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# Appendix B.1

## LTE Band 2



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|------------|-------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#0            | 23.07       | 24.66      | 33          | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#2            | 23.05       | 24.64      | 33          | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#5            | 23.03       | 24.62      | 33          | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 22.05       | 23.64      | 33          | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#0            | 22.95       | 24.54      | 33          | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#2            | 22.77       | 24.36      | 33          | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#5            | 22.68       | 24.27      | 33          | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 21.80       | 23.39      | 33          | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#0            | 22.98       | 24.57      | 33          | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#2            | 22.61       | 24.20      | 33          | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#5            | 22.56       | 24.15      | 33          | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 21.54       | 23.13      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#0            | 22.45       | 24.04      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#2            | 22.51       | 24.10      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#5            | 22.19       | 23.78      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 21.06       | 22.65      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#0            | 22.19       | 23.78      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#2            | 22.22       | 23.81      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#5            | 22.24       | 23.83      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 20.87       | 22.46      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#0            | 21.74       | 23.33      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#2            | 22.10       | 23.69      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#5            | 21.96       | 23.55      | 33          | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | 20.67       | 22.26      | 33          | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 1RB#0            | 23.20       | 24.79      | 33          | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 1RB#8            | 23.10       | 24.69      | 33          | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 1RB#14           | 22.98       | 24.57      | 33          | PASS    |



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|       |      |       |       |        |       |       |    |      |
|-------|------|-------|-------|--------|-------|-------|----|------|
| Band2 | 3MHz | QPSK  | 18615 | 15RB#0 | 22.08 | 23.67 | 33 | PASS |
| Band2 | 3MHz | QPSK  | 18900 | 1RB#0  | 23.06 | 24.65 | 33 | PASS |
| Band2 | 3MHz | QPSK  | 18900 | 1RB#8  | 22.82 | 24.41 | 33 | PASS |
| Band2 | 3MHz | QPSK  | 18900 | 1RB#14 | 22.95 | 24.54 | 33 | PASS |
| Band2 | 3MHz | QPSK  | 18900 | 15RB#0 | 21.90 | 23.49 | 33 | PASS |
| Band2 | 3MHz | QPSK  | 19185 | 1RB#0  | 22.72 | 24.31 | 33 | PASS |
| Band2 | 3MHz | QPSK  | 19185 | 1RB#8  | 22.69 | 24.28 | 33 | PASS |
| Band2 | 3MHz | QPSK  | 19185 | 1RB#14 | 22.54 | 24.13 | 33 | PASS |
| Band2 | 3MHz | QPSK  | 19185 | 15RB#0 | 21.64 | 23.23 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#0  | 22.43 | 24.02 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#8  | 22.30 | 23.89 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#14 | 22.22 | 23.81 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 15RB#0 | 21.10 | 22.69 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#0  | 22.21 | 23.80 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#8  | 22.33 | 23.92 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#14 | 21.97 | 23.56 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 15RB#0 | 21.00 | 22.59 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#0  | 21.87 | 23.46 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#8  | 21.99 | 23.58 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#14 | 22.05 | 23.64 | 33 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 15RB#0 | 20.69 | 22.28 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#0  | 23.09 | 24.68 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#12 | 22.87 | 24.46 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#24 | 23.12 | 24.71 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 25RB#0 | 22.14 | 23.73 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 1RB#0  | 23.10 | 24.69 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 1RB#12 | 22.91 | 24.50 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 1RB#24 | 23.02 | 24.61 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 25RB#0 | 21.95 | 23.54 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#0  | 22.83 | 24.42 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#12 | 22.51 | 24.10 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#24 | 22.50 | 24.09 | 33 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 25RB#0 | 21.69 | 23.28 | 33 | PASS |



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| Band2 | 5MHz  | 16QAM | 18625 | 1RB#0  | 22.52 | 24.11 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 1RB#12 | 22.42 | 24.01 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 1RB#24 | 22.46 | 24.05 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 25RB#0 | 21.17 | 22.76 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#0  | 22.22 | 23.81 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#12 | 22.40 | 23.99 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#24 | 22.11 | 23.70 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 25RB#0 | 20.84 | 22.43 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#0  | 21.99 | 23.58 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#12 | 22.02 | 23.61 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#24 | 22.10 | 23.69 | 33 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 25RB#0 | 20.82 | 22.41 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#0  | 23.18 | 24.77 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#24 | 23.09 | 24.68 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#49 | 23.21 | 24.80 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 50RB#0 | 22.16 | 23.75 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#0  | 22.98 | 24.57 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#24 | 22.83 | 24.42 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#49 | 23.05 | 24.64 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 50RB#0 | 21.94 | 23.53 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#0  | 22.74 | 24.33 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#24 | 22.64 | 24.23 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#49 | 22.80 | 24.39 | 33 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 50RB#0 | 21.77 | 23.36 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#0  | 22.57 | 24.16 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#24 | 22.54 | 24.13 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#49 | 22.44 | 24.03 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 50RB#0 | 21.15 | 22.74 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#0  | 22.37 | 23.96 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#24 | 22.20 | 23.79 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#49 | 22.28 | 23.87 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 50RB#0 | 20.85 | 22.44 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#0  | 22.23 | 23.82 | 33 | PASS |



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| Band2 | 10MHz | 16QAM | 19150 | 1RB#24  | 22.11 | 23.70 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#49  | 22.21 | 23.80 | 33 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0  | 20.68 | 22.27 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#0   | 23.18 | 24.77 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#38  | 22.65 | 24.24 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#74  | 23.20 | 24.79 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 75RB#0  | 21.80 | 23.39 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#0   | 23.12 | 24.71 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#38  | 22.87 | 24.46 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#74  | 23.21 | 24.80 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 75RB#0  | 22.01 | 23.60 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#0   | 23.10 | 24.69 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#38  | 22.77 | 24.36 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#74  | 22.99 | 24.58 | 33 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 75RB#0  | 21.89 | 23.48 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#0   | 22.37 | 23.96 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#38  | 22.11 | 23.70 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#74  | 22.40 | 23.99 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0  | 21.02 | 22.61 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#0   | 22.45 | 24.04 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#38  | 22.28 | 23.87 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#74  | 22.48 | 24.07 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 75RB#0  | 21.00 | 22.59 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#0   | 22.45 | 24.04 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#38  | 22.28 | 23.87 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#74  | 22.24 | 23.83 | 33 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 75RB#0  | 20.94 | 22.53 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#0   | 22.95 | 24.54 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#49  | 22.95 | 24.54 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#99  | 22.69 | 24.28 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 100RB#0 | 22.00 | 23.59 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#0   | 23.12 | 24.71 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#49  | 22.91 | 24.50 | 33 | PASS |



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| Band2 | 20MHz | QPSK  | 18900 | 1RB#99  | 22.85 | 24.44 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | 22.03 | 23.62 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#0   | 23.24 | 24.83 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#49  | 22.81 | 24.40 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#99  | 22.50 | 24.09 | 33 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | 22.00 | 23.59 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#0   | 22.51 | 24.10 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#49  | 22.28 | 23.87 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#99  | 22.34 | 23.93 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 20.84 | 22.43 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#0   | 22.52 | 24.11 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#49  | 22.12 | 23.71 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#99  | 22.12 | 23.71 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 20.88 | 22.47 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#0   | 22.51 | 24.10 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#49  | 22.10 | 23.69 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#99  | 21.94 | 23.53 | 33 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 20.78 | 22.37 | 33 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 6.08       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0          | 6.00       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0          | 5.92       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0          | 6.86       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0          | 6.80       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0          | 6.72       | 13        | PASS    |



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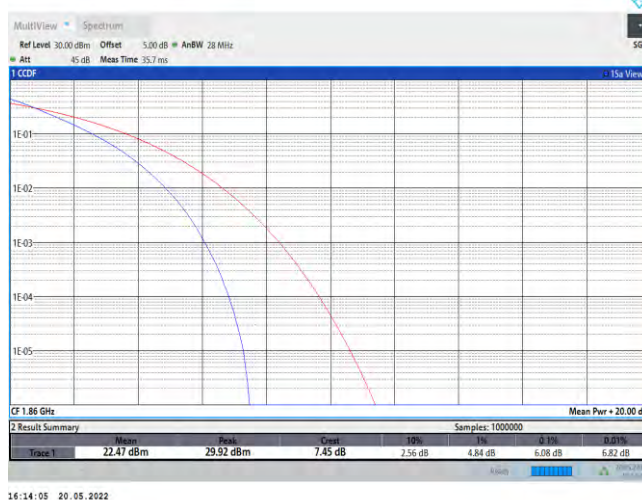
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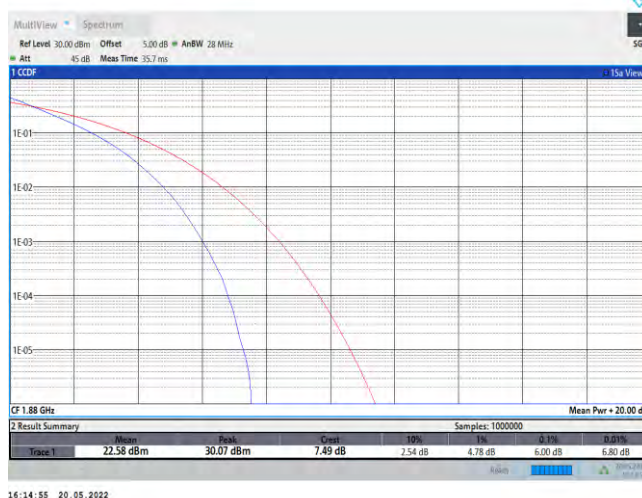
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### Test Graphs

Band2-20MHz-QPSK-18700-100RB#0



Band2-20MHz-QPSK-18900-100RB#0



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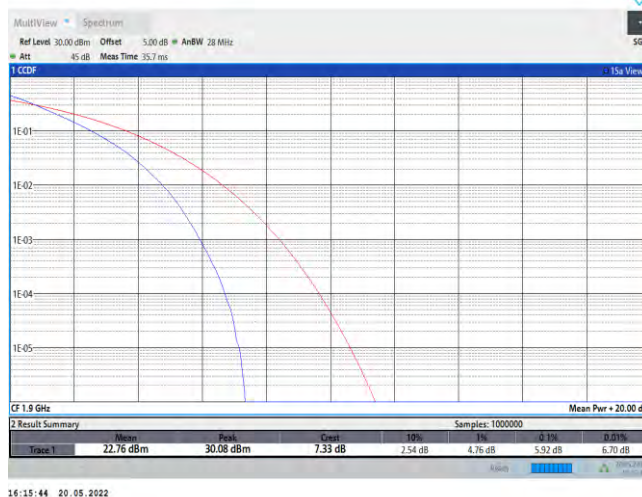
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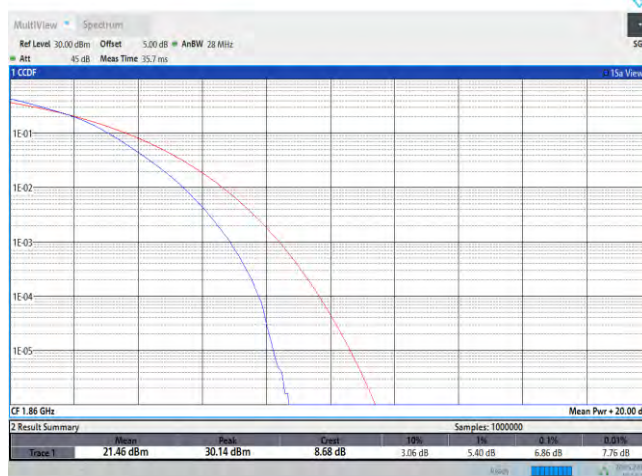
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### Band2-20MHz-QPSK-19100-100RB#0



16:15:44 20.05.2022

### Band2-20MHz-16QAM-18700-100RB#0



16:14:21 20.05.2022



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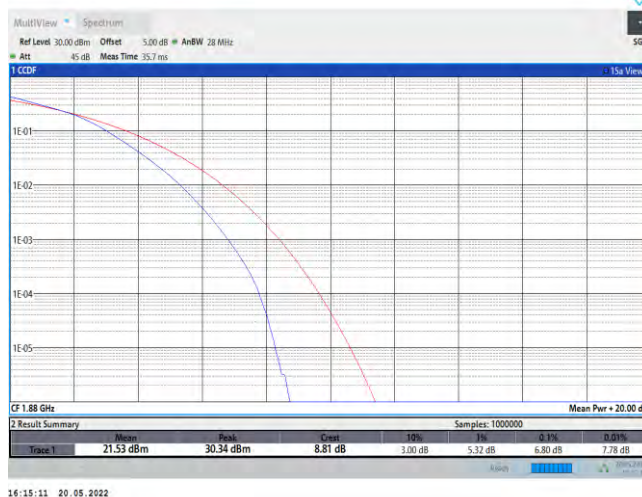
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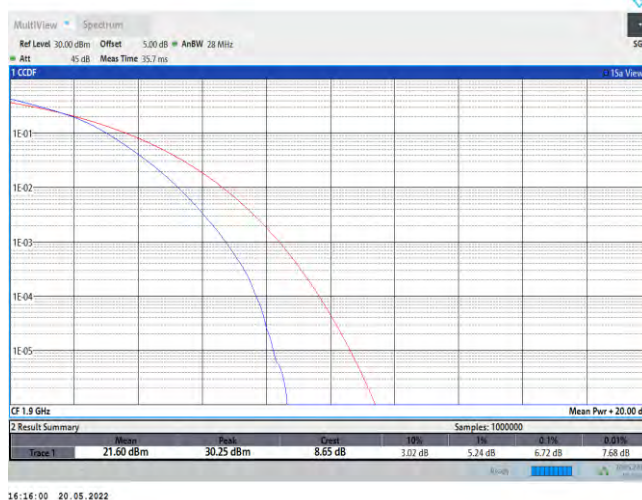
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### Band2-20MHz-16QAM-18900-100RB#0



### Band2-20MHz-16QAM-19100-100RB#0



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Modulation Characteristics

Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|-------|-----------|------------|---------|------------------|--------|---------|
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0          | PASS   | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0          | PASS   | PASS    |



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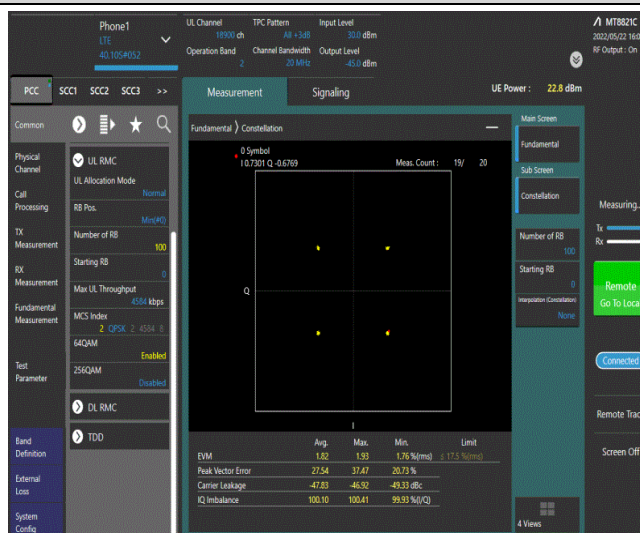
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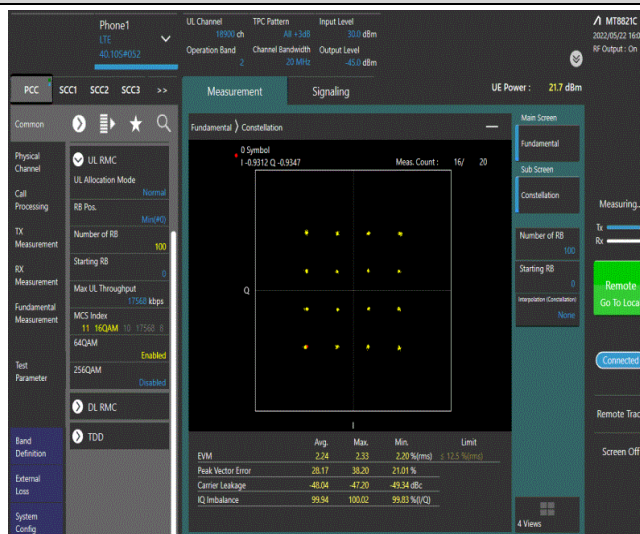
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### Test Graphs

Band2-20MHz-QPSK-18900-100RB#0



Band2-20MHz-16QAM-18900-100RB#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 |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 1.089                    | 1.28                 | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 1.089                    | 1.29                 | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 1.089                    | 1.29                 | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 1.097                    | 1.31                 | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 1.098                    | 1.31                 | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | 1.098                    | 1.31                 | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 15RB#0           | 2.69                     | 2.96                 | PASS    |
| Band2 | 3MHz      | QPSK       | 18900   | 15RB#0           | 2.699                    | 2.96                 | PASS    |
| Band2 | 3MHz      | QPSK       | 19185   | 15RB#0           | 2.693                    | 2.99                 | PASS    |
| Band2 | 3MHz      | 16QAM      | 18615   | 15RB#0           | 2.69                     | 2.97                 | PASS    |
| Band2 | 3MHz      | 16QAM      | 18900   | 15RB#0           | 2.693                    | 2.98                 | PASS    |
| Band2 | 3MHz      | 16QAM      | 19185   | 15RB#0           | 2.689                    | 2.96                 | PASS    |
| Band2 | 5MHz      | QPSK       | 18625   | 25RB#0           | 4.467                    | 4.91                 | PASS    |
| Band2 | 5MHz      | QPSK       | 18900   | 25RB#0           | 4.472                    | 4.93                 | PASS    |
| Band2 | 5MHz      | QPSK       | 19175   | 25RB#0           | 4.467                    | 4.92                 | PASS    |
| Band2 | 5MHz      | 16QAM      | 18625   | 25RB#0           | 4.465                    | 4.95                 | PASS    |
| Band2 | 5MHz      | 16QAM      | 18900   | 25RB#0           | 4.464                    | 4.95                 | PASS    |
| Band2 | 5MHz      | 16QAM      | 19175   | 25RB#0           | 4.463                    | 4.96                 | PASS    |
| Band2 | 10MHz     | QPSK       | 18650   | 50RB#0           | 8.914                    | 9.64                 | PASS    |
| Band2 | 10MHz     | QPSK       | 18900   | 50RB#0           | 8.934                    | 9.64                 | PASS    |
| Band2 | 10MHz     | QPSK       | 19150   | 50RB#0           | 8.921                    | 9.70                 | PASS    |
| Band2 | 10MHz     | 16QAM      | 18650   | 50RB#0           | 8.899                    | 9.62                 | PASS    |
| Band2 | 10MHz     | 16QAM      | 18900   | 50RB#0           | 8.904                    | 9.66                 | PASS    |
| Band2 | 10MHz     | 16QAM      | 19150   | 50RB#0           | 8.903                    | 9.60                 | PASS    |
| Band2 | 15MHz     | QPSK       | 18675   | 75RB#0           | 13.46                    | 14.76                | PASS    |
| Band2 | 15MHz     | QPSK       | 18900   | 75RB#0           | 13.453                   | 14.73                | PASS    |
| Band2 | 15MHz     | QPSK       | 19125   | 75RB#0           | 13.438                   | 14.70                | PASS    |
| Band2 | 15MHz     | 16QAM      | 18675   | 75RB#0           | 13.441                   | 14.85                | PASS    |
| Band2 | 15MHz     | 16QAM      | 18900   | 75RB#0           | 13.429                   | 14.70                | PASS    |
| Band2 | 15MHz     | 16QAM      | 19125   | 75RB#0           | 13.405                   | 14.70                | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 17.923                   | 19.44                | PASS    |



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|       |       |       |       |         |        |       |      |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | 17.881 | 19.48 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | 17.869 | 19.32 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 17.895 | 19.44 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 17.852 | 19.32 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 17.884 | 19.36 | PASS |



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### Test Graphs

Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-18900-6RB#0



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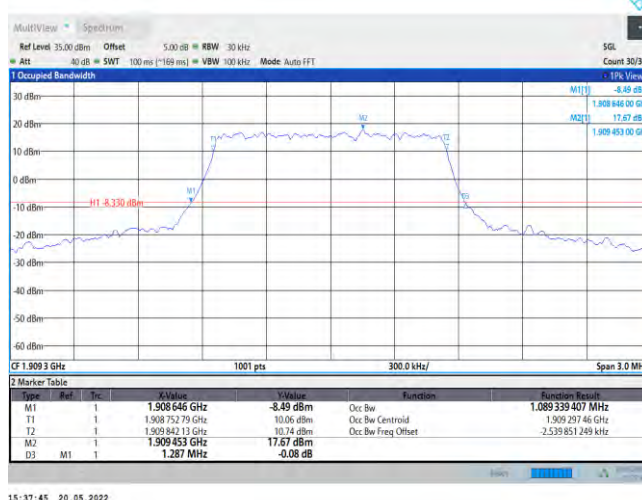
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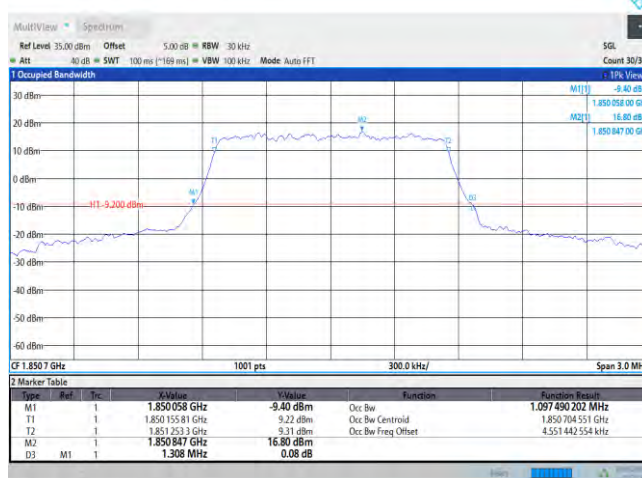
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### Band2-1.4MHz-QPSK-19193-6RB#0



15:37:45 20.05.2022

### Band2-1.4MHz-16QAM-18607-6RB#0



15:36:14 20.05.2022



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### Band2-1.4MHz-16QAM-18900-6RB#0



15:37:09 20.05.2022

### Band2-1.4MHz-16QAM-19193-6RB#0



15:38:04 20.05.2022



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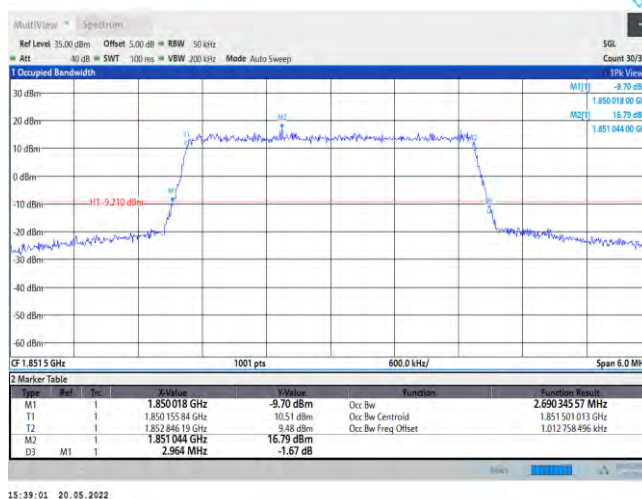
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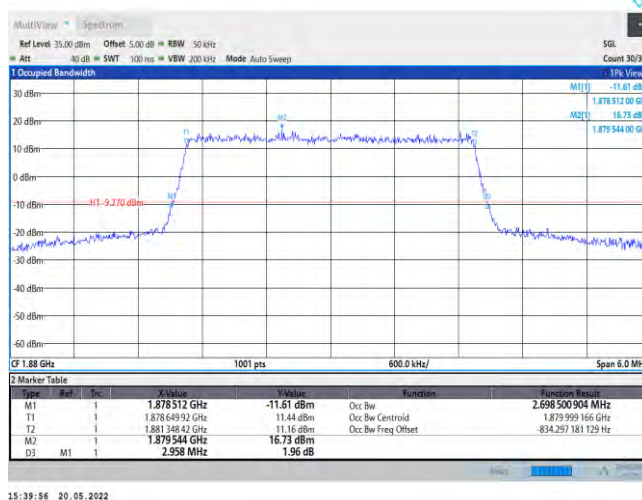
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15:39:01 20.05.2022

### Band2-3MHz-QPSK-18900-15RB#0



15:39:56 20.05.2022



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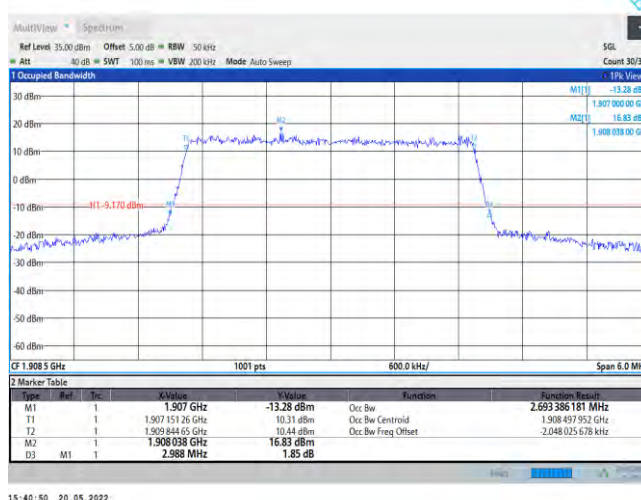
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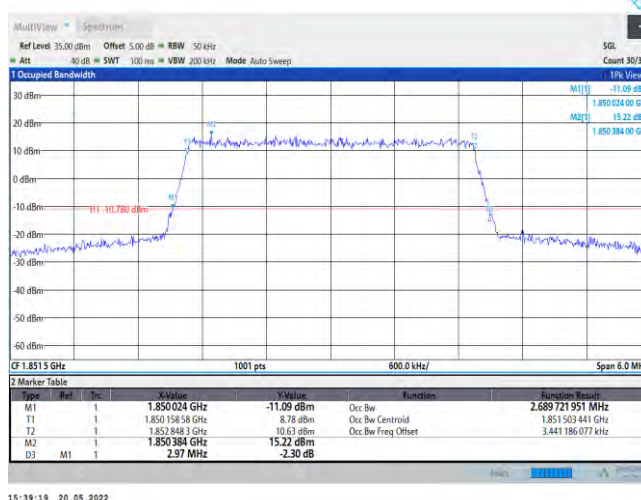
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### Band2-3MHz-QPSK-19185-15RB#0



### Band2-3MHz-16QAM-18615-15RB#0



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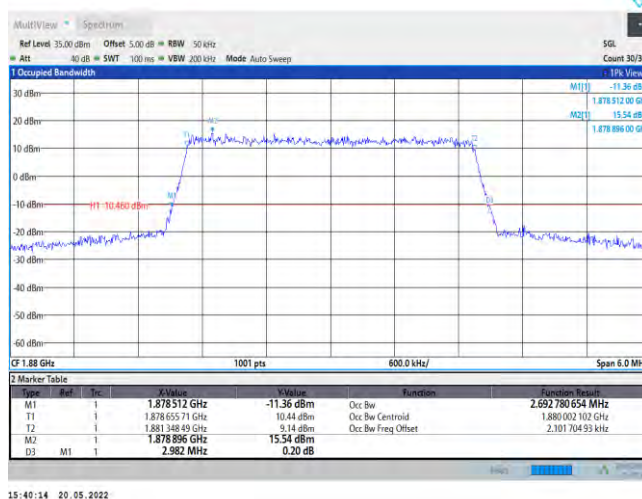
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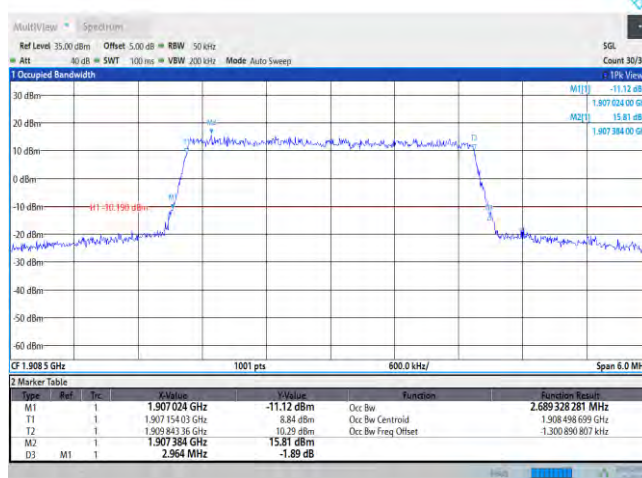
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### Band2-3MHz-16QAM-18900-15RB#0



15:40:14 20.05.2022

### Band2-3MHz-16QAM-19185-15RB#0



15:41:09 20.05.2022



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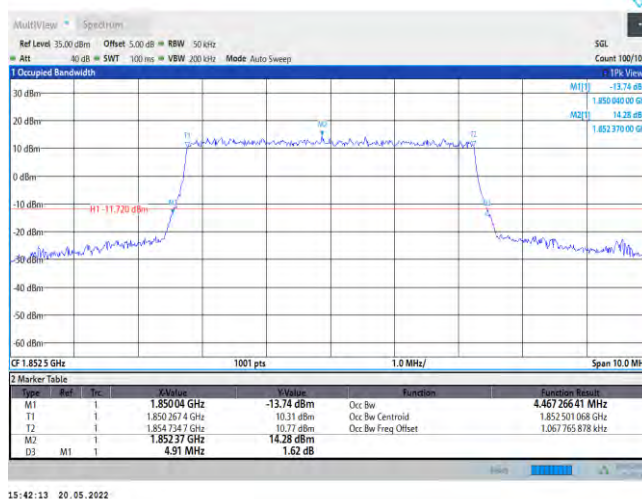
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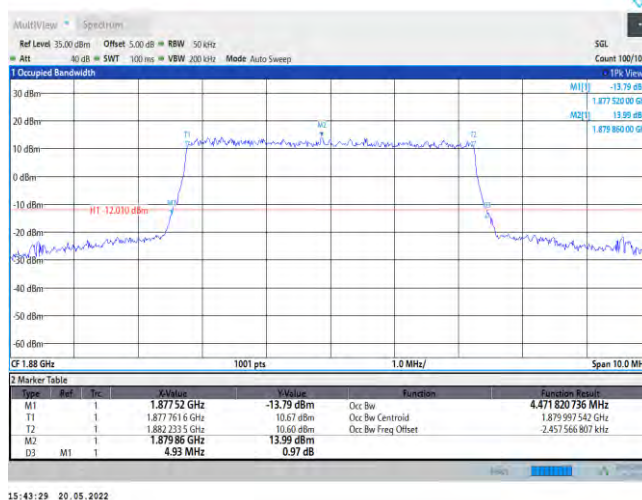
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### • Band2-5MHz-QPSK-18625-25RB#0



### Band2-5MHz-QPSK-18900-25RB#0



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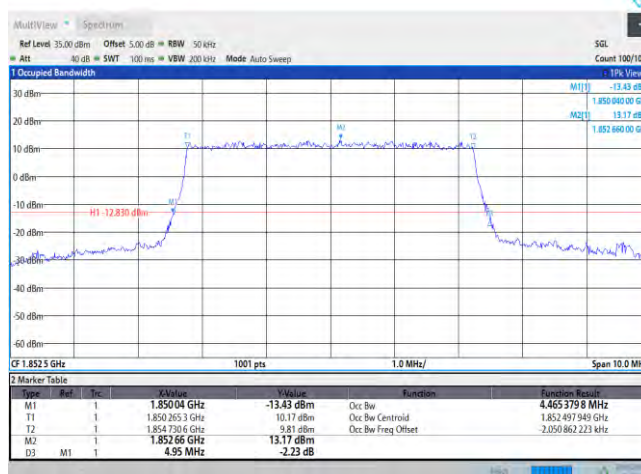
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### Band2-5MHz-QPSK-19175-25RB#0



15:44:46 20.05.2022

### Band2-5MHz-16QAM-18625-25RB#0



15:42:38 20.05.2022



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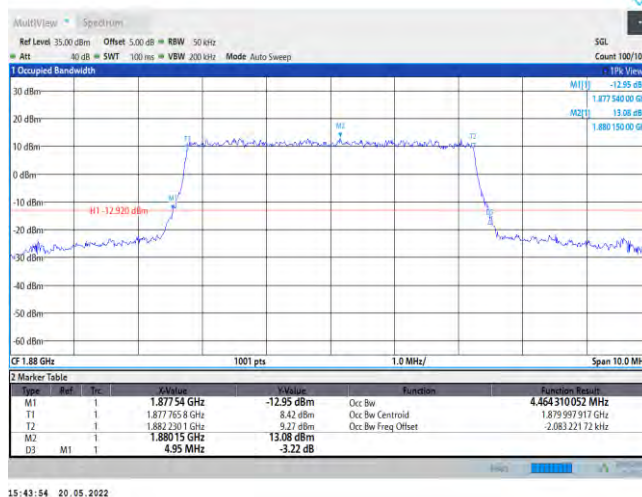
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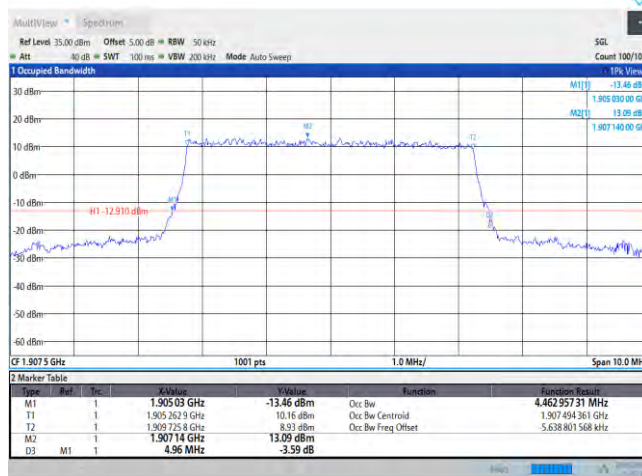
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### Band2-5MHz-16QAM-18900-25RB#0



15:43:54 20.05.2022

### Band2-5MHz-16QAM-19175-25RB#0



15:45:11 20.05.2022



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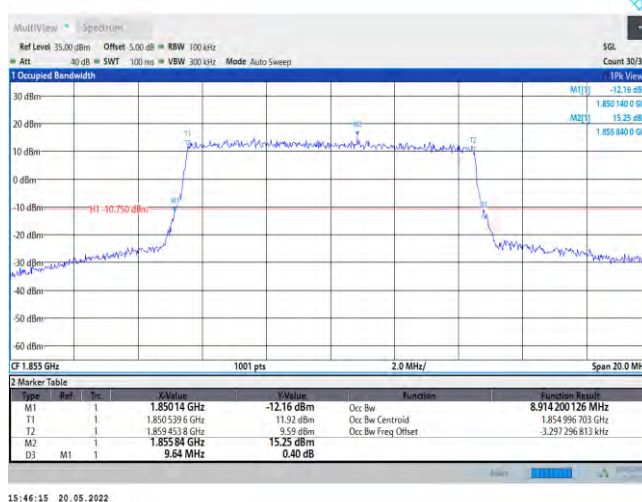
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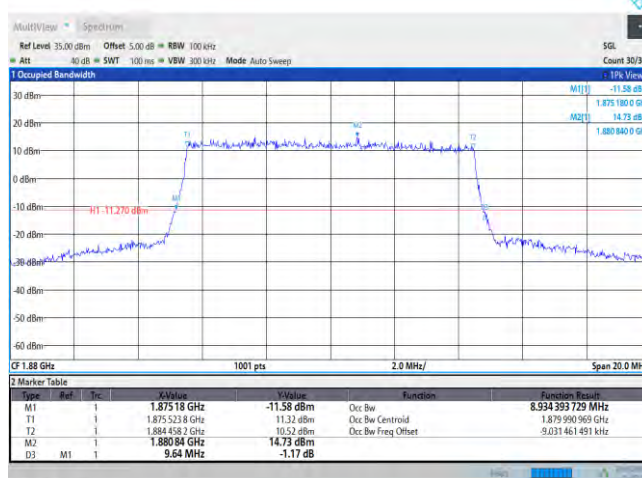
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15:46:15 20.05.2022

### Band2-10MHz-QPSK-18900-50RB#0



15:47:10 20.05.2022



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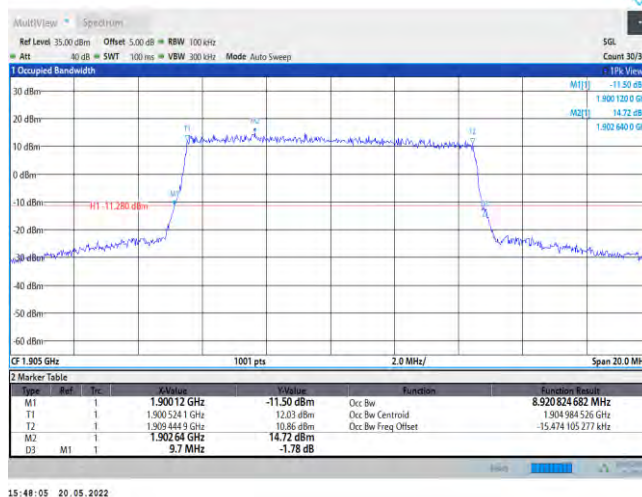
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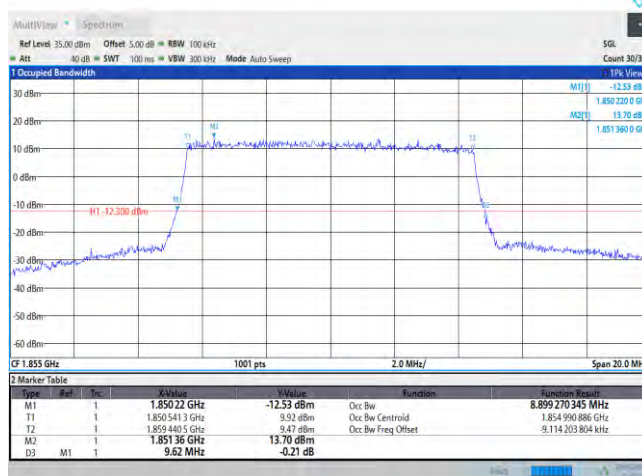
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### Band2-10MHz-16QAM-18650-50RB#0



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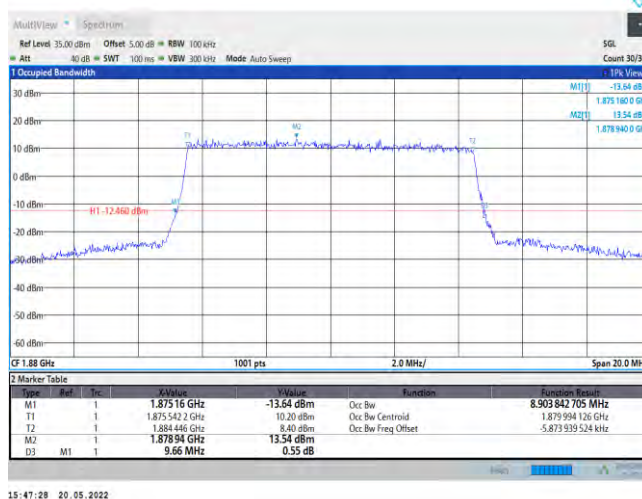
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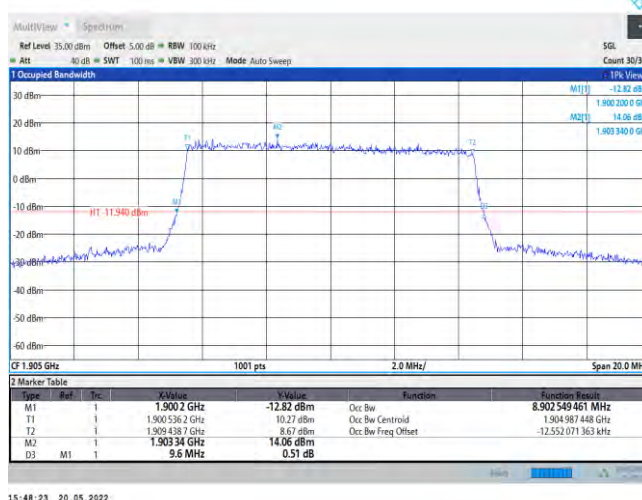
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### Band2-10MHz-16QAM-19150-50RB#0



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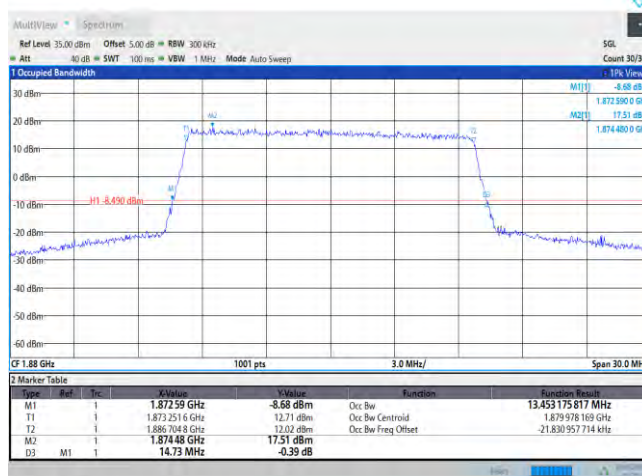
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### Band2-15MHz-QPSK-18675-75RB#0



15:49:20 20.05.2022

### Band2-15MHz-QPSK-18900-75RB#0



15:50:15 20.05.2022



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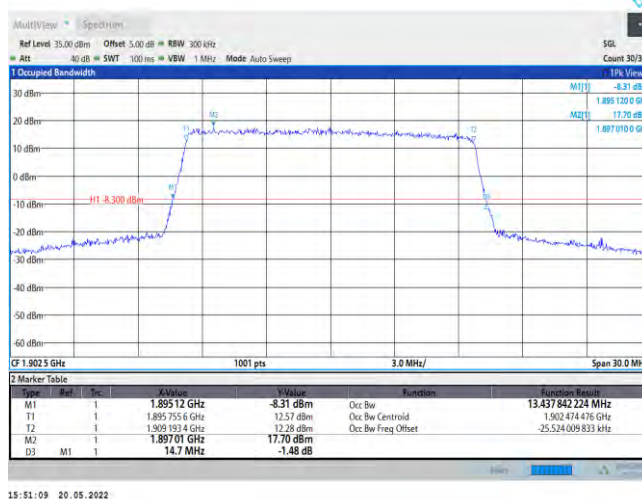
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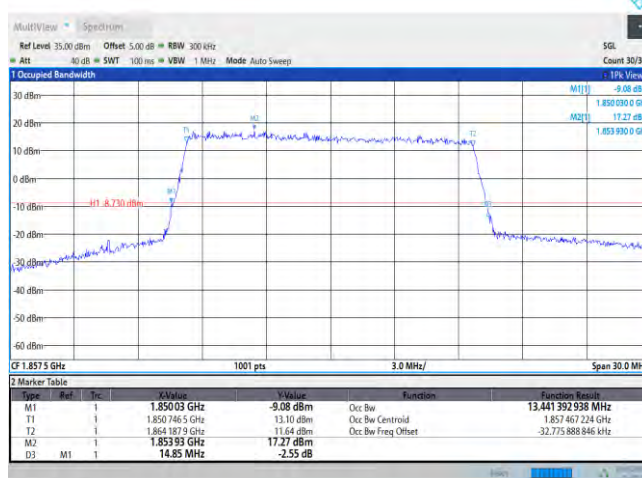
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### Band2-15MHz-QPSK-19125-75RB#0



15:51:09 20.05.2022

### Band2-15MHz-16QAM-18675-75RB#0



15:49:38 20.05.2022



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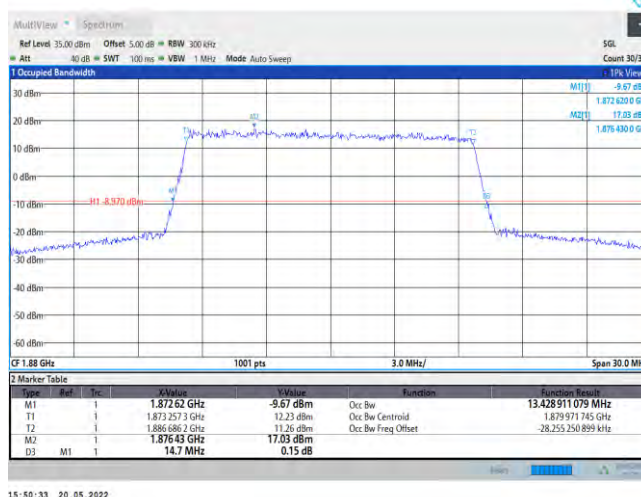
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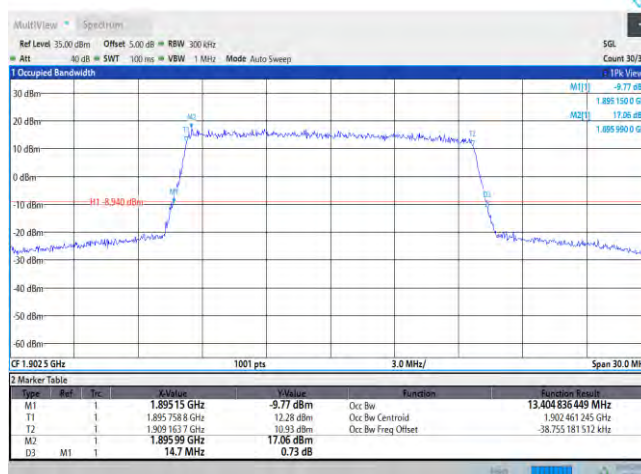
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### Band2-15MHz-16QAM-18900-75RB#0



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### Band2-15MHz-16QAM-19125-75RB#0



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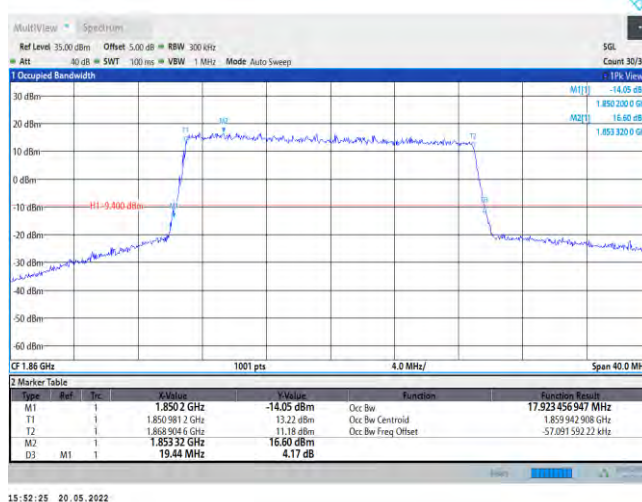
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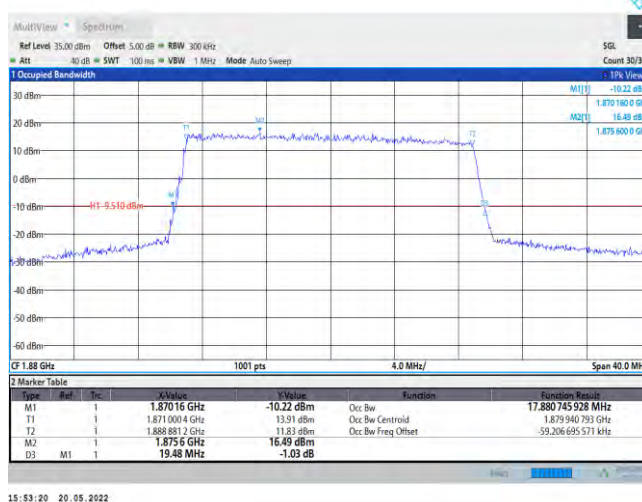
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### Band2-20MHz-QPSK-18700-100RB#0



### Band2-20MHz-QPSK-18900-100RB#0



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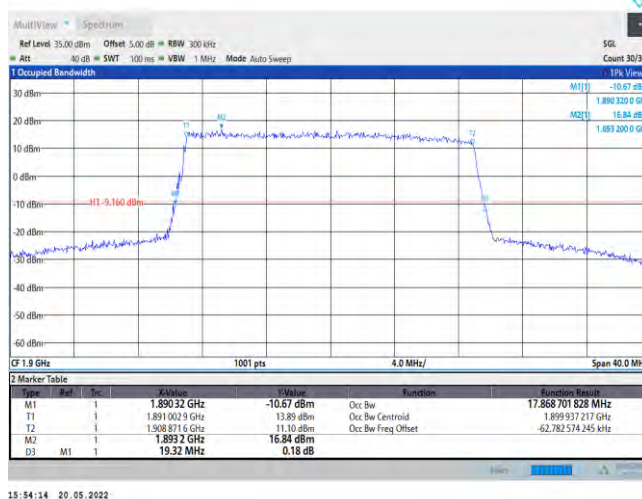
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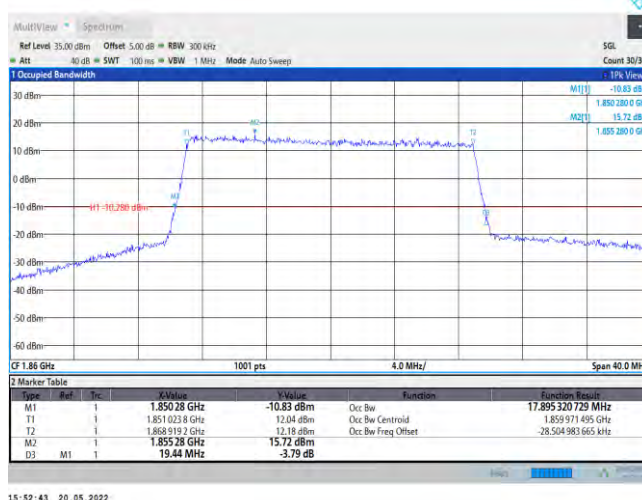
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### Band2-20MHz-QPSK-19100-100RB#0



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### Band2-20MHz-16QAM-18700-100RB#0



15:52:43 20.05.2022



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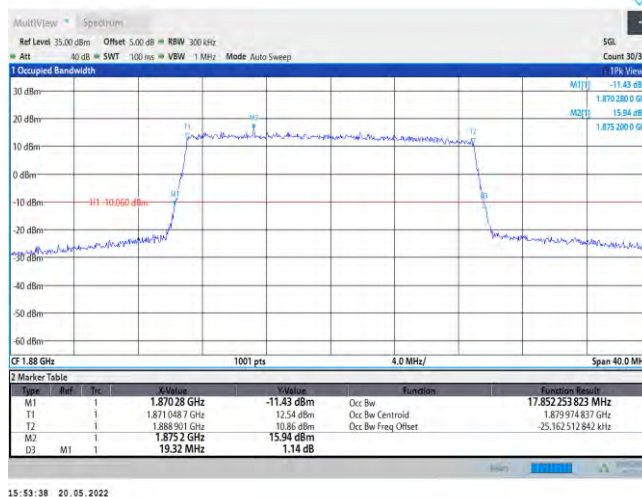
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### Band2-20MHz-16QAM-19100-100RB#0



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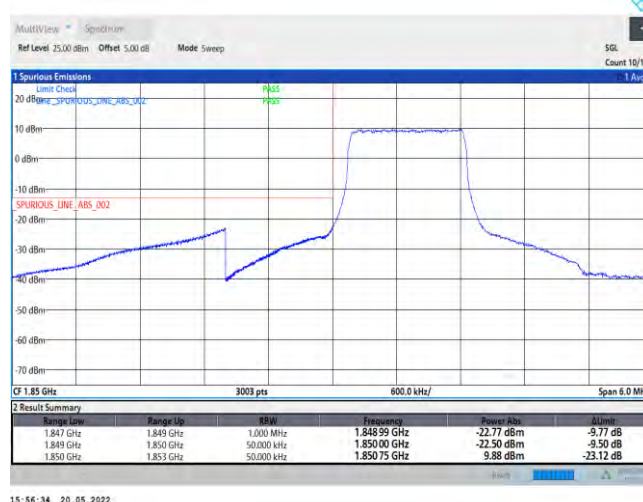
### Band Edge

### Test Graphs

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Band2-1.4MHz-QPSK-18607-6RB#0



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### Band2-1.4MHz-QPSK-19193-1RB#5



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### Band2-1.4MHz-QPSK-19193-6RB#0



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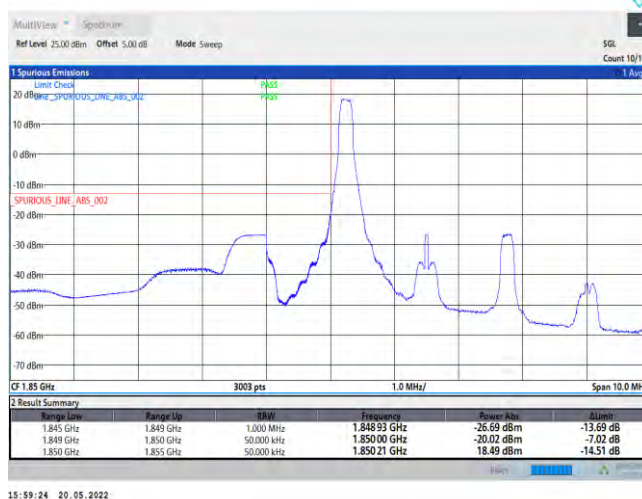
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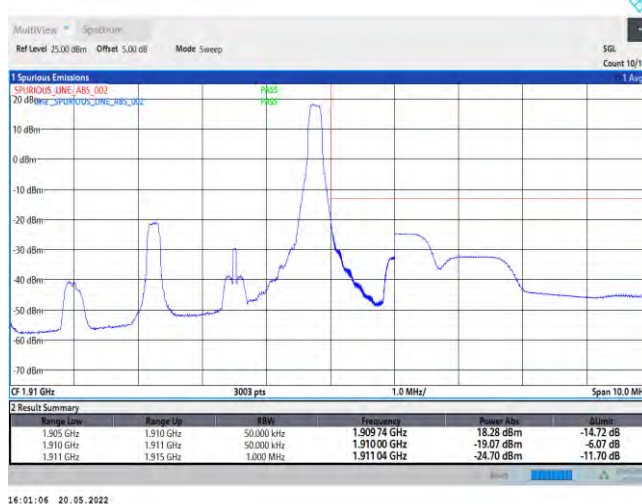
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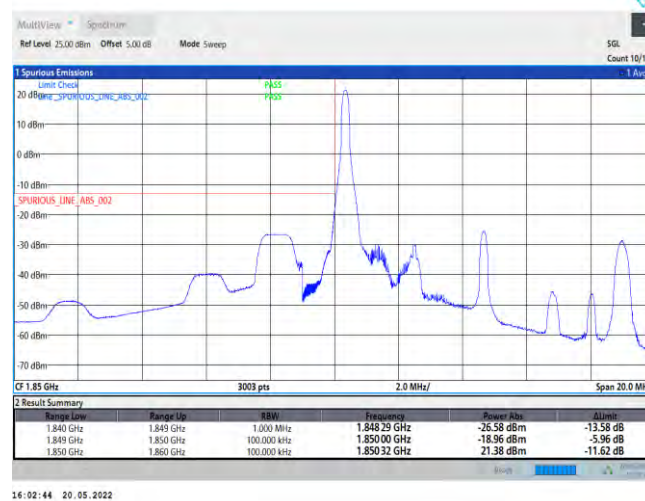
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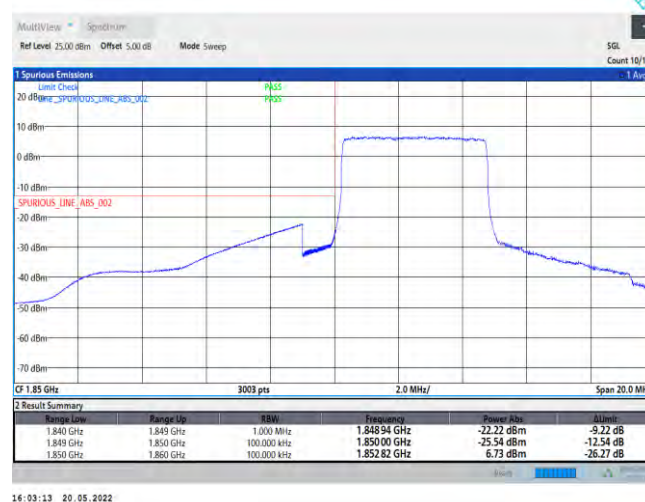
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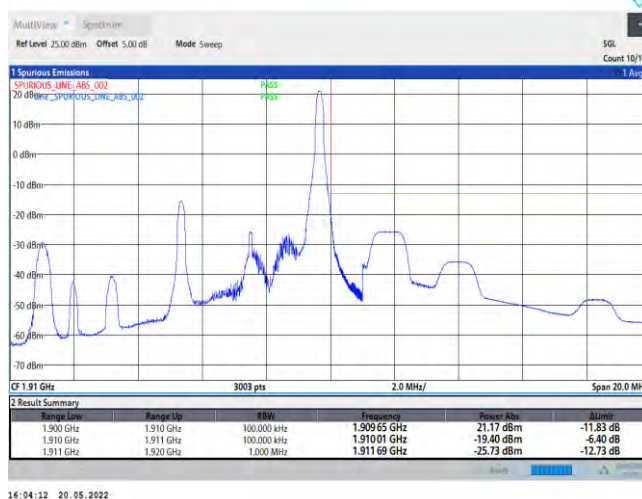
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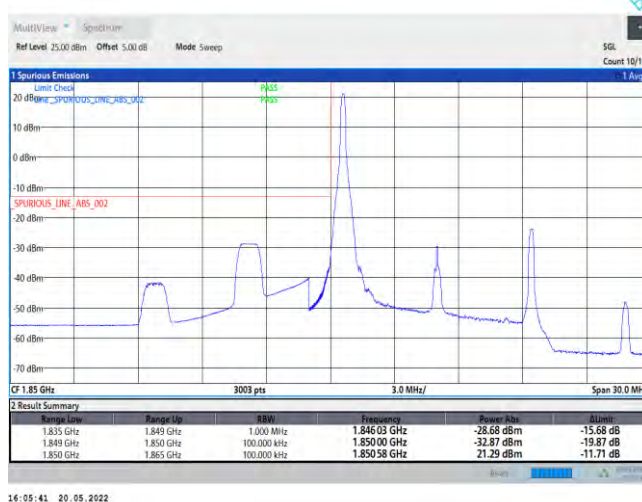
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### Band2-10MHz-QPSK-18650-1RB#0



### Band2-10MHz-QPSK-18650-50RB#0



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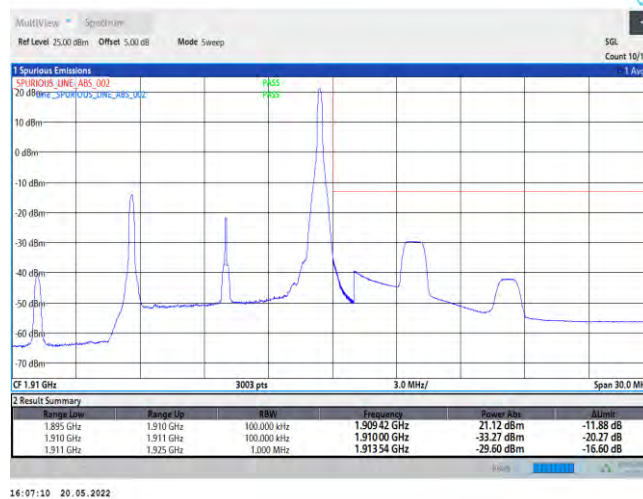
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### Band2-10MHz-QPSK-19150-1RB#49



### Band2-10MHz-QPSK-19150-50RB#0



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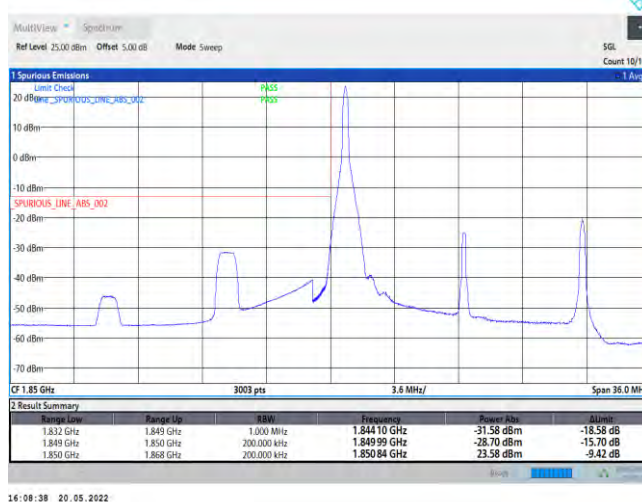
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### Band2-15MHz-QPSK-18675-1RB#0



### Band2-15MHz-QPSK-18675-75RB#0



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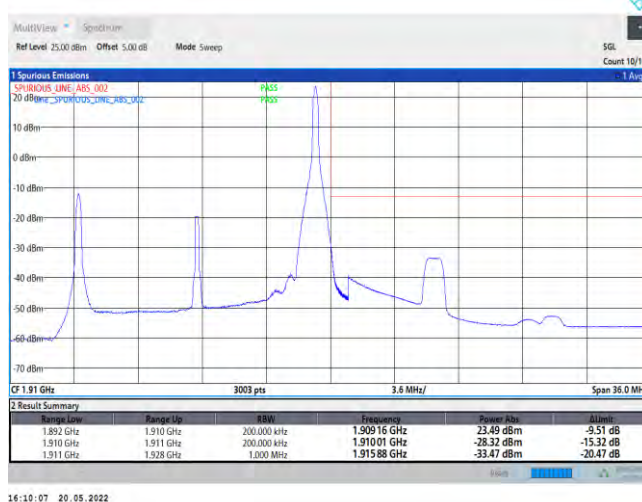
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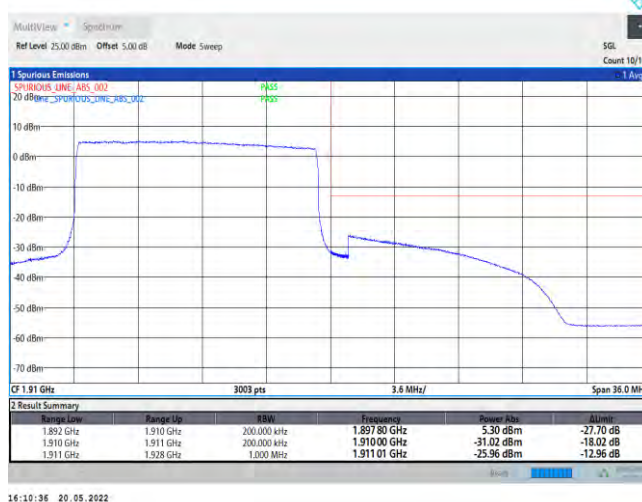
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### Band2-15MHz-QPSK-19125-1RB#74



### Band2-15MHz-QPSK-19125-75RB#0



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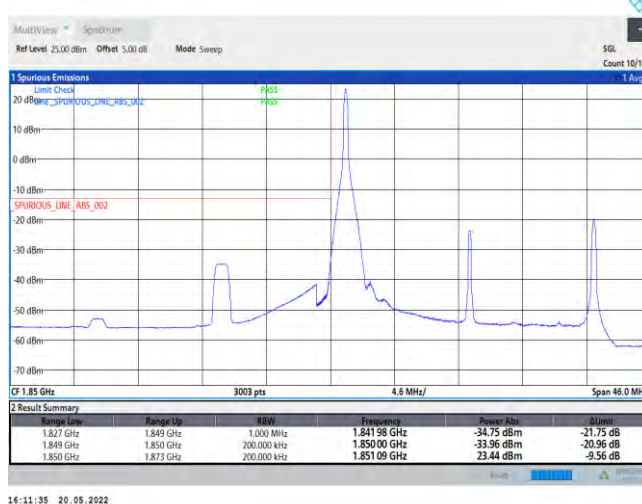
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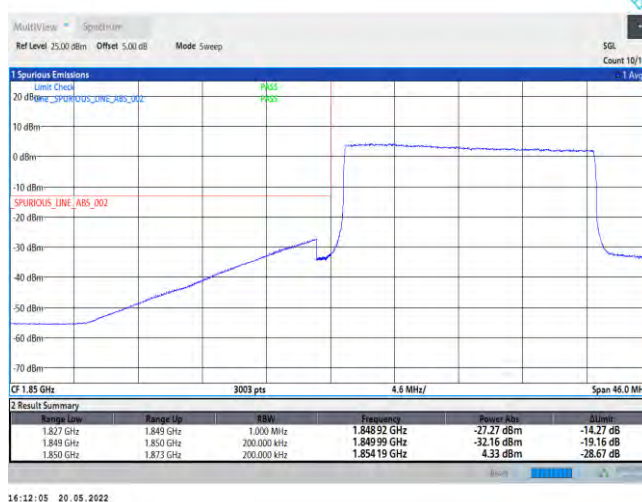
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### Band2-20MHz-QPSK-18700-1RB#0



### Band2-20MHz-QPSK-18700-100RB#0



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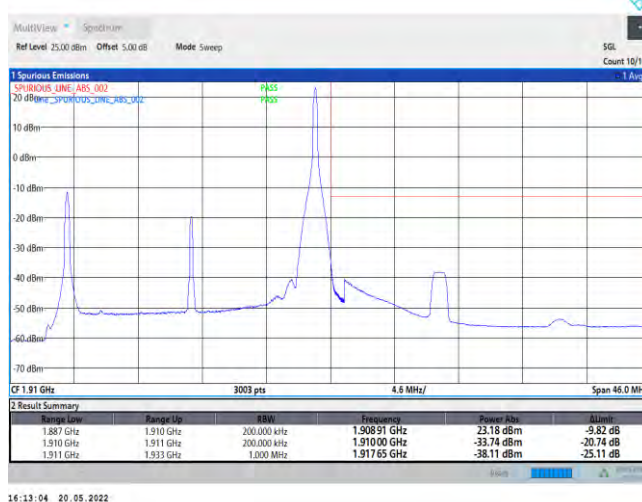
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### Band2-20MHz-QPSK-19100-1RB#99



### Band2-20MHz-QPSK-19100-100RB#0



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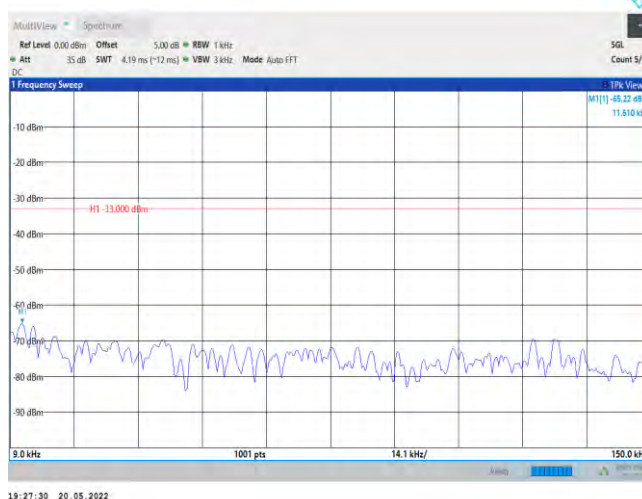
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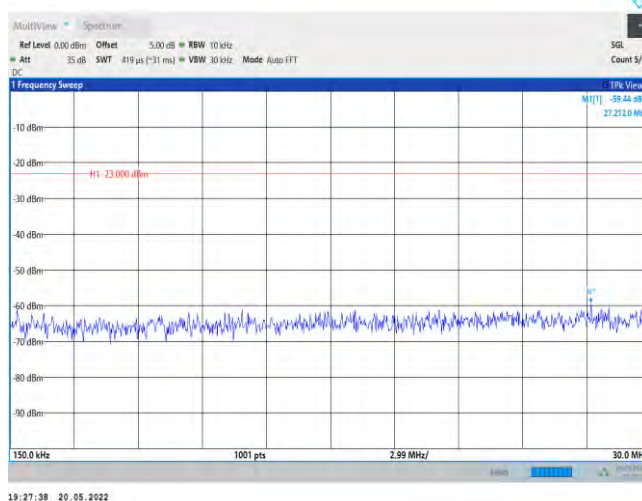
### Conducted Spurious Emission

#### Test Graphs

Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz



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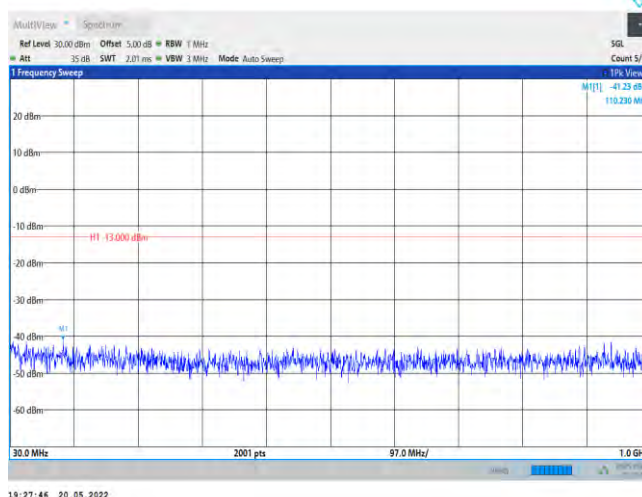
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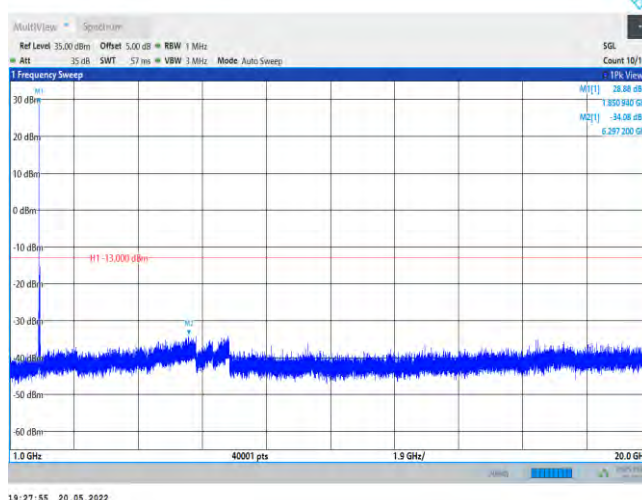
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### Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



### Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



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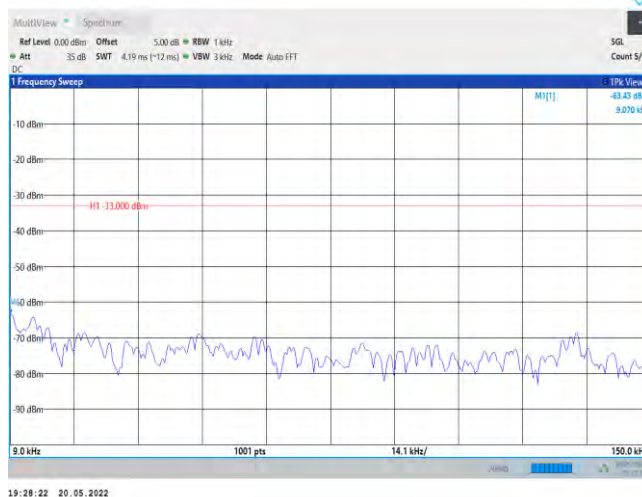
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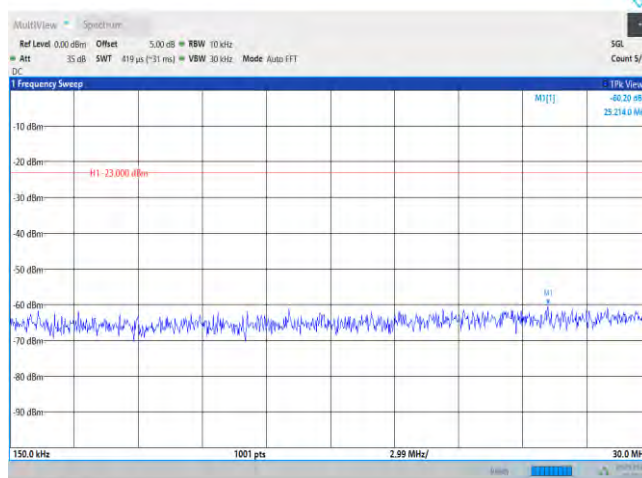
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### Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



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### Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz



19:28:30 20.05.2022



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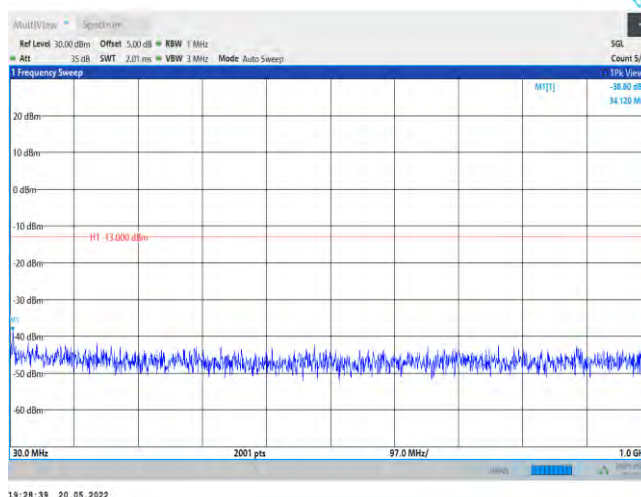
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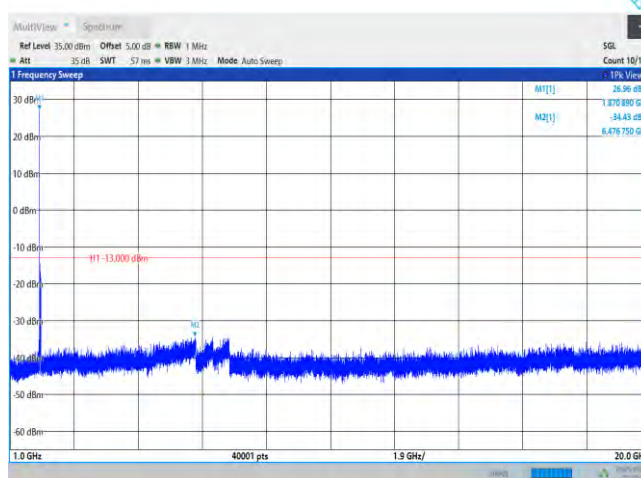
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### Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



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### Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



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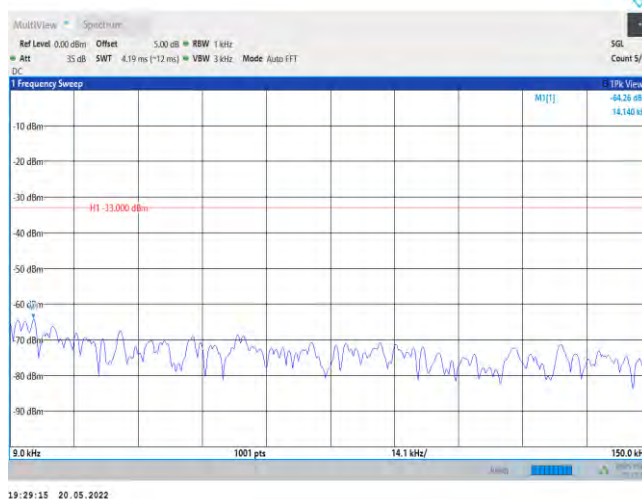
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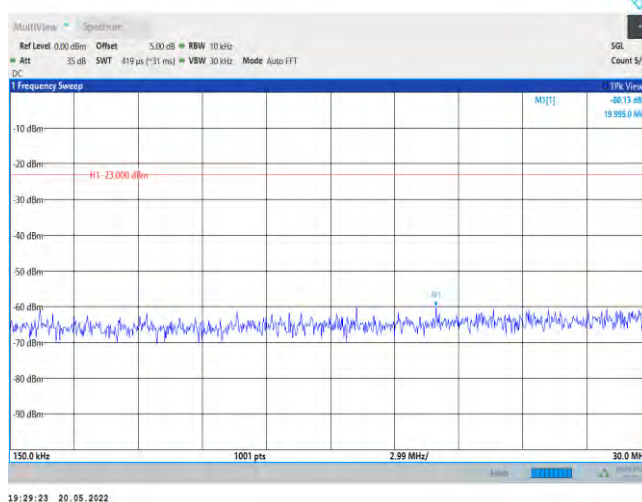
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### Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



### Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



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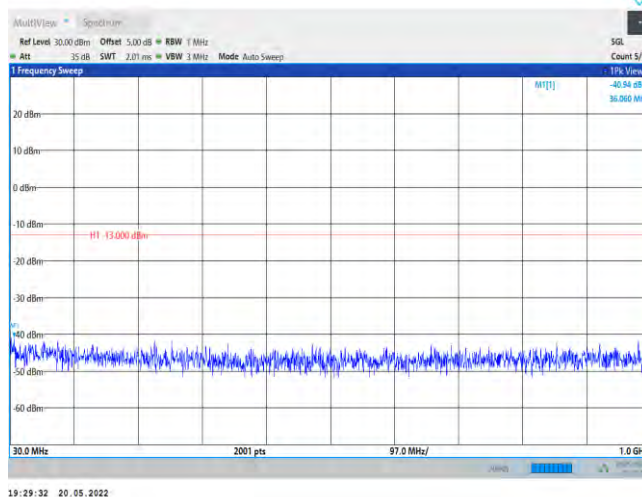
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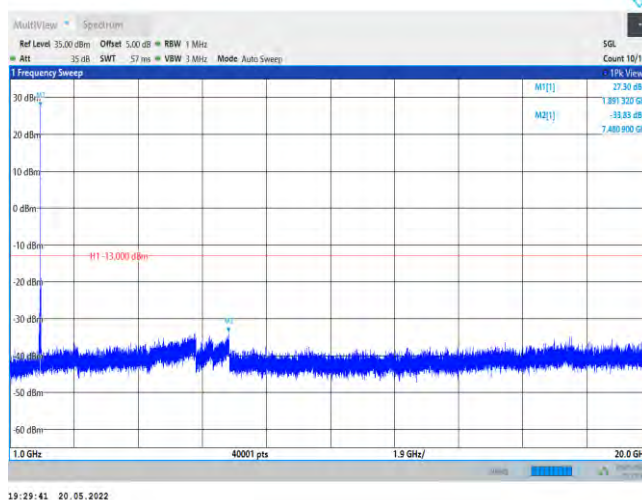
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### Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



### Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



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## Field Strength of Spurious Radiation

**Test Band = LTE Band 2\_ TM1**
**Test Channel = Low**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3702            | 55.27          | -110.79     | -55.52      | -13.00      | 42.52       | 224         | 198       | Horizontal |
| 2               | 5553.2700       | 48.58          | -107.44     | -58.86      | -13.00      | 45.86       | 236         | 144       | Horizontal |
| 3               | 7404.3600       | 47.13          | -102.17     | -55.04      | -13.00      | 42.04       | 142         | 17        | Horizontal |
| 4               | 9255.4500       | 43.60          | -97.11      | -53.51      | -13.00      | 40.51       | 195         | 198       | Horizontal |
| 5               | 11106.5400      | 39.59          | -94.10      | -54.51      | -13.00      | 41.51       | 155         | 122       | Horizontal |
| 6               | 12957.6300      | 38.52          | -92.71      | -54.19      | -13.00      | 41.19       | 145         | 17        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3702.1800       | 51.32          | -110.79     | -59.47      | -13.00      | 46.47       | 235         | 187       | Vertical |
| 2               | 5553.2700       | 48.82          | -107.44     | -58.62      | -13.00      | 45.62       | 250         | 251       | Vertical |
| 3               | 7404.3600       | 47.49          | -102.17     | -54.68      | -13.00      | 41.68       | 194         | 241       | Vertical |
| 4               | 9255.4500       | 43.86          | -97.11      | -53.25      | -13.00      | 40.25       | 172         | 3         | Vertical |
| 5               | 11106.5400      | 39.45          | -94.10      | -54.65      | -13.00      | 41.65       | 211         | 230       | Vertical |
| 6               | 12957.6300      | 39.17          | -92.71      | -53.54      | -13.00      | 40.54       | 199         | 187       | Vertical |



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**Test Band = LTE Band 2\_ TM1**
**Test Channel = Mid**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3742.1800       | 56.04          | -110.82     | -54.78      | -13.00      | 41.78       | 215         | 198       | Horizontal |
| 2               | 5613.2700       | 48.62          | -107.23     | -58.61      | -13.00      | 45.61       | 235         | 271       | Horizontal |
| 3               | 7484.3600       | 47.34          | -101.99     | -54.65      | -13.00      | 41.65       | 164         | 336       | Horizontal |
| 4               | 9355.4500       | 43.12          | -96.81      | -53.69      | -13.00      | 40.69       | 194         | 315       | Horizontal |
| 5               | 11226.5400      | 40.78          | -93.55      | -52.77      | -13.00      | 39.77       | 172         | 78        | Horizontal |
| 6               | 13097.6300      | 37.02          | -92.39      | -55.37      | -13.00      | 42.37       | 201         | 12        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3742.1800       | 53.52          | -110.82     | -57.30      | -13.00      | 44.30       | 175         | 1         | Vertical |
| 2               | 5613.2700       | 49.36          | -107.23     | -57.87      | -13.00      | 44.87       | 199         | 357       | Vertical |
| 3               | 7484.3600       | 47.25          | -101.99     | -54.74      | -13.00      | 41.74       | 256         | 316       | Vertical |
| 4               | 9355.4500       | 44.26          | -96.81      | -52.55      | -13.00      | 39.55       | 201         | 8         | Vertical |
| 5               | 11226.5400      | 40.11          | -93.55      | -53.44      | -13.00      | 40.44       | 142         | 199       | Vertical |
| 6               | 13097.6300      | 36.99          | -92.39      | -55.40      | -13.00      | 42.40       | 177         | 58        | Vertical |



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**Test Band = LTE Band 2\_ TM1**
**Test Channel = High**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3782.1800       | 52.47          | -110.84     | -58.37      | -13.00      | 45.37       | 289         | 54        | Horizontal |
| 2               | 5673.2700       | 47.86          | -106.88     | -59.02      | -13.00      | 46.02       | 191         | 14        | Horizontal |
| 3               | 7564.3600       | 46.81          | -101.86     | -55.05      | -13.00      | 42.05       | 178         | 130       | Horizontal |
| 4               | 9455.4500       | 42.41          | -96.84      | -54.43      | -13.00      | 41.43       | 194         | 260       | Horizontal |
| 5               | 11346.5400      | 39.68          | -93.55      | -53.87      | -13.00      | 40.87       | 235         | 292       | Horizontal |
| 6               | 13237.6300      | 36.28          | -92.37      | -56.09      | -13.00      | 43.09       | 164         | 238       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3782.1800       | 53.14          | -110.84     | -57.70      | -13.00      | 44.70       | 175         | 25        | Vertical |
| 2               | 5673.2700       | 48.66          | -106.88     | -58.22      | -13.00      | 45.22       | 241         | 26        | Vertical |
| 3               | 7564.3600       | 46.14          | -101.86     | -55.72      | -13.00      | 42.72       | 156         | 141       | Vertical |
| 4               | 9455.4500       | 43.92          | -96.84      | -52.92      | -13.00      | 39.92       | 194         | 144       | Vertical |
| 5               | 11346.5400      | 38.76          | -93.55      | -54.79      | -13.00      | 41.79       | 123         | 197       | Vertical |
| 6               | 13237.6300      | 36.78          | -92.37      | -55.59      | -13.00      | 42.59       | 180         | 228       | Vertical |



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## Frequency Stability

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VL            | NT               | 2.80           | 0.001489        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VN            | NT               | 4.80           | 0.002553        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VH            | NT               | 3.40           | 0.001809        | PASS    |

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -30              | 1.30           | 0.000691        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -20              | 0.30           | 0.000160        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -10              | 2.50           | 0.001330        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 0                | 0.20           | 0.000106        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 10               | 0.50           | 0.000266        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 20               | 2.90           | 0.001543        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 30               | 0.10           | 0.000053        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 40               | -0.40          | -0.000213       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 50               | 0.90           | 0.000479        | PASS    |

The End



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