 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM4 | 522000 | Inner Full      | 17.02 | 16.02 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM4 | 522000 | Inner 1RB Left  | 16.95 | 15.95 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM4 | 522000 | Inner 1RB Right | 16.86 | 15.86 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 516000 | Inner Full      | 16.89 | 15.89 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 516000 | Inner 1RB Left  | 16.8  | 15.8  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 516000 | Inner 1RB Right | 16.81 | 15.81 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 519000 | Inner Full      | 16.9  | 15.9  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 519000 | Inner 1RB Left  | 16.95 | 15.95 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 519000 | Inner 1RB Right | 16.88 | 15.88 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 522000 | Inner Full      | 16.8  | 15.8  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 522000 | Inner 1RB Left  | 16.88 | 15.88 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM5 | 522000 | Inner 1RB Right | 16.8  | 15.8  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 516000 | Inner Full      | 16.86 | 15.86 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 516000 | Inner 1RB Left  | 16.86 | 15.86 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 516000 | Inner 1RB Right | 16.79 | 15.79 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 519000 | Inner Full      | 16.72 | 15.72 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 519000 | Inner 1RB Left  | 16.68 | 15.68 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 519000 | Inner 1RB Right | 16.75 | 15.75 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 522000 | Inner Full      | 16.66 | 15.66 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 522000 | Inner 1RB Left  | 16.6  | 15.6  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM6 | 522000 | Inner 1RB Right | 16.5  | 15.5  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 516000 | Inner Full      | 16.45 | 15.45 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 516000 | Inner 1RB Left  | 16.42 | 15.42 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 516000 | Inner 1RB Right | 16.41 | 15.41 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 519000 | Inner Full      | 16.39 | 15.39 | 33 | PASS |



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|     |       |       |     |        |                 |       |       |    |      |
|-----|-------|-------|-----|--------|-----------------|-------|-------|----|------|
| N38 | 20MHz | 30KHz | TM7 | 519000 | Inner 1RB Left  | 16.37 | 15.37 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 519000 | Inner 1RB Right | 16.3  | 15.3  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 522000 | Inner Full      | 16.23 | 15.23 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 522000 | Inner 1RB Left  | 16.26 | 15.26 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM7 | 522000 | Inner 1RB Right | 16.3  | 15.3  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 516000 | Inner Full      | 16.26 | 15.26 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 516000 | Inner 1RB Left  | 16.2  | 15.2  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 516000 | Inner 1RB Right | 16.26 | 15.26 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 519000 | Inner Full      | 16.2  | 15.2  | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 519000 | Inner 1RB Left  | 16.16 | 15.16 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 519000 | Inner 1RB Right | 16.07 | 15.07 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 522000 | Inner Full      | 16.08 | 15.08 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 522000 | Inner 1RB Left  | 16.12 | 15.12 | 33 | PASS |
| N38 | 20MHz | 30KHz | TM8 | 522000 | Inner 1RB Right | 16.17 | 15.17 | 33 | PASS |

**Note:**

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$

$$\text{ERP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBi]} - 2.15$$



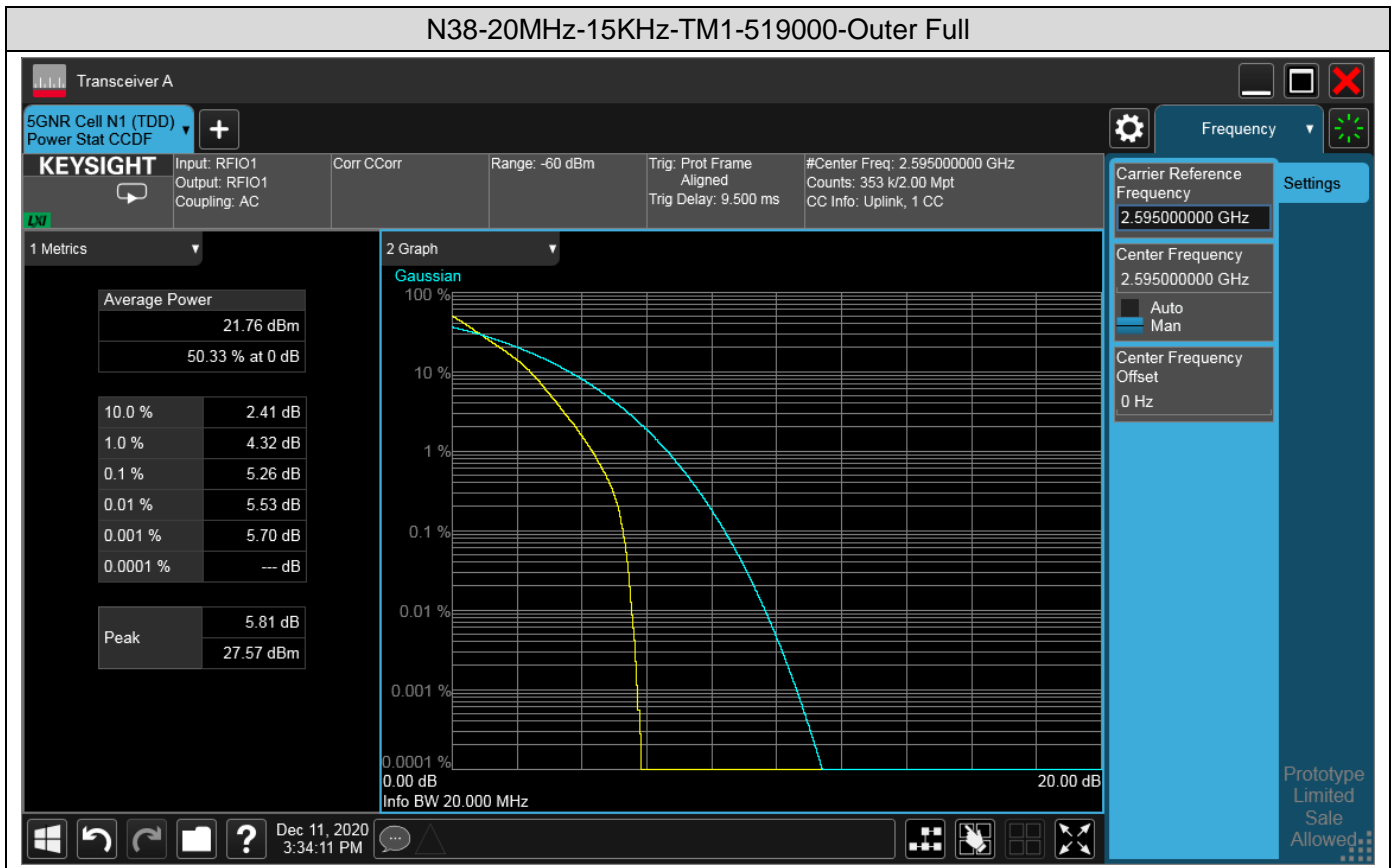
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## 2 Peak-to-Average Ratio

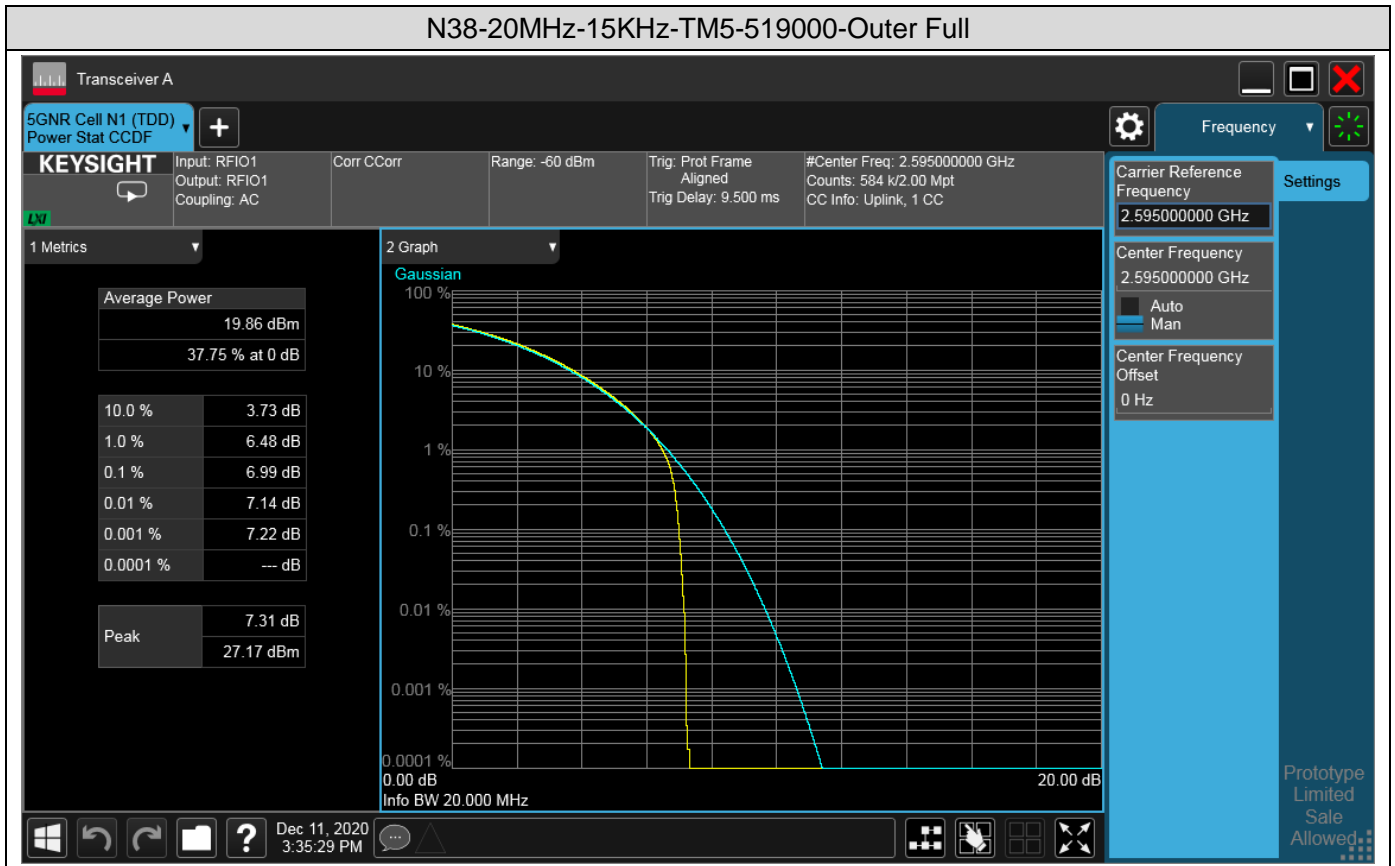
### 2.1 Test Results

| NR Band | Bandwidth | SCS   | Modulation | Channel | RB Config  | Result (dB) | Limit (dBm) | Verdict |
|---------|-----------|-------|------------|---------|------------|-------------|-------------|---------|
| N38     | 20MHz     | 30KHz | TM1        | 519000  | Outer Full | 5.26        | 13          | PASS    |
| N38     | 20MHz     | 30KHz | TM5        | 519000  | Outer Full | 6.99        | 13          | PASS    |

### 2.2 Test Plots



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**REMARK:**

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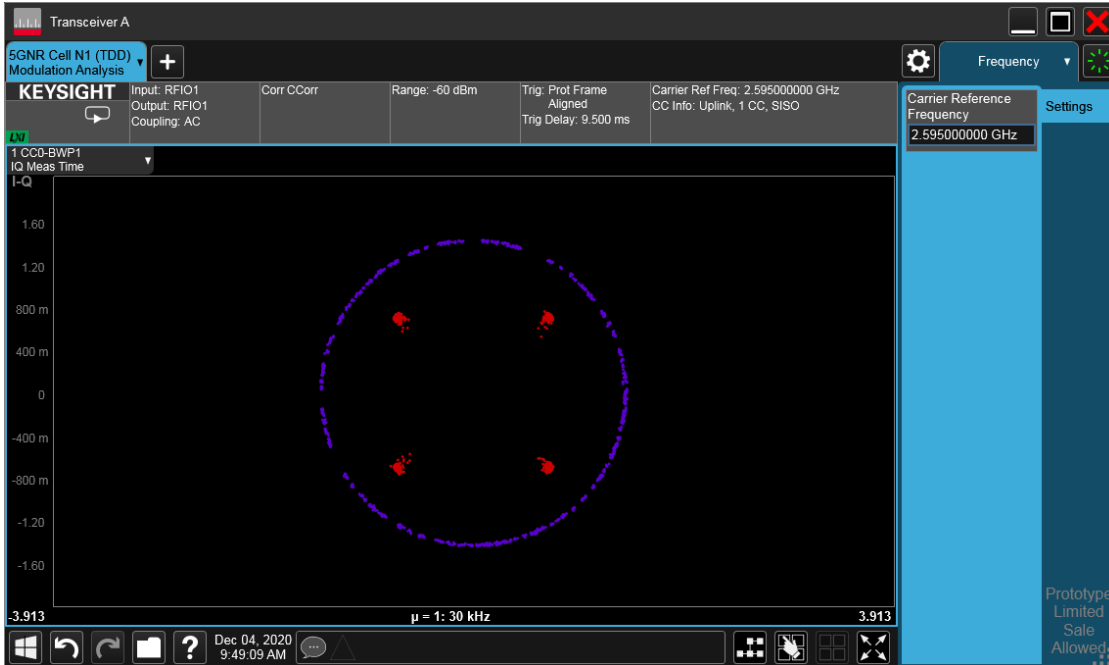
### 3 Modulation Characteristics

#### 3.1 Test Plots

##### 3.1.1 Test Band = N38

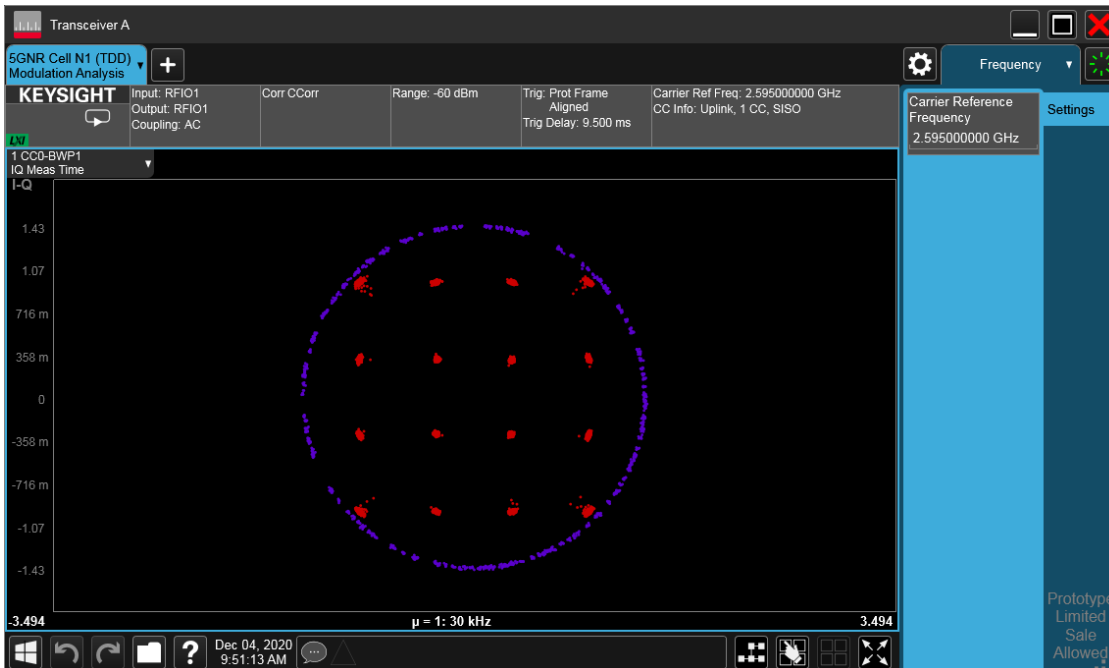
##### 3.1.1.1 Test Mode = TM1 20MHz

##### 3.1.1.1.1 Test Channel = MCH



##### 3.1.1.2 Test Mode = TM2 20MHz

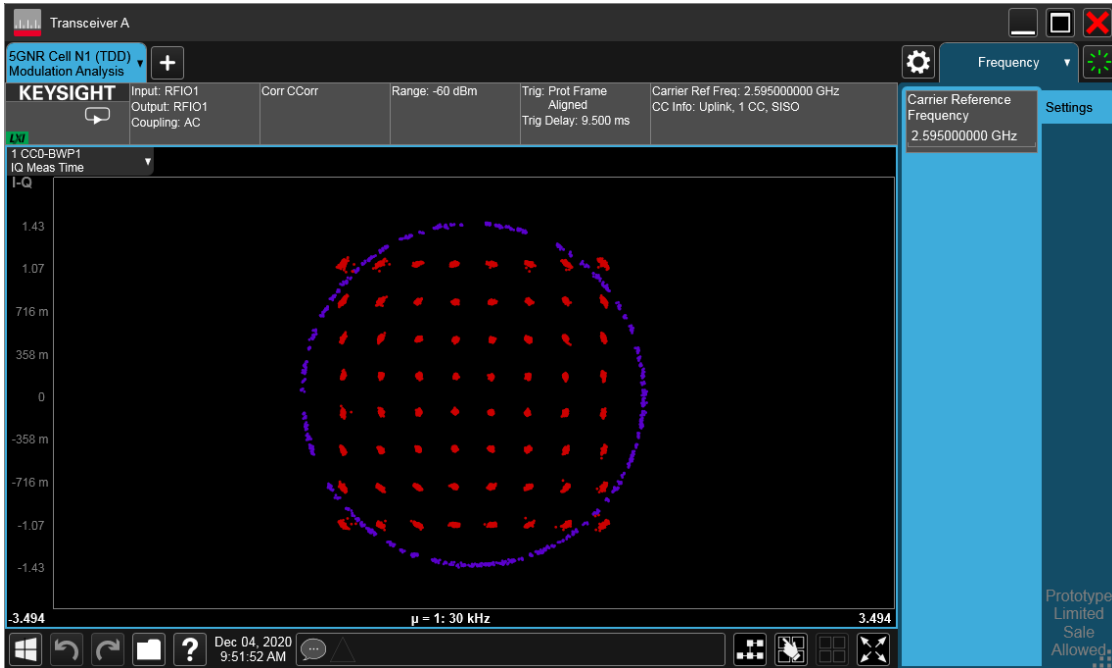
##### 3.1.1.2.1 Test Channel = MCH



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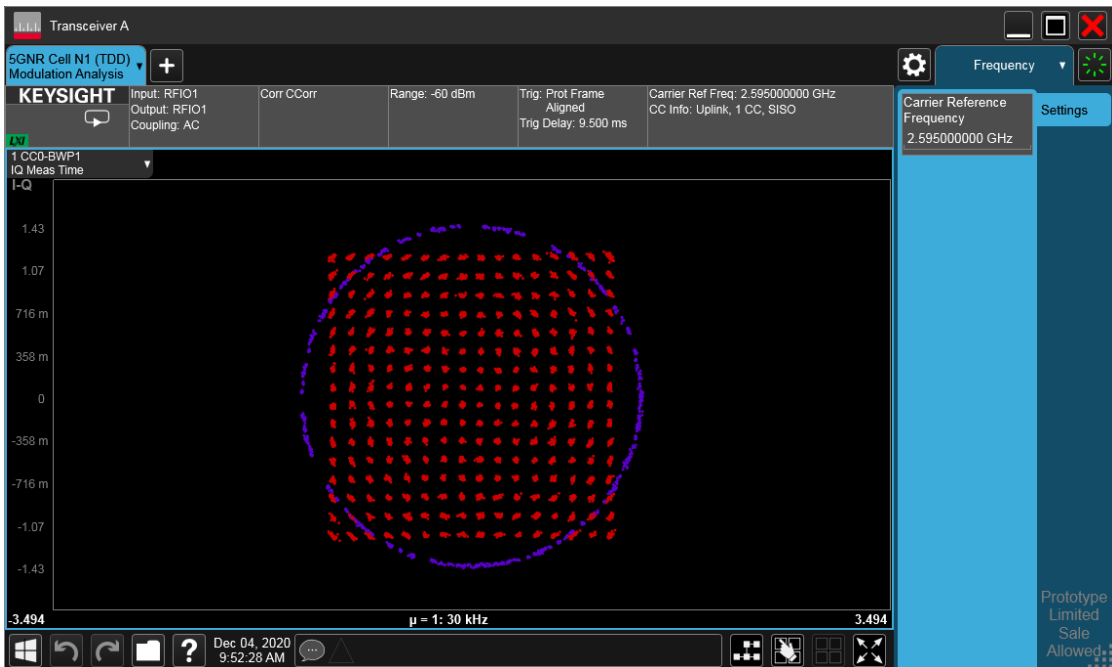
**3.1.1.3 Test Mode = TM3 20MHz**

**3.1.1.3.1 Test Channel = MCH**



**3.1.1.4 Test Mode = TM4 20MHz**

**3.1.1.4.1 Test Channel = MCH**



**REMARK:**

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## 4 Occupied Bandwidth & 26dB Emission Bandwidth

### 4.1 Test Results

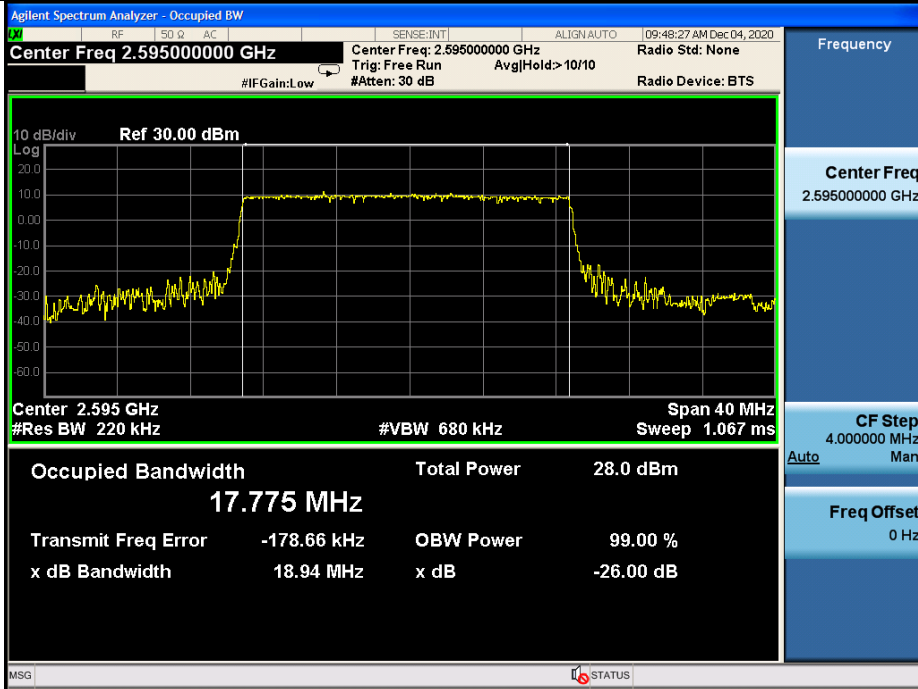
| NR Band | Bandwidth | SCS   | Modulation | Channel | RB Config  | OBW (MHz) | EBW (MHz) | Verdict |
|---------|-----------|-------|------------|---------|------------|-----------|-----------|---------|
| N38     | 20MHz     | 30KHz | TM1        | 519000  | Outer Full | 17.78     | 18.94     | PASS    |
| N38     | 20MHz     | 30KHz | TM2        | 519000  | Outer Full | 17.84     | 19.33     | PASS    |
| N38     | 20MHz     | 30KHz | TM3        | 519000  | Outer Full | 17.79     | 19.25     | PASS    |
| N38     | 20MHz     | 30KHz | TM4        | 519000  | Outer Full | 17.80     | 19.22     | PASS    |
| N38     | 20MHz     | 30KHz | TM5        | 519000  | Outer Full | 18.25     | 19.79     | PASS    |
| N38     | 20MHz     | 30KHz | TM6        | 519000  | Outer Full | 18.17     | 19.44     | PASS    |
| N38     | 20MHz     | 30KHz | TM7        | 519000  | Outer Full | 18.21     | 19.41     | PASS    |
| N38     | 20MHz     | 30KHz | TM8        | 519000  | Outer Full | 18.18     | 19.44     | PASS    |

### 4.2 Test Plots

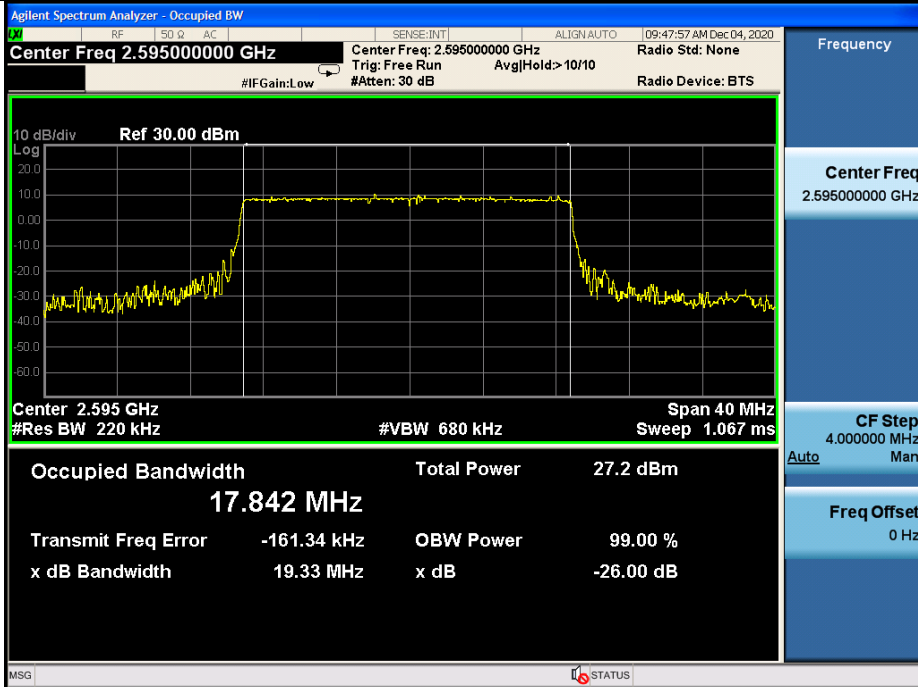


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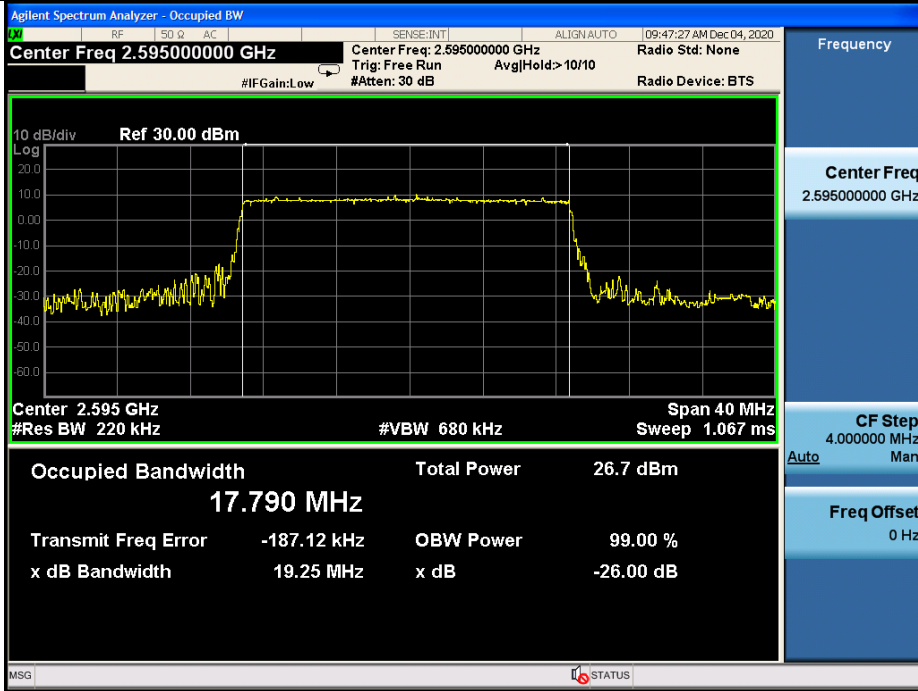
**OBW&EBW N38 30KHz TM1 20MHz 519000 Outer Full**



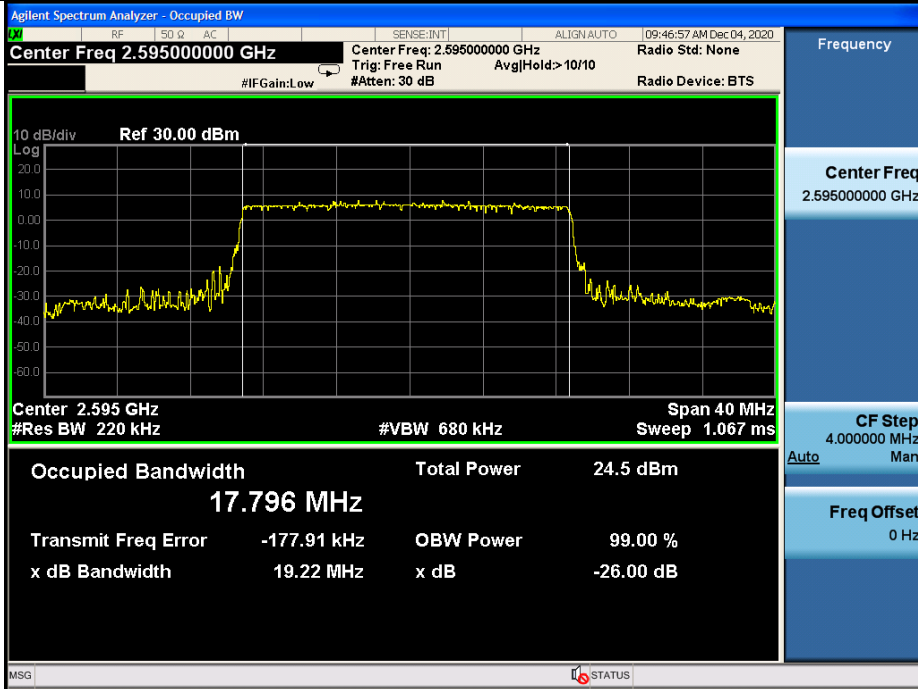
**OBW&EBW N38 30KHz TM2 20MHz 519000 Outer Full**



**OBW&EBW N38 30KHz TM3 20MHz 519000 Outer Full**

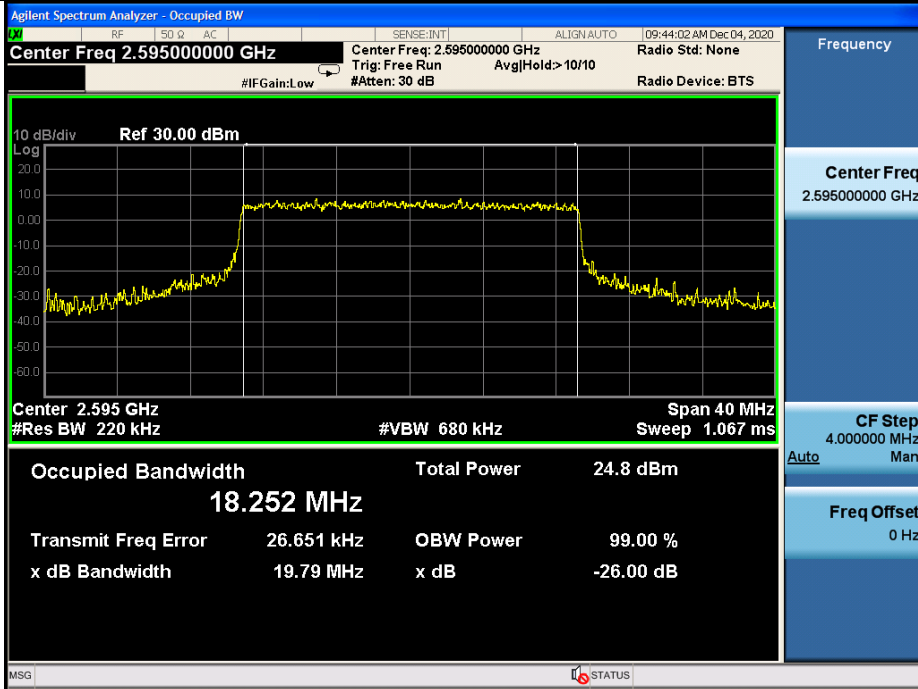


**OBW&EBW N38 30KHz TM4 20MHz 519000 Outer Full**

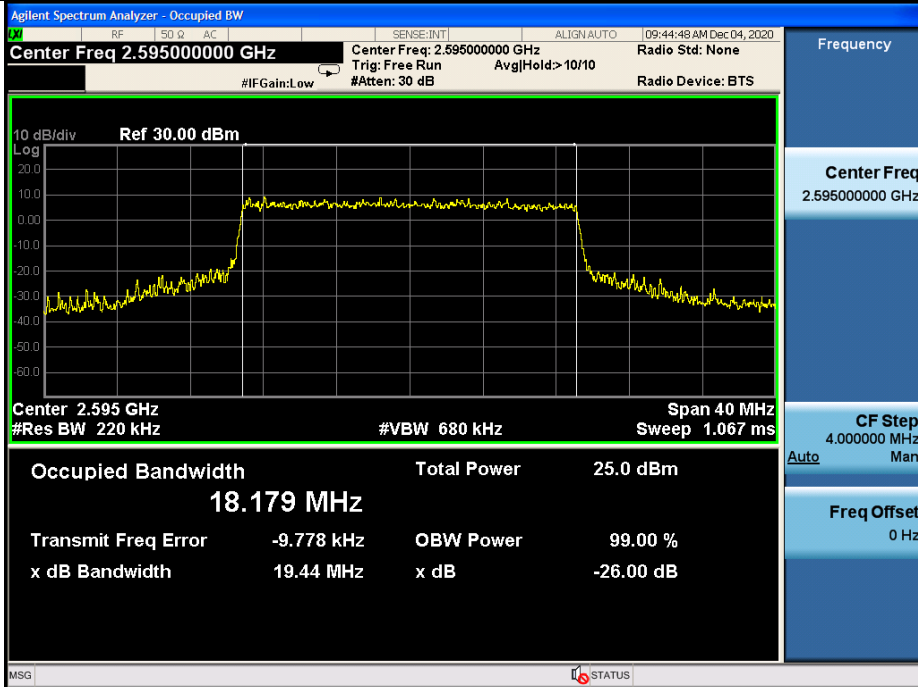


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**OBW&EBW N38 30KHz TM5 20MHz 519000 Outer Full**

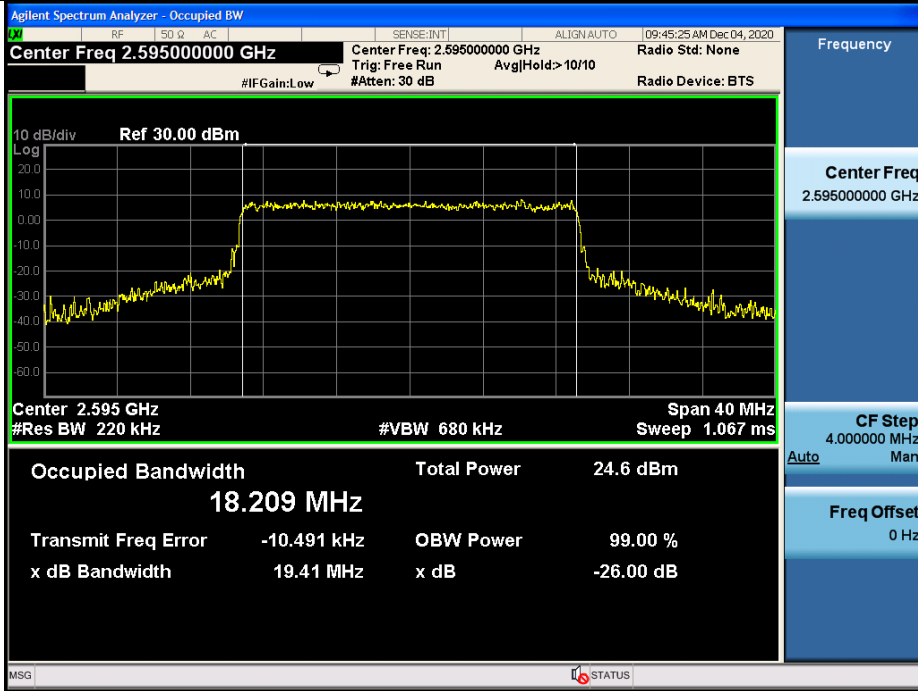


**OBW&EBW N38 30KHz TM6 20MHz 519000 Outer Full**

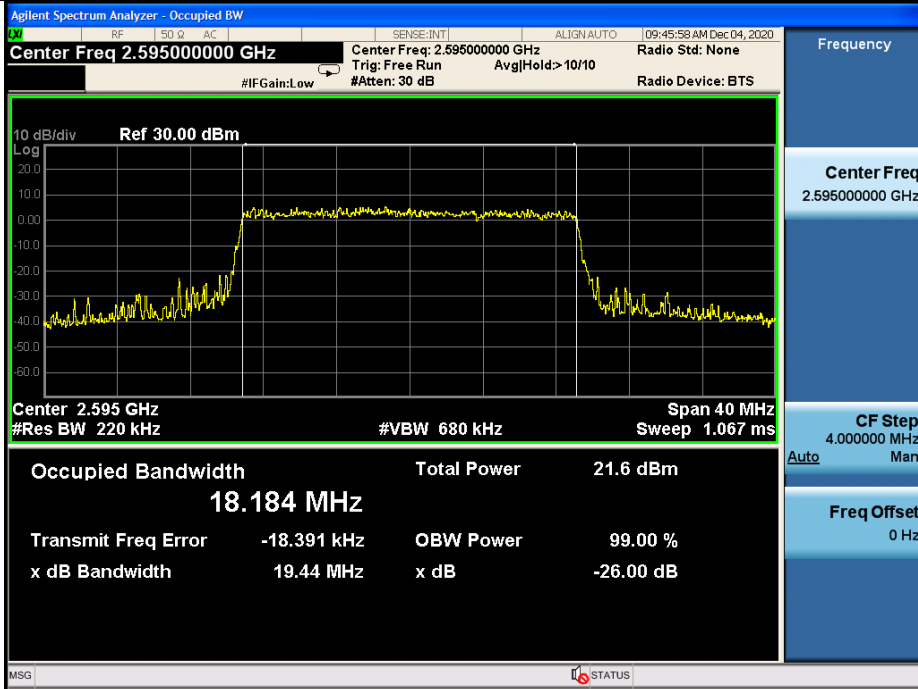


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**OBW&EBW N38 30KHz TM7 20MHz 519000 Outer Full**



**OBW&EBW N38 30KHz TM8 20MHz 519000 Outer Full**



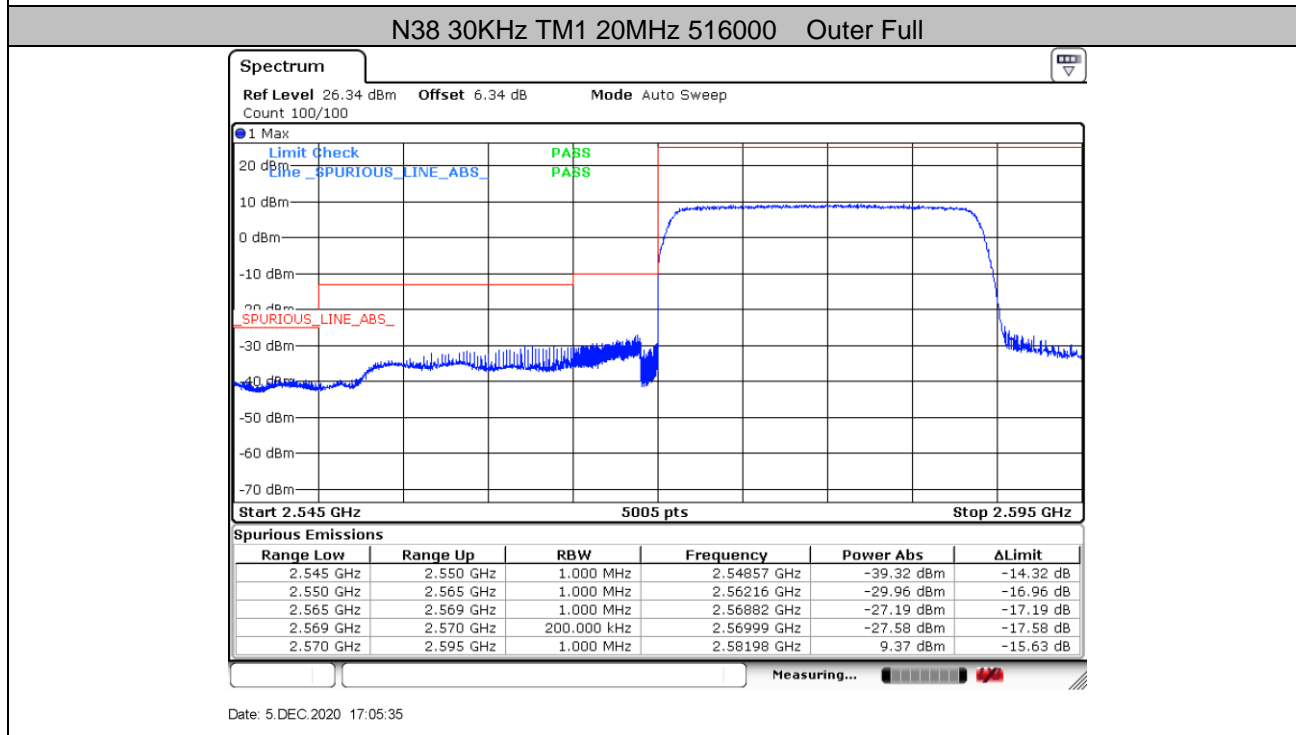
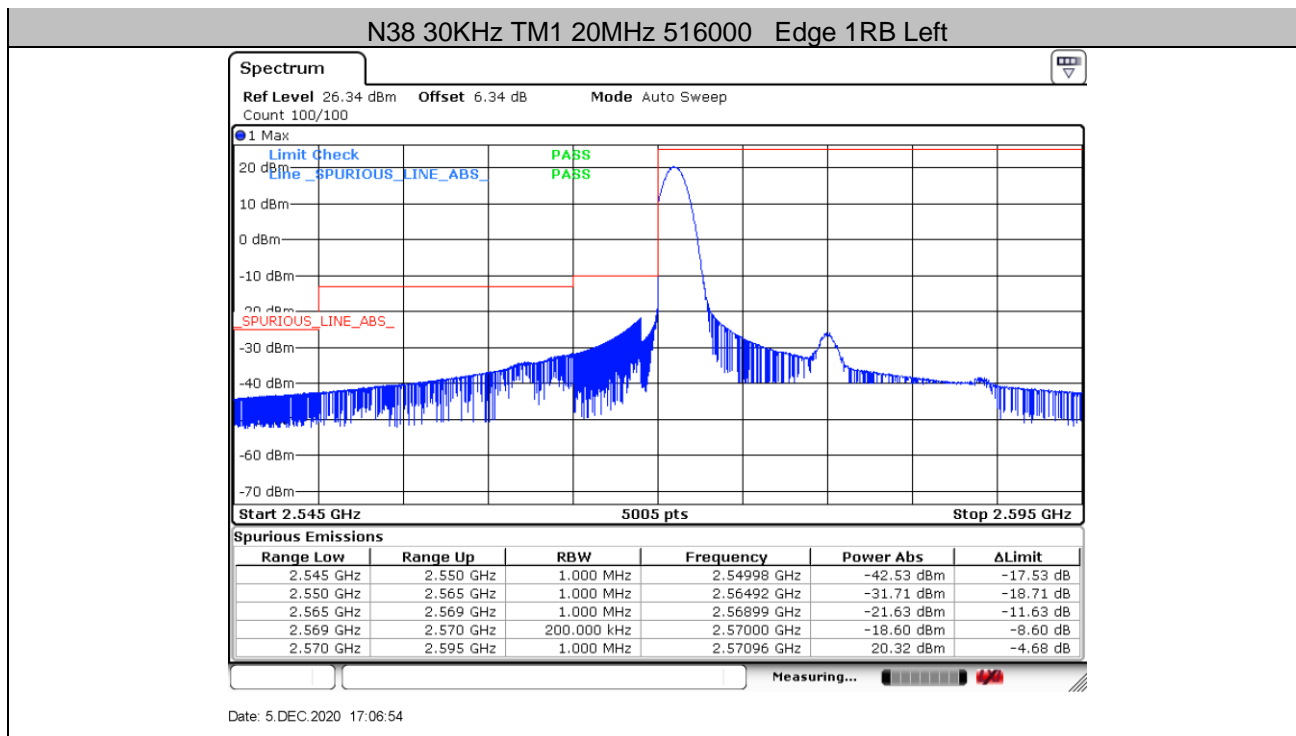
**REMARK:**

All antenna and all modulation had been tested, but only the worst case data displayed in this report



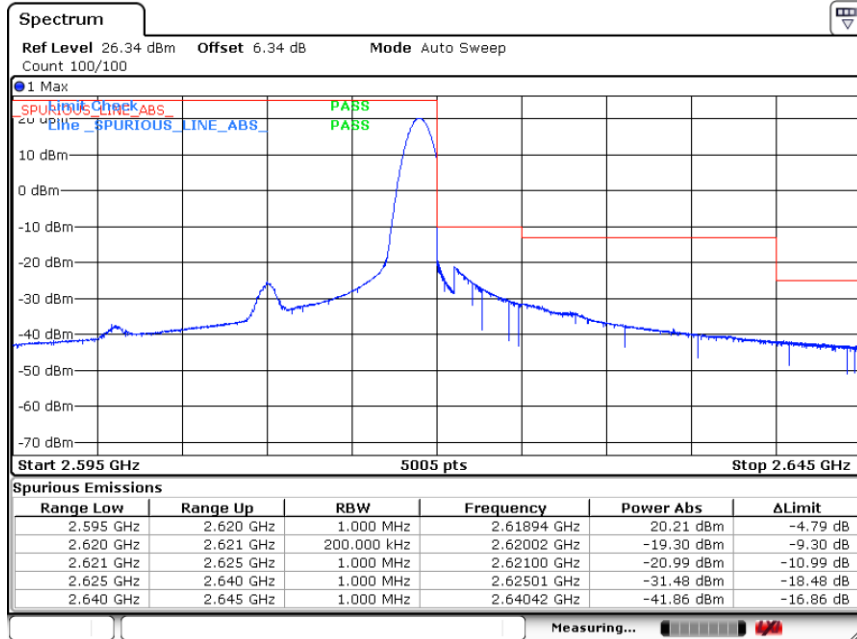
## 5 Band Edges Compliance

### 5.1 Test Plots



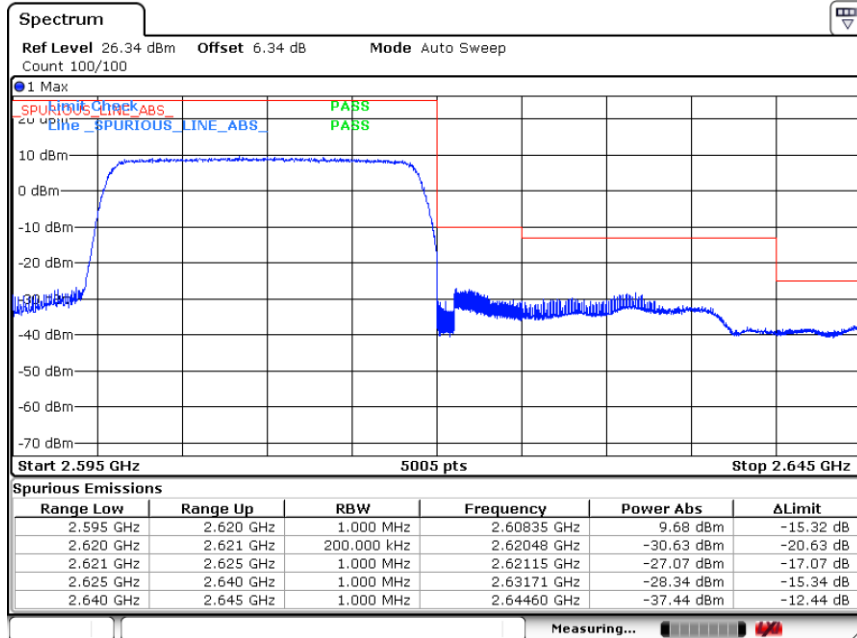


N38 30KHz TM1 20MHz 522000 Edge 1RB Right



Date: 5.DEC.2020 16:49:53

N38 30KHz TM1 20MHz 522000 Outer Full

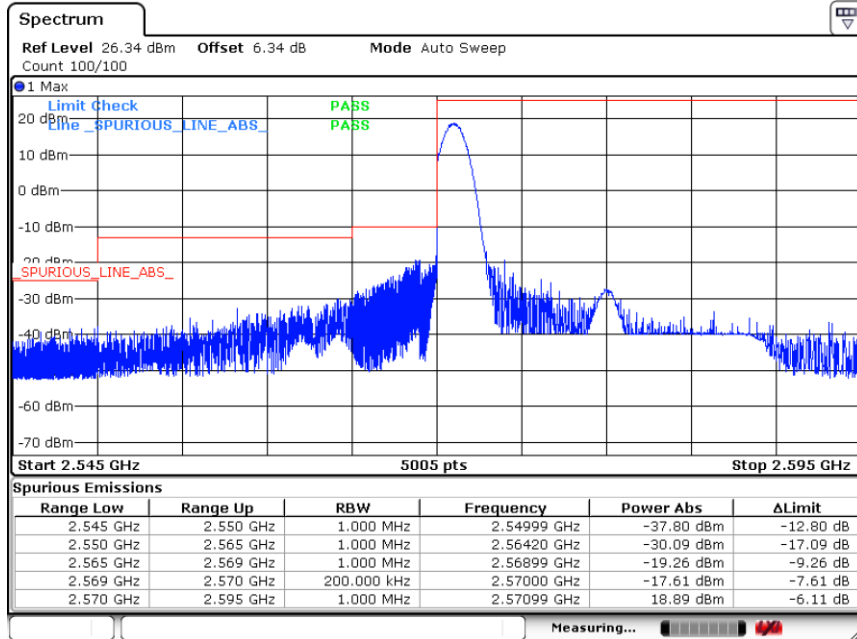


Date: 5.DEC.2020 16:47:21



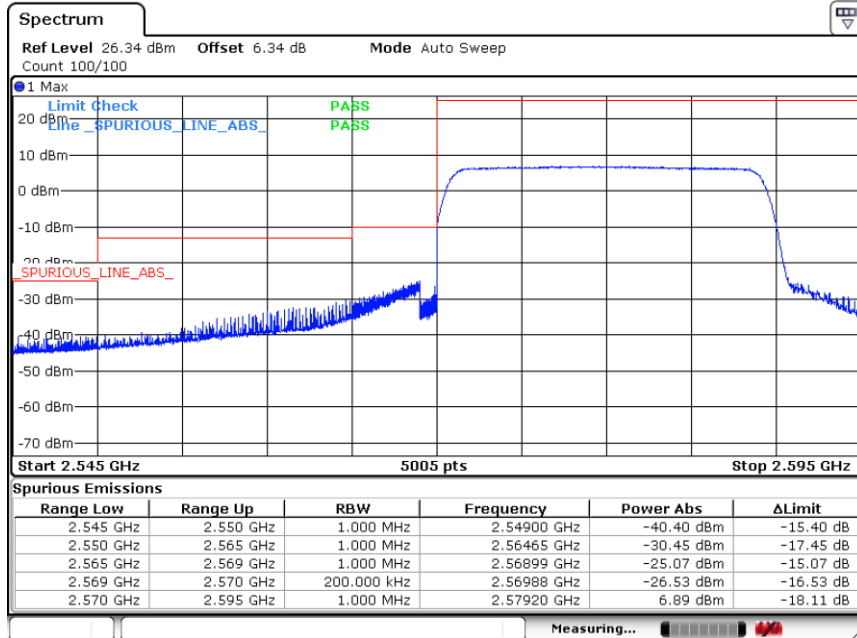
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N38 30KHz TM5 20MHz 516000 Edge 1RB Left



Date: 5.DEC.2020 17:03:53

N38 30KHz TM5 20MHz 516000 Outer Full

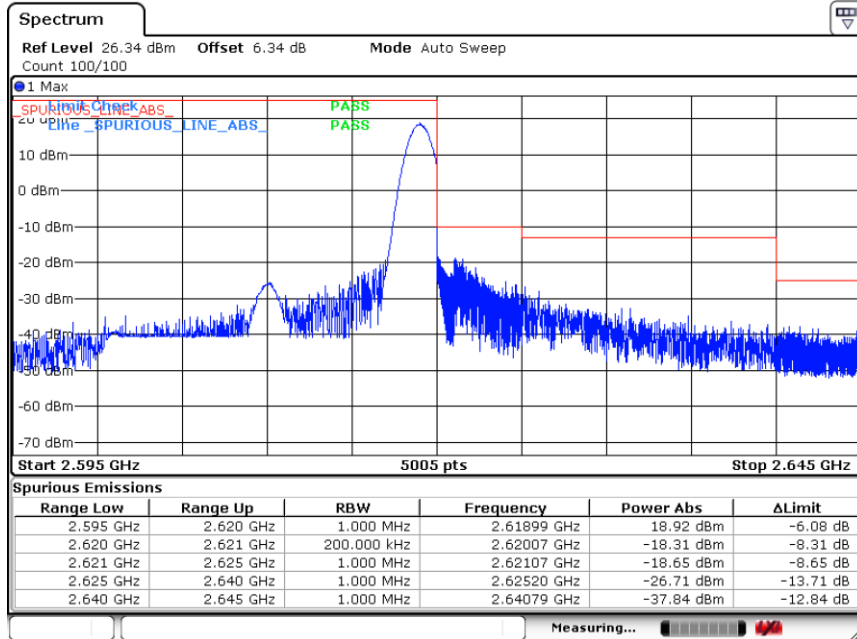


Date: 5.DEC.2020 17:02:20



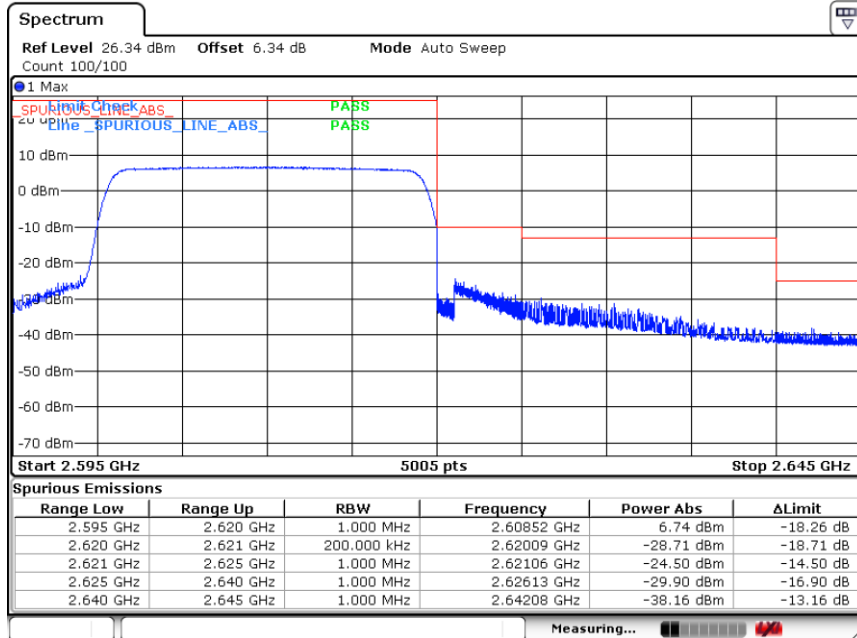
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N38 30KHz TM5 20MHz 522000 Edge 1RB Right



Date: 5.DEC.2020 16:58:05

N38 30KHz TM5 20MHz 522000 Outer Full



Date: 5.DEC.2020 16:56:18

**REMARK:**

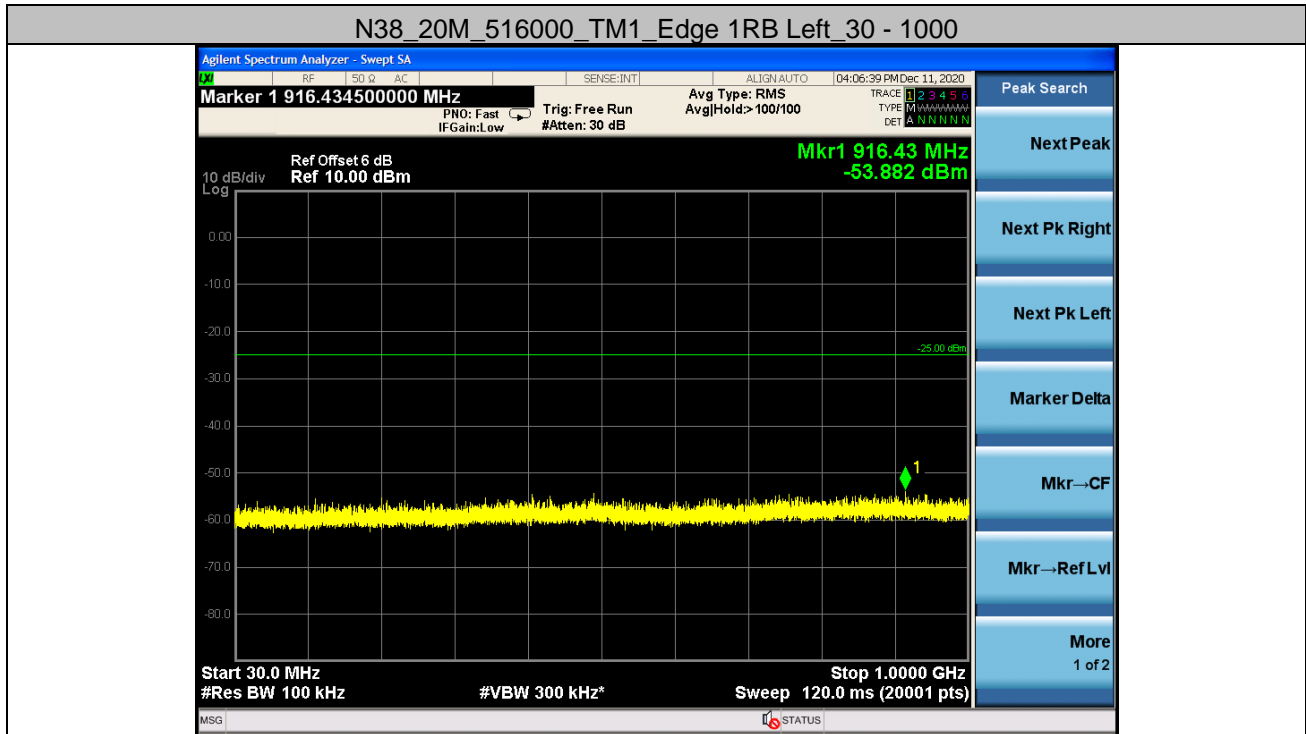
All antenna and all modulation had been tested, but only the worst case data displayed in this report



## 6 Spurious Emission at Antenna Terminal

REMARK: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrow Band signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

### 6.1 Test Plots

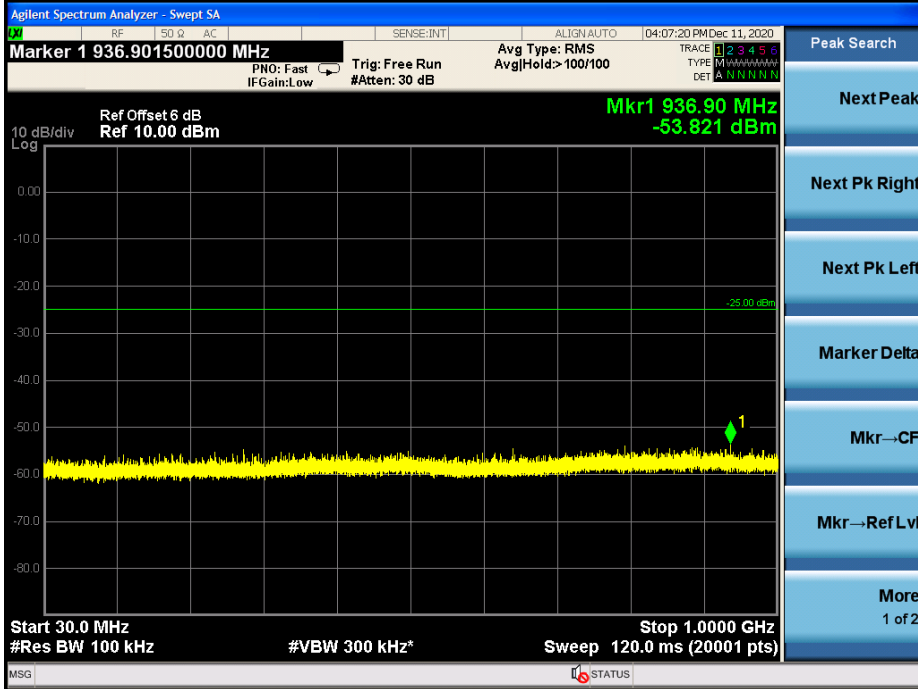




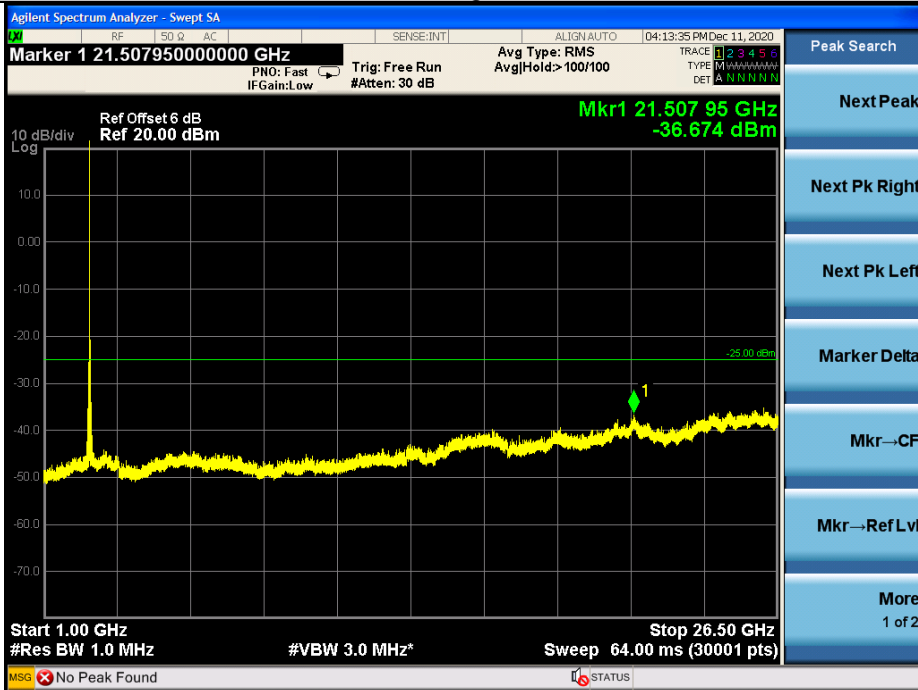
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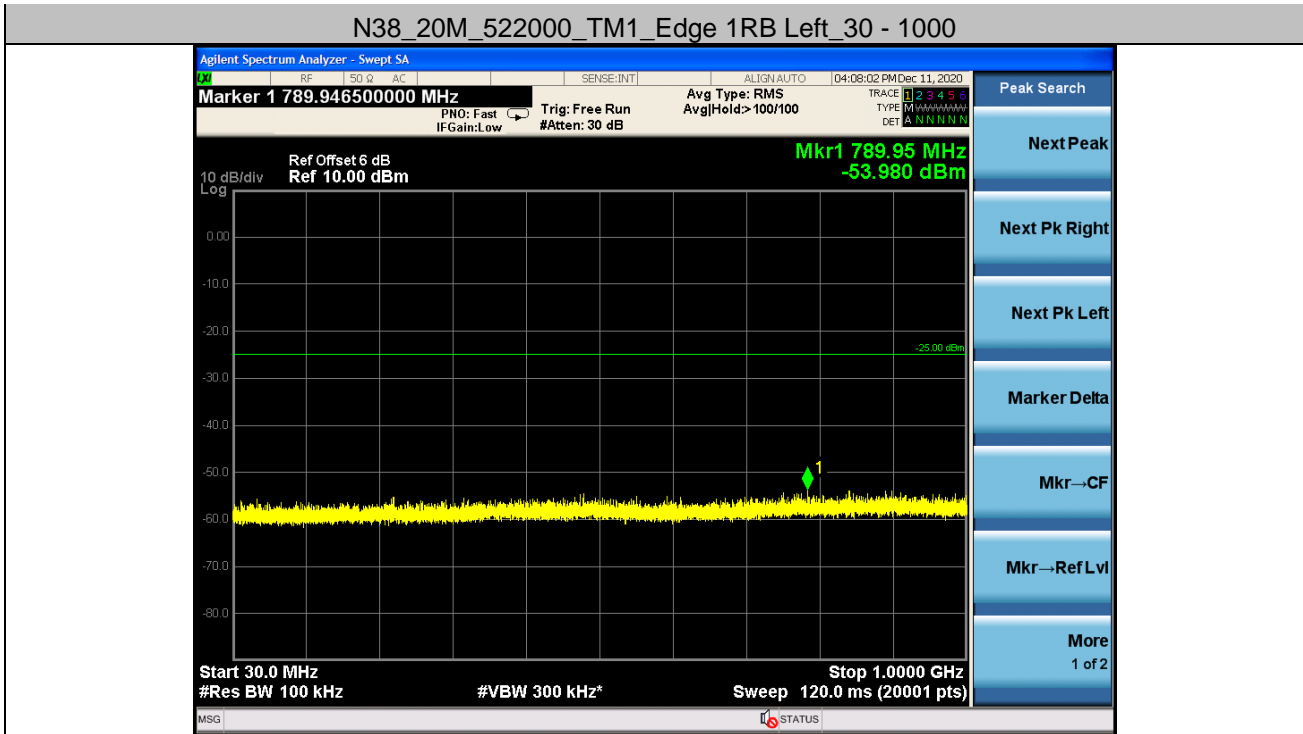
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N38\_20M\_519000\_TM1\_Edge 1RB Left\_30 - 1000



N38\_20M\_519000\_TM1\_Edge 1RB Left\_1000 - 265000





**REMARK:**

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## 7 Field Strength of Spurious Radiation

### 7.1 Test Band = N38(ant4)

#### 7.1.1 20MHz \_ TM1

##### 7.1.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 38.2454         | -67.44      | -25.00           | 42.44       | Vertical     |
| 100.9105        | -54.62      | -25.00           | 29.62       | Vertical     |
| 156.1063        | -73.53      | -25.00           | 48.53       | Vertical     |
| 1380.3190       | -55.01      | -25.00           | 30.01       | Vertical     |
| 7713.2357       | -47.13      | -25.00           | 22.13       | Vertical     |
| 17752.4876      | -40.89      | -25.00           | 15.89       | Vertical     |
| 33.7347         | -68.77      | -25.00           | 43.77       | Horizontal   |
| 102.0746        | -69.94      | -25.00           | 44.94       | Horizontal   |
| 204.8027        | -73.41      | -25.00           | 48.41       | Horizontal   |
| 1800.4400       | -44.64      | -25.00           | 19.64       | Horizontal   |
| 6268.6634       | -53.86      | -25.00           | 28.86       | Horizontal   |
| 17204.9602      | -40.65      | -25.00           | 15.65       | Horizontal   |

##### 7.1.1.2 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 96.2543         | -46.87      | -25.00           | 21.87       | Vertical     |
| 515.3638        | -77.74      | -25.00           | 52.74       | Vertical     |
| 1393.9197       | -60.01      | -25.00           | 35.01       | Vertical     |
| 5703.8852       | -51.95      | -25.00           | 26.95       | Vertical     |
| 9819.3410       | -45.00      | -25.00           | 20.00       | Vertical     |
| 17861.9931      | -39.15      | -25.00           | 14.15       | Vertical     |
| 39.8945         | -69.93      | -25.00           | 44.93       | Horizontal   |
| 96.6908         | -66.52      | -25.00           | 41.52       | Horizontal   |
| 521.9601        | -77.31      | -25.00           | 52.31       | Horizontal   |
| 1799.1400       | -50.02      | -25.00           | 25.02       | Horizontal   |
| 6707.4354       | -51.98      | -25.00           | 26.98       | Horizontal   |
| 17399.9700      | -38.42      | -25.00           | 13.42       | Horizontal   |



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**7.1.1.3 Test Channel = HCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 38.1969         | -67.62      | -25.00           | 42.62       | Vertical     |
| 101.0561        | -53.46      | -25.00           | 28.46       | Vertical     |
| 513.3752        | -78.25      | -25.00           | 53.25       | Vertical     |
| 1753.0377       | -53.72      | -25.00           | 28.72       | Vertical     |
| 5201.3601       | -49.78      | -25.00           | 24.78       | Vertical     |
| 17861.2431      | -39.86      | -25.00           | 14.86       | Vertical     |
| 38.5364         | -69.85      | -25.00           | 44.85       | Horizontal   |
| 101.9776        | -68.52      | -25.00           | 43.52       | Horizontal   |
| 204.8027        | -74.30      | -25.00           | 49.30       | Horizontal   |
| 1764.0382       | -41.68      | -25.00           | 16.68       | Horizontal   |
| 5739.8870       | -53.26      | -25.00           | 28.26       | Horizontal   |
| 17388.7194      | -39.22      | -25.00           | 14.22       | Horizontal   |

**7.2 Test Band = N38(ant3)**

**7.2.1 20MHz \_TM1**

**7.2.1.1 Test Channel = LCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 38.3424         | -67.04      | -25.00           | 42.04       | Vertical     |
| 100.9105        | -53.41      | -25.00           | 28.41       | Vertical     |
| 155.5728        | -72.53      | -25.00           | 47.53       | Vertical     |
| 1416.5208       | -55.02      | -25.00           | 30.02       | Vertical     |
| 5678.3839       | -51.76      | -25.00           | 26.76       | Vertical     |
| 17856.7428      | -38.89      | -25.00           | 13.89       | Vertical     |
| 38.5364         | -68.16      | -25.00           | 43.16       | Horizontal   |
| 87.4269         | -69.39      | -25.00           | 44.39       | Horizontal   |
| 1801.1401       | -44.59      | -25.00           | 19.59       | Horizontal   |
| 5795.3898       | -53.02      | -25.00           | 28.02       | Horizontal   |
| 9742.0871       | -45.89      | -25.00           | 20.89       | Horizontal   |
| 17395.4698      | -38.01      | -25.00           | 13.01       | Horizontal   |



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**7.2.1.2 Test Channel = MCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 38.8759         | -68.14      | -25.00           | 43.14       | Vertical     |
| 96.6423         | -48.95      | -25.00           | 23.95       | Vertical     |
| 617.6069        | -76.98      | -25.00           | 51.98       | Vertical     |
| 1439.9220       | -59.32      | -25.00           | 34.32       | Vertical     |
| 7185.2093       | -50.41      | -25.00           | 25.41       | Vertical     |
| 17774.2387      | -39.00      | -25.00           | 14.00       | Vertical     |
| 34.0257         | -69.74      | -25.00           | 44.74       | Horizontal   |
| 96.0118         | -66.33      | -25.00           | 41.33       | Horizontal   |
| 518.5649        | -77.51      | -25.00           | 52.51       | Horizontal   |
| 1798.8399       | -50.17      | -25.00           | 25.17       | Horizontal   |
| 6516.1758       | -52.50      | -25.00           | 27.50       | Horizontal   |
| 17385.7193      | -38.67      | -25.00           | 13.67       | Horizontal   |

**7.2.1.3 Test Channel = HCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 38.9729         | -68.19      | -25.00           | 43.19       | Vertical     |
| 100.4255        | -53.04      | -25.00           | 28.04       | Vertical     |
| 522.6391        | -78.81      | -25.00           | 53.81       | Vertical     |
| 1627.3314       | -54.41      | -25.00           | 29.41       | Vertical     |
| 5202.1101       | -50.46      | -25.00           | 25.46       | Vertical     |
| 17863.4932      | -39.79      | -25.00           | 14.79       | Vertical     |
| 38.4394         | -69.32      | -25.00           | 44.32       | Horizontal   |
| 101.8321        | -68.85      | -25.00           | 43.85       | Horizontal   |
| 205.0938        | -74.65      | -25.00           | 49.65       | Horizontal   |
| 1798.5399       | -44.58      | -25.00           | 19.58       | Horizontal   |
| 7071.9536       | -51.17      | -25.00           | 26.17       | Horizontal   |
| 17392.4696      | -39.63      | -25.00           | 14.63       | Horizontal   |

**Remark:**

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 All modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.
- 4 The disturbance above26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.



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## 8 Frequency Stability

### 8.1 Frequency Error VS. Voltage

| NR Band | SCS   | Bandwidth | Modulation | Channel | RB Config  | Voltage [Vdc] | Temperature(°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---------|-------|-----------|------------|---------|------------|---------------|-----------------|----------------|-----------------|-------------|---------|
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VL            | NT              | -12.53         | -0.00486        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VN            | NT              | -11.23         | -0.00435        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VH            | NT              | 11.30          | 0.00438         | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 519000  | Outer Full | VL            | NT              | -17.54         | -0.00676        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 519000  | Outer Full | VN            | NT              | -9.49          | -0.00366        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 519000  | Outer Full | VH            | NT              | -11.56         | -0.00445        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 522000  | Outer Full | VL            | NT              | -19.10         | -0.00732        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 522000  | Outer Full | VN            | NT              | 9.64           | 0.00369         | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 522000  | Outer Full | VH            | NT              | 11.68          | 0.00448         | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM5        | 516000  | Outer Full | VL            | NT              | -8.53          | -0.00331        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM5        | 516000  | Outer Full | VN            | NT              | -15.56         | -0.00603        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM5        | 516000  | Outer Full | VH            | NT              | -12.84         | -0.00498        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM5        | 519000  | Outer Full | VL            | NT              | -10.68         | -0.00412        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM5        | 519000  | Outer Full | VN            | NT              | 9.69           | 0.00373         | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM5        | 519000  | Outer Full | VH            | NT              | -17.65         | -0.00680        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM5        | 522000  | Outer Full | VL            | NT              | 11.41          | 0.00437         | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM5        | 522000  | Outer Full | VN            | NT              | -10.33         | -0.00396        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM5        | 522000  | Outer Full | VH            | NT              | 9.08           | 0.00348         | ±2.5        | PASS    |

### 8.2 Frequency Error VS. Temperature

| NR Band | SCS   | Bandwidth | Modulation | Channel | RB Config  | Voltage [Vdc] | Temperature(°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---------|-------|-----------|------------|---------|------------|---------------|-----------------|----------------|-----------------|-------------|---------|
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VN            | -30             | -8.44          | -0.00327        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VN            | -20             | 15.64          | 0.00606         | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VN            | -10             | 20.53          | 0.00796         | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VN            | 0               | -11.34         | -0.00440        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VN            | 10              | 7.83           | 0.00303         | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VN            | 20              | 12.47          | 0.00483         | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VN            | 30              | -16.45         | -0.00638        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VN            | 40              | -14.08         | -0.00546        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 516000  | Outer Full | VN            | 50              | 11.76          | 0.00456         | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 519000  | Outer Full | VN            | -30             | 13.65          | 0.00526         | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 519000  | Outer Full | VN            | -20             | -11.90         | -0.00459        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 519000  | Outer Full | VN            | -10             | -18.45         | -0.00711        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 519000  | Outer Full | VN            | 0               | -12.67         | -0.00488        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 519000  | Outer Full | VN            | 10              | -22.41         | -0.00864        | ±2.5        | PASS    |
| N38     | 30KHz | 20MHz     | TM1        | 519000  | Outer Full | VN            | 20              | -12.44         | -0.00479        | ±2.5        | PASS    |



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|     |       |       |     |        |            |    |     |        |          |      |      |
|-----|-------|-------|-----|--------|------------|----|-----|--------|----------|------|------|
| N38 | 30KHz | 20MHz | TM1 | 519000 | Outer Full | VN | 30  | -10.24 | -0.00395 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM1 | 519000 | Outer Full | VN | 40  | -13.66 | -0.00526 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM1 | 519000 | Outer Full | VN | 50  | 15.56  | 0.00600  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM1 | 522000 | Outer Full | VN | -30 | 13.63  | 0.00522  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM1 | 522000 | Outer Full | VN | -20 | -15.09 | -0.00578 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM1 | 522000 | Outer Full | VN | -10 | -8.52  | -0.00326 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM1 | 522000 | Outer Full | VN | 0   | 9.36   | 0.00359  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM1 | 522000 | Outer Full | VN | 10  | -13.21 | -0.00506 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM1 | 522000 | Outer Full | VN | 20  | 13.86  | 0.00531  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM1 | 522000 | Outer Full | VN | 30  | -11.44 | -0.00438 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM1 | 522000 | Outer Full | VN | 40  | -17.37 | -0.00666 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM1 | 522000 | Outer Full | VN | 50  | 12.08  | 0.00463  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 516000 | Outer Full | VN | -30 | -10.53 | -0.00408 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 516000 | Outer Full | VN | -20 | -11.61 | -0.00450 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 516000 | Outer Full | VN | -10 | 20.65  | 0.00800  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 516000 | Outer Full | VN | 0   | -9.61  | -0.00372 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 516000 | Outer Full | VN | 10  | 11.58  | 0.00449  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 516000 | Outer Full | VN | 20  | -12.52 | -0.00485 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 516000 | Outer Full | VN | 30  | -14.35 | -0.00556 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 516000 | Outer Full | VN | 40  | -12.38 | -0.00480 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 516000 | Outer Full | VN | 50  | -11.54 | -0.00447 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 519000 | Outer Full | VN | -30 | -9.56  | -0.00368 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 519000 | Outer Full | VN | -20 | -18.65 | -0.00719 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 519000 | Outer Full | VN | -10 | -10.23 | -0.00394 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 519000 | Outer Full | VN | 0   | -14.68 | -0.00566 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 519000 | Outer Full | VN | 10  | 10.28  | 0.00396  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 519000 | Outer Full | VN | 20  | -11.46 | -0.00442 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 519000 | Outer Full | VN | 30  | -13.66 | -0.00526 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 519000 | Outer Full | VN | 40  | -8.20  | -0.00316 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 519000 | Outer Full | VN | 50  | -19.63 | -0.00756 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 522000 | Outer Full | VN | -30 | -13.86 | -0.00531 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 522000 | Outer Full | VN | -20 | 17.30  | 0.00663  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 522000 | Outer Full | VN | -10 | 18.46  | 0.00707  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 522000 | Outer Full | VN | 0   | -13.09 | -0.00502 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 522000 | Outer Full | VN | 10  | 18.07  | 0.00692  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 522000 | Outer Full | VN | 20  | -19.54 | -0.00749 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 522000 | Outer Full | VN | 30  | 12.12  | 0.00464  | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 522000 | Outer Full | VN | 40  | -14.08 | -0.00539 | ±2.5 | PASS |
| N38 | 30KHz | 20MHz | TM5 | 522000 | Outer Full | VN | 50  | -11.44 | -0.00438 | ±2.5 | PASS |

**REMARK:**

All antenna and all modulation had been tested, but only the worst case data displayed in this report

**The End**



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