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# Appendix B.8

## LTE Band 13



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## Effective (Isotropic) Radiated Power Output Data

## Test Result

Ant0:

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band13 | 5MHz      | QPSK       | 23205   | 1RB#0            | 24.45       | 17.00    | 34.77      | PASS    |
| Band13 | 5MHz      | QPSK       | 23205   | 1RB#12           | 24.34       | 16.89    | 34.77      | PASS    |
| Band13 | 5MHz      | QPSK       | 23205   | 1RB#24           | 24.38       | 16.93    | 34.77      | PASS    |
| Band13 | 5MHz      | QPSK       | 23205   | 25RB#0           | 23.47       | 16.02    | 34.77      | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 1RB#0            | 24.43       | 16.98    | 34.77      | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 1RB#12           | 24.45       | 17.00    | 34.77      | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 1RB#24           | 24.30       | 16.85    | 34.77      | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 25RB#0           | 23.46       | 16.01    | 34.77      | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 1RB#0            | 24.45       | 17.00    | 34.77      | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 1RB#12           | 24.41       | 16.96    | 34.77      | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 1RB#24           | 24.33       | 16.88    | 34.77      | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 25RB#0           | 23.49       | 16.04    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 1RB#0            | 23.84       | 16.39    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 1RB#12           | 24.09       | 16.64    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 1RB#24           | 23.63       | 16.18    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 25RB#0           | 22.46       | 15.01    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 1RB#0            | 23.78       | 16.33    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 1RB#12           | 23.69       | 16.24    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 1RB#24           | 23.62       | 16.17    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 25RB#0           | 22.39       | 14.94    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 1RB#0            | 23.89       | 16.44    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 1RB#12           | 23.65       | 16.20    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 1RB#24           | 23.66       | 16.21    | 34.77      | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 25RB#0           | 22.47       | 15.02    | 34.77      | PASS    |
| Band13 | 5MHz      | 64QAM      | 23205   | 1RB#0            | 22.74       | 15.29    | 34.77      | PASS    |
| Band13 | 5MHz      | 64QAM      | 23205   | 1RB#12           | 22.93       | 15.48    | 34.77      | PASS    |
| Band13 | 5MHz      | 64QAM      | 23205   | 1RB#24           | 22.57       | 15.12    | 34.77      | PASS    |



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|        |       |       |       |        |       |       |       |      |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band13 | 5MHz  | 64QAM | 23205 | 25RB#0 | 21.44 | 13.99 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23230 | 1RB#0  | 22.65 | 15.20 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23230 | 1RB#12 | 22.71 | 15.26 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23230 | 1RB#24 | 22.70 | 15.25 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23230 | 25RB#0 | 21.41 | 13.96 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23255 | 1RB#0  | 22.58 | 15.13 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23255 | 1RB#12 | 22.66 | 15.21 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23255 | 1RB#24 | 22.57 | 15.12 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23255 | 25RB#0 | 21.44 | 13.99 | 34.77 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 1RB#0  | 24.33 | 16.88 | 34.77 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 1RB#24 | 24.42 | 16.97 | 34.77 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 1RB#49 | 24.24 | 16.79 | 34.77 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 50RB#0 | 23.44 | 15.99 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#0  | 23.66 | 16.21 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#24 | 23.52 | 16.07 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#49 | 23.57 | 16.12 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 22.44 | 14.99 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#0  | 22.76 | 15.31 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#24 | 22.64 | 15.19 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#49 | 22.44 | 14.99 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 21.44 | 13.99 | 34.77 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0           | 5.04       | 13        | PASS    |
| Band13 | 10MHz     | 16QAM      | 23230   | 50RB#0           | 5.78       | 13        | PASS    |
| Band13 | 10MHz     | 64QAM      | 23230   | 50RB#0           | 6.22       | 13        | PASS    |



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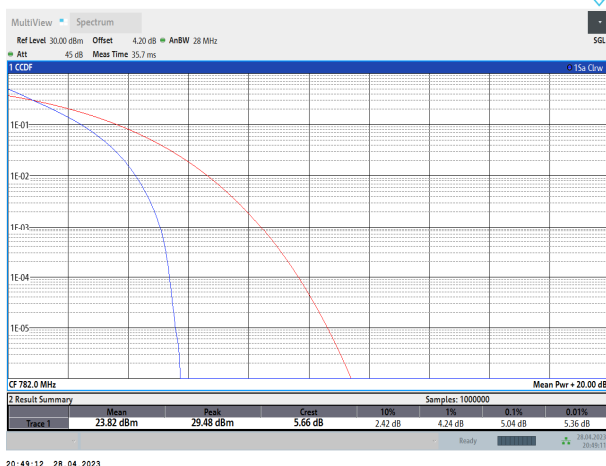
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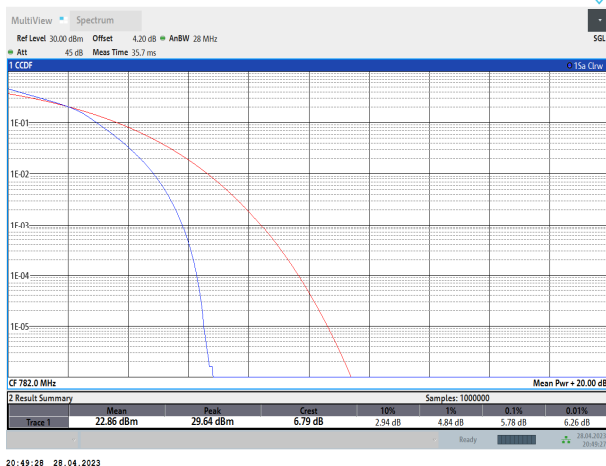
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### Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0



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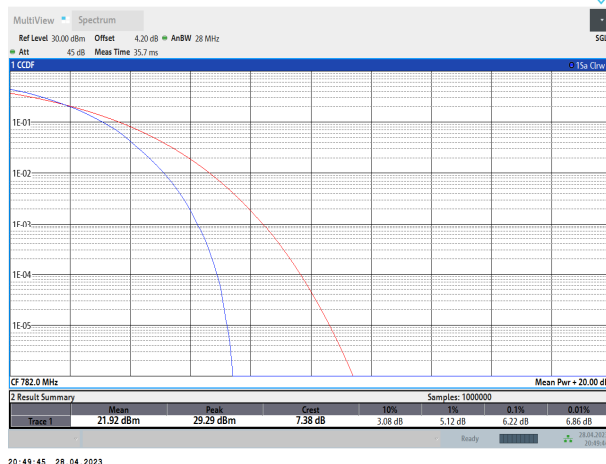
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### Band13-10MHz-64QAM-23230-50RB#0



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## Modulation Characteristics

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0           | PASS   | PASS    |
| Band13 | 10MHz     | 16QAM      | 23230   | 50RB#0           | PASS   | PASS    |
| Band13 | 10MHz     | 64QAM      | 23230   | 50RB#0           | PASS   | PASS    |



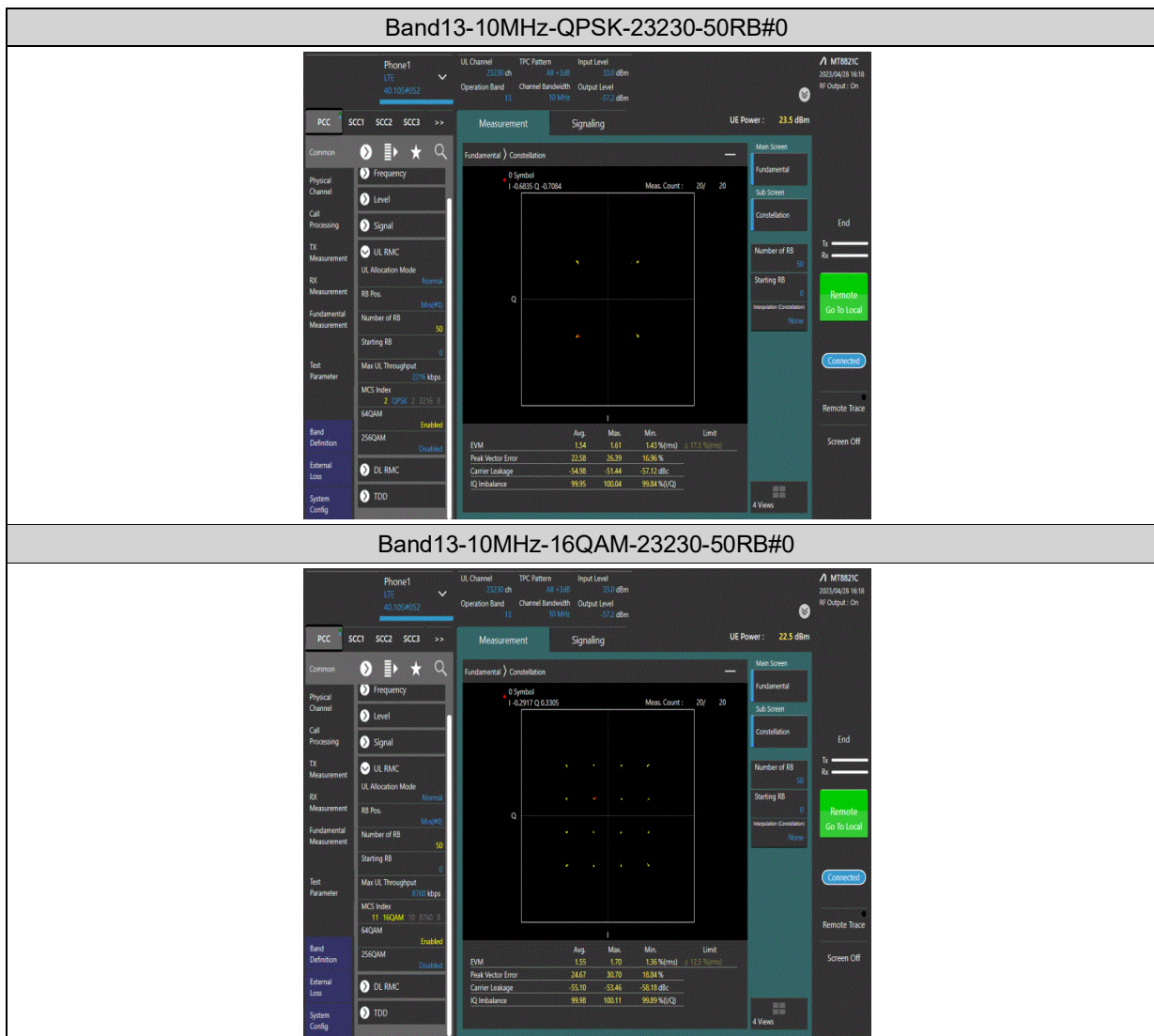
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### Test Graphs



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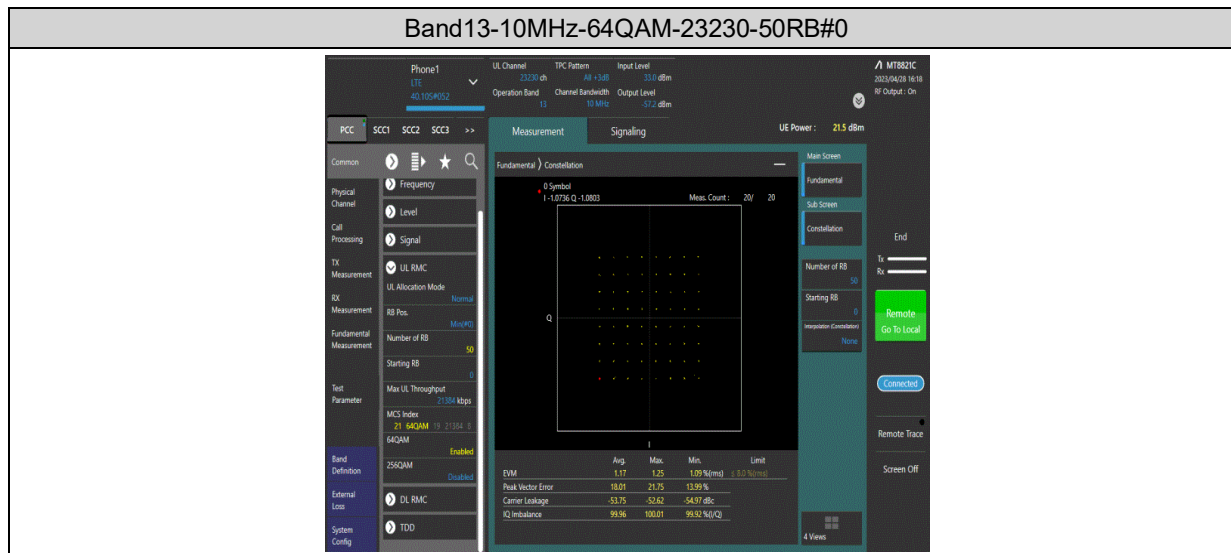
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band13 | 5MHz      | QPSK       | 23205   | 25RB#0           | 4.470                    | 5.01                 | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 25RB#0           | 4.474                    | 5.01                 | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 25RB#0           | 4.484                    | 4.97                 | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 25RB#0           | 4.473                    | 4.91                 | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 25RB#0           | 4.481                    | 5.03                 | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 25RB#0           | 4.476                    | 5.00                 | PASS    |
| Band13 | 5MHz      | 64QAM      | 23205   | 25RB#0           | 4.474                    | 4.98                 | PASS    |
| Band13 | 5MHz      | 64QAM      | 23230   | 25RB#0           | 4.493                    | 4.98                 | PASS    |
| Band13 | 5MHz      | 64QAM      | 23255   | 25RB#0           | 4.483                    | 4.89                 | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0           | 8.946                    | 9.94                 | PASS    |
| Band13 | 10MHz     | 16QAM      | 23230   | 50RB#0           | 8.907                    | 9.74                 | PASS    |
| Band13 | 10MHz     | 64QAM      | 23230   | 50RB#0           | 8.943                    | 9.64                 | PASS    |



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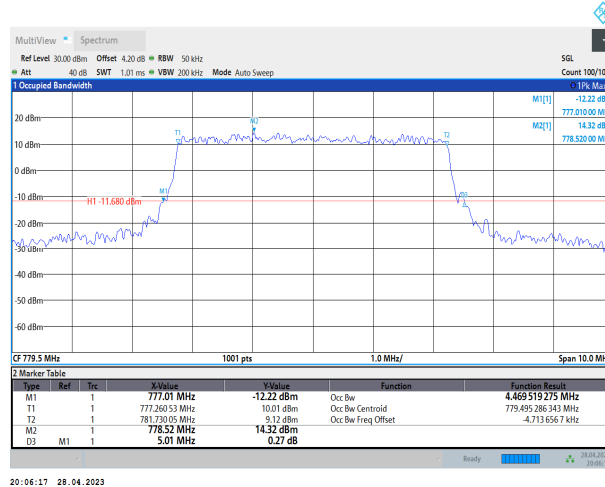
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Rev.: 01

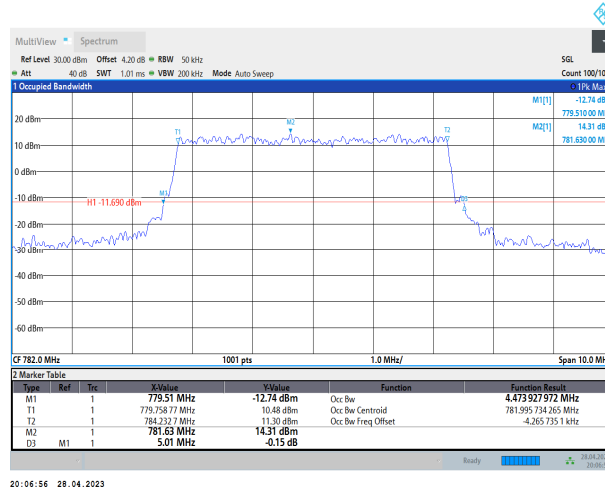
Page: 11 of 31

## Test Graphs

Band13-5MHz-QPSK-23205-25RB#0



Band13-5MHz-QPSK-23230-25RB#0

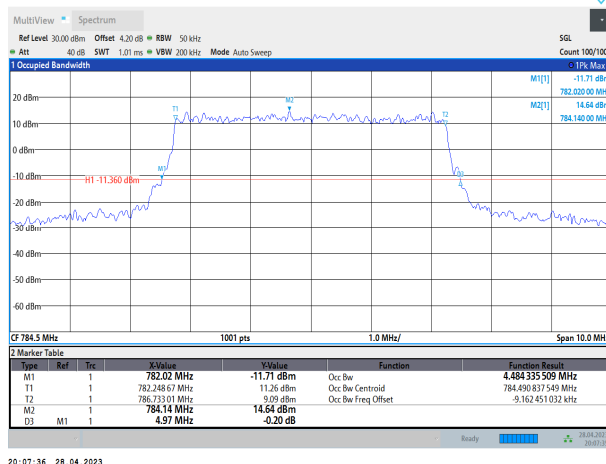


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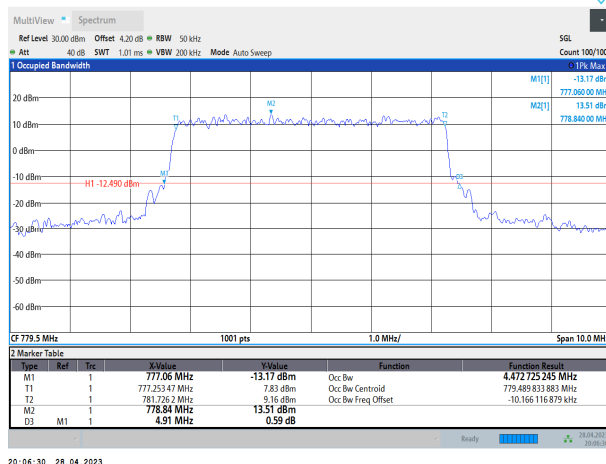
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## Band13-5MHz-QPSK-23255-25RB#0



## Band13-5MHz-16QAM-23205-25RB#0

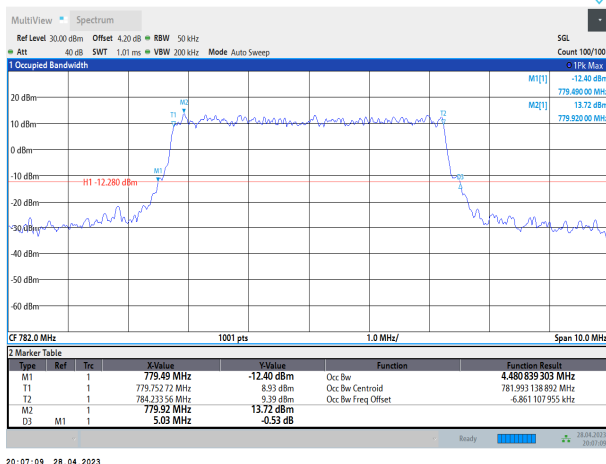


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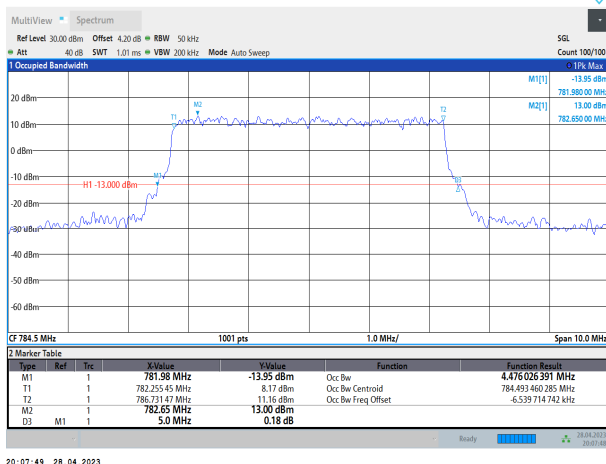
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### Band13-5MHz-16QAM-23230-25RB#0



### Band13-5MHz-16QAM-23255-25RB#0



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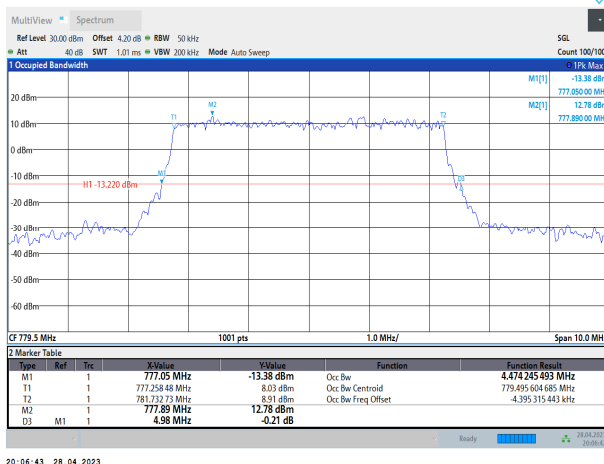
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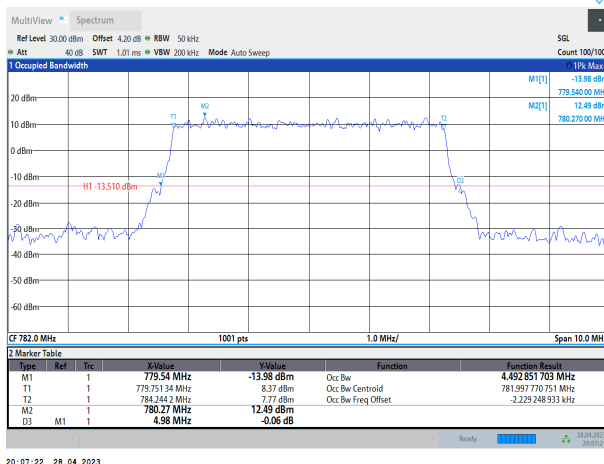
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## Band13-5MHz-64QAM-23205-25RB#0



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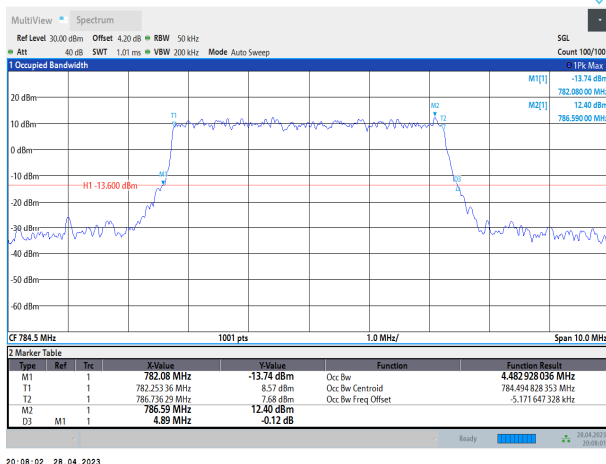


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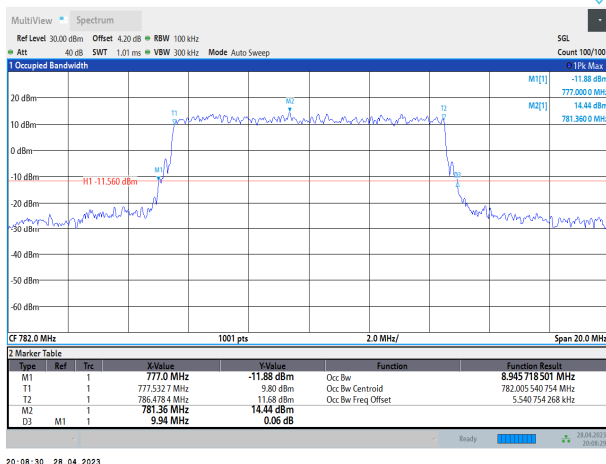
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### Band13-5MHz-64QAM-23255-25RB#0



### Band13-10MHz-QPSK-23230-50RB#0



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### Band13-10MHz-16QAM-23230-50RB#0



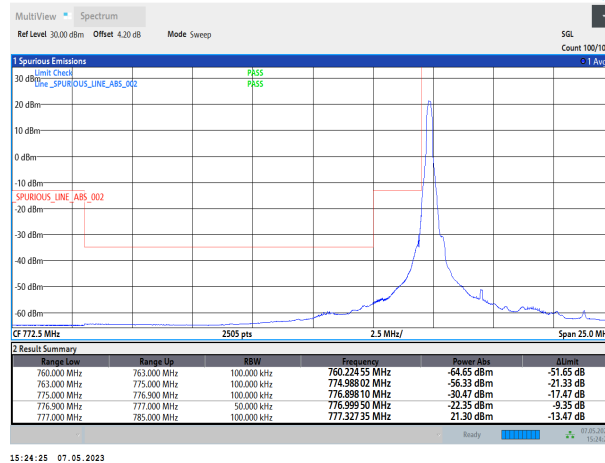
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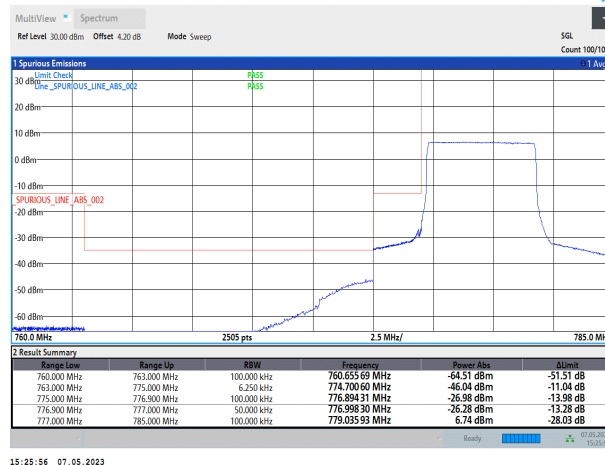
## Band Edge

## Test Graphs

## Band13-5MHz-QPSK-23205-1RB#0



## Band13-5MHz-QPSK-23205-25RB#0

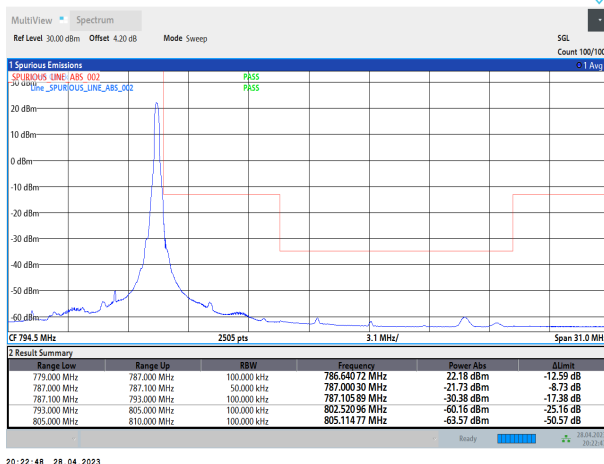


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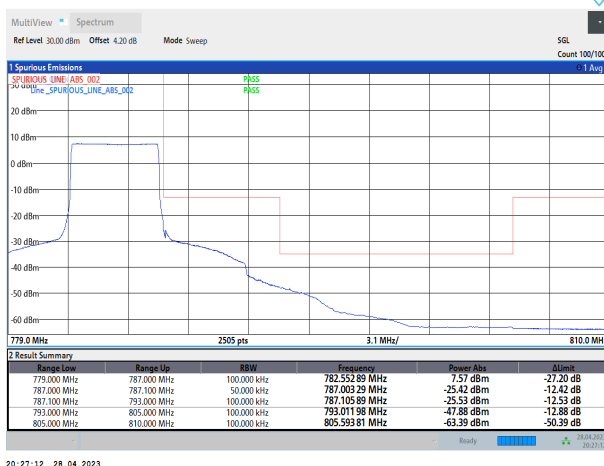
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### Band13-5MHz-QPSK-23255-1RB#24



### Band13-5MHz-QPSK-23255-25RB#0



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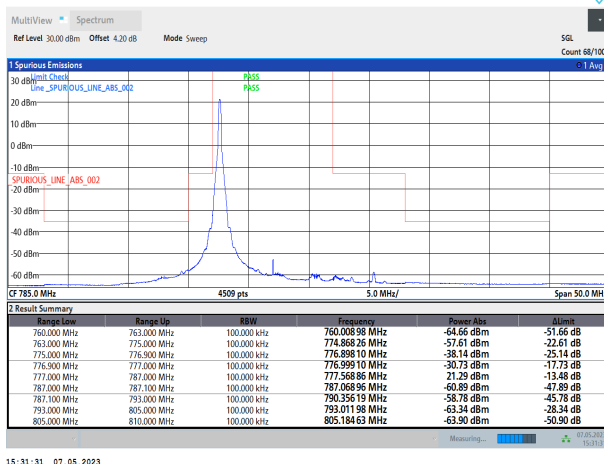
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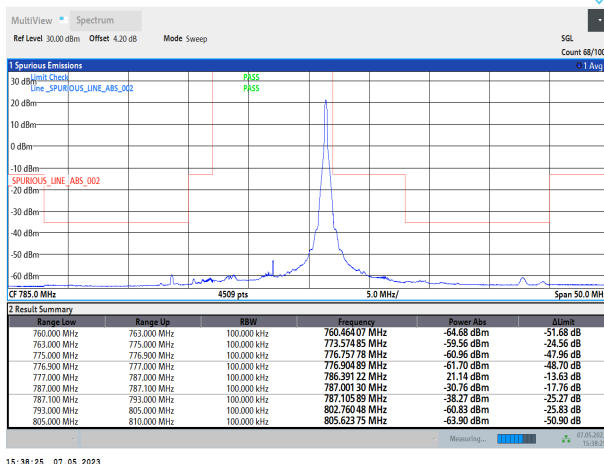
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### Band13-10MHz-QPSK-23230-1RB#0



### Band13-10MHz-QPSK-23230-1RB#49



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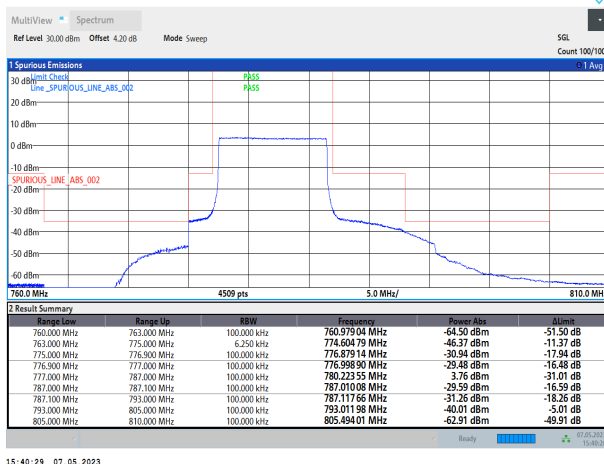
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### Band13-10MHz-QPSK-23230-50RB#0



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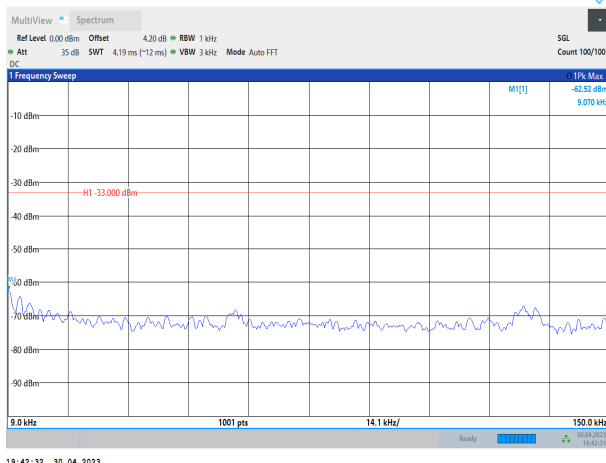
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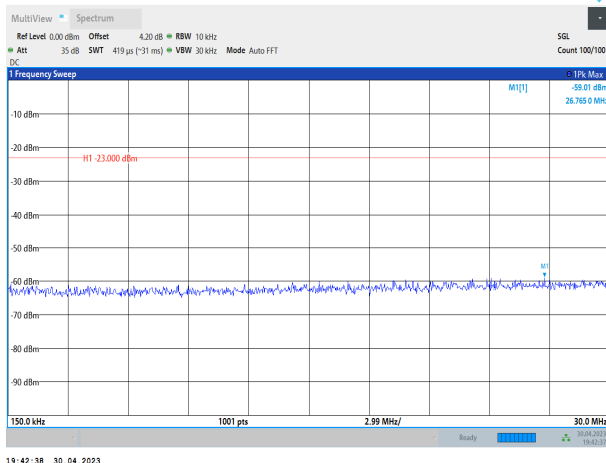
### Conducted Spurious Emission

#### Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



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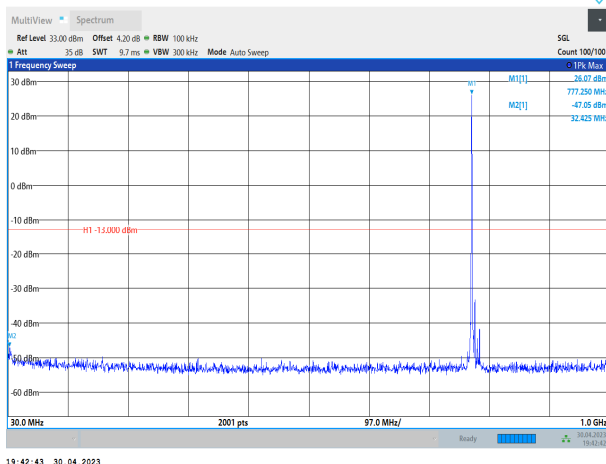
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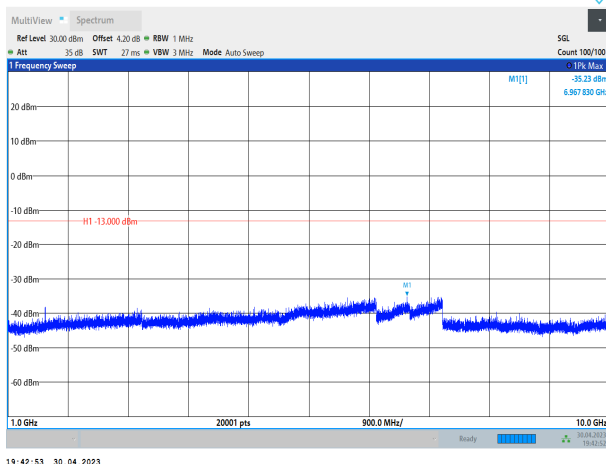
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### Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



### Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band13\_10MHz\_ TM1

Test Channel = Mid ANT0

| Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.       | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1         | 544.1300           | 45.70             | -47.10         | 25.37    | -71.29         | -13.00         | 58.29          | 122            | 44           | Horizontal |
| 2         | 1555.1800          | 44.28             | -48.30         | 25.41    | -73.87         | -13.00         | 60.87          | 148            | 277          | Horizontal |
| 3         | 2332.7700          | 43.59             | -47.48         | 27.41    | -71.75         | -13.00         | 58.75          | 175            | 124          | Horizontal |
| 4         | 3110.3600          | 42.94             | -46.70         | 29.53    | -69.49         | -13.00         | 56.49          | 156            | 0            | Horizontal |
| 5         | 3887.9500          | 41.88             | -46.22         | 30.54    | -69.06         | -13.00         | 56.06          | 291            | 357          | Horizontal |
| 6         | 4665.5400          | 41.08             | -45.80         | 31.91    | -68.07         | -13.00         | 55.07          | 188            | 105          | Horizontal |

| Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.       | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1         | 544.1300           | 45.26             | -47.10         | 25.37    | -71.73         | -13.00         | 58.73          | 214            | 0            | Vertical |
| 2         | 1555.1800          | 44.24             | -48.30         | 25.41    | -73.91         | -13.00         | 60.91          | 174            | 30           | Vertical |
| 3         | 2332.7700          | 43.27             | -47.48         | 27.41    | -72.07         | -13.00         | 59.07          | 155            | 360          | Vertical |
| 4         | 3110.3600          | 43.26             | -46.70         | 29.53    | -69.17         | -13.00         | 56.17          | 142            | 189          | Vertical |
| 5         | 3887.9500          | 41.48             | -46.22         | 30.54    | -69.46         | -13.00         | 56.46          | 136            | 71           | Vertical |
| 6         | 4665.5400          | 41.42             | -45.80         | 31.91    | -67.73         | -13.00         | 54.73          | 210            | 210          | Vertical |



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**Test Band = LTE Band13\_5MHz\_TM1****Test Channel = Low ANT0****Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1   | 1554.6800          | 44.06             | -48.30         | 25.41    | -74.09         | -13.00         | 61.09          | 255            | 157          | Horizontal |
| 2   | 2332.0200          | 42.81             | -47.48         | 27.41    | -72.53         | -13.00         | 59.53          | 148            | 66           | Horizontal |
| 3   | 3109.3600          | 43.16             | -46.71         | 29.53    | -69.27         | -13.00         | 56.27          | 186            | 17           | Horizontal |
| 4   | 3886.7000          | 41.74             | -46.22         | 30.53    | -69.21         | -13.00         | 56.21          | 126            | 40           | Horizontal |
| 5   | 4664.0400          | 41.39             | -45.80         | 31.91    | -67.76         | -13.00         | 54.76          | 293            | 334          | Horizontal |
| 6   | 5441.3800          | 41.49             | -45.04         | 32.85    | -65.97         | -13.00         | 52.97          | 140            | 163          | Horizontal |

**Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| 1   | 1554.6800          | 44.24             | -48.30         | 25.41    | -73.91         | -13.00         | 60.91          | 255            | 350          | Vertical |
| 2   | 2332.0200          | 43.10             | -47.48         | 27.41    | -72.24         | -13.00         | 59.24          | 142            | 79           | Vertical |
| 3   | 3109.3600          | 43.57             | -46.71         | 29.53    | -68.86         | -13.00         | 55.86          | 136            | 0            | Vertical |
| 4   | 3886.7000          | 41.73             | -46.22         | 30.53    | -69.22         | -13.00         | 56.22          | 258            | 295          | Vertical |
| 5   | 4664.0400          | 41.82             | -45.80         | 31.91    | -67.33         | -13.00         | 54.33          | 186            | 111          | Vertical |
| 6   | 5441.3800          | 41.55             | -45.04         | 32.85    | -65.91         | -13.00         | 52.91          | 291            | 295          | Vertical |



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**Test Band = LTE Band13\_5MHz\_TM1**  
**Test Channel = Mid ANT0**

| Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 1559.6800       | 44.53          | -48.30      | 25.40    | -73.62      | -40.00      | 33.62       | 215         | 172       | Horizontal |
| 2         | 2339.5200       | 43.32          | -47.48      | 27.41    | -72.01      | -13.00      | 59.01       | 147         | 147       | Horizontal |
| 3         | 3119.3600       | 42.98          | -46.66      | 29.55    | -69.39      | -13.00      | 56.39       | 175         | 147       | Horizontal |
| 4         | 3899.2000       | 41.52          | -46.23      | 30.56    | -69.41      | -13.00      | 56.41       | 156         | 71        | Horizontal |
| 5         | 4679.0400       | 40.94          | -45.80      | 31.95    | -68.17      | -13.00      | 55.17       | 236         | 331       | Horizontal |
| 6         | 5458.8800       | 41.43          | -45.07      | 32.87    | -66.04      | -13.00      | 53.04       | 261         | 360       | Horizontal |

| Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 1559.6800       | 44.43          | -48.30      | 25.40    | -73.72      | -40.00      | 33.72       | 211         | 356       | Vertical |
| 2         | 2339.5200       | 43.72          | -47.48      | 27.41    | -71.61      | -13.00      | 58.61       | 125         | 342       | Vertical |
| 3         | 3119.3600       | 42.80          | -46.66      | 29.55    | -69.57      | -13.00      | 56.57       | 186         | 43        | Vertical |
| 4         | 3899.2000       | 41.72          | -46.23      | 30.56    | -69.21      | -13.00      | 56.21       | 291         | 13        | Vertical |
| 5         | 4679.0400       | 41.04          | -45.80      | 31.95    | -68.07      | -13.00      | 55.07       | 147         | 1         | Vertical |
| 6         | 5458.8800       | 41.19          | -45.07      | 32.87    | -66.28      | -13.00      | 53.28       | 180         | 106       | Vertical |



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**Test Band = LTE Band13\_5MHz\_TM1**

**Test Channel = High ANT0**

| Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 1564.6800       | 43.55          | -48.29      | 25.40    | -74.61      | -40.00      | 34.61       | 255         | 172       | Horizontal |
| 2         | 2347.0200       | 43.79          | -47.48      | 27.41    | -71.53      | -13.00      | 58.53       | 147         | 4         | Horizontal |
| 3         | 3129.3600       | 42.70          | -46.61      | 29.56    | -69.61      | -13.00      | 56.61       | 150         | 18        | Horizontal |
| 4         | 3911.7000       | 41.68          | -46.23      | 30.59    | -69.21      | -13.00      | 56.21       | 136         | 66        | Horizontal |
| 5         | 4694.0400       | 41.60          | -45.80      | 32.00    | -67.46      | -13.00      | 54.46       | 256         | 360       | Horizontal |
| 6         | 5476.3800       | 40.50          | -45.10      | 32.88    | -66.98      | -13.00      | 53.98       | 291         | 185       | Horizontal |

| Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 1564.6800       | 43.62          | -48.29      | 25.40    | -74.54      | -40.00      | 34.54       | 211         | 133       | Vertical |
| 2         | 2347.0200       | 43.57          | -47.48      | 27.41    | -71.75      | -13.00      | 58.75       | 147         | 282       | Vertical |
| 3         | 3129.3600       | 42.79          | -46.61      | 29.56    | -69.52      | -13.00      | 56.52       | 174         | 1         | Vertical |
| 4         | 3911.7000       | 42.00          | -46.23      | 30.59    | -68.89      | -13.00      | 55.89       | 126         | 351       | Vertical |
| 5         | 4694.0400       | 41.77          | -45.80      | 32.00    | -67.29      | -13.00      | 54.29       | 259         | 70        | Vertical |
| 6         | 5476.3800       | 40.79          | -45.10      | 32.88    | -66.69      | -13.00      | 53.69       | 191         | 10        | Vertical |



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**Test Band = LTE Band13\_10MHz\_TM1**  
**Test Channel = Mid ANT4**

| Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 544.1300        | 44.95          | -47.10      | 25.37    | -72.04      | -13.00      | 59.04       | 211         | 43        | Horizontal |
| 2         | 1555.1800       | 43.71          | -48.30      | 25.41    | -74.44      | -13.00      | 61.44       | 148         | 2         | Horizontal |
| 3         | 2332.7700       | 43.01          | -47.48      | 27.41    | -72.33      | -13.00      | 59.33       | 175         | 164       | Horizontal |
| 4         | 3110.3600       | 43.26          | -46.70      | 29.53    | -69.17      | -13.00      | 56.17       | 142         | 58        | Horizontal |
| 5         | 3887.9500       | 41.76          | -46.22      | 30.54    | -69.18      | -13.00      | 56.18       | 126         | 164       | Horizontal |
| 6         | 4665.5400       | 41.12          | -45.80      | 31.91    | -68.03      | -13.00      | 55.03       | 291         | 348       | Horizontal |

| Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 544.1300        | 44.76          | -47.10      | 25.37    | -72.23      | -13.00      | 59.23       | 211         | 203       | Vertical |
| 2         | 1555.1800       | 44.21          | -48.30      | 25.41    | -73.94      | -13.00      | 60.94       | 145         | 230       | Vertical |
| 3         | 2332.7700       | 42.90          | -47.48      | 27.41    | -72.44      | -13.00      | 59.44       | 125         | 318       | Vertical |
| 4         | 3110.3600       | 42.97          | -46.70      | 29.53    | -69.46      | -13.00      | 56.46       | 256         | 4         | Vertical |
| 5         | 3887.9500       | 41.79          | -46.22      | 30.54    | -69.15      | -13.00      | 56.15       | 236         | 163       | Vertical |
| 6         | 4665.5400       | 40.70          | -45.80      | 31.91    | -68.45      | -13.00      | 55.45       | 291         | 295       | Vertical |



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**Test Band = LTE Band13\_5MHz\_TM1**
**Test Channel = Low ANT4**

| Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 1554.6800       | 43.90          | -48.30      | 25.41    | -74.25      | -13.00      | 61.25       | 211         | 240       | Horizontal |
| 2         | 2332.0200       | 43.47          | -47.48      | 27.41    | -71.87      | -13.00      | 58.87       | 147         | 227       | Horizontal |
| 3         | 3109.3600       | 43.21          | -46.71      | 29.53    | -69.22      | -13.00      | 56.22       | 185         | 0         | Horizontal |
| 4         | 3886.7000       | 41.58          | -46.22      | 30.53    | -69.37      | -13.00      | 56.37       | 196         | 317       | Horizontal |
| 5         | 4664.0400       | 41.32          | -45.80      | 31.91    | -67.83      | -13.00      | 54.83       | 172         | 68        | Horizontal |
| 6         | 5441.3800       | 41.13          | -45.04      | 32.85    | -66.33      | -13.00      | 53.33       | 142         | 197       | Horizontal |

| Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 1554.6800       | 43.76          | -48.30      | 25.41    | -74.39      | -13.00      | 61.39       | 111         | 342       | Vertical |
| 2         | 2332.0200       | 43.12          | -47.48      | 27.41    | -72.22      | -13.00      | 59.22       | 145         | 53        | Vertical |
| 3         | 3109.3600       | 42.77          | -46.71      | 29.53    | -69.66      | -13.00      | 56.66       | 256         | 120       | Vertical |
| 4         | 3886.7000       | 41.57          | -46.22      | 30.53    | -69.38      | -13.00      | 56.38       | 238         | 255       | Vertical |
| 5         | 4664.0400       | 40.60          | -45.80      | 31.91    | -68.55      | -13.00      | 55.55       | 148         | 198       | Vertical |
| 6         | 5441.3800       | 41.24          | -45.04      | 32.85    | -66.22      | -13.00      | 53.22       | 190         | 0         | Vertical |



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**Test Band = LTE Band13\_5MHz\_TM1**

**Test Channel = Mid ANT4**

| Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 1559.6800       | 44.34          | -48.30      | 25.40    | -73.81      | -40.00      | 33.81       | 211         | 277       | Horizontal |
| 2         | 2339.5200       | 43.52          | -47.48      | 27.41    | -71.81      | -13.00      | 58.81       | 147         | 175       | Horizontal |
| 3         | 3119.3600       | 42.59          | -46.66      | 29.55    | -69.78      | -13.00      | 56.78       | 175         | 56        | Horizontal |
| 4         | 3899.2000       | 41.19          | -46.23      | 30.56    | -69.74      | -13.00      | 56.74       | 126         | 189       | Horizontal |
| 5         | 4679.0400       | 40.65          | -45.80      | 31.95    | -68.46      | -13.00      | 55.46       | 236         | 254       | Horizontal |
| 6         | 5458.8800       | 41.48          | -45.07      | 32.87    | -65.99      | -13.00      | 52.99       | 259         | 67        | Horizontal |

| Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 1559.6800       | 43.60          | -48.30      | 25.40    | -74.55      | -40.00      | 34.55       | 144         | 305       | Vertical |
| 2         | 2339.5200       | 43.26          | -47.48      | 27.41    | -72.07      | -13.00      | 59.07       | 128         | 305       | Vertical |
| 3         | 3119.3600       | 42.36          | -46.66      | 29.55    | -70.01      | -13.00      | 57.01       | 175         | 177       | Vertical |
| 4         | 3899.2000       | 41.10          | -46.23      | 30.56    | -69.83      | -13.00      | 56.83       | 142         | 13        | Vertical |
| 5         | 4679.0400       | 40.64          | -45.80      | 31.95    | -68.47      | -13.00      | 55.47       | 136         | 109       | Vertical |
| 6         | 5458.8800       | 40.84          | -45.07      | 32.87    | -66.63      | -13.00      | 53.63       | 256         | 308       | Vertical |



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**Test Band = LTE Band13\_5MHz\_TM1****Test Channel = High ANT4****Data List**

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| 1   | 1564.6800       | 43.62          | -48.29      | 25.40    | -74.54      | -40.00      | 34.54       | 214         | 304       | Horizontal |
| 2   | 2347.0200       | 43.18          | -47.48      | 27.41    | -72.14      | -13.00      | 59.14       | 158         | 109       | Horizontal |
| 3   | 3129.3600       | 43.22          | -46.61      | 29.56    | -69.09      | -13.00      | 56.09       | 186         | 43        | Horizontal |
| 4   | 3911.7000       | 41.51          | -46.23      | 30.59    | -69.38      | -13.00      | 56.38       | 196         | 291       | Horizontal |
| 5   | 4694.0400       | 40.90          | -45.80      | 32.00    | -68.16      | -13.00      | 55.16       | 155         | 0         | Horizontal |
| 6   | 5476.3800       | 40.98          | -45.10      | 32.88    | -66.50      | -13.00      | 53.50       | 135         | 132       | Horizontal |

**Data List**

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| 1   | 1564.6800       | 44.04          | -48.29      | 25.40    | -74.12      | -40.00      | 34.12       | 147         | 225       | Vertical |
| 2   | 2347.0200       | 43.69          | -47.48      | 27.41    | -71.63      | -13.00      | 58.63       | 175         | 106       | Vertical |
| 3   | 3129.3600       | 43.07          | -46.61      | 29.56    | -69.24      | -13.00      | 56.24       | 125         | 69        | Vertical |
| 4   | 3911.7000       | 42.35          | -46.23      | 30.59    | -68.54      | -13.00      | 55.54       | 148         | 172       | Vertical |
| 5   | 4694.0400       | 41.21          | -45.80      | 32.00    | -67.85      | -13.00      | 54.85       | 186         | 0         | Vertical |
| 6   | 5476.3800       | 40.67          | -45.10      | 32.88    | -66.81      | -13.00      | 53.81       | 236         | 360       | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | VL            | NT               | 0.50           | 0.000639        | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | VN            | NT               | -0.20          | -0.000256       | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | VH            | NT               | 0.60           | 0.000767        | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | -30              | -0.40          | -0.000512       | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | -20              | 1.30           | 0.001662        | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | -10              | 1.20           | 0.001535        | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 0                | 1.90           | 0.002430        | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 10               | 0.10           | 0.000128        | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 20               | -0.70          | -0.000895       | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 30               | 0.50           | 0.000639        | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 40               | 0.70           | 0.000895        | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 50               | -0.50          | -0.000639       | PASS    |

---End of Attachment---



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