

Test Band = NR UL CA n25A-n38A\_ TM1

Test Channel = Low Channel

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3702.18         | 48.59          | -111.07     | -62.48      | -25.00      | 37.48       | 174         | 85        | Horizontal |
| 2               | 5144.18         | 51.02          | -106.89     | -55.87      | -25.00      | 30.87       | 142         | 67        | Horizontal |
| 3               | 5553.27         | 50.00          | -106.36     | -56.36      | -25.00      | 31.36       | 165         | 60        | Horizontal |
| 4               | 7404.36         | 48.78          | -100.77     | -51.99      | -25.00      | 26.99       | 241         | 0         | Horizontal |
| 5               | 7716.27         | 49.53          | -99.54      | -50.01      | -25.00      | 25.01       | 263         | 277       | Horizontal |
| 6               | 10288.36        | 44.58          | -93.24      | -48.66      | -25.00      | 23.66       | 251         | 24        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3702.18         | 49.45          | -111.07     | -61.62      | -25.00      | 36.62       | 142         | 339       | Vertical |
| 2               | 5144.18         | 50.28          | -106.89     | -56.61      | -25.00      | 31.61       | 263         | 1         | Vertical |
| 3               | 5553.27         | 50.58          | -106.36     | -55.78      | -25.00      | 30.78       | 284         | 36        | Vertical |
| 4               | 7404.36         | 48.49          | -100.77     | -52.28      | -25.00      | 27.28       | 176         | 202       | Vertical |
| 5               | 7716.27         | 49.05          | -99.54      | -50.49      | -25.00      | 25.49       | 241         | 82        | Vertical |
| 6               | 10288.36        | 44.48          | -93.24      | -48.76      | -25.00      | 23.76       | 263         | 219       | Vertical |



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 Wireless Laboratory

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Test Band = NR UL CA n25A-n38A\_ TM1

Test Channel = Mid Channel

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 742.18          | 42.14          | -94.72      | -52.58      | -25.00      | 27.58       | 142         | 284       | Horizontal |
| 2               | 5154.18         | 50.19          | -106.87     | -56.68      | -25.00      | 31.68       | 174         | 52        | Horizontal |
| 3               | 5613.27         | 49.95          | -106.14     | -56.19      | -25.00      | 31.19       | 263         | 0         | Horizontal |
| 4               | 7484.36         | 49.05          | -100.43     | -51.38      | -25.00      | 26.38       | 251         | 140       | Horizontal |
| 5               | 7731.27         | 48.86          | -99.40      | -50.54      | -25.00      | 25.54       | 265         | 290       | Horizontal |
| 6               | 10308.36        | 44.18          | -93.22      | -49.04      | -25.00      | 24.04       | 241         | 70        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 742.18          | 41.72          | -94.72      | -53.00      | -25.00      | 28.00       | 142         | 49        | Vertical |
| 2               | 5154.18         | 49.74          | -106.87     | -57.13      | -25.00      | 32.13       | 263         | 281       | Vertical |
| 3               | 5613.27         | 50.83          | -106.14     | -55.31      | -25.00      | 30.31       | 284         | 148       | Vertical |
| 4               | 7484.36         | 47.89          | -100.43     | -52.54      | -25.00      | 27.54       | 176         | 121       | Vertical |
| 5               | 7731.27         | 49.95          | -99.40      | -49.45      | -25.00      | 24.45       | 254         | 237       | Vertical |
| 6               | 10308.36        | 43.78          | -93.22      | -49.44      | -25.00      | 24.44       | 122         | 159       | Vertical |



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Test Band = NR UL CA n25A-n38A\_ TM1

Test Channel = High Channel

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3792.18         | 49.82          | -110.61     | -60.79      | -25.00      | 35.79       | 174         | 331       | Horizontal |
| 2               | 5164.18         | 49.81          | -106.86     | -57.05      | -25.00      | 32.05       | 142         | 146       | Horizontal |
| 3               | 5688.27         | 49.72          | -105.81     | -56.09      | -25.00      | 31.09       | 163         | 105       | Horizontal |
| 4               | 7584.36         | 48.47          | -99.90      | -51.43      | -25.00      | 26.43       | 241         | 69        | Horizontal |
| 5               | 7746.27         | 49.82          | -99.27      | -49.45      | -25.00      | 24.45       | 263         | 306       | Horizontal |
| 6               | 10328.36        | 43.27          | -93.13      | -49.86      | -25.00      | 24.86       | 254         | 340       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3792.18         | 49.69          | -110.61     | -60.92      | -25.00      | 35.92       | 142         | 0         | Vertical |
| 2               | 5164.18         | 50.12          | -106.86     | -56.74      | -25.00      | 31.74       | 263         | 17        | Vertical |
| 3               | 5688.27         | 51.17          | -105.81     | -54.64      | -25.00      | 29.64       | 284         | 306       | Vertical |
| 4               | 7584.36         | 49.21          | -99.90      | -50.69      | -25.00      | 25.69       | 176         | 173       | Vertical |
| 5               | 7746.27         | 49.48          | -99.27      | -49.79      | -25.00      | 24.79       | 241         | 269       | Vertical |
| 6               | 10328.36        | 43.89          | -93.13      | -49.24      | -25.00      | 24.24       | 152         | 96        | Vertical |



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**Test on the worst case for SEWM2304000122RG02:**

**Test Band = DC\_5A-n38A\_ TM1**

**Test Channel = Low 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               | 5144.18         | 49.60          | -44.23      | 32.60    | -57.29      | -25.00      | 32.29       | 163         | 341       | Horizontal |
| 2               | 7716.27         | 49.80          | -41.21      | 36.93    | -49.74      | -25.00      | 24.74       | 254         | 176       | Horizontal |
| 3               | 10288.36        | 44.62          | -36.80      | 38.82    | -48.62      | -25.00      | 23.62       | 175         | 150       | Horizontal |
| 4               | 12860.45        | 42.86          | -34.95      | 39.46    | -47.89      | -25.00      | 22.89       | 263         | 105       | Horizontal |
| 5               | 15432.54        | 41.88          | -33.97      | 38.64    | -48.71      | -25.00      | 23.71       | 284         | 253       | Horizontal |
| 6               | 17695.7143      | 46.34          | -31.01      | 41.38    | -38.54      | -25.00      | 13.54       | 176         | 87        | 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               | 5144.18         | 50.35          | -44.23      | 32.60    | -56.54      | -25.00      | 31.54       | 142         | 96        | Vertical |
| 2               | 7716.27         | 49.42          | -41.21      | 36.93    | -50.12      | -25.00      | 25.12       | 263         | 350       | Vertical |
| 3               | 10288.36        | 44.55          | -36.80      | 38.82    | -48.69      | -25.00      | 23.69       | 251         | 357       | Vertical |
| 4               | 12860.45        | 44.17          | -34.95      | 39.46    | -46.58      | -25.00      | 21.58       | 175         | 211       | Vertical |
| 5               | 15432.54        | 41.17          | -33.97      | 38.64    | -49.42      | -25.00      | 24.42       | 284         | 226       | Vertical |
| 6               | 17877.8571      | 42.30          | -31.00      | 42.11    | -41.85      | -25.00      | 16.85       | 199         | 357       | Vertical |



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Test Band = DC\_5A-n38A\_TM1

Test Channel = Mid 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               | 5154.18         | 50.43          | -44.21      | 32.60    | -56.44      | -25.00      | 31.44       | 145         | 6         | Horizontal |
| 2               | 7731.27         | 49.06          | -41.11      | 36.96    | -50.34      | -25.00      | 25.34       | 163         | 1         | Horizontal |
| 3               | 10308.36        | 43.48          | -36.80      | 38.84    | -49.74      | -25.00      | 24.74       | 254         | 12        | Horizontal |
| 4               | 12885.45        | 43.09          | -34.89      | 39.49    | -47.57      | -25.00      | 22.57       | 178         | 357       | Horizontal |
| 5               | 15462.54        | 42.45          | -34.06      | 38.60    | -48.27      | -25.00      | 23.27       | 264         | 331       | Horizontal |
| 6               | 17695.7143      | 46.47          | -31.01      | 41.38    | -38.41      | -25.00      | 13.41       | 142         | 62        | 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               | 5154.18         | 50.18          | -44.21      | 32.60    | -56.69      | -25.00      | 31.69       | 142         | 321       | Vertical |
| 2               | 7731.27         | 49.05          | -41.11      | 36.96    | -50.35      | -25.00      | 25.35       | 263         | 198       | Vertical |
| 3               | 10308.36        | 43.74          | -36.80      | 38.84    | -49.48      | -25.00      | 24.48       | 285         | 296       | Vertical |
| 4               | 12885.45        | 43.84          | -34.89      | 39.49    | -46.82      | -25.00      | 21.82       | 241         | 102       | Vertical |
| 5               | 15462.54        | 42.35          | -34.06      | 38.60    | -48.37      | -25.00      | 23.37       | 175         | 312       | Vertical |
| 6               | 17914.2857      | 42.48          | -31.11      | 42.26    | -41.64      | -25.00      | 16.64       | 266         | 1         | Vertical |



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Test Band = DC\_5A-n38A\_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               | 5164.18         | 49.75          | -44.20      | 32.60    | -57.11      | -25.00      | 32.11       | 142         | 244       | Horizontal |
| 2               | 7746.27         | 49.04          | -41.00      | 36.99    | -50.23      | -25.00      | 25.23       | 263         | 0         | Horizontal |
| 3               | 10328.36        | 44.26          | -36.73      | 38.86    | -48.87      | -25.00      | 23.87       | 284         | 192       | Horizontal |
| 4               | 12910.45        | 43.39          | -34.87      | 39.51    | -47.23      | -25.00      | 22.23       | 176         | 166       | Horizontal |
| 5               | 15492.54        | 41.32          | -34.15      | 38.56    | -49.53      | -25.00      | 24.53       | 251         | 123       | Horizontal |
| 6               | 17695.7143      | 46.48          | -31.01      | 41.38    | -38.40      | -25.00      | 13.40       | 144         | 228       | 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               | 5164.18         | 49.11          | -44.20      | 32.60    | -57.75      | -25.00      | 32.75       | 263         | 357       | Vertical |
| 2               | 7746.27         | 48.77          | -41.00      | 36.99    | -50.50      | -25.00      | 25.50       | 251         | 122       | Vertical |
| 3               | 10328.36        | 42.85          | -36.73      | 38.86    | -50.28      | -25.00      | 25.28       | 263         | 59        | Vertical |
| 4               | 12910.45        | 43.17          | -34.87      | 39.51    | -47.45      | -25.00      | 22.45       | 255         | 193       | Vertical |
| 5               | 15492.54        | 41.44          | -34.15      | 38.56    | -49.41      | -25.00      | 24.41       | 144         | 148       | Vertical |
| 6               | 17850           | 42.30          | -30.93      | 42.00    | -41.90      | -25.00      | 16.90       | 255         | 17        | 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 for SA

### Test Result

### Frequency Error VS. Voltage

| Voltage |     |           |             |         |            |         |             |               |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N38     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | -2.000000     | -0.000771       | PASS    |
| N38     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | -0.400000     | -0.000154       | PASS    |
| N38     | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | 3.100000      | 0.001195        | PASS    |
| N38     | 30  | 40        | CP-QPSK     | M       | Outer_Full | VH      | NT          | 1.600000      | 0.000617        | PASS    |
| N38     | 30  | 40        | CP-QPSK     | M       | Outer_Full | VN      | NT          | -0.400000     | -0.000154       | PASS    |
| N38     | 30  | 40        | CP-QPSK     | M       | Outer_Full | VL      | NT          | 1.100000      | 0.000424        | PASS    |



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Frequency Error VS. Temperature

| Temperature |     |           |             |         |            |         |             |               |                 |         |
|-------------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band        | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N38         | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | -2.500000     | -0.000963       | PASS    |
| N38         | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | 8.200000      | 0.003160        | PASS    |
| N38         | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | -0.600000     | -0.000231       | PASS    |
| N38         | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | -2.600000     | -0.001002       | PASS    |
| N38         | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | 1.200000      | 0.000462        | PASS    |
| N38         | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | 1.800000      | 0.000694        | PASS    |
| N38         | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | 7.800000      | 0.003006        | PASS    |
| N38         | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | -0.500000     | -0.000193       | PASS    |
| N38         | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | 2.500000      | 0.000963        | PASS    |
| N38         | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | -30         | -1.600000     | -0.000617       | PASS    |
| N38         | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | -20         | 0.500000      | 0.000193        | PASS    |
| N38         | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | -10         | -0.500000     | -0.000193       | PASS    |
| N38         | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 0           | 6.900000      | 0.002659        | PASS    |
| N38         | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 10          | 6.300000      | 0.002428        | PASS    |
| N38         | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 20          | 5.600000      | 0.002158        | PASS    |
| N38         | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 30          | -1.400000     | -0.000539       | PASS    |
| N38         | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 40          | -1.100000     | -0.000424       | PASS    |
| N38         | 30  | 40        | CP-QPSK     | M       | Outer_Full | NV      | 50          | -2.300000     | -0.000886       | PASS    |

---End of Attachment---



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