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# Appendix B.8

## LTE Band 17



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**Effective (Isotropic) Radiated Power Output Data****Test Result**

ANT1

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 23.68       | 19.53    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#12           | 23.59       | 19.44    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#24           | 23.7        | 19.55    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 22.74       | 18.59    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 23.74       | 19.59    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#12           | 23.72       | 19.57    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#24           | 23.7        | 19.55    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 22.72       | 18.57    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 23.67       | 19.52    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#12           | 23.69       | 19.54    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#24           | 23.77       | 19.62    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 22.69       | 18.54    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 22.77       | 18.62    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#12           | 22.8        | 18.65    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#24           | 22.73       | 18.58    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 21.72       | 17.57    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 22.75       | 18.6     | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#12           | 22.77       | 18.62    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#24           | 22.76       | 18.61    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 21.72       | 17.57    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 22.75       | 18.6     | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#12           | 22.78       | 18.63    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#24           | 22.74       | 18.59    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 21.76       | 17.61    | 34.77      | PASS    |
| Band17 | 5MHz      | 64QAM      | 23755   | 1RB#0            | 21.72       | 17.57    | 34.77      | PASS    |
| Band17 | 5MHz      | 64QAM      | 23755   | 1RB#12           | 21.76       | 17.61    | 34.77      | PASS    |
| Band17 | 5MHz      | 64QAM      | 23755   | 1RB#24           | 21.74       | 17.59    | 34.77      | PASS    |



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|        |       |        |       |        |       |       |       |      |
|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band17 | 5MHz  | 64QAM  | 23755 | 25RB#0 | 20.67 | 16.52 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23790 | 1RB#0  | 21.74 | 17.59 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23790 | 1RB#12 | 21.75 | 17.6  | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23790 | 1RB#24 | 21.8  | 17.65 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23790 | 25RB#0 | 20.72 | 16.57 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23825 | 1RB#0  | 21.79 | 17.64 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23825 | 1RB#12 | 21.8  | 17.65 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23825 | 1RB#24 | 21.79 | 17.64 | 34.77 | PASS |
| Band17 | 5MHz  | 64QAM  | 23825 | 25RB#0 | 20.72 | 16.57 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23755 | 1RB#0  | 18.76 | 14.61 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23755 | 1RB#12 | 18.72 | 14.57 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23755 | 1RB#24 | 18.71 | 14.56 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23755 | 25RB#0 | 18.65 | 14.5  | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23790 | 1RB#0  | 18.72 | 14.57 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23790 | 1RB#12 | 18.77 | 14.62 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23790 | 1RB#24 | 18.78 | 14.63 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23790 | 25RB#0 | 18.63 | 14.48 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23825 | 1RB#0  | 18.76 | 14.61 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23825 | 1RB#12 | 18.65 | 14.5  | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23825 | 1RB#24 | 18.8  | 14.65 | 34.77 | PASS |
| Band17 | 5MHz  | 256QAM | 23825 | 25RB#0 | 18.65 | 14.5  | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23780 | 1RB#0  | 23.7  | 19.55 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23780 | 1RB#24 | 23.77 | 19.62 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23780 | 1RB#49 | 23.72 | 19.57 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23780 | 50RB#0 | 22.78 | 18.63 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23790 | 1RB#0  | 23.82 | 19.67 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23790 | 1RB#24 | 23.74 | 19.59 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23790 | 1RB#49 | 23.74 | 19.59 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23790 | 50RB#0 | 22.79 | 18.64 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23800 | 1RB#0  | 23.72 | 19.57 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23800 | 1RB#24 | 23.78 | 19.63 | 34.77 | PASS |
| Band17 | 10MHz | QPSK   | 23800 | 1RB#49 | 23.75 | 19.6  | 34.77 | PASS |



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| Band17 | 10MHz | QPSK   | 23800 | 50RB#0 | 22.77 | 18.62 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23780 | 1RB#0  | 22.78 | 18.63 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23780 | 1RB#24 | 22.77 | 18.62 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23780 | 1RB#49 | 22.73 | 18.58 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23780 | 50RB#0 | 21.75 | 17.6  | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23790 | 1RB#0  | 22.73 | 18.58 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23790 | 1RB#24 | 22.76 | 18.61 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23790 | 1RB#49 | 22.69 | 18.54 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23790 | 50RB#0 | 21.73 | 17.58 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23800 | 1RB#0  | 22.73 | 18.58 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23800 | 1RB#24 | 22.71 | 18.56 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23800 | 1RB#49 | 22.74 | 18.59 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM  | 23800 | 50RB#0 | 21.73 | 17.58 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23780 | 1RB#0  | 21.78 | 17.63 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23780 | 1RB#24 | 21.71 | 17.56 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23780 | 1RB#49 | 21.77 | 17.62 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23780 | 50RB#0 | 20.71 | 16.56 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23790 | 1RB#0  | 21.74 | 17.59 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23790 | 1RB#24 | 21.63 | 17.48 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23790 | 1RB#49 | 21.76 | 17.61 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23790 | 50RB#0 | 20.64 | 16.49 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23800 | 1RB#0  | 21.77 | 17.62 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23800 | 1RB#24 | 21.78 | 17.63 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23800 | 1RB#49 | 21.74 | 17.59 | 34.77 | PASS |
| Band17 | 10MHz | 64QAM  | 23800 | 50RB#0 | 20.69 | 16.54 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23780 | 1RB#0  | 18.75 | 14.6  | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23780 | 1RB#24 | 18.62 | 14.47 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23780 | 1RB#49 | 18.71 | 14.56 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23780 | 50RB#0 | 18.61 | 14.46 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23790 | 1RB#0  | 18.73 | 14.58 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23790 | 1RB#24 | 18.77 | 14.62 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23790 | 1RB#49 | 18.71 | 14.56 | 34.77 | PASS |



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| Band17 | 10MHz | 256QAM | 23790 | 50RB#0 | 18.65 | 14.5  | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23800 | 1RB#0  | 18.79 | 14.64 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23800 | 1RB#24 | 18.77 | 14.62 | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23800 | 1RB#49 | 18.75 | 14.6  | 34.77 | PASS |
| Band17 | 10MHz | 256QAM | 23800 | 50RB#0 | 18.7  | 14.55 | 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           | 4.82       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 5.20       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 5.18       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 5.46       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 5.52       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 5.54       | 13        | PASS    |
| Band17 | 10MHz     | 64QAM      | 23780   | 50RB#0           | 6.00       | 13        | PASS    |
| Band17 | 10MHz     | 64QAM      | 23790   | 50RB#0           | 6.00       | 13        | PASS    |
| Band17 | 10MHz     | 64QAM      | 23800   | 50RB#0           | 5.94       | 13        | PASS    |
| Band17 | 10MHz     | 256QAM     | 23780   | 50RB#0           | 6.46       | 13        | PASS    |
| Band17 | 10MHz     | 256QAM     | 23790   | 50RB#0           | 6.38       | 13        | PASS    |
| Band17 | 10MHz     | 256QAM     | 23800   | 50RB#0           | 6.44       | 13        | PASS    |



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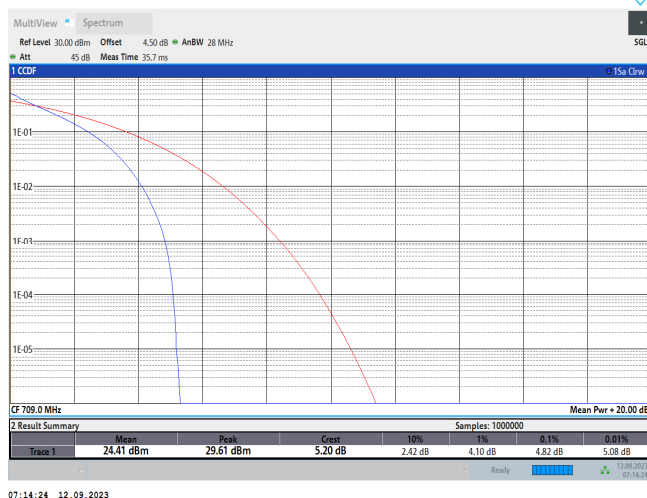
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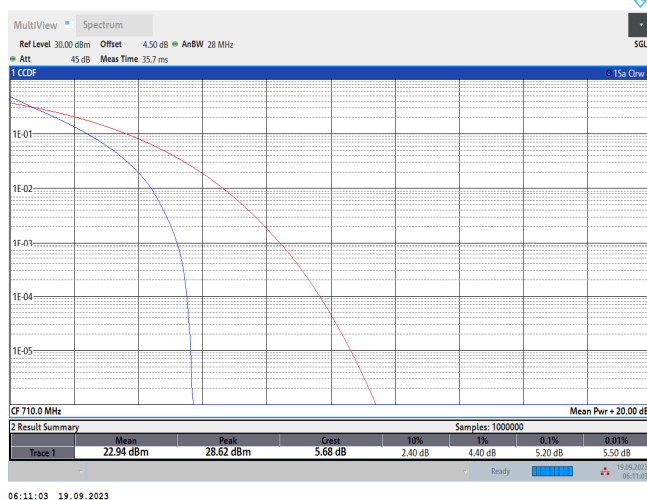
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### Test Graphs

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



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



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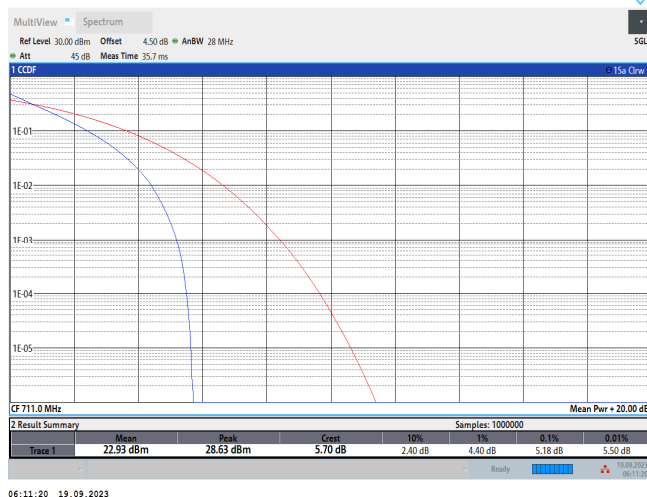
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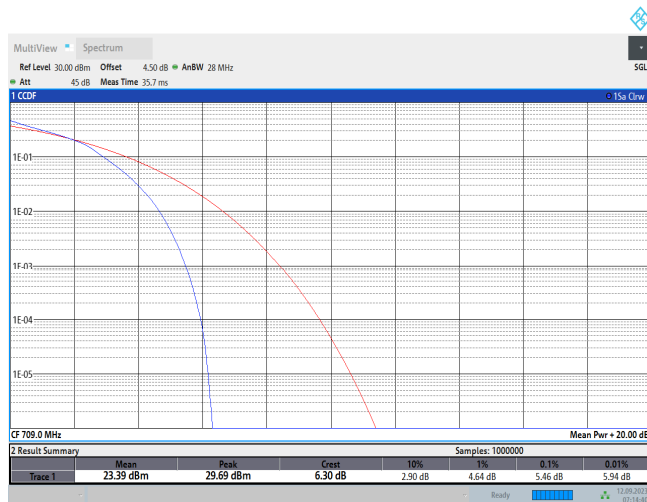
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### Band17-10MHz-QPSK-23800-50RB#0



06:11:20 19.09.2023

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



07:14:41 12.09.2023



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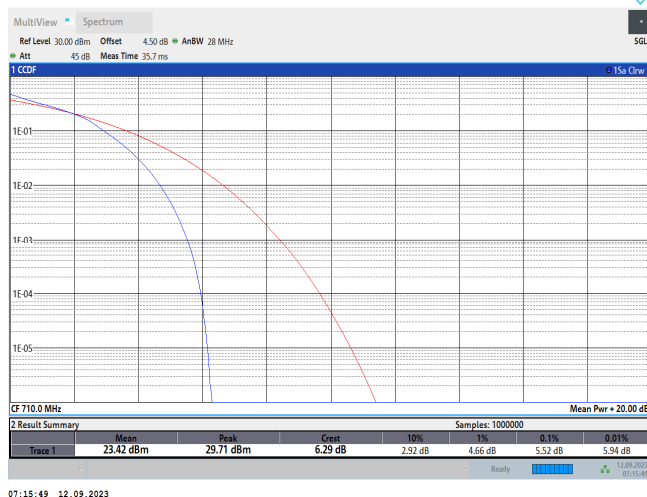
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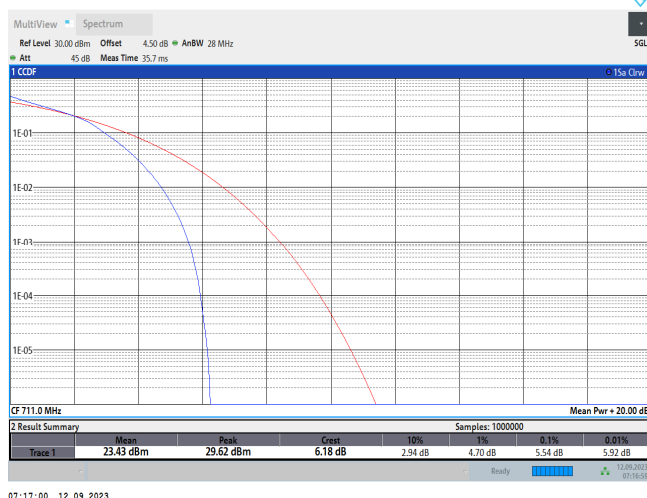
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### Band17-10MHz-16QAM-23790-50RB#0



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



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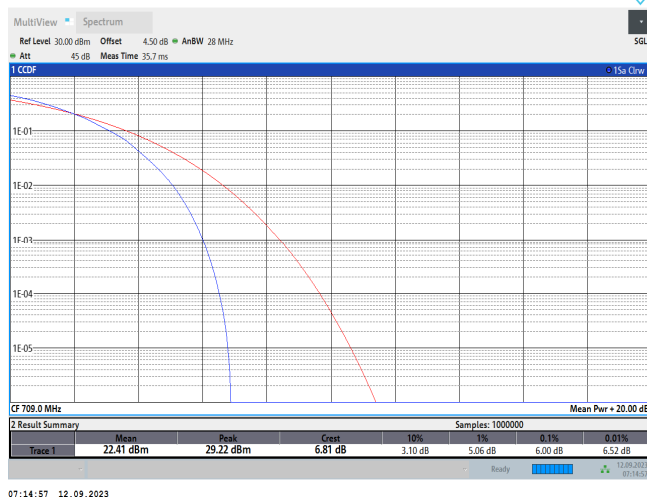
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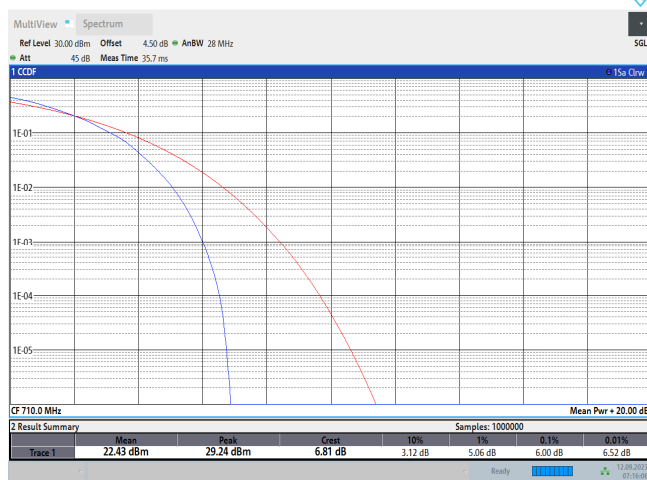
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### Band17-10MHz-64QAM-23780-50RB#0



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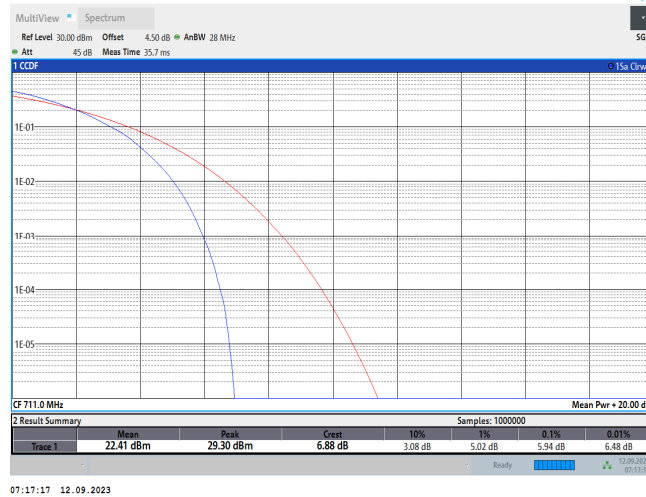
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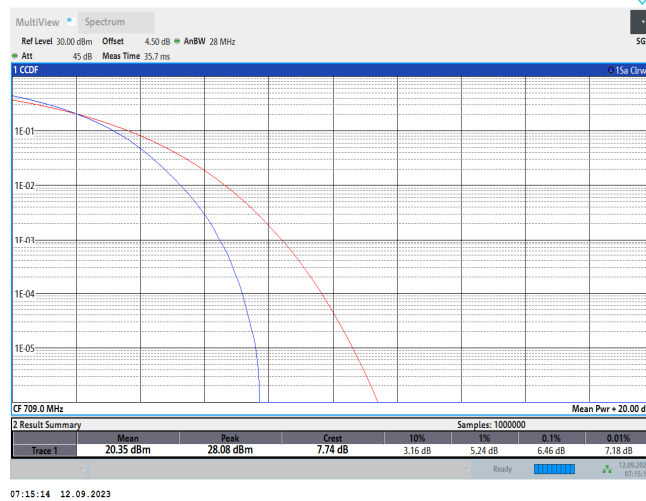
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### Band17-10MHz-64QAM-23800-50RB#0



### Band17-10MHz-256QAM-23780-50RB#0



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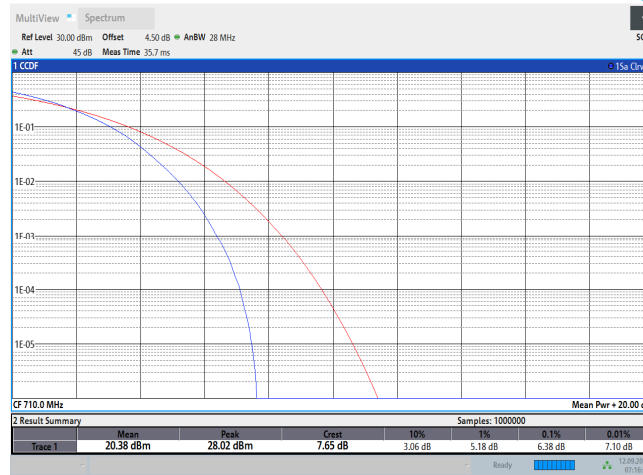
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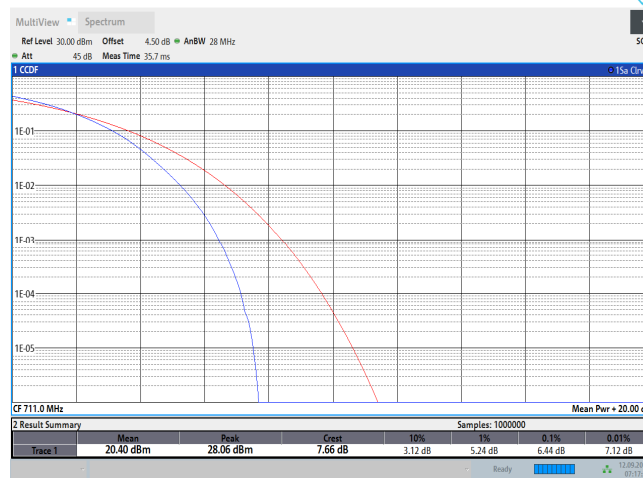
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### Band17-10MHz-256QAM-23790-50RB#0



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### Band17-10MHz-256QAM-23800-50RB#0



07:17:33 12.09.2023



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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       | 23790   | 25RB#0           | 4.466                    | 4.87                 | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 4.463                    | 4.85                 | PASS    |
| Band17 | 5MHz      | 64QAM      | 23790   | 25RB#0           | 4.473                    | 4.86                 | PASS    |
| Band17 | 5MHz      | 256QAM     | 23790   | 25RB#0           | 4.466                    | 4.85                 | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 8.935                    | 9.67                 | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 8.926                    | 9.70                 | PASS    |
| Band17 | 10MHz     | 64QAM      | 23790   | 50RB#0           | 8.95                     | 9.80                 | PASS    |
| Band17 | 10MHz     | 256QAM     | 23790   | 50RB#0           | 8.934                    | 9.67                 | PASS    |



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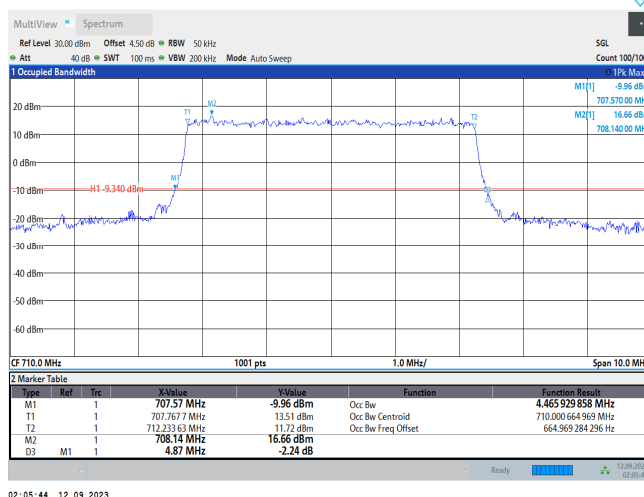
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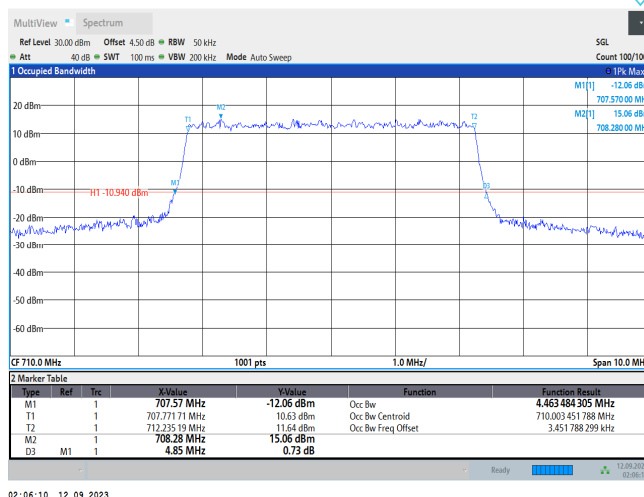
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### Test Graphs

#### Band17-5MHz-QPSK-23790-25RB#0



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



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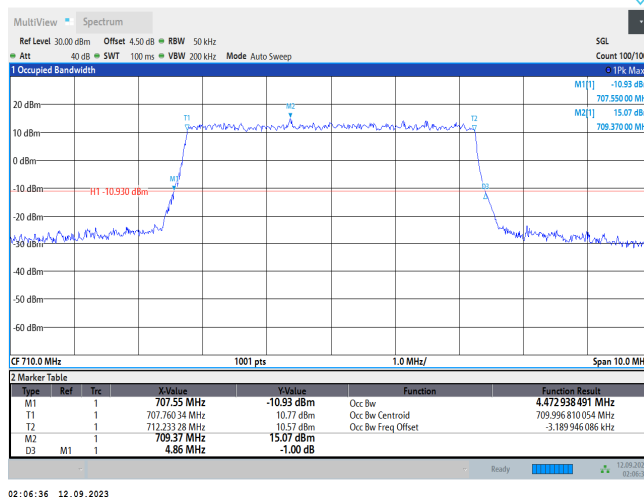
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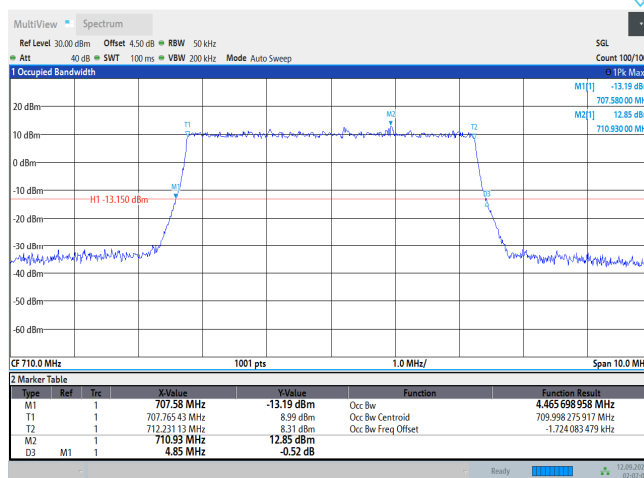
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### Band17-5MHz-64QAM-23790-25RB#0



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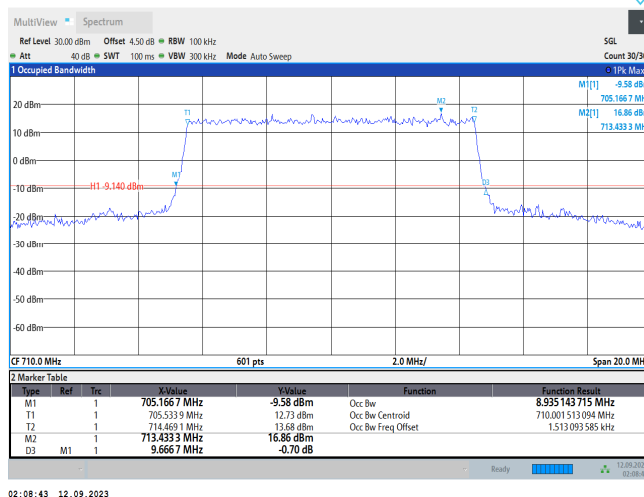
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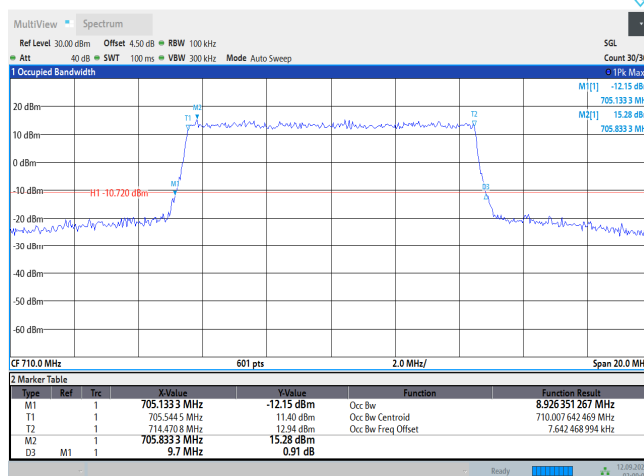
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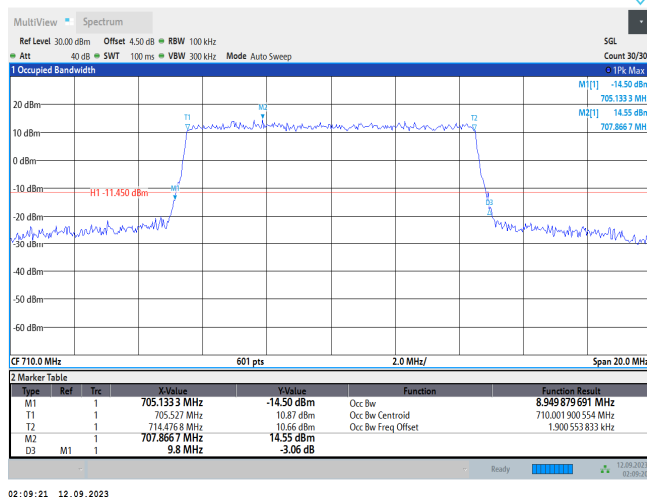
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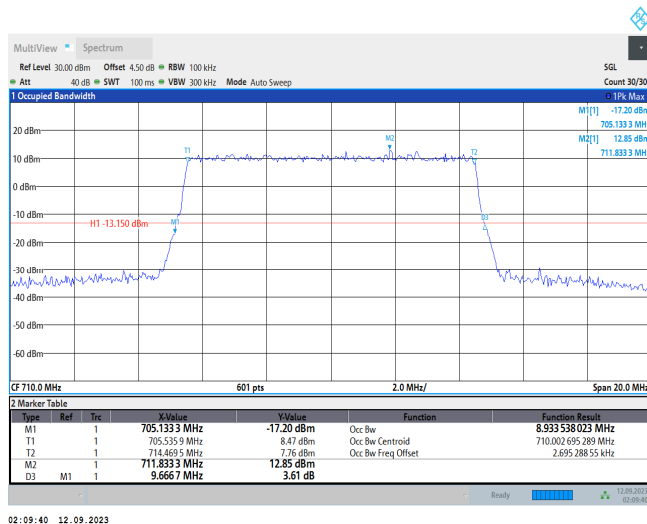
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### Band17-10MHz-256QAM-23790-50RB#0



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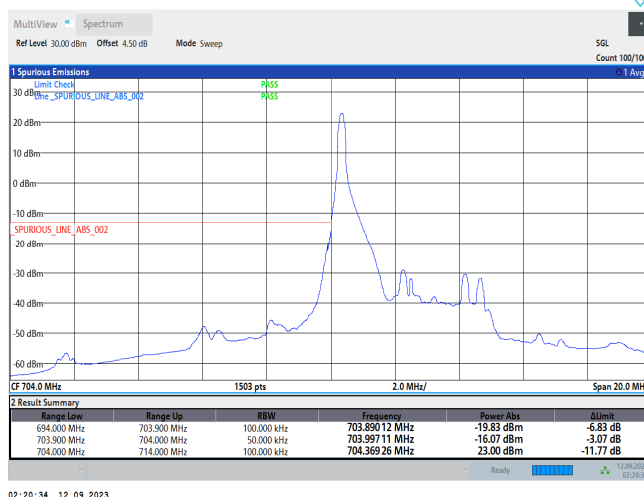
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### Band Edge

### Test Graphs

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



#### Band17-5MHz-QPSK-23755-25RB#0



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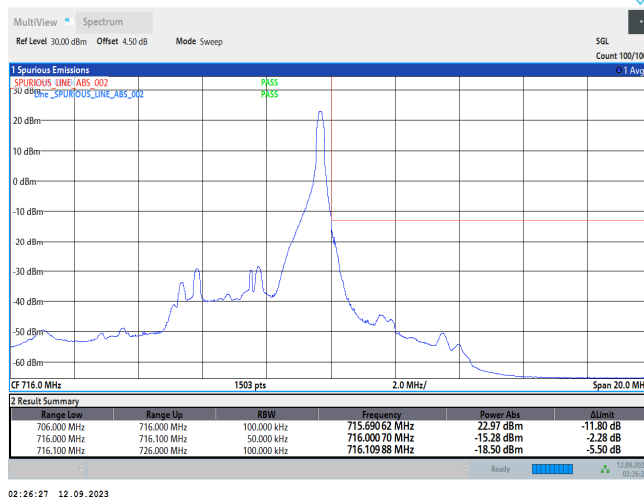
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### Band17-5MHz-QPSK-23825-1RB#24



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



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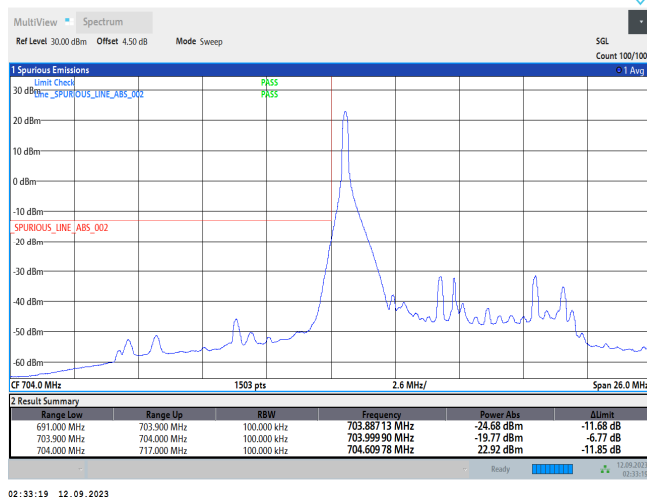
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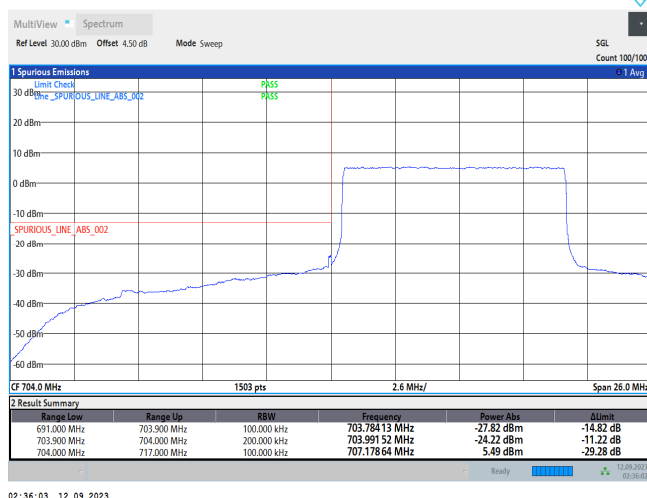
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### Band17-10MHz-QPSK-23780-1RB#0



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



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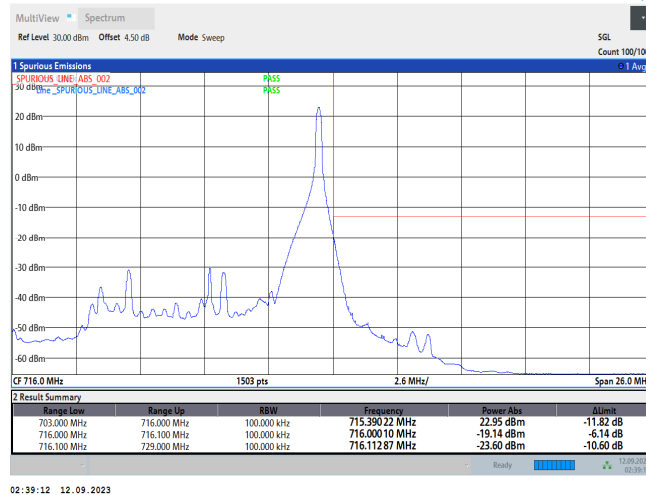
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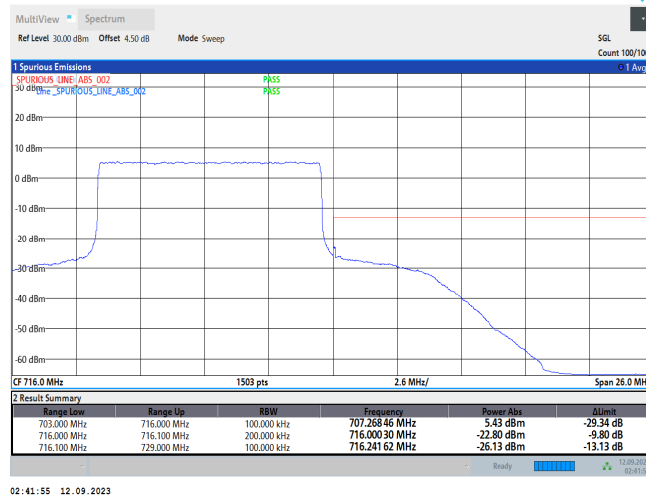
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### Band17-10MHz-QPSK-23800-1RB#49



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



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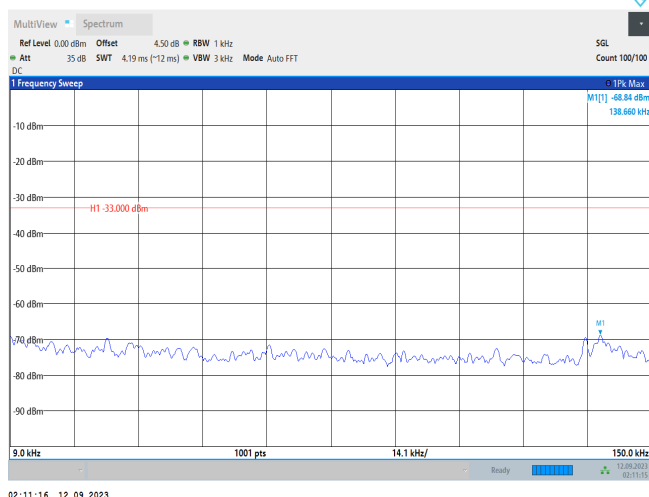
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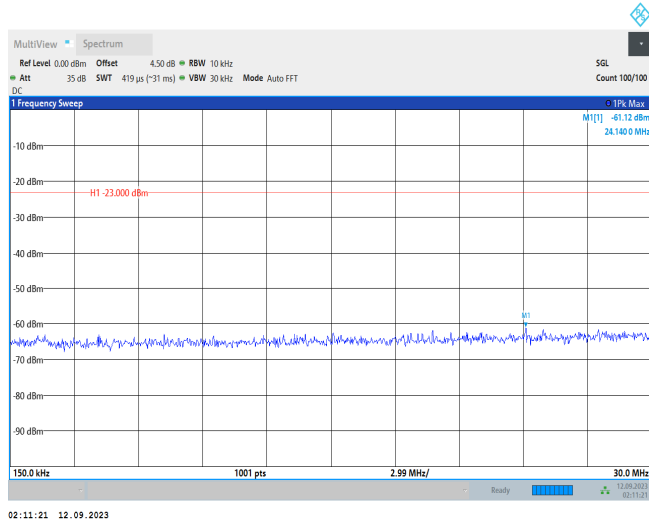
## Conducted Spurious Emission

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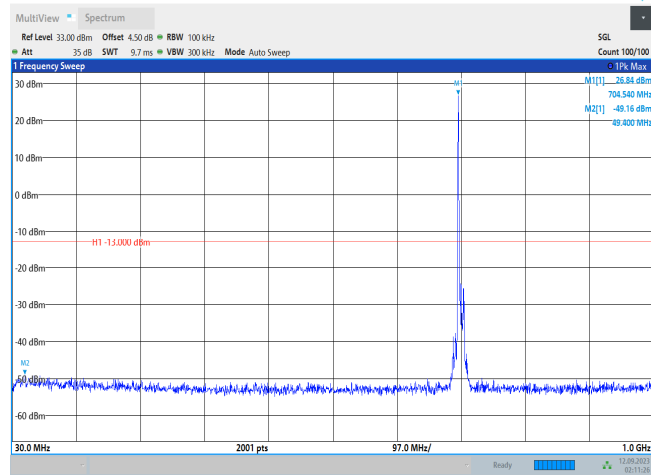
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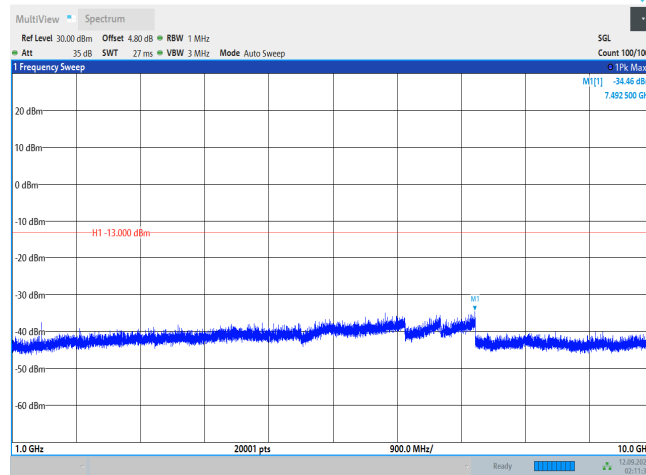
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### Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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



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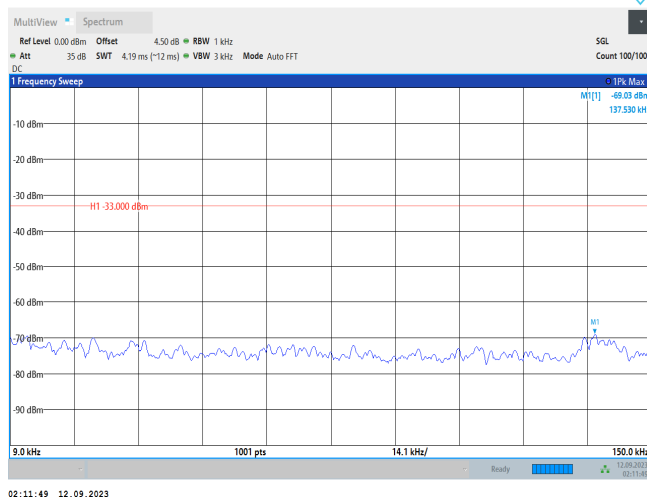
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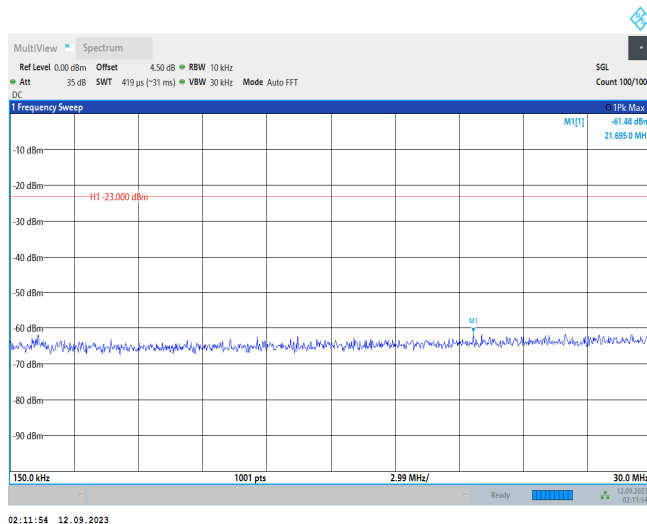
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### Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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



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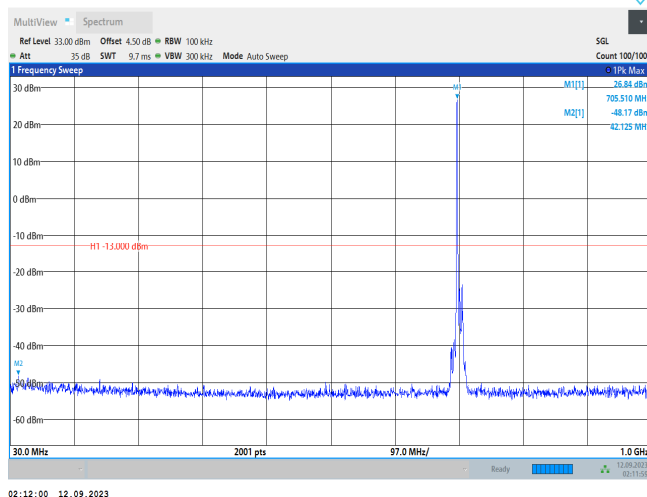
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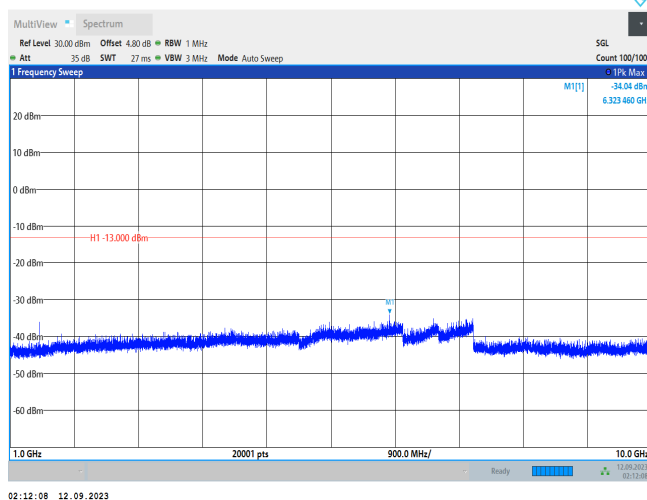
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### Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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



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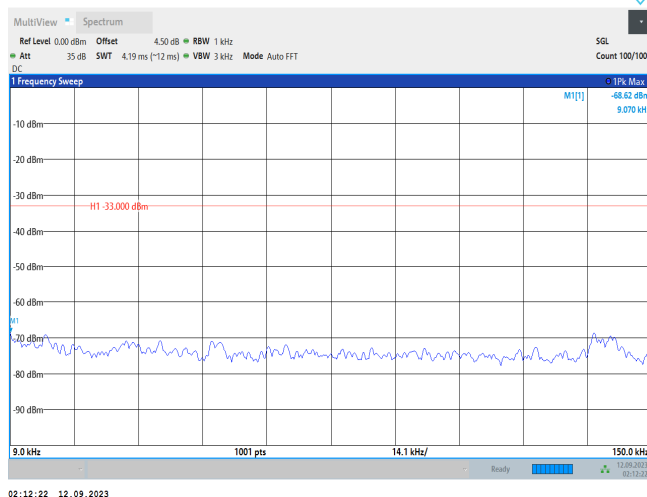
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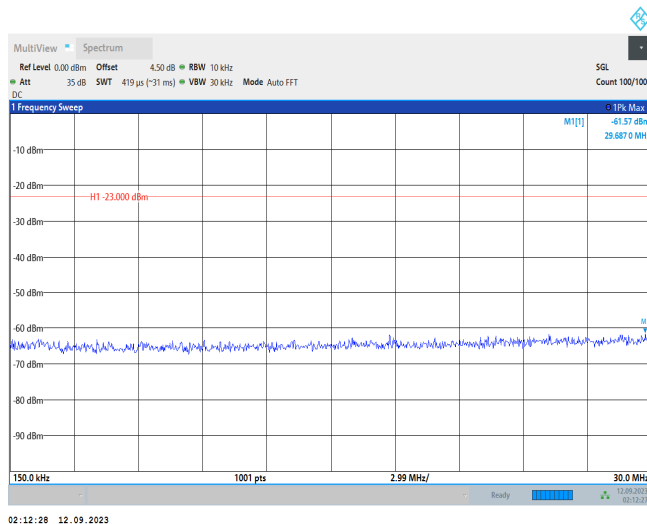
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### Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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



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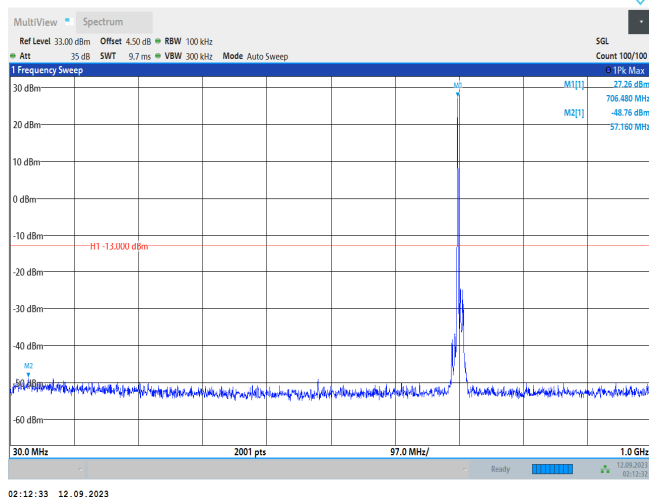
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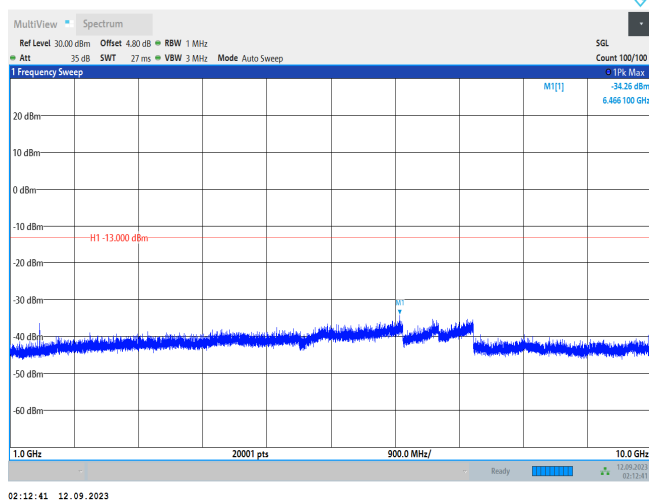
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### Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



### Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band 17\_10MHz\_TM1

Test Channel = Low

| Final Data List |                    |                   |                |          |                |                |                |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 1409.18            | 55.76             | -49.99         | 24.34    | -65.16         | -13.00         | 52.16          | Horizontal |
| 2               | 2113.77            | 45.21             | -49.46         | 26.84    | -72.68         | -13.00         | 59.68          | Horizontal |
| 3               | 2818.36            | 44.84             | -48.70         | 28.06    | -71.05         | -13.00         | 58.05          | Horizontal |
| 4               | 3522.95            | 44.81             | -48.44         | 28.73    | -70.16         | -13.00         | 57.16          | Horizontal |
| 5               | 4227.54            | 44.16             | -48.27         | 29.81    | -69.56         | -13.00         | 56.56          | Horizontal |
| 6               | 4932.13            | 42.61             | -48.10         | 31.34    | -69.41         | -13.00         | 56.41          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 1409.18            | 54.79             | -49.99         | 24.34    | -66.13         | -13.00         | 53.13          | Vertical |
| 2               | 2113.77            | 50.48             | -49.46         | 26.84    | -67.41         | -13.00         | 54.41          | Vertical |
| 3               | 2818.36            | 44.95             | -48.70         | 28.06    | -70.94         | -13.00         | 57.94          | Vertical |
| 4               | 3522.95            | 44.93             | -48.44         | 28.73    | -70.04         | -13.00         | 57.04          | Vertical |
| 5               | 4227.54            | 43.59             | -48.27         | 29.81    | -70.13         | -13.00         | 57.13          | Vertical |
| 6               | 4932.13            | 43.11             | -48.10         | 31.34    | -68.91         | -13.00         | 55.91          | Vertical |



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**Test Band = LTE Band 17\_10MHz\_TM1**
**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 1411.18         | 52.74          | -49.99      | 24.35    | -68.16      | -13.00      | 55.16       | Horizontal |
| 2               | 2116.77         | 44.81          | -49.47      | 26.84    | -73.07      | -13.00      | 60.07       | Horizontal |
| 3               | 2822.36         | 44.91          | -48.70      | 28.07    | -70.98      | -13.00      | 57.98       | Horizontal |
| 4               | 3527.95         | 45.59          | -48.44      | 28.74    | -69.37      | -13.00      | 56.37       | Horizontal |
| 5               | 4233.54         | 44.24          | -48.25      | 29.82    | -69.45      | -13.00      | 56.45       | Horizontal |
| 6               | 4939.13         | 43.46          | -48.09      | 31.35    | -68.53      | -13.00      | 55.53       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 1411.18         | 53.68          | -49.99      | 24.35    | -67.22      | -13.00      | 54.22       | Vertical |
| 2               | 2116.77         | 45.09          | -49.47      | 26.84    | -72.79      | -13.00      | 59.79       | Vertical |
| 3               | 2822.36         | 44.66          | -48.70      | 28.07    | -71.23      | -13.00      | 58.23       | Vertical |
| 4               | 3527.95         | 45.19          | -48.44      | 28.74    | -69.77      | -13.00      | 56.77       | Vertical |
| 5               | 4233.54         | 43.56          | -48.25      | 29.82    | -70.13      | -13.00      | 57.13       | Vertical |
| 6               | 4939.13         | 43.67          | -48.09      | 31.35    | -68.32      | -13.00      | 55.32       | Vertical |



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**Test Band = LTE Band 17\_10MHz\_TM1****Test Channel = High****Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| 1   | 1413.18            | 55.42             | -49.99         | 24.35    | -65.47         | -13.00         | 52.47          | Horizontal |
| 2   | 2119.77            | 44.48             | -49.47         | 26.84    | -73.40         | -13.00         | 60.40          | Horizontal |
| 3   | 2826.36            | 44.84             | -48.71         | 28.08    | -71.04         | -13.00         | 58.04          | Horizontal |
| 4   | 3532.95            | 44.88             | -48.45         | 28.75    | -70.08         | -13.00         | 57.08          | Horizontal |
| 5   | 4239.54            | 43.97             | -48.23         | 29.83    | -69.69         | -13.00         | 56.69          | Horizontal |
| 6   | 4946.13            | 43.76             | -48.07         | 31.37    | -68.20         | -13.00         | 55.20          | Horizontal |

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| 1   | 1413.18            | 56.60             | -49.99         | 24.35    | -64.29         | -13.00         | 51.29          | Vertical |
| 2   | 2119.77            | 44.78             | -49.47         | 26.84    | -73.10         | -13.00         | 60.10          | Vertical |
| 3   | 2826.36            | 44.34             | -48.71         | 28.08    | -71.54         | -13.00         | 58.54          | Vertical |
| 4   | 3532.95            | 44.90             | -48.45         | 28.75    | -70.06         | -13.00         | 57.06          | Vertical |
| 5   | 4239.54            | 43.98             | -48.23         | 29.83    | -69.68         | -13.00         | 56.68          | Vertical |
| 6   | 4946.13            | 42.87             | -48.07         | 31.37    | -69.09         | -13.00         | 56.09          | 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 |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | VL            | NT               | 5.70           | 0.008028        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | VN            | NT               | 0.60           | 0.000845        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | VH            | NT               | -0.20          | -0.000282       | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -30              | 1.90           | 0.002676        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -20              | -0.60          | -0.000845       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -10              | 1.20           | 0.001690        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 0                | -1.50          | -0.002113       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 10               | -1.50          | -0.002113       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 20               | 3.80           | 0.005352        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 30               | 3.20           | 0.004507        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 40               | 4.70           | 0.006620        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 50               | 0.40           | 0.000563        | PASS    |

---End of Attachment---



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