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Rev.: 01

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# Appendix B.9

## LTE Band 17



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### Ant 13:

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 23.88       | 14.23    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#12           | 23.89       | 14.24    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#24           | 23.81       | 14.16    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 22.94       | 13.29    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 23.81       | 14.16    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#12           | 23.71       | 14.06    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#24           | 23.81       | 14.16    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 22.88       | 13.23    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 23.74       | 14.09    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#12           | 23.83       | 14.18    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#24           | 23.51       | 13.86    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 23.01       | 13.36    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 23.15       | 13.50    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#12           | 23.27       | 13.62    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#24           | 23.10       | 13.45    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 21.97       | 12.32    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 23.21       | 13.56    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#12           | 23.09       | 13.44    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#24           | 23.27       | 13.62    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 22.00       | 12.35    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 23.10       | 13.45    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#12           | 23.20       | 13.55    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#24           | 23.33       | 13.68    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 21.98       | 12.33    | 34.77      | PASS    |
| Band17 | 5MHz      | 64QAM      | 23755   | 1RB#0            | 22.19       | 12.54    | 34.77      | PASS    |
| Band17 | 5MHz      | 64QAM      | 23755   | 1RB#12           | 22.20       | 12.55    | 34.77      | PASS    |
| Band17 | 5MHz      | 64QAM      | 23755   | 1RB#24           | 22.08       | 12.43    | 34.77      | PASS    |
| Band17 | 5MHz      | 64QAM      | 23755   | 25RB#0           | 20.99       | 11.34    | 34.77      | PASS    |
| Band17 | 5MHz      | 64QAM      | 23790   | 1RB#0            | 22.12       | 12.47    | 34.77      | PASS    |
| Band17 | 5MHz      | 64QAM      | 23790   | 1RB#12           | 22.23       | 12.58    | 34.77      | PASS    |





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|        |       |       |       |        |       |       |       |      |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band17 | 5MHz  | 64QAM | 23790 | 1RB#24 | 22.16 | 12.51 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM | 23790 | 25RB#0 | 20.96 | 11.31 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM | 23825 | 1RB#0  | 22.23 | 12.58 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM | 23825 | 1RB#12 | 22.12 | 12.47 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM | 23825 | 1RB#24 | 22.13 | 12.48 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM | 23825 | 25RB#0 | 21.06 | 11.41 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 1RB#0  | 24.19 | 14.54 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 1RB#24 | 24.12 | 14.47 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 1RB#49 | 24.14 | 14.49 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 50RB#0 | 22.90 | 13.25 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#0  | 24.31 | 14.66 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#24 | 24.12 | 14.47 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#49 | 24.08 | 14.43 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0 | 22.94 | 13.29 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#0  | 23.95 | 14.30 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#24 | 23.71 | 14.06 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#49 | 23.85 | 14.20 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 22.89 | 13.24 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#0  | 23.78 | 14.13 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#24 | 23.21 | 13.56 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#49 | 23.39 | 13.74 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | 21.93 | 12.28 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#0  | 23.58 | 13.93 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#24 | 23.40 | 13.75 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#49 | 23.23 | 13.58 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 21.90 | 12.25 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#0  | 23.37 | 13.72 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#24 | 23.07 | 13.42 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#49 | 23.12 | 13.47 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 22.00 | 12.35 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23780 | 1RB#0  | 22.45 | 12.80 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23780 | 1RB#24 | 22.03 | 12.38 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23780 | 1RB#49 | 22.26 | 12.61 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23780 | 50RB#0 | 20.95 | 11.30 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 1RB#0  | 22.26 | 12.61 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 1RB#24 | 22.20 | 12.55 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 1RB#49 | 22.58 | 12.93 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23790 | 50RB#0 | 21.01 | 11.36 | 34.77 | PASS |



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|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band17 | 10MHz | 64QAM | 23800 | 1RB#0  | 22.49 | 12.84 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 1RB#24 | 22.03 | 12.38 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 1RB#49 | 22.18 | 12.53 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM | 23800 | 50RB#0 | 20.97 | 11.32 | 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 |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 5.13       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 5.01       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 4.99       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 5.88       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 5.83       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 5.83       | 13        | PASS    |
| Band17 | 10MHz     | 64QAM      | 23780   | 50RB#0           | 6.32       | 13        | PASS    |
| Band17 | 10MHz     | 64QAM      | 23790   | 50RB#0           | 6.29       | 13        | PASS    |
| Band17 | 10MHz     | 64QAM      | 23800   | 50RB#0           | 6.23       | 13        | PASS    |



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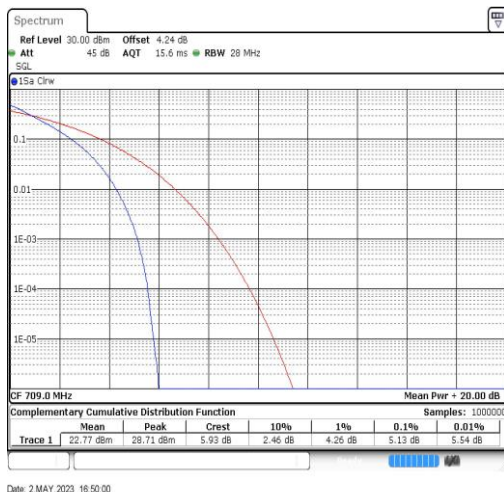


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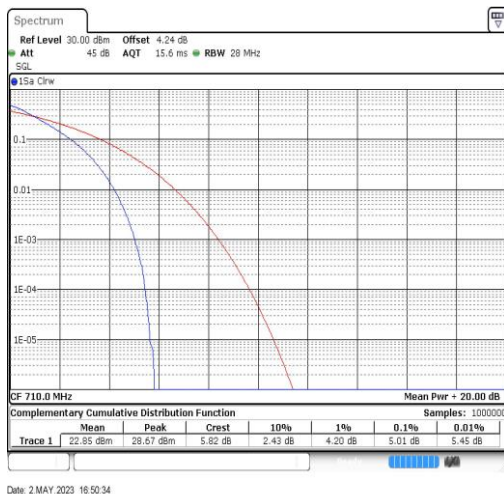
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## Test Graphs



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Band17-10MHz-QPSK-23790-50RB#0

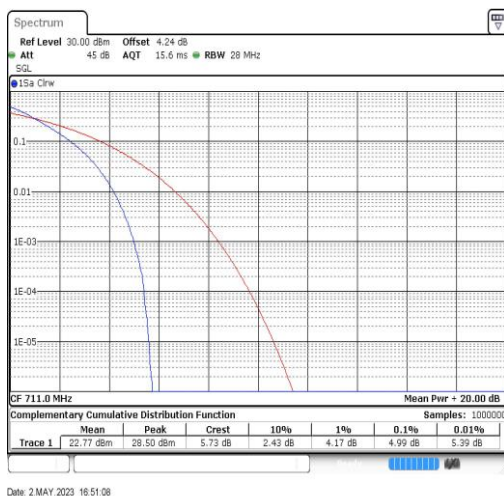




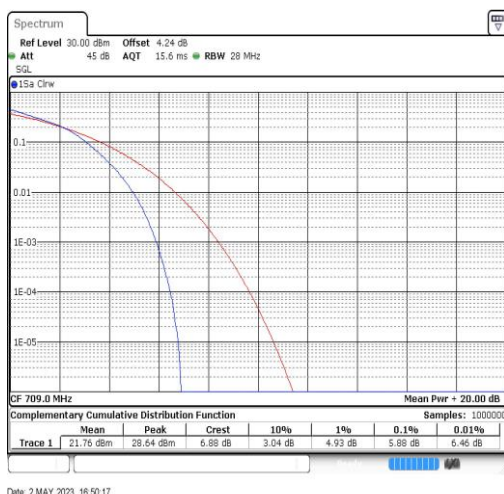
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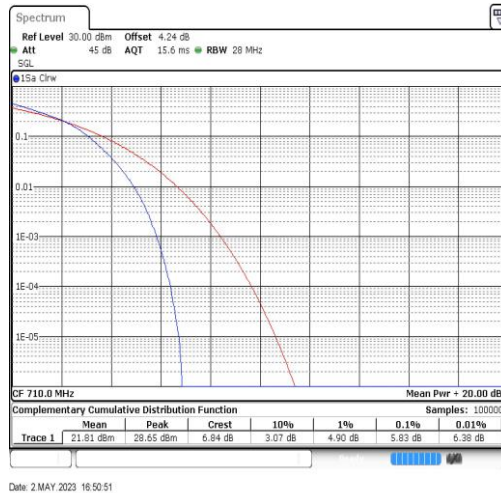
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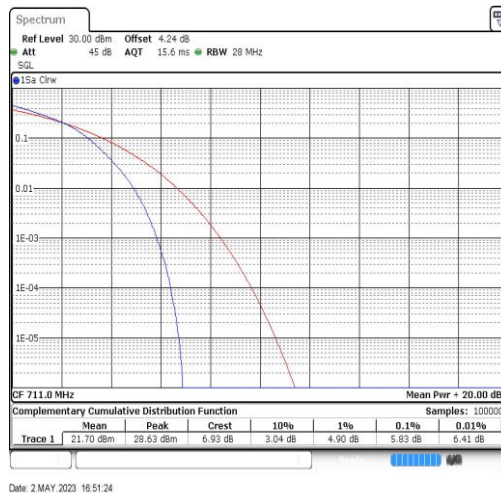
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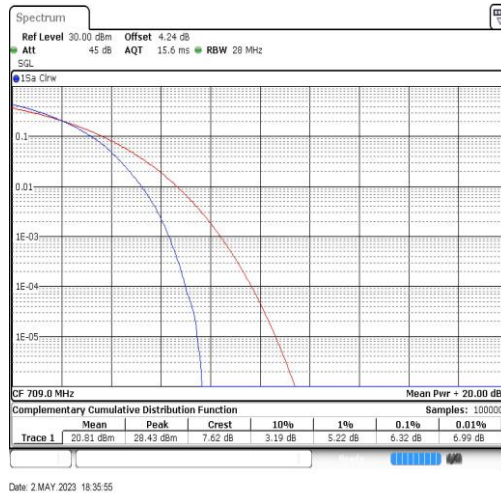
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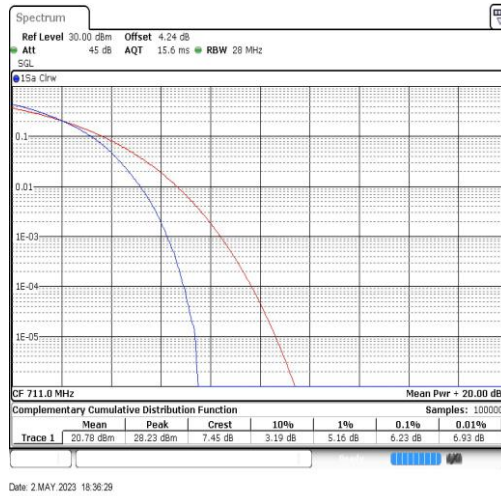
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## Modulation Characteristics

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | PASS   | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | PASS   | PASS    |
| Band17 | 10MHz     | 64QAM      | 23790   | 50RB#0           | PASS   | PASS    |



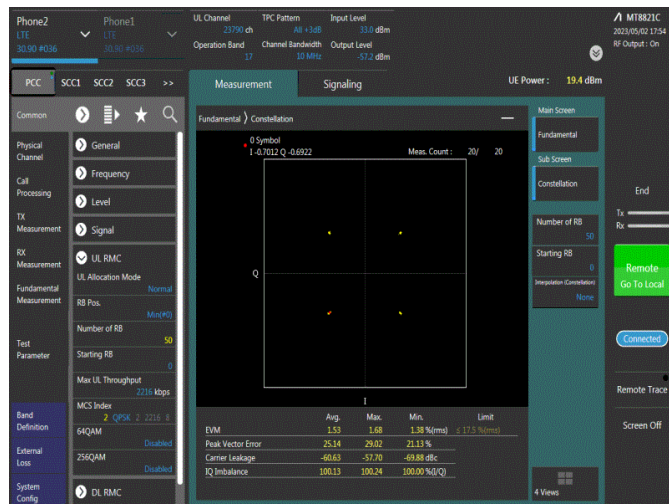
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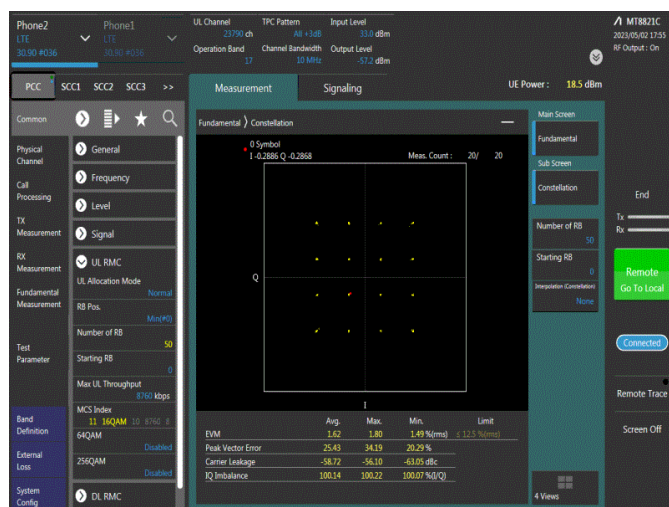
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## Test Graphs



Band17-10MHz-QPSK-23790-50RB#0



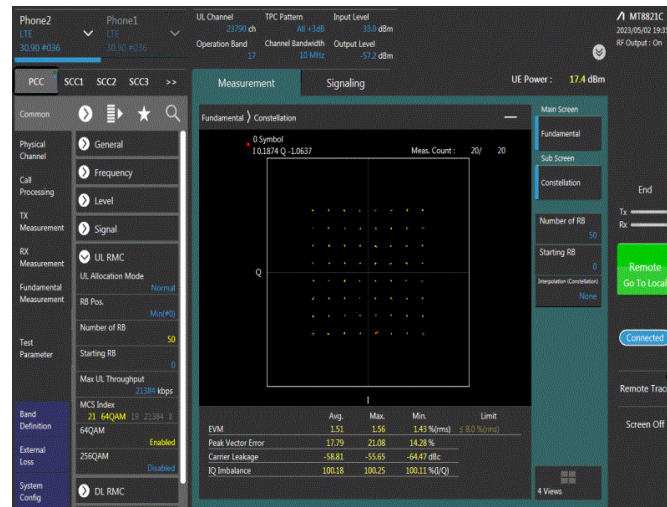
Band17-10MHz-16QAM-23790-50RB#0



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Band17-10MHz-64QAM-23790-50RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 4.466                    | 4.90                 | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 4.466                    | 4.90                 | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 4.476                    | 4.90                 | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 4.476                    | 4.94                 | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 4.466                    | 4.91                 | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 4.466                    | 4.93                 | PASS    |
| Band17 | 5MHz      | 64QAM      | 23755   | 25RB#0           | 4.476                    | 4.88                 | PASS    |
| Band17 | 5MHz      | 64QAM      | 23790   | 25RB#0           | 4.476                    | 4.91                 | PASS    |
| Band17 | 5MHz      | 64QAM      | 23825   | 25RB#0           | 4.476                    | 4.93                 | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 8.918                    | 9.70                 | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 8.952                    | 9.70                 | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 8.918                    | 9.70                 | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 8.918                    | 9.70                 | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 8.918                    | 9.67                 | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 8.918                    | 9.63                 | PASS    |
| Band17 | 10MHz     | 64QAM      | 23780   | 50RB#0           | 8.918                    | 9.80                 | PASS    |
| Band17 | 10MHz     | 64QAM      | 23790   | 50RB#0           | 8.918                    | 9.70                 | PASS    |
| Band17 | 10MHz     | 64QAM      | 23800   | 50RB#0           | 8.918                    | 9.70                 | PASS    |



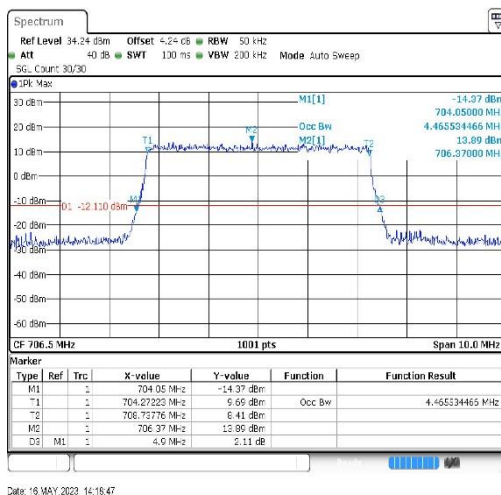
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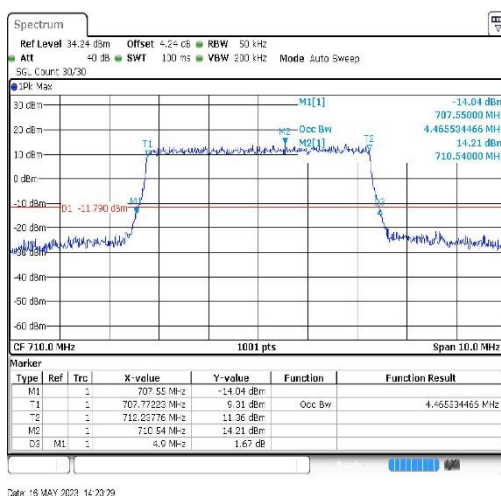
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## Test Graphs

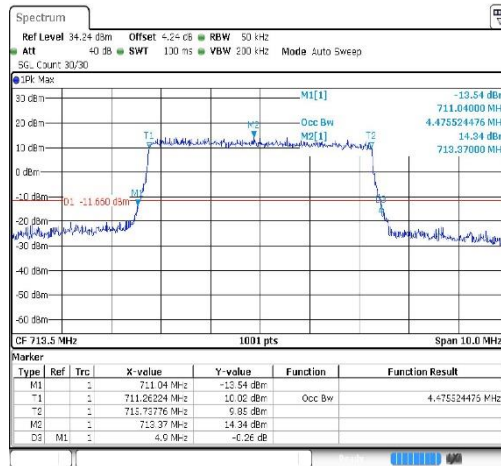


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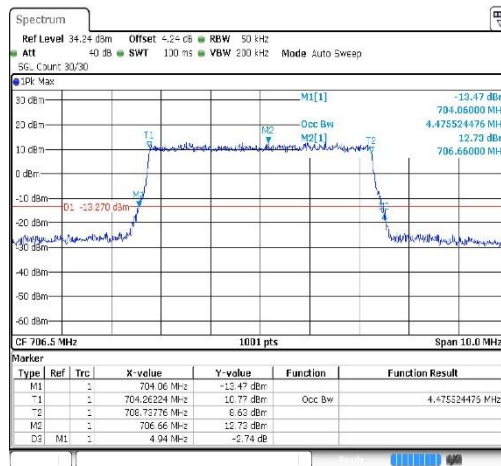


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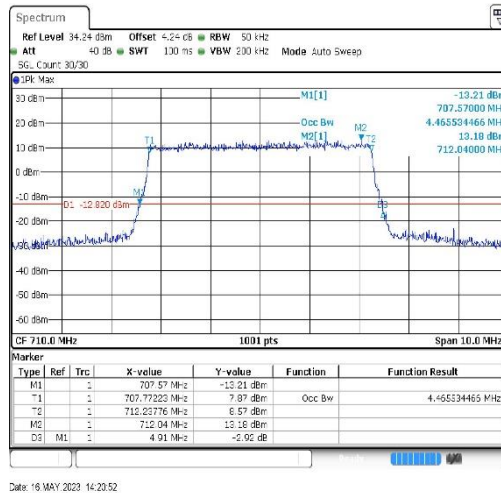
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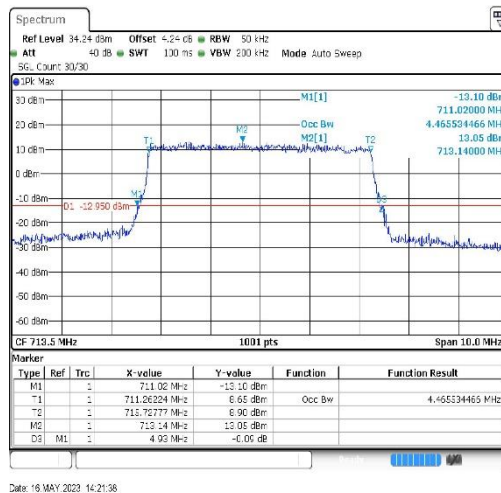
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Band17-5MHz-16QAM-23790-25RB#0-9.91

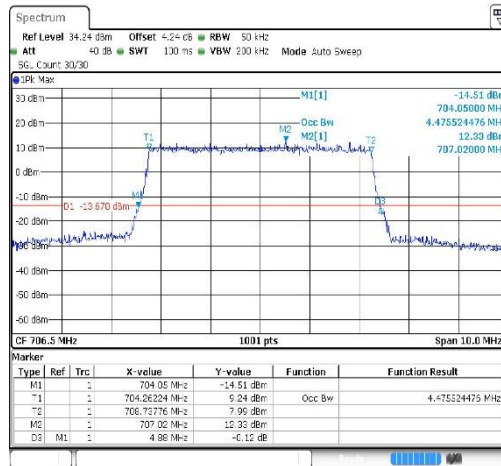


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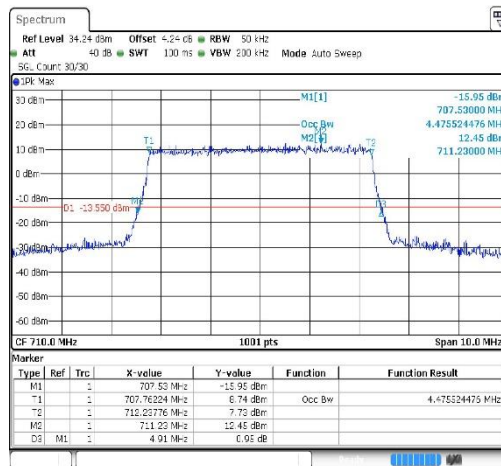


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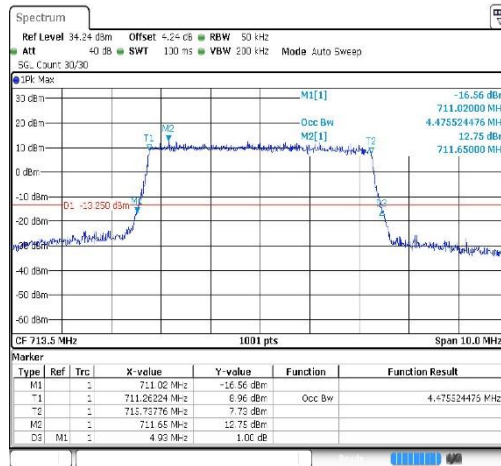
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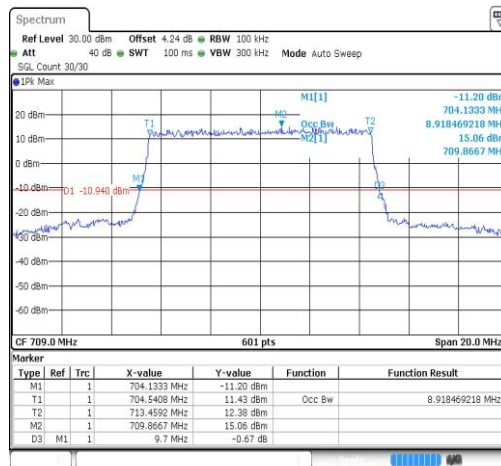
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Band17-5MHz-64QAM-23825-25RB#0-9.9



Band17-10MHz-QPSK-23780-50RB#0-8.918



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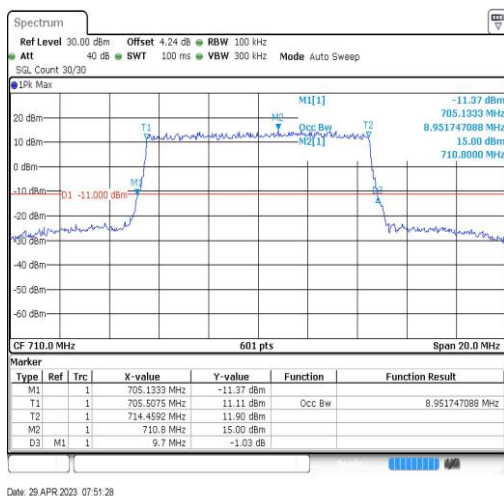
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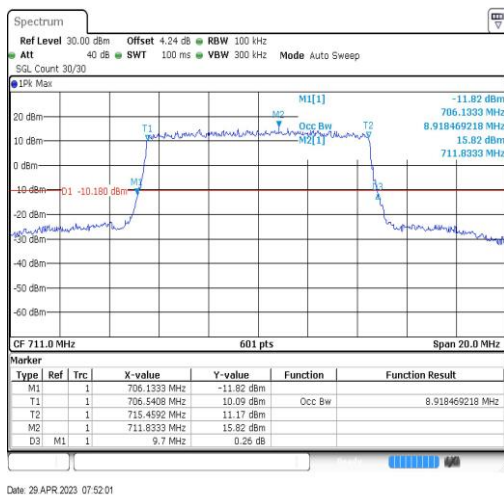
Report No.: ZEWM2303000343RG02

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Band17-10MHz-QPSK-23790-50RB#0-8.952



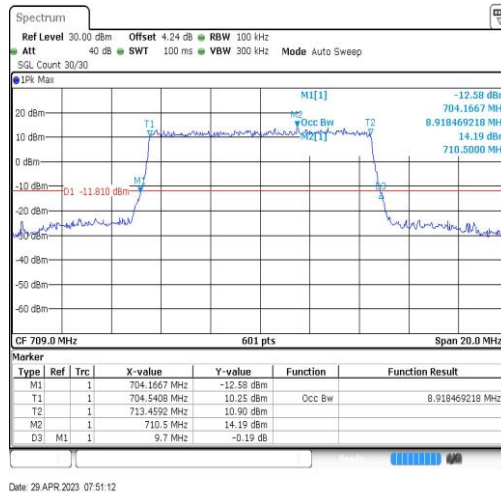
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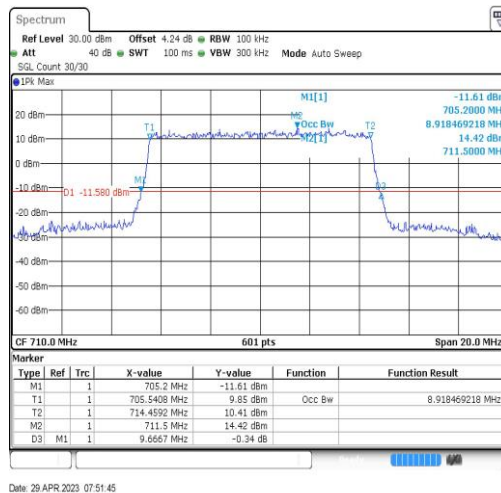
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Band17-10MHz-16QAM-23780-50RB#0-8.918



Band17-10MHz-16QAM-23790-50RB#0-8.918



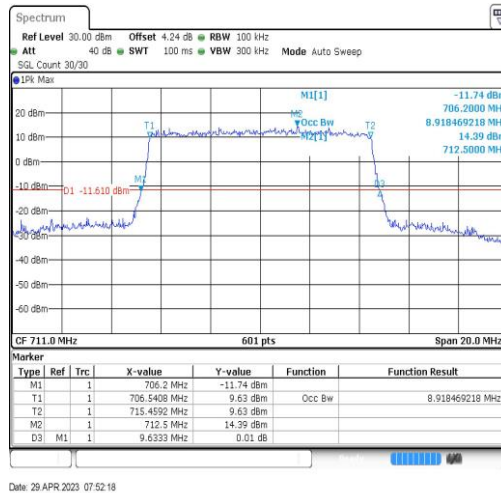
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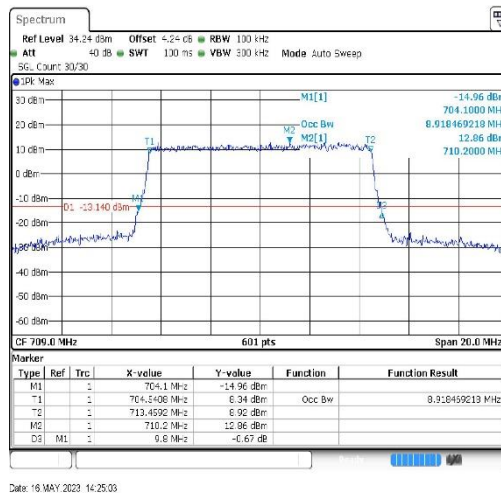
Report No.: ZEWM2303000343RG02

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Band17-10MHz-16QAM-23800-50RB#0-8.918



Band17-10MHz-64QAM-23780-50RB#0-8.952

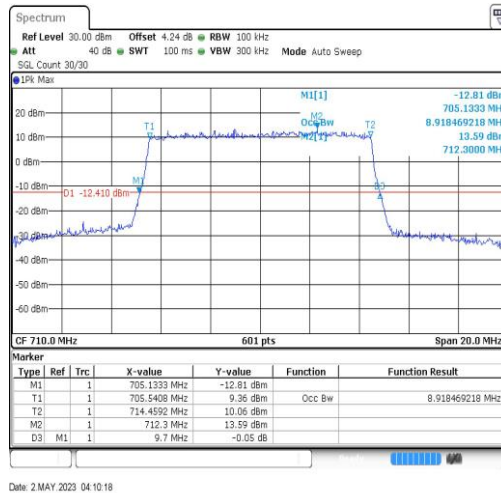


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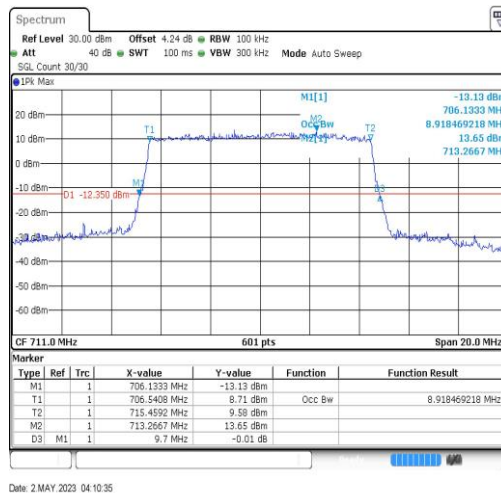
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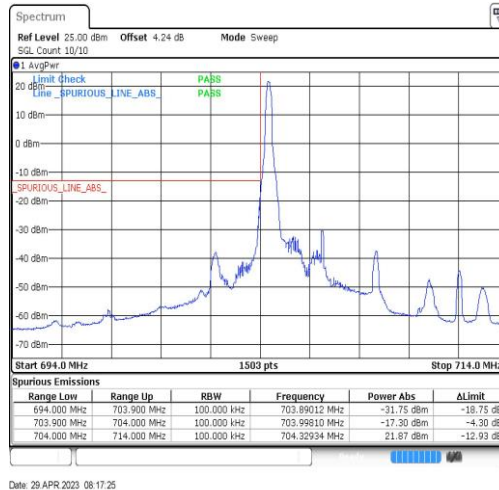
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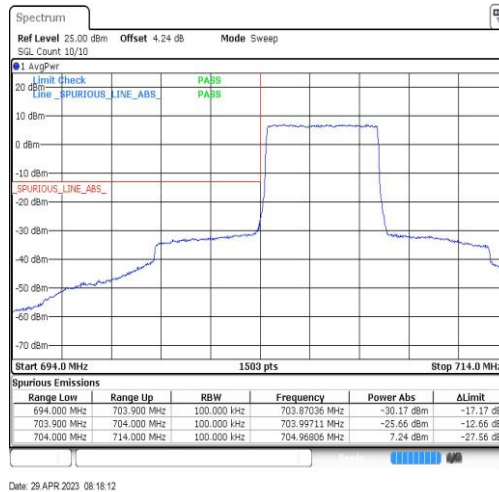


## Band Edge

## Test Graphs



Band17-5MHz-QPSK-23755-1RB#0



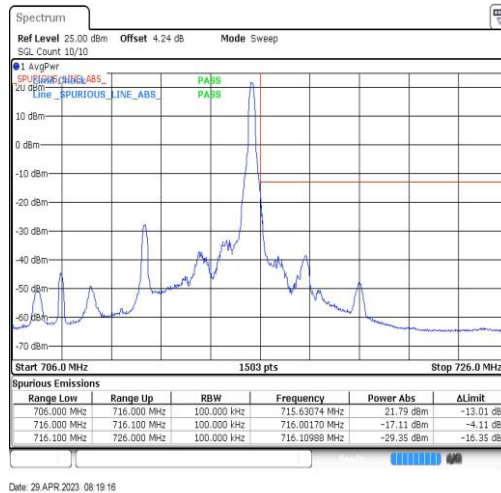
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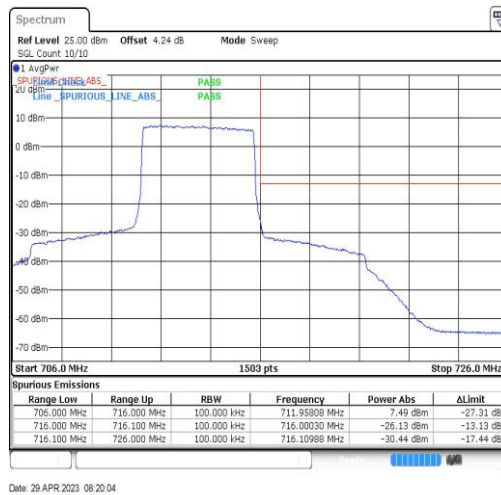
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Band17-5MHz-QPSK-23825-1RB#24

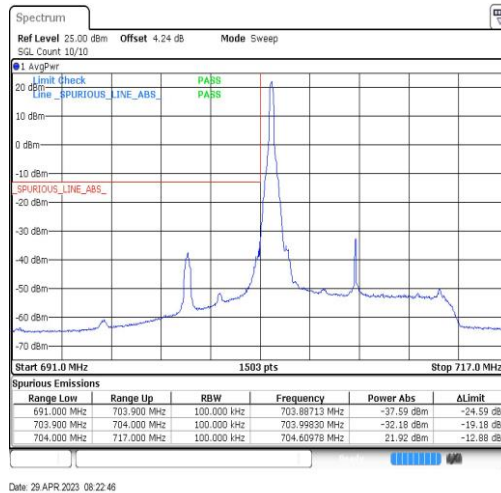


Band17-5MHz-QPSK-23825-25RB#0

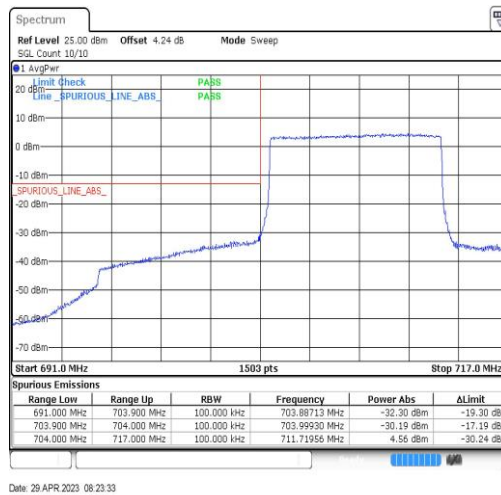


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Band17-10MHz-QPSK-23780-1RB#0



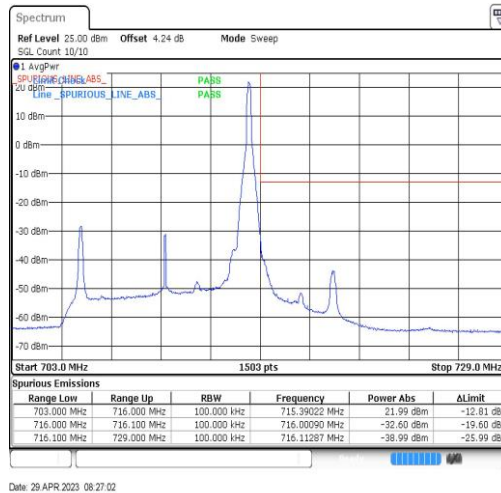
Band17-10MHz-QPSK-23780-50RB#0



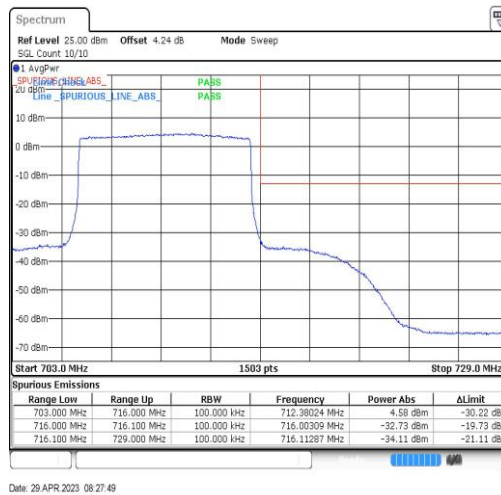
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Band17-10MHz-QPSK-23800-1RB#49



Band17-10MHz-QPSK-23800-50RB#0



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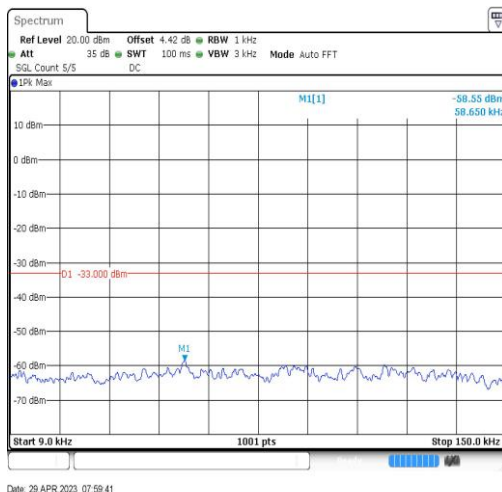
Report No.: ZEWM2303000343RG02

Rev.: 01

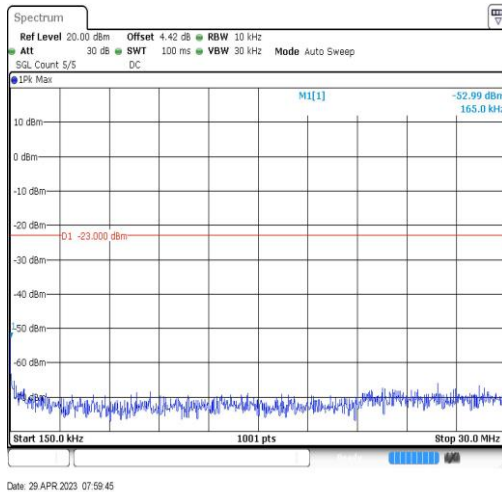
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## Conducted Spurious Emission

### Test Graphs



Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz

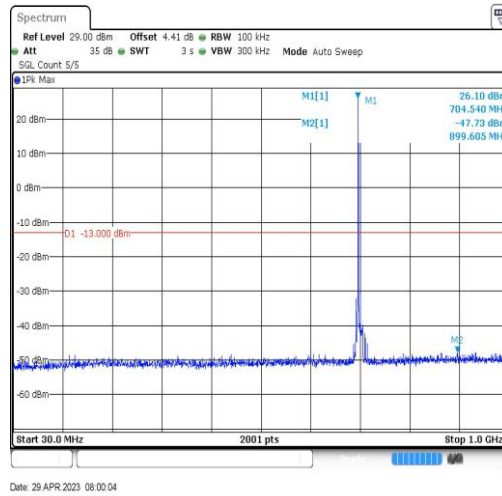


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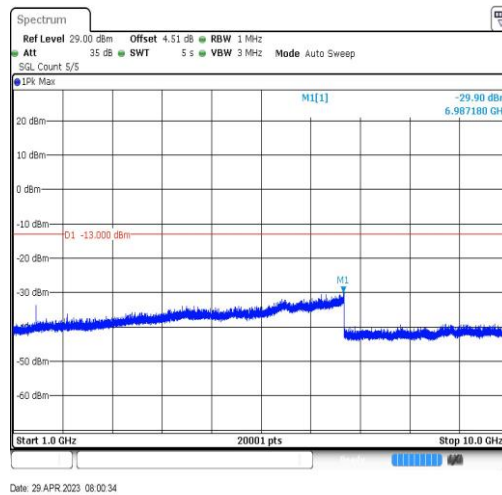
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz

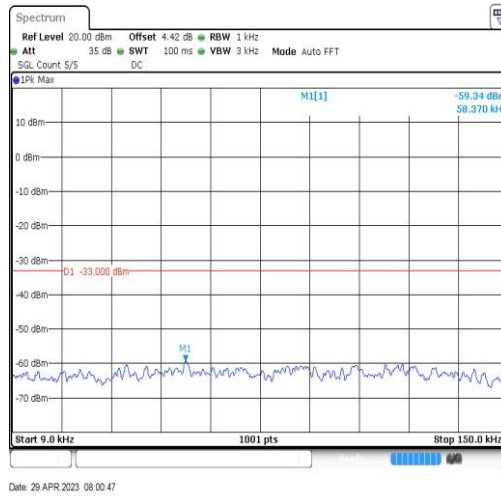


Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz

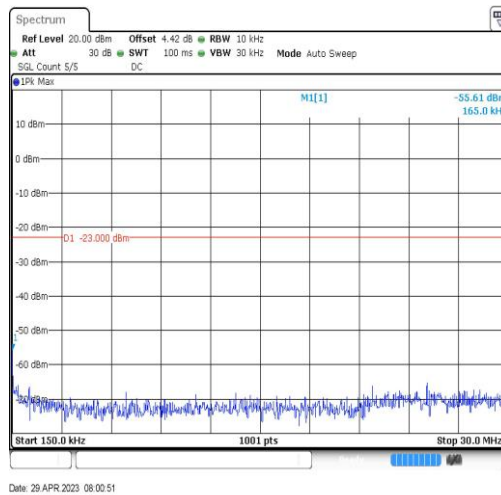


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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



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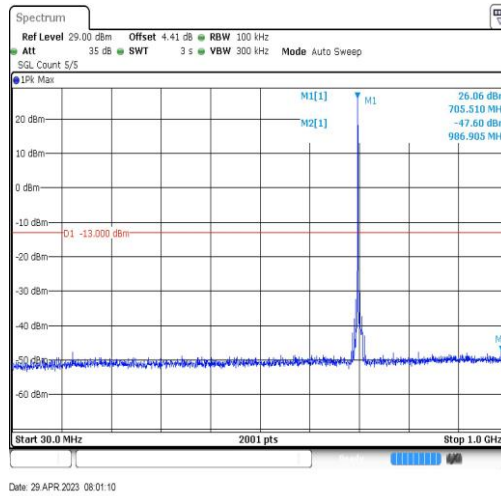
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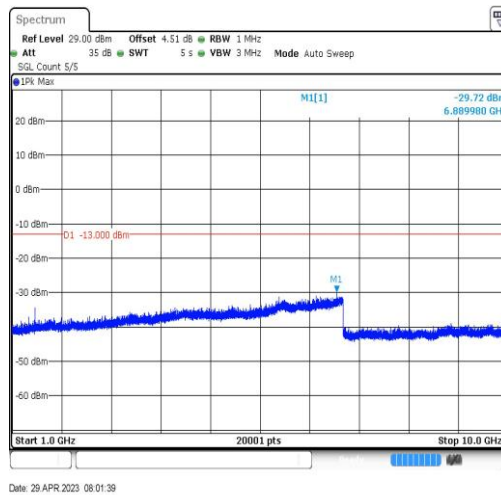
Report No.: ZEWM2303000343RG02

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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz

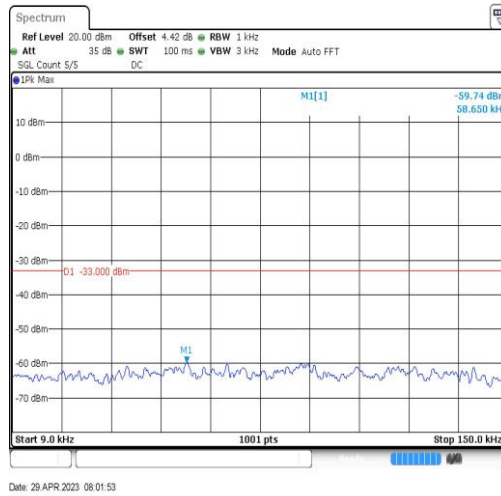


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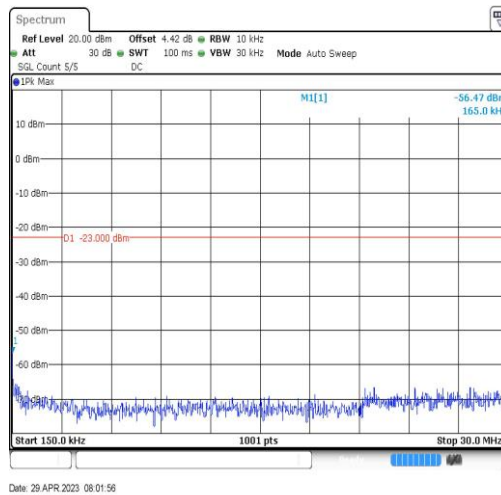
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



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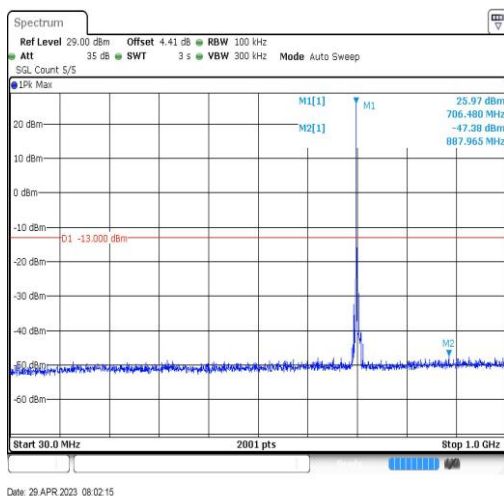
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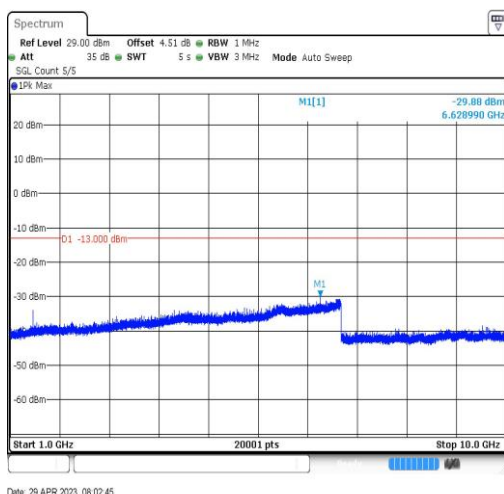
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE\_17 ANT 13 \_10MHz\_TM1

Test Channel = LCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1409.0511      | 53.79             | -47.41         | 24.97        | -63.91         | -13.00         | 50.91          | 146            | 258          | Horizontal |
| 2               | 2113.8892      | 51.18             | -46.89         | 26.72        | -64.25         | -13.00         | 51.25          | 169            | 21           | Horizontal |
| 3               | 3917.3959      | 48.57             | -44.19         | 29.77        | -61.11         | -13.00         | 48.11          | 264            | 360          | Horizontal |
| 4               | 5700.735       | 47.14             | -41.14         | 32.50        | -56.76         | -13.00         | 43.76          | 290            | 97           | Horizontal |
| 5               | 7411.6206      | 45.04             | -38.28         | 36.72        | -51.78         | -13.00         | 38.78          | 223            | 12           | Horizontal |
| 6               | 9889.7445      | 42.94             | -35.04         | 38.52        | -48.84         | -13.00         | 35.84          | 169            | 285          | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1409.0511      | 51.64             | -47.41         | 24.97        | -66.06         | -13.00         | 53.06          | 180            | 264          | Vertical |
| 2               | 2346.4183      | 48.09             | -46.63         | 27.56        | -66.24         | -13.00         | 53.24          | 158            | 10           | Vertical |
| 3               | 3199.86        | 47.97             | -44.60         | 28.40        | -63.49         | -13.00         | 50.49          | 232            | 199          | Vertical |
| 4               | 3937.6969      | 48.72             | -44.19         | 29.85        | -60.88         | -13.00         | 47.88          | 341            | 76           | Vertical |
| 5               | 5694.0847      | 47.16             | -41.16         | 32.50        | -56.76         | -13.00         | 43.76          | 386            | 177          | Vertical |
| 6               | 7444.5222      | 45.05             | -38.28         | 36.79        | -51.70         | -13.00         | 38.70          | 264            | 70           | Vertical |



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Test Band = LTE\_17 ANT 13 \_10MHz\_TM1

Test Channel = MCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1411.0514      | 55.21             | -47.42         | 24.99        | -62.48         | -13.00         | 49.48          | 169            | 274          | Horizontal |
| 2               | 2116.8896      | 50.15             | -46.89         | 26.70        | -65.30         | -13.00         | 52.30          | 236            | 22           | Horizontal |
| 3               | 3907.5954      | 48.72             | -44.20         | 29.73        | -61.01         | -13.00         | 48.01          | 233            | 269          | Horizontal |
| 4               | 5507.5254      | 47.14             | -41.82         | 32.37        | -57.57         | -13.00         | 44.57          | 336            | 204          | Horizontal |
| 5               | 7426.6713      | 45.29             | -38.28         | 36.75        | -51.50         | -13.00         | 38.50          | 328            | 183          | Horizontal |
| 6               | 9900.595       | 42.79             | -34.98         | 38.60        | -48.85         | -13.00         | 35.85          | 261            | 156          | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1411.0514      | 53.05             | -47.42         | 24.99        | -64.64         | -13.00         | 51.64          | 236            | 263          | Vertical |
| 2               | 2413.4267      | 49.02             | -46.62         | 27.45        | -65.41         | -13.00         | 52.41          | 216            | 194          | Vertical |
| 3               | 3895.6948      | 49.12             | -44.23         | 29.70        | -60.67         | -13.00         | 47.67          | 223            | 112          | Vertical |
| 4               | 5605.8803      | 47.07             | -41.42         | 32.59        | -57.02         | -13.00         | 44.02          | 100            | 246          | Vertical |
| 5               | 7481.6241      | 44.95             | -38.29         | 36.86        | -51.74         | -13.00         | 38.74          | 221            | 54           | Vertical |
| 6               | 9904.7952      | 42.96             | -35.09         | 38.60        | -48.79         | -13.00         | 35.79          | 264            | 128          | Vertical |



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Test Band = LTE\_17 ANT 13 \_10MHz\_TM1

Test Channel = HCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1369.2962      | 48.77             | -47.54         | 25.02        | -69.01         | -13.00         | 56.01          | 226            | 113          | Horizontal |
| 2               | 2362.9204      | 48.23             | -46.62         | 27.55        | -66.10         | -13.00         | 53.10          | 236            | 266          | Horizontal |
| 3               | 3163.4582      | 47.62             | -44.90         | 28.62        | -63.92         | -13.00         | 50.92          | 216            | 300          | Horizontal |
| 4               | 4418.6209      | 48.28             | -43.32         | 30.10        | -60.20         | -13.00         | 47.20          | 226            | 140          | Horizontal |
| 5               | 5662.5831      | 47.14             | -41.25         | 32.50        | -56.87         | -13.00         | 43.87          | 263            | 17           | Horizontal |
| 6               | 7420.021       | 45.00             | -38.28         | 36.74        | -51.80         | -13.00         | 38.80          | 219            | 129          | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1475.8095      | 48.68             | -47.56         | 25.09        | -69.05         | -13.00         | 56.05          | 387            | 282          | Vertical |
| 2               | 2410.4263      | 49.29             | -46.62         | 27.44        | -65.15         | -13.00         | 52.15          | 295            | 358          | Vertical |
| 3               | 3000.7         | 48.19             | -45.01         | 28.60        | -63.48         | -13.00         | 50.48          | 249            | 129          | Vertical |
| 4               | 3921.5961      | 48.38             | -44.19         | 29.79        | -61.28         | -13.00         | 48.28          | 261            | 272          | Vertical |
| 5               | 6084.0042      | 46.60             | -40.65         | 33.43        | -55.88         | -13.00         | 42.88          | 224            | 75           | Vertical |
| 6               | 7829.8915      | 44.73             | -37.77         | 36.72        | -51.58         | -13.00         | 38.58          | 186            | 64           | Vertical |



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Test Band = LTE\_17 ANT 31\_10MHz\_TM1

Test Channel = LCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1409.0511      | 50.16             | -47.41         | 24.97        | -67.54         | -13.00         | 54.54          | 238            | 2            | Horizontal |
| 2               | 2113.8892      | 49.08             | -46.89         | 26.72        | -66.35         | -13.00         | 53.35          | 322            | 5            | Horizontal |
| 3               | 3119.006       | 47.99             | -45.27         | 28.82        | -63.72         | -13.00         | 50.72          | 143            | 348          | Horizontal |
| 4               | 4506.1253      | 48.43             | -42.98         | 29.61        | -60.20         | -13.00         | 47.20          | 318            | 249          | Horizontal |
| 5               | 6219.811       | 46.84             | -40.79         | 33.38        | -55.83         | -13.00         | 42.83          | 155            | 333          | Horizontal |
| 6               | 7844.2422      | 44.82             | -37.71         | 36.78        | -51.37         | -13.00         | 38.37          | 147            | 91           | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1409.3012      | 49.72             | -47.41         | 24.97        | -67.98         | -13.00         | 54.98          | 245            | 27           | Vertical |
| 2               | 2201.9002      | 48.42             | -47.00         | 26.90        | -66.94         | -13.00         | 53.94          | 381            | 312          | Vertical |
| 3               | 3614.2807      | 48.97             | -44.37         | 29.01        | -61.65         | -13.00         | 48.65          | 223            | 202          | Vertical |
| 4               | 5344.4172      | 47.69             | -42.17         | 32.17        | -57.57         | -13.00         | 44.57          | 261            | 165          | Vertical |
| 5               | 7441.0221      | 45.00             | -38.28         | 36.78        | -51.76         | -13.00         | 38.76          | 157            | 70           | Vertical |
| 6               | 9910.7455      | 43.13             | -35.24         | 38.61        | -48.76         | -13.00         | 35.76          | 215            | 358          | Vertical |



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Test Band = LTE\_17 ANT 31\_10MHz\_TM1

Test Channel = MCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1411.3014      | 50.91             | -47.42         | 24.99        | -66.78         | -13.00         | 53.78          | 256            | 266          | Horizontal |
| 2               | 2116.8896      | 48.91             | -46.89         | 26.70        | -66.54         | -13.00         | 53.54          | 266            | 5            | Horizontal |
| 3               | 3218.7609      | 47.73             | -44.74         | 28.48        | -63.79         | -13.00         | 50.79          | 215            | 32           | Horizontal |
| 4               | 5182.3591      | 47.51             | -42.54         | 31.86        | -58.43         | -13.00         | 45.43          | 385            | 0            | Horizontal |
| 5               | 7377.6689      | 45.38             | -38.41         | 36.61        | -51.68         | -13.00         | 38.68          | 294            | 6            | Horizontal |
| 6               | 9885.5443      | 43.08             | -35.07         | 38.48        | -48.77         | -13.00         | 35.77          | 211            | 296          | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1675.3344      | 48.55             | -47.47         | 25.30        | -68.88         | -13.00         | 55.88          | 131            | 347          | Vertical |
| 2               | 2347.4184      | 47.90             | -46.63         | 27.57        | -66.42         | -13.00         | 53.42          | 278            | 141          | Vertical |
| 3               | 3704.2352      | 48.52             | -44.53         | 29.33        | -61.94         | -13.00         | 48.94          | 194            | 102          | Vertical |
| 4               | 5692.6846      | 47.55             | -41.16         | 32.50        | -56.37         | -13.00         | 43.37          | 336            | 358          | Vertical |
| 5               | 7443.1222      | 45.07             | -38.28         | 36.79        | -51.68         | -13.00         | 38.68          | 217            | 3            | Vertical |
| 6               | 9911.4456      | 42.87             | -35.26         | 38.61        | -49.04         | -13.00         | 36.04          | 266            | 76           | Vertical |



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Test Band = LTE\_17 ANT 31\_10MHz\_TM1

Test Channel = HCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1413.0516      | 50.10             | -47.42         | 25.00        | -67.58         | -13.00         | 54.58          | 316            | 2            | Horizontal |
| 2               | 2119.64        | 49.00             | -46.90         | 26.68        | -66.48         | -13.00         | 53.48          | 106            | 31           | Horizontal |
| 3               | 2412.6766      | 50.57             | -46.62         | 27.45        | -63.86         | -13.00         | 50.86          | 191            | 193          | Horizontal |
| 4               | 3644.0322      | 48.49             | -44.42         | 29.25        | -61.94         | -13.00         | 48.94          | 100            | 117          | Horizontal |
| 5               | 5116.2058      | 48.29             | -42.52         | 31.60        | -57.89         | -13.00         | 44.89          | 182            | 54           | Horizontal |
| 6               | 7750.7875      | 44.92             | -37.73         | 36.40        | -51.67         | -13.00         | 38.67          | 233            | 43           | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1454.0568      | 48.58             | -47.51         | 25.27        | -68.92         | -13.00         | 55.92          | 216            | 157          | Vertical |
| 2               | 2069.1336      | 48.25             | -46.89         | 26.49        | -67.41         | -13.00         | 54.41          | 172            | 199          | Vertical |
| 3               | 3056.0028      | 47.75             | -45.25         | 28.81        | -63.95         | -13.00         | 50.95          | 264            | 328          | Vertical |
| 4               | 4698.6349      | 47.79             | -42.92         | 30.59        | -59.80         | -13.00         | 46.80          | 233            | 328          | Vertical |
| 5               | 7360.518       | 45.58             | -38.52         | 36.54        | -51.66         | -13.00         | 38.66          | 210            | 127          | Vertical |
| 6               | 9915.6458      | 43.21             | -35.37         | 38.62        | -48.80         | -13.00         | 35.80          | 222            | 159          | 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

| Voltage |           |            |         |              |               |                  |                |                 |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band17  | 10MHz     | QPSK       | 23790   | 50RB#0       | VN            | NT               | 0.80           | 0.001127        | PASS    |
| Band17  | 10MHz     | QPSK       | 23790   | 50RB#0       | VL            | NT               | 0.20           | 0.000282        | PASS    |
| Band17  | 10MHz     | QPSK       | 23790   | 50RB#0       | VH            | NT               | -0.80          | -0.001127       | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -30              | -0.30          | -0.000423       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -20              | 1.90           | 0.002676        | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -10              | 0.20           | 0.000282        | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 0                | -0.60          | -0.000845       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 10               | 0.20           | 0.000282        | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 20               | 0.40           | 0.000563        | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 30               | -0.30          | -0.000423       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 40               | -1.40          | -0.001972       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 50               | 0.50           | 0.000704        | PASS    |

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