

Report No.: SEWA2309000114RG10

Rev.: 01

Page: 257 of 268

**Test Band = NR UL CA 71A-n77A 3700M-3980M\_ TM1**
**Test Channel = Low Channel**

| Final Data List |                    |                   |                |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1328.18            | 40.26             | -95.91         | -55.65         | -13.00         | 42.65          | 251            | 79           | Horizontal |
| 2               | 1992.27            | 40.18             | -93.45         | -53.27         | -13.00         | 40.27          | 174            | 250          | Horizontal |
| 3               | 2656.36            | 38.13             | -90.77         | -52.64         | -13.00         | 39.64          | 155            | 71           | Horizontal |
| 4               | 7310.18            | 48.94             | -100.63        | -51.69         | -13.00         | 38.69          | 142            | 184          | Horizontal |
| 5               | 10965.27           | 42.26             | -91.32         | -49.06         | -13.00         | 36.06          | 256            | 134          | Horizontal |
| 6               | 14620.36           | 41.11             | -89.81         | -48.70         | -13.00         | 35.70          | 263            | 63           | Horizontal |

| Final Data List |                    |                   |                |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1328.18            | 39.50             | -95.91         | -56.41         | -13.00         | 43.41          | 152            | 94           | Vertical |
| 2               | 1992.27            | 38.60             | -93.45         | -54.85         | -13.00         | 41.85          | 263            | 60           | Vertical |
| 3               | 2656.36            | 38.56             | -90.77         | -52.21         | -13.00         | 39.21          | 241            | 28           | Vertical |
| 4               | 7310.18            | 48.28             | -100.63        | -52.35         | -13.00         | 39.35          | 175            | 54           | Vertical |
| 5               | 10965.27           | 42.01             | -91.32         | -49.31         | -13.00         | 36.31          | 265            | 246          | Vertical |
| 6               | 14620.36           | 41.65             | -89.81         | -48.16         | -13.00         | 35.16          | 241            | 277          | Vertical |



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

Report No.: SEWA2309000114RG10

Rev.: 01

Page: 258 of 268

**Test Band = NR UL CA 71A-n77A 3700M-3980M\_ 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               | 1343.18         | 39.58          | -95.86      | -56.28      | -13.00      | 43.28       | 142         | 360       | Horizontal |
| 2               | 2014.77         | 39.14          | -93.34      | -54.20      | -13.00      | 41.20       | 263         | 359       | Horizontal |
| 3               | 2686.36         | 37.92          | -90.61      | -52.69      | -13.00      | 39.69       | 251         | 54        | Horizontal |
| 4               | 7590.18         | 49.11          | -99.85      | -50.74      | -13.00      | 37.74       | 144         | 107       | Horizontal |
| 5               | 11835.27        | 43.12          | -91.75      | -48.63      | -13.00      | 35.63       | 254         | 32        | Horizontal |
| 6               | 15180.36        | 42.79          | -89.91      | -47.12      | -13.00      | 34.12       | 184         | 32        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1343.18         | 40.06          | -95.86      | -55.80      | -13.00      | 42.80       | 142         | 186       | Vertical |
| 2               | 2014.77         | 38.79          | -93.34      | -54.55      | -13.00      | 41.55       | 263         | 54        | Vertical |
| 3               | 2686.36         | 38.01          | -90.61      | -52.60      | -13.00      | 39.60       | 284         | 360       | Vertical |
| 4               | 7590.18         | 49.25          | -99.85      | -50.60      | -13.00      | 37.60       | 175         | 4         | Vertical |
| 5               | 11835.27        | 43.43          | -91.75      | -48.32      | -13.00      | 35.32       | 265         | 35        | Vertical |
| 6               | 15180.36        | 43.17          | -89.91      | -46.74      | -13.00      | 33.74       | 241         | 155       | Vertical |



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

Report No.: SEWA2309000114RG10

Rev.: 01

Page: 259 of 268

**Test Band = NR UL CA 71A-n77A 3700M-3980M\_ 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               | 1358.18         | 39.84          | -95.81      | -55.97      | -13.00      | 42.97       | 263         | 199       | Horizontal |
| 2               | 2037.27         | 38.96          | -93.27      | -54.31      | -13.00      | 41.31       | 251         | 325       | Horizontal |
| 3               | 2716.36         | 37.94          | -90.45      | -52.51      | -13.00      | 39.51       | 184         | 171       | Horizontal |
| 4               | 7870.18         | 46.71          | -98.77      | -52.06      | -13.00      | 39.06       | 163         | 347       | Horizontal |
| 5               | 11805.27        | 42.89          | -91.86      | -48.97      | -13.00      | 35.97       | 251         | 317       | Horizontal |
| 6               | 15740.36        | 44.52          | -90.73      | -46.21      | -13.00      | 33.21       | 142         | 317       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1358.18         | 40.82          | -95.81      | -54.99      | -13.00      | 41.99       | 163         | 333       | Vertical |
| 2               | 2037.27         | 39.05          | -93.27      | -54.22      | -13.00      | 41.22       | 254         | 62        | Vertical |
| 3               | 2716.36         | 38.59          | -90.45      | -51.86      | -13.00      | 38.86       | 147         | 112       | Vertical |
| 4               | 7870.18         | 47.15          | -98.77      | -51.62      | -13.00      | 38.62       | 185         | 54        | Vertical |
| 5               | 11805.27        | 44.18          | -91.86      | -47.68      | -13.00      | 34.68       | 263         | 3         | Vertical |
| 6               | 15740.36        | 41.81          | -90.73      | -48.92      | -13.00      | 35.92       | 241         | 318       | Vertical |



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Report No.: SEWA2309000114RG10

Rev.: 01

Page: 260 of 268

**Test Band = NR UL CA n25A-n77A 3700M-3980M\_ 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               | 3704.18         | 34.36          | -87.25      | -52.89      | -13.00      | 39.89       | 186         | 274       | Horizontal |
| 2               | 5556.27         | 50.09          | -105.32     | -55.23      | -13.00      | 42.23       | 265         | 0         | Horizontal |
| 3               | 7310.18         | 49.01          | -100.63     | -51.62      | -13.00      | 38.62       | 263         | 94        | Horizontal |
| 4               | 7408.36         | 47.78          | -100.77     | -52.99      | -13.00      | 39.99       | 241         | 247       | Horizontal |
| 5               | 10965.27        | 42.47          | -91.32      | -48.85      | -13.00      | 35.85       | 142         | 44        | Horizontal |
| 6               | 14620.36        | 41.59          | -89.81      | -48.22      | -13.00      | 35.22       | 251         | 104       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3704.18         | 33.58          | -87.25      | -53.67      | -13.00      | 40.67       | 142         | 22        | Vertical |
| 2               | 5556.27         | 50.75          | -105.32     | -54.57      | -13.00      | 41.57       | 263         | 166       | Vertical |
| 3               | 7310.18         | 47.95          | -100.63     | -52.68      | -13.00      | 39.68       | 142         | 1         | Vertical |
| 4               | 7408.36         | 47.63          | -100.77     | -53.14      | -13.00      | 40.14       | 175         | 247       | Vertical |
| 5               | 10965.27        | 43.30          | -91.32      | -48.02      | -13.00      | 35.02       | 263         | 146       | Vertical |
| 6               | 14620.36        | 40.57          | -89.81      | -49.24      | -13.00      | 36.24       | 251         | 55        | Vertical |



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Report No.: SEWA2309000114RG10

Rev.: 01

Page: 261 of 268

**Test Band = NR UL CA n25A-n77A 3700M-3980M\_ 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               | 3729.18         | 33.49          | -87.02      | -53.53      | -13.00      | 40.53       | 163         | 163       | Horizontal |
| 2               | 5593.77         | 50.55          | -105.40     | -54.85      | -13.00      | 41.85       | 254         | 156       | Horizontal |
| 3               | 7458.36         | 47.86          | -100.54     | -52.68      | -13.00      | 39.68       | 188         | 356       | Horizontal |
| 4               | 7590.18         | 49.05          | -99.85      | -50.80      | -13.00      | 37.80       | 163         | 206       | Horizontal |
| 5               | 11835.27        | 43.42          | -91.75      | -48.33      | -13.00      | 35.33       | 251         | 266       | Horizontal |
| 6               | 15180.36        | 42.76          | -89.91      | -47.15      | -13.00      | 34.15       | 174         | 277       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3729.18         | 34.46          | -87.02      | -52.56      | -13.00      | 39.56       | 142         | 104       | Vertical |
| 2               | 5593.77         | 50.52          | -105.40     | -54.88      | -13.00      | 41.88       | 263         | 208       | Vertical |
| 3               | 7458.36         | 48.02          | -100.54     | -52.52      | -13.00      | 39.52       | 254         | 15        | Vertical |
| 4               | 7590.18         | 49.06          | -99.85      | -50.79      | -13.00      | 37.79       | 185         | 93        | Vertical |
| 5               | 11835.27        | 42.89          | -91.75      | -48.86      | -13.00      | 35.86       | 265         | 74        | Vertical |
| 6               | 15180.36        | 42.25          | -89.91      | -47.66      | -13.00      | 34.66       | 241         | 329       | Vertical |



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Report No.: SEWA2309000114RG10

Rev.: 01

Page: 262 of 268

**Test Band = NR UL CA n25A-n77A 3700M-3980M\_ 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               | 3754.18         | 34.90          | -86.80      | -51.90      | -13.00      | 38.90       | 142         | 323       | Horizontal |
| 2               | 5631.27         | 50.74          | -105.28     | -54.54      | -13.00      | 41.54       | 263         | 186       | Horizontal |
| 3               | 7508.36         | 48.76          | -100.30     | -51.54      | -13.00      | 38.54       | 251         | 226       | Horizontal |
| 4               | 7870.18         | 46.74          | -98.77      | -52.03      | -13.00      | 39.03       | 174         | 195       | Horizontal |
| 5               | 11805.27        | 43.43          | -91.86      | -48.43      | -13.00      | 35.43       | 186         | 76        | Horizontal |
| 6               | 15740.36        | 42.64          | -90.73      | -48.09      | -13.00      | 35.09       | 255         | 65        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3754.18         | 34.53          | -86.80      | -52.27      | -13.00      | 39.27       | 142         | 78        | Vertical |
| 2               | 5631.27         | 50.13          | -105.28     | -55.15      | -13.00      | 42.15       | 263         | 280       | Vertical |
| 3               | 7508.36         | 48.72          | -100.30     | -51.58      | -13.00      | 38.58       | 254         | 209       | Vertical |
| 4               | 7870.18         | 47.26          | -98.77      | -51.51      | -13.00      | 38.51       | 175         | 178       | Vertical |
| 5               | 11805.27        | 43.95          | -91.86      | -47.91      | -13.00      | 34.91       | 265         | 0         | Vertical |
| 6               | 15740.36        | 42.33          | -90.73      | -48.40      | -13.00      | 35.40       | 218         | 16        | Vertical |



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Report No.: SEWA2309000114RG10

Rev.: 01

Page: 263 of 268

**Test Band = NR UL CA n13A-n77A 3700M-3980M\_ 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               | 1554.68         | 39.40          | -95.18      | -55.78      | -13.00      | 42.78       | 163         | 360       | Horizontal |
| 2               | 2332.02         | 38.36          | -92.24      | -53.88      | -13.00      | 40.88       | 274         | 175       | Horizontal |
| 3               | 3109.36         | 37.38          | -88.89      | -51.51      | -13.00      | 38.51       | 166         | 11        | Horizontal |
| 4               | 7310.18         | 47.85          | -100.63     | -52.78      | -13.00      | 39.78       | 254         | 147       | Horizontal |
| 5               | 10965.27        | 43.33          | -91.32      | -47.99      | -13.00      | 34.99       | 196         | 238       | Horizontal |
| 6               | 14620.36        | 42.04          | -89.81      | -47.77      | -13.00      | 34.77       | 264         | 347       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1554.68         | 40.15          | -95.18      | -55.03      | -13.00      | 42.03       | 262         | 273       | Vertical |
| 2               | 2332.02         | 38.67          | -92.24      | -53.57      | -13.00      | 40.57       | 241         | 70        | Vertical |
| 3               | 3109.36         | 37.19          | -88.89      | -51.70      | -13.00      | 38.70       | 175         | 3         | Vertical |
| 4               | 7310.18         | 48.43          | -100.63     | -52.20      | -13.00      | 39.20       | 284         | 328       | Vertical |
| 5               | 10965.27        | 41.96          | -91.32      | -49.36      | -13.00      | 36.36       | 221         | 93        | Vertical |
| 6               | 14620.36        | 41.17          | -89.81      | -48.64      | -13.00      | 35.64       | 145         | 74        | Vertical |



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Report No.: SEWA2309000114RG10

Rev.: 01

Page: 264 of 268

**Test Band = NR UL CA n13A-n77A 3700M-3980M\_ 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               | 1559.68         | 39.33          | -95.17      | -55.84      | -13.00      | 42.84       | 263         | 284       | Horizontal |
| 2               | 2339.52         | 38.94          | -92.21      | -53.27      | -13.00      | 40.27       | 185         | 360       | Horizontal |
| 3               | 3119.36         | 37.77          | -88.84      | -51.07      | -13.00      | 38.07       | 196         | 236       | Horizontal |
| 4               | 7590.18         | 49.30          | -99.85      | -50.55      | -13.00      | 37.55       | 241         | 287       | Horizontal |
| 5               | 11835.27        | 43.95          | -91.75      | -47.80      | -13.00      | 34.80       | 175         | 317       | Horizontal |
| 6               | 15180.36        | 42.59          | -89.91      | -47.32      | -13.00      | 34.32       | 142         | 277       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1559.68         | 39.74          | -95.17      | -55.43      | -13.00      | 42.43       | 142         | 103       | Vertical |
| 2               | 2339.52         | 39.33          | -92.21      | -52.88      | -13.00      | 39.88       | 241         | 49        | Vertical |
| 3               | 3119.36         | 37.38          | -88.84      | -51.46      | -13.00      | 38.46       | 142         | 42        | Vertical |
| 4               | 7590.18         | 49.46          | -99.85      | -50.39      | -13.00      | 37.39       | 263         | 0         | Vertical |
| 5               | 11835.27        | 42.32          | -91.75      | -49.43      | -13.00      | 36.43       | 106         | 278       | Vertical |
| 6               | 15180.36        | 42.60          | -89.91      | -47.31      | -13.00      | 34.31       | 302         | 0         | Vertical |



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Report No.: SEWA2309000114RG10

Rev.: 01

Page: 265 of 268

**Test Band = NR UL CA n13A-n77A 3700M-3980M\_ 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               | 1564.68         | 40.16          | -95.16      | -55.00      | -13.00      | 42.00       | 142         | 3         | Horizontal |
| 2               | 2347.02         | 38.82          | -92.18      | -53.36      | -13.00      | 40.36       | 263         | 348       | Horizontal |
| 3               | 3129.36         | 37.37          | -88.79      | -51.42      | -13.00      | 38.42       | 284         | 95        | Horizontal |
| 4               | 7870.18         | 47.22          | -98.77      | -51.55      | -13.00      | 38.55       | 176         | 279       | Horizontal |
| 5               | 11805.27        | 43.23          | -91.86      | -48.63      | -13.00      | 35.63       | 253         | 4         | Horizontal |
| 6               | 15740.36        | 43.05          | -90.73      | -47.68      | -13.00      | 34.68       | 254         | 156       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1564.68         | 39.13          | -95.16      | -56.03      | -13.00      | 43.03       | 142         | 221       | Vertical |
| 2               | 2347.02         | 38.60          | -92.18      | -53.58      | -13.00      | 40.58       | 263         | 70        | Vertical |
| 3               | 3129.36         | 36.90          | -88.79      | -51.89      | -13.00      | 38.89       | 284         | 360       | Vertical |
| 4               | 7870.18         | 47.09          | -98.77      | -51.68      | -13.00      | 38.68       | 175         | 357       | Vertical |
| 5               | 11805.27        | 43.66          | -91.86      | -48.20      | -13.00      | 35.20       | 263         | 225       | Vertical |
| 6               | 15740.36        | 42.89          | -90.73      | -47.84      | -13.00      | 34.84       | 241         | 236       | 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:

$$AF = \text{Antenna Factor (dB/m)}$$

$$\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$$

$$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$$

$$\text{Margin} = \text{Limit} - \text{Level}$$


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Report No.: SEWA2309000114RG10

Rev.: 01

Page: 266 of 268

## 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 |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | 9.100000      | 0.002370        | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | 25.200000     | 0.006563        | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | 12.900000     | 0.003359        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | VH      | NT          | 8.900000      | 0.002318        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | VN      | NT          | 14.600000     | 0.003802        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | VL      | NT          | 13.900000     | 0.003620        | PASS    |



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Report No.: SEWA2309000114RG10

Rev.: 01

Page: 267 of 268

## Frequency Error VS. Temperature

| Temperature   |     |           |             |         |            |         |             |               |                 |         |
|---------------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band          | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | 9.200000      | 0.002396        | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | 7.400000      | 0.001927        | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | 13.300000     | 0.003464        | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | 14.600000     | 0.003802        | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | 15.200000     | 0.003958        | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | 7.500000      | 0.001953        | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | 11.700000     | 0.003047        | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | 16.000000     | 0.004167        | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | 12.800000     | 0.003333        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | -30         | 13.900000     | 0.003620        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | -20         | 6.800000      | 0.001771        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | -10         | 9.200000      | 0.002396        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 0           | 5.300000      | 0.001380        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 10          | 3.500000      | 0.000911        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 20          | 15.800000     | 0.004115        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 30          | 12.200000     | 0.003177        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 40          | 6.200000      | 0.001615        | PASS    |
| N77-3700-3980 | 30  | 100       | CP-QPSK     | M       | Outer_Full | NV      | 50          | 13.700000     | 0.003568        | PASS    |



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Report No.: SEWA2309000114RG10

Rev.: 01

Page: 268 of 268

**Test Result for MIMO**
**Frequency Error VS. Voltage**

| Voltage       |     |            |             |         |            |         |             |                |                 |         |
|---------------|-----|------------|-------------|---------|------------|---------|-------------|----------------|-----------------|---------|
| Band          | SCS | Band width | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Verdict |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | -7.100000      | -0.003242       | PASS    |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | -6.500000      | -0.006352       | PASS    |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | 12.200000      | 0.004712        | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | VH      | NT          | -6.100000      | -0.003257       | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | VN      | NT          | -12.400000     | -0.003658       | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | VL      | NT          | -13.500000     | -0.003657       | PASS    |

**Frequency Error VS. Temperature**

| Temperature   |     |            |             |         |            |         |             |                |                 |         |
|---------------|-----|------------|-------------|---------|------------|---------|-------------|----------------|-----------------|---------|
| Band          | SCS | Band width | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Verdict |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | -7.200000      | -0.002563       | PASS    |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | -10.500000     | -0.002736       | PASS    |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | 14.500000      | 0.003752        | PASS    |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | -8.200000      | -0.002234       | PASS    |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | -15.500000     | -0.004063       | PASS    |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | -19.500000     | -0.005134       | PASS    |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | -6.200000      | -0.001533       | PASS    |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | 13.500000      | 0.003456        | PASS    |
| N77-3700-3980 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | -5.700000      | -0.001512       | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | -30         | -9.200000      | -0.002325       | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | -20         | -20.200000     | -0.005352       | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | -10         | -12.200000     | -0.003254       | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 0           | -8.700000      | -0.002235       | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 10          | -8.200000      | -0.002123       | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 20          | -10.300000     | -0.002744       | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 30          | -14.200000     | -0.003732       | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 40          | -7.500000      | -0.002025       | PASS    |
| N77-3700-3980 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 50          | 10.200000      | 0.002563        | PASS    |

---End of Attachment---



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000  
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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

Member of the SGS Group (SGS SA)