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# Appendix B.5

## LTE Band 12



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## Effective (Isotropic) Radiated Power Output Data

## Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 23.46       | 20.98    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#2            | 23.45       | 20.97    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#5            | 23.36       | 20.88    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 22.41       | 19.93    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 23.42       | 20.94    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#2            | 23.47       | 20.99    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#5            | 23.44       | 20.96    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 22.54       | 20.06    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 23.40       | 20.92    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#2            | 23.46       | 20.98    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#5            | 23.37       | 20.89    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 22.48       | 20.00    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 22.66       | 20.18    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#2            | 22.65       | 20.17    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#5            | 22.52       | 20.04    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 21.49       | 19.01    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 22.65       | 20.17    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#2            | 22.72       | 20.24    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#5            | 22.58       | 20.10    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 21.54       | 19.06    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 22.70       | 20.22    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#2            | 22.75       | 20.27    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#5            | 22.67       | 20.19    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 21.55       | 19.07    | 34.77      | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 1RB#0            | 23.66       | 21.18    | 34.77      | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 1RB#8            | 23.63       | 21.15    | 34.77      | PASS    |



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|        |      |       |       |        |       |       |       |      |
|--------|------|-------|-------|--------|-------|-------|-------|------|
| Band12 | 3MHz | QPSK  | 23025 | 1RB#14 | 23.59 | 21.11 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23025 | 15RB#0 | 22.73 | 20.25 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 1RB#0  | 23.64 | 21.16 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 1RB#8  | 23.67 | 21.19 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 1RB#14 | 23.63 | 21.15 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 15RB#0 | 22.79 | 20.31 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 1RB#0  | 23.65 | 21.17 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 1RB#8  | 23.65 | 21.17 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 1RB#14 | 23.60 | 21.12 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 15RB#0 | 22.73 | 20.25 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0  | 22.94 | 20.46 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#8  | 22.94 | 20.46 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#14 | 22.94 | 20.46 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 15RB#0 | 21.73 | 19.25 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0  | 22.93 | 20.45 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#8  | 22.95 | 20.47 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#14 | 22.87 | 20.39 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 15RB#0 | 21.80 | 19.32 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0  | 22.92 | 20.44 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#8  | 22.83 | 20.35 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#14 | 22.83 | 20.35 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 15RB#0 | 21.75 | 19.27 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#0  | 23.72 | 21.24 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#12 | 23.66 | 21.18 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#24 | 23.70 | 21.22 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 25RB#0 | 22.77 | 20.29 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#0  | 23.70 | 21.22 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#12 | 23.68 | 21.20 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#24 | 23.62 | 21.14 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 25RB#0 | 22.79 | 20.31 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#0  | 23.66 | 21.18 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#12 | 23.65 | 21.17 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#24 | 23.60 | 21.12 | 34.77 | PASS |



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|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band12 | 5MHz  | QPSK  | 23155 | 25RB#0 | 22.76 | 20.28 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 1RB#0  | 22.97 | 20.49 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 1RB#12 | 22.89 | 20.41 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 1RB#24 | 22.94 | 20.46 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 25RB#0 | 21.82 | 19.34 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#0  | 22.94 | 20.46 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#12 | 22.98 | 20.50 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#24 | 22.92 | 20.44 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 25RB#0 | 21.74 | 19.26 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#0  | 22.90 | 20.42 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#12 | 22.93 | 20.45 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#24 | 22.76 | 20.28 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 25RB#0 | 21.73 | 19.25 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0  | 23.72 | 21.24 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#24 | 23.72 | 21.24 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#49 | 23.62 | 21.14 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 50RB#0 | 22.83 | 20.35 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0  | 23.61 | 21.13 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#24 | 23.68 | 21.20 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#49 | 23.63 | 21.15 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | 22.77 | 20.29 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0  | 23.66 | 21.18 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#24 | 23.68 | 21.20 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#49 | 23.57 | 21.09 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | 22.77 | 20.29 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0  | 22.91 | 20.43 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#24 | 22.92 | 20.44 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#49 | 22.86 | 20.38 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | 21.79 | 19.31 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0  | 22.82 | 20.34 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#24 | 22.82 | 20.34 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#49 | 22.80 | 20.32 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | 21.79 | 19.31 | 34.77 | PASS |



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|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0  | 22.93 | 20.45 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#24 | 23.00 | 20.52 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#49 | 22.86 | 20.38 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | 21.75 | 19.27 | 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 |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 5.08       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | 5.26       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 5.32       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 5.94       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | 6.02       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 6.02       | 13        | PASS    |



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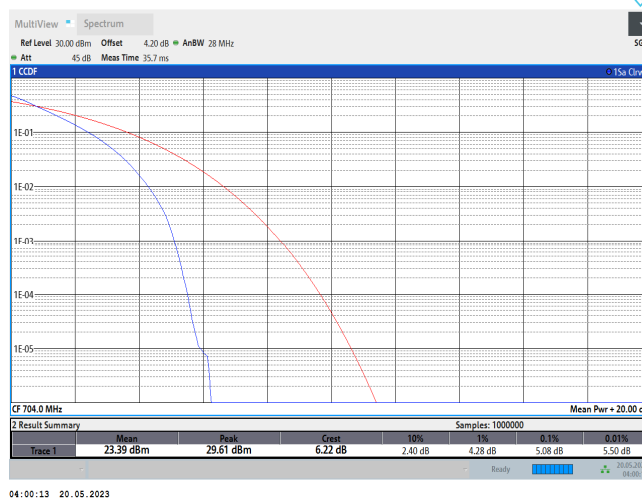
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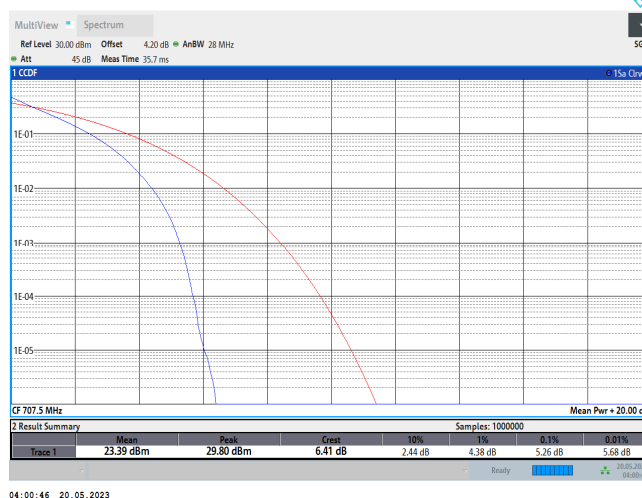
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## Test Graphs

Band12-10MHz-QPSK-23060-50RB#0



Band12-10MHz-QPSK-23095-50RB#0



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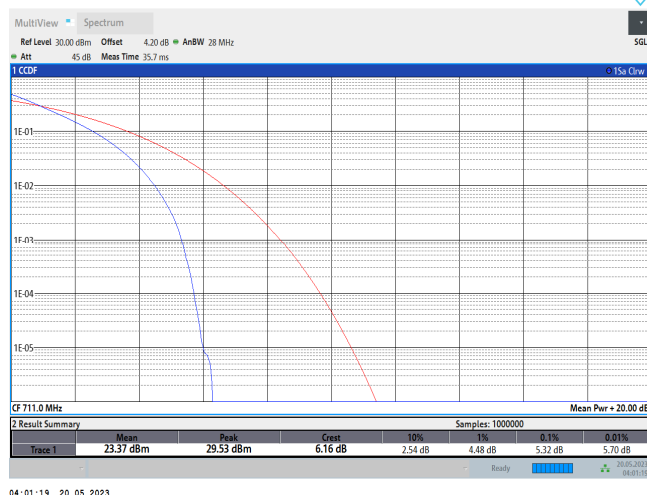
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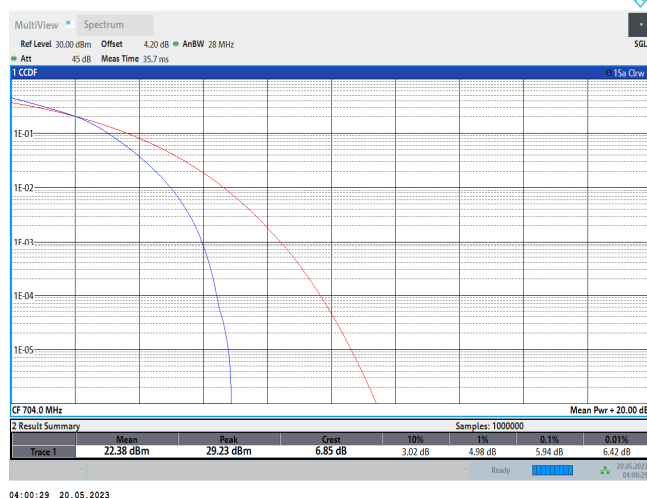
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### Band12-10MHz-QPSK-23130-50RB#0



04:01:19 20.05.2023

### Band12-10MHz-16QAM-23060-50RB#0



04:00:29 20.05.2023



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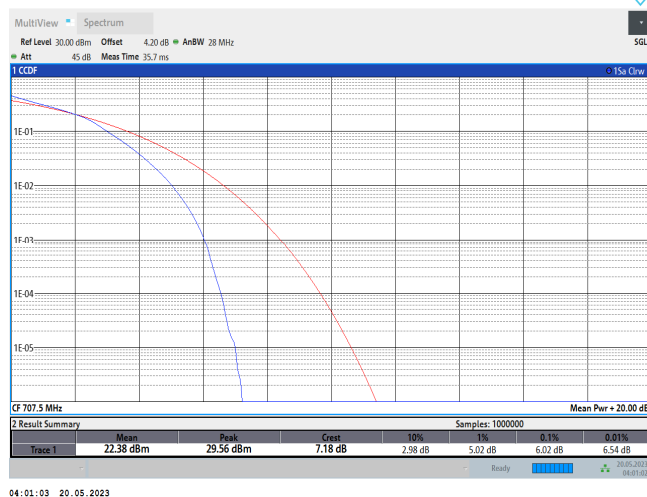


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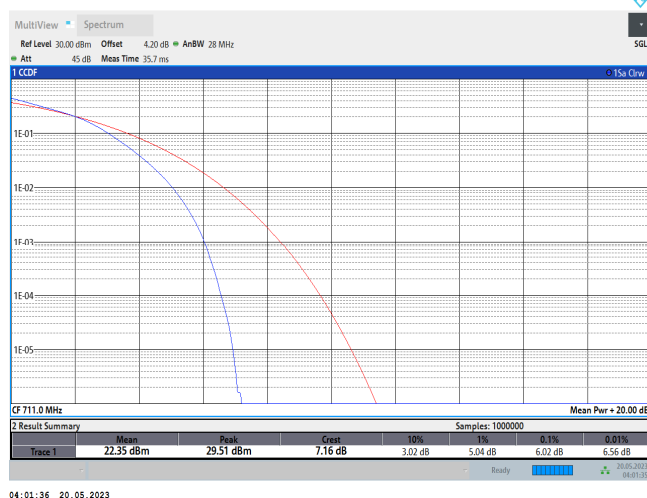
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### Band12-10MHz-16QAM-23095-50RB#0



### Band12-10MHz-16QAM-23130-50RB#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 |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 1.085                    | 1.23                 | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 1.085                    | 1.23                 | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 1.084                    | 1.23                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 1.092                    | 1.24                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 1.092                    | 1.25                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 1.092                    | 1.24                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 15RB#0           | 2.700                    | 2.96                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23095   | 15RB#0           | 2.697                    | 2.96                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 15RB#0           | 2.691                    | 2.96                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 15RB#0           | 2.688                    | 2.99                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23095   | 15RB#0           | 2.690                    | 3.00                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 15RB#0           | 2.688                    | 2.98                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 25RB#0           | 4.466                    | 4.87                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23095   | 25RB#0           | 4.476                    | 4.90                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23155   | 25RB#0           | 4.464                    | 4.87                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 25RB#0           | 4.464                    | 4.88                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23095   | 25RB#0           | 4.472                    | 4.91                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23155   | 25RB#0           | 4.461                    | 4.88                 | PASS    |
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 8.921                    | 9.58                 | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | 8.949                    | 9.64                 | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 8.934                    | 9.60                 | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 8.898                    | 9.62                 | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | 8.924                    | 9.68                 | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 8.912                    | 9.62                 | PASS    |



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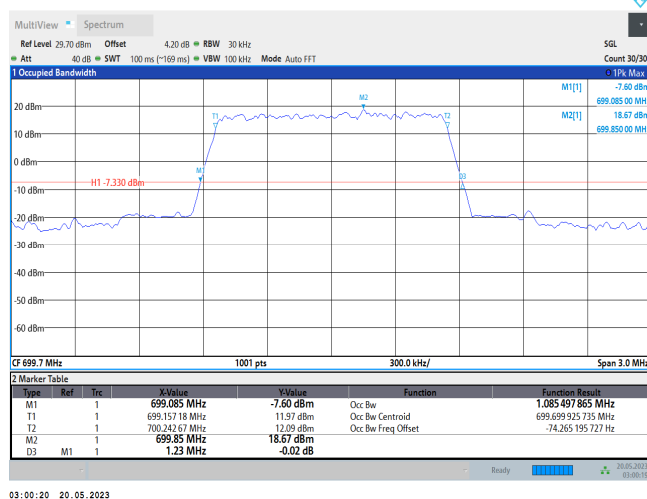
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### Test Graphs

Band12-1.4MHz-QPSK-23017-6RB#0



Band12-1.4MHz-QPSK-23095-6RB#0



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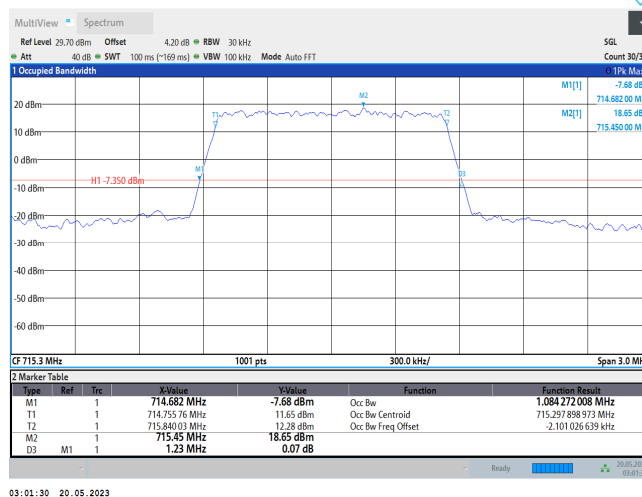
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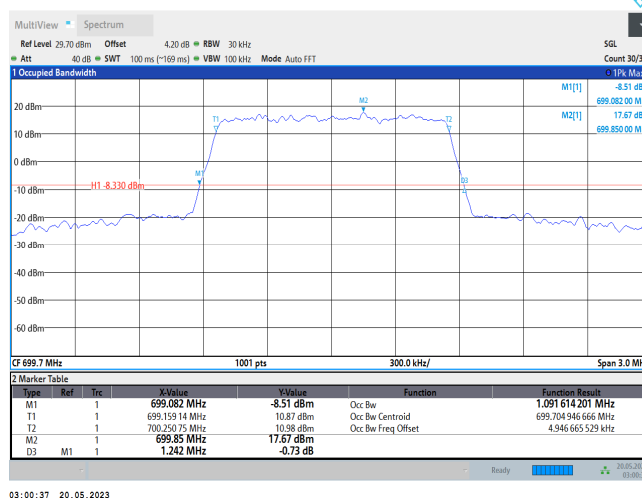
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### Band12-1.4MHz-QPSK-23173-6RB#0



### Band12-1.4MHz-16QAM-23017-6RB#0



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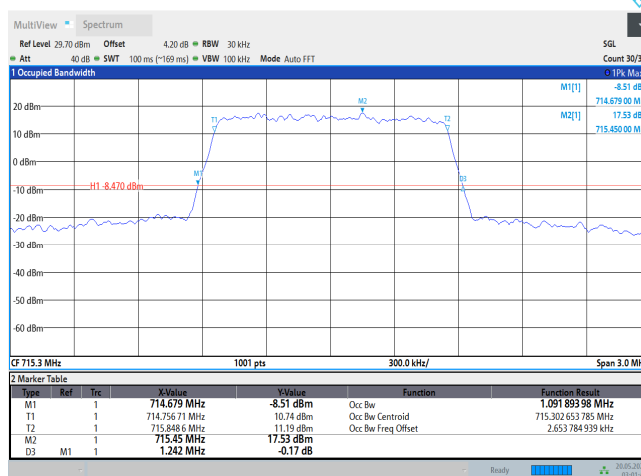
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### Band12-1.4MHz-16QAM-23095-6RB#0



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### Band12-1.4MHz-16QAM-23173-6RB#0



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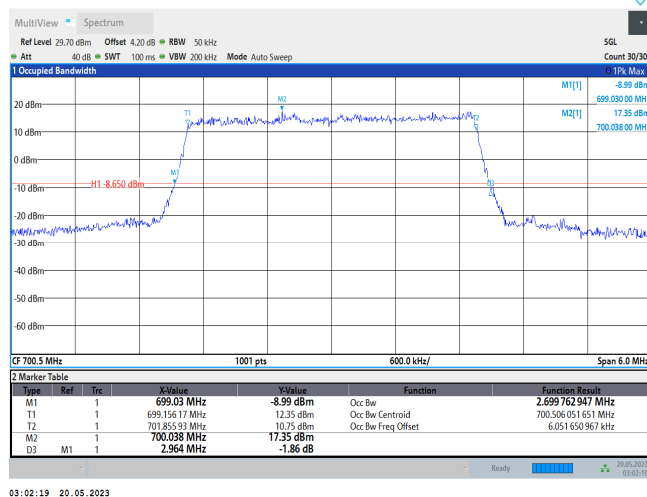
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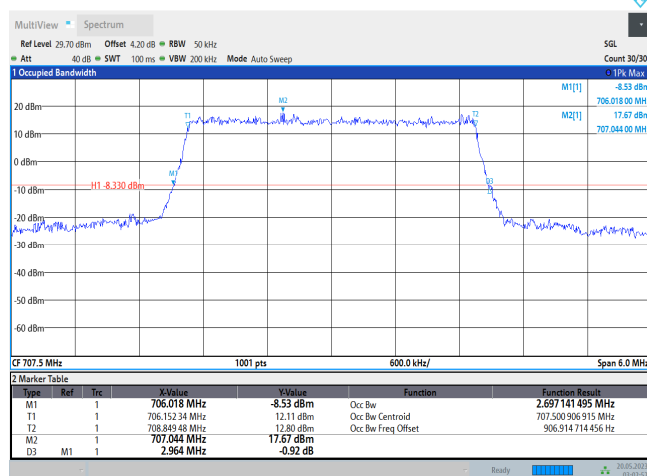
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### Band12-3MHz-QPSK-23025-15RB#0



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### Band12-3MHz-QPSK-23095-15RB#0



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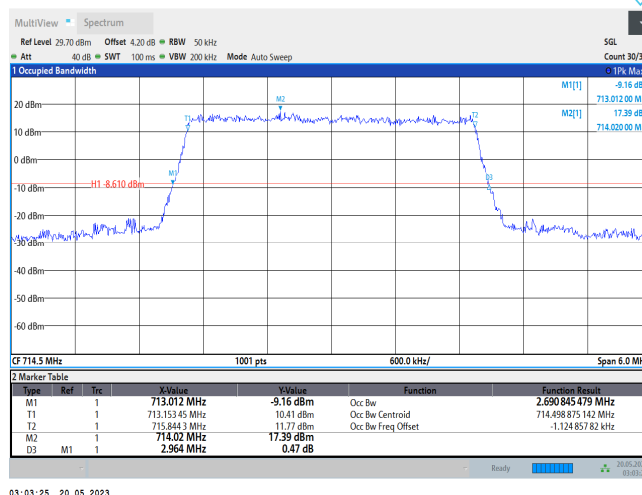
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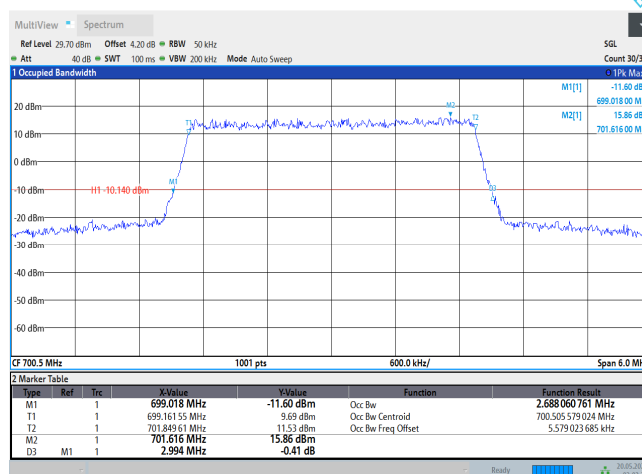
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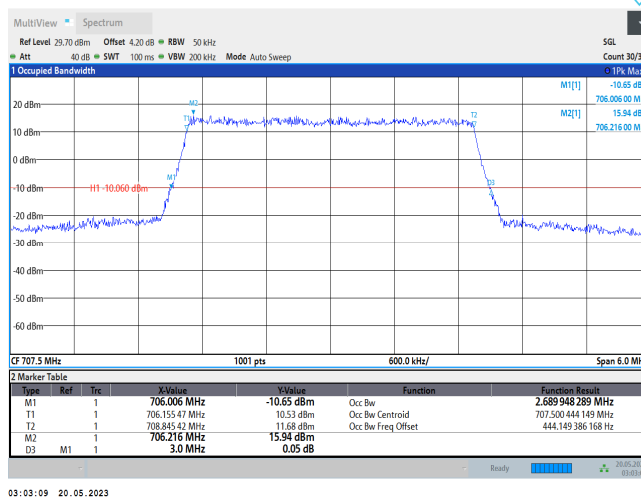
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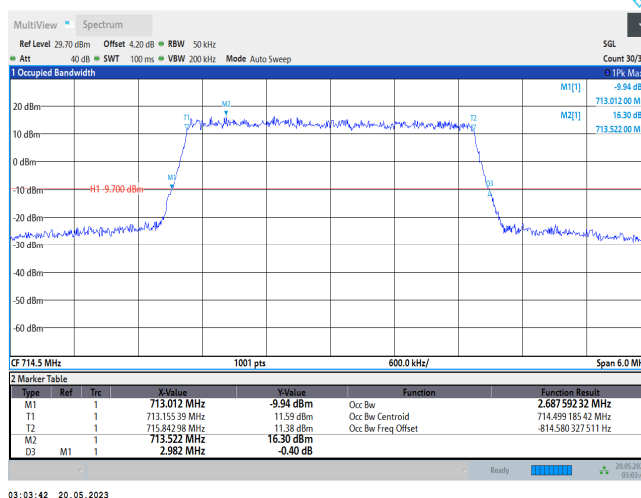
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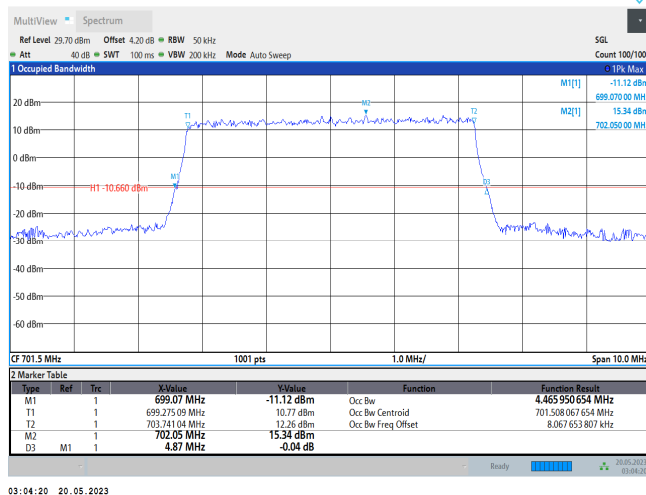


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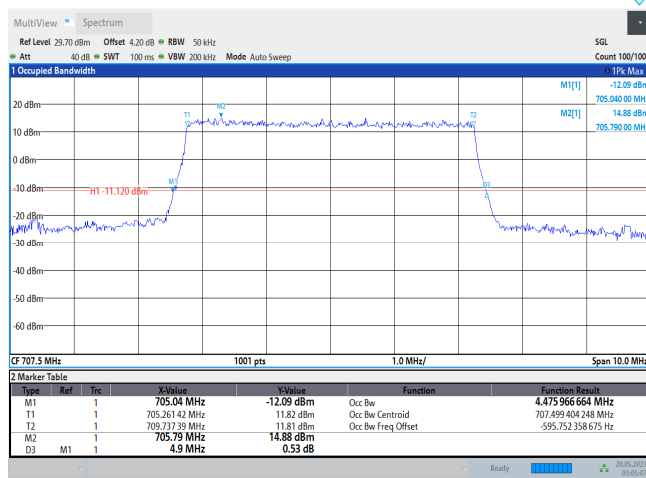
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## Band12-5MHz-QPSK-23035-25RB#0



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## Band12-5MHz-QPSK-23095-25RB#0



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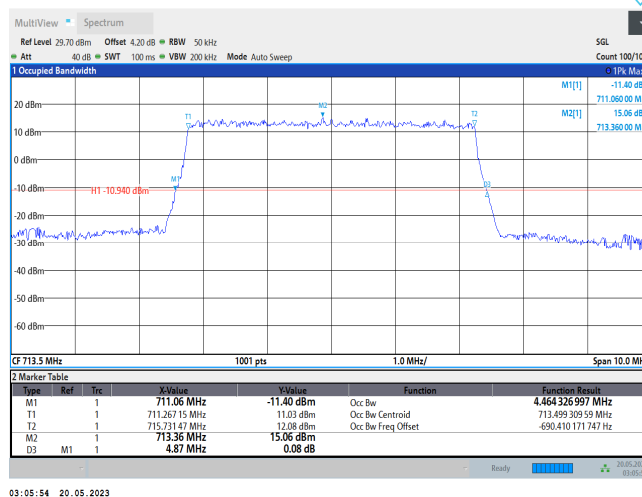
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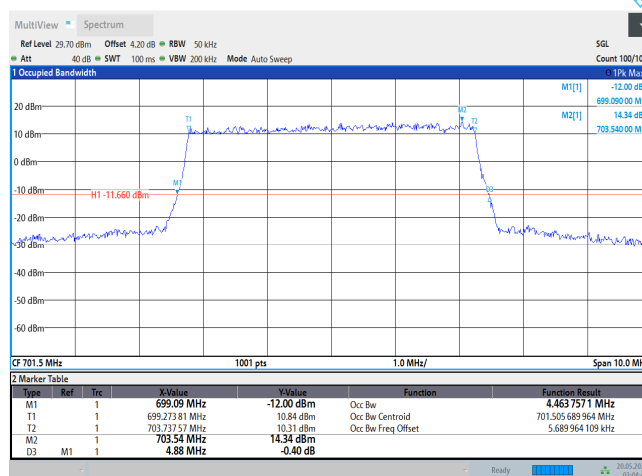
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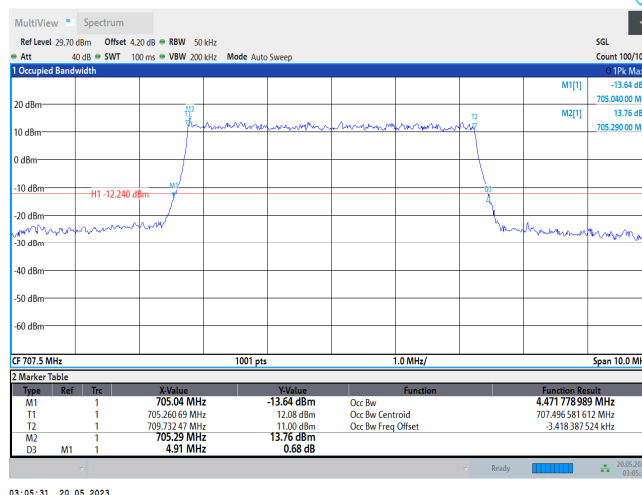
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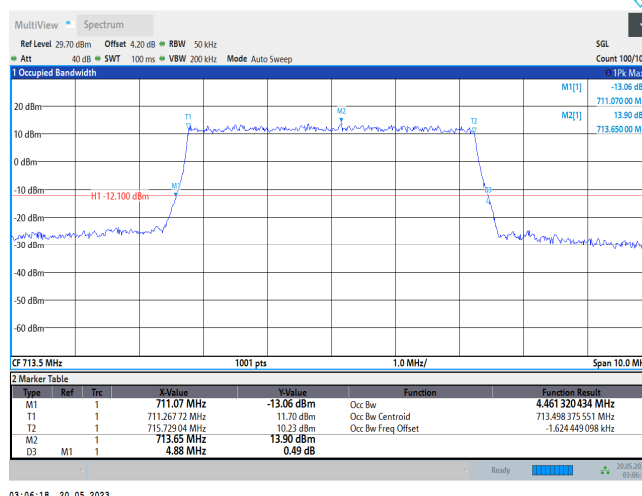
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### Band12-5MHz-16QAM-23095-25RB#0



### Band12-5MHz-16QAM-23155-25RB#0



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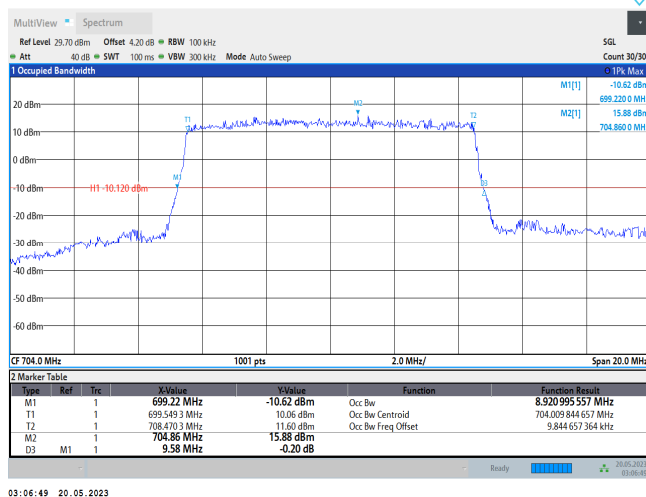
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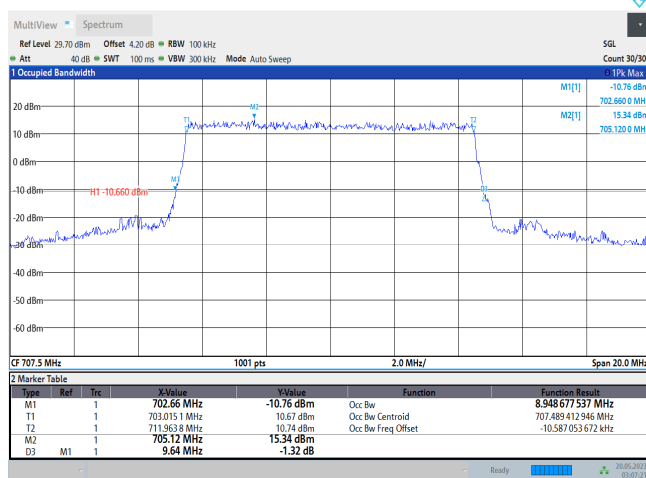
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## Band12-10MHz-QPSK-23060-50RB#0



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03:07:22 20.05.2023

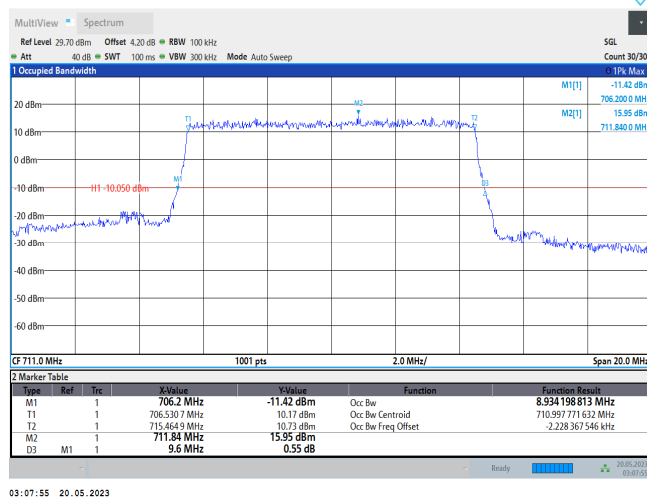


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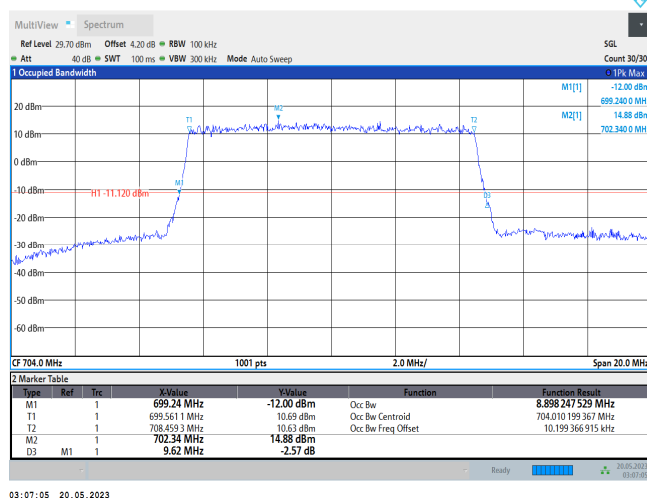
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### Band12-10MHz-QPSK-23130-50RB#0



### Band12-10MHz-16QAM-23060-50RB#0



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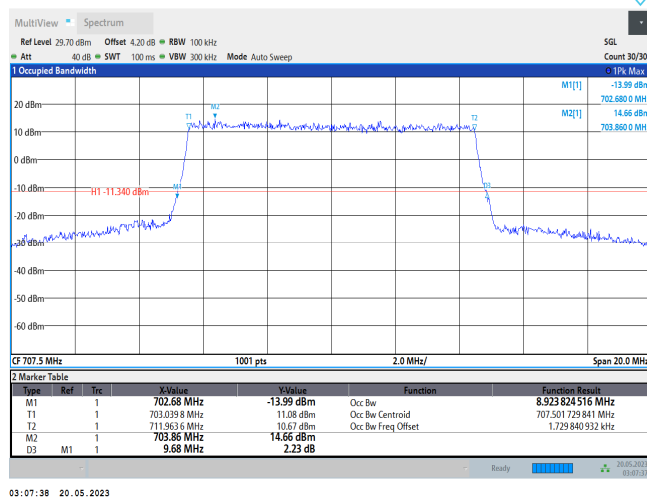
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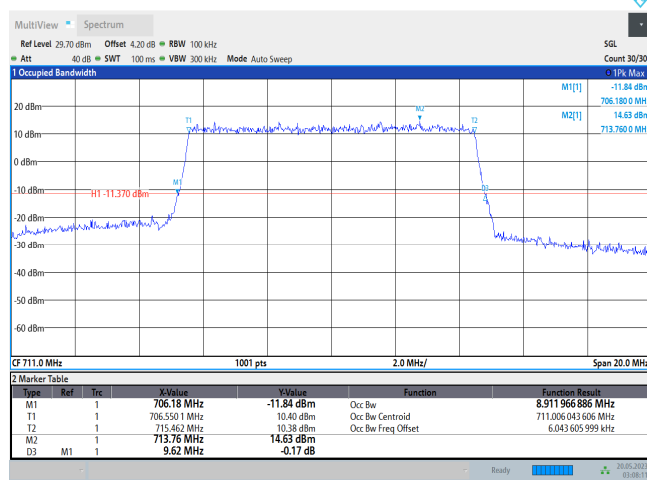
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### Band12-10MHz-16QAM-23095-50RB#0



03:07:38 20.05.2023

### Band12-10MHz-16QAM-23130-50RB#0



03:08:12 20.05.2023



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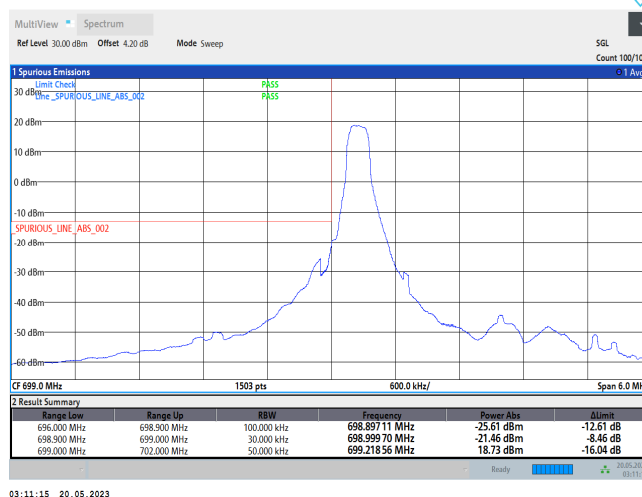
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### Band Edge

### Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0



Band12-1.4MHz-QPSK-23017-6RB#0



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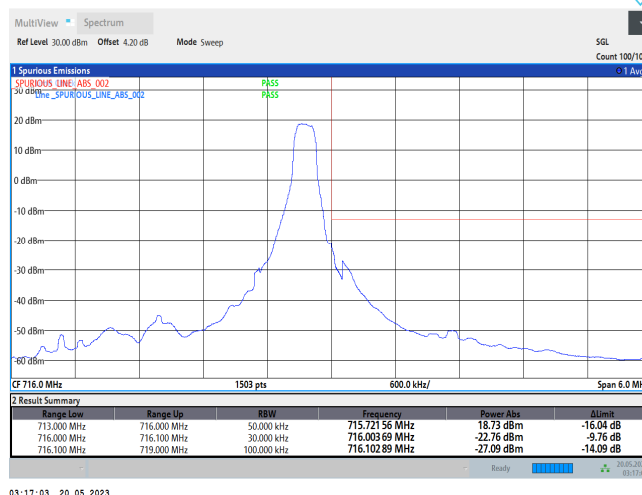
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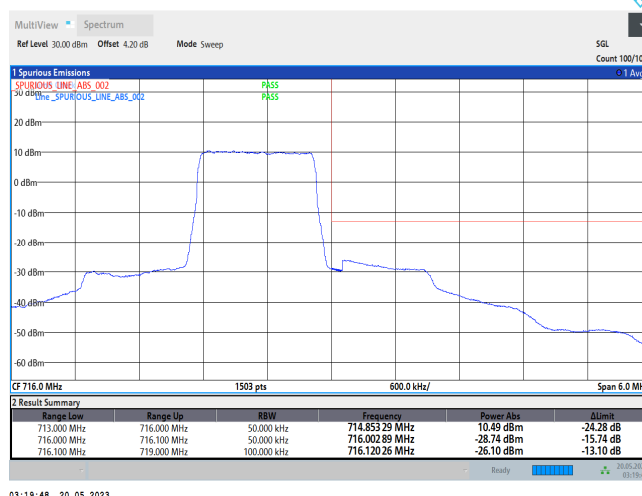
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### Band12-1.4MHz-QPSK-23173-1RB#5



### Band12-1.4MHz-QPSK-23173-6RB#0



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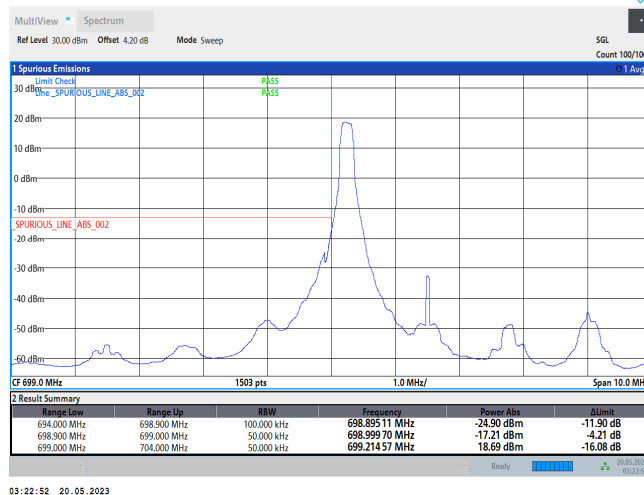
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### Band12-3MHz-QPSK-23025-1RB#0



03:22:52 20.05.2023

### Band12-3MHz-QPSK-23025-15RB#0



03:25:36 20.05.2023



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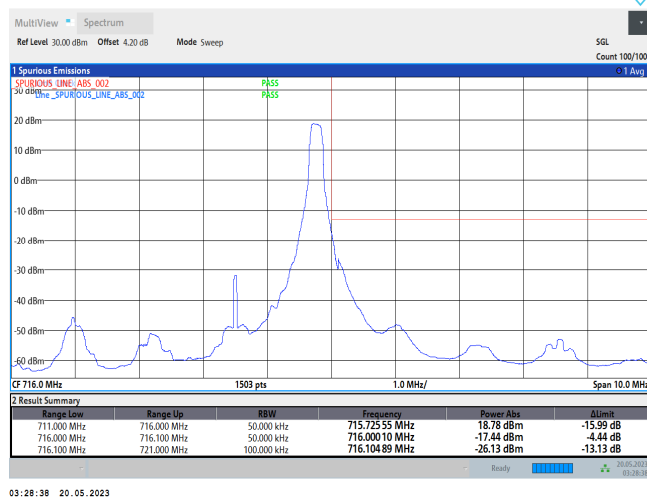
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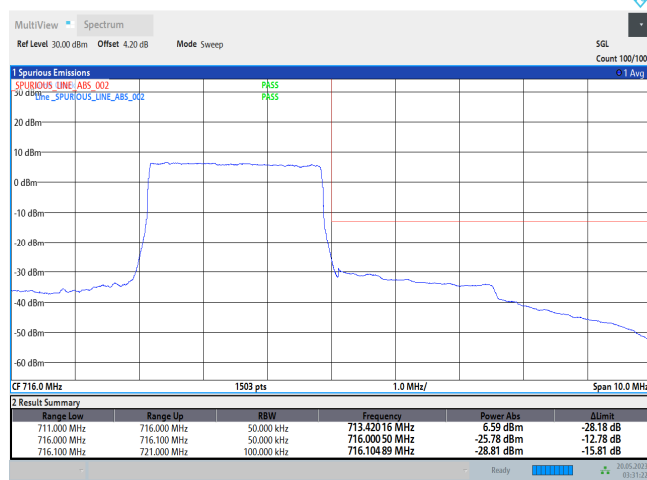
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03:28:38 20.05.2023

### Band12-3MHz-QPSK-23165-15RB#0



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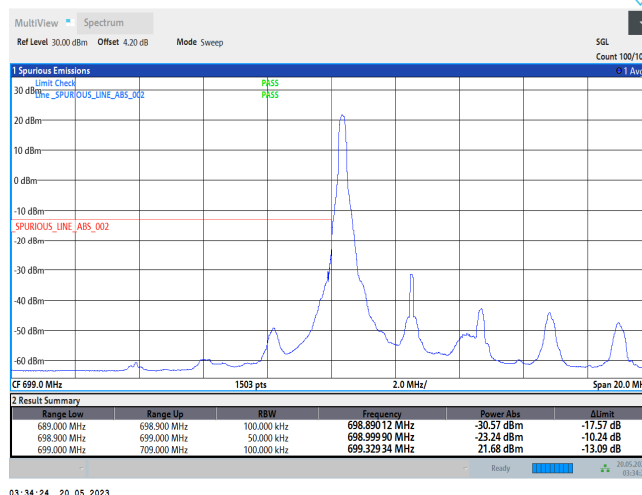


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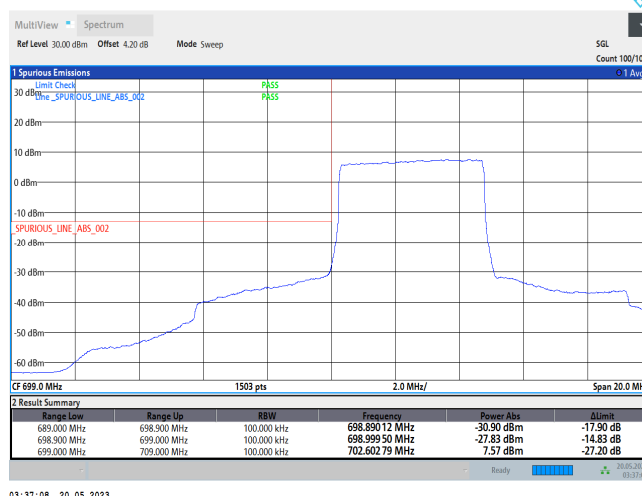
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### Band12-5MHz-QPSK-23035-25RB#0



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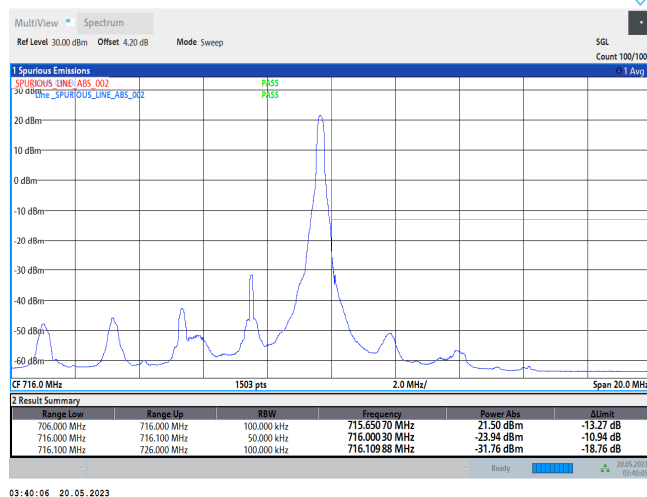
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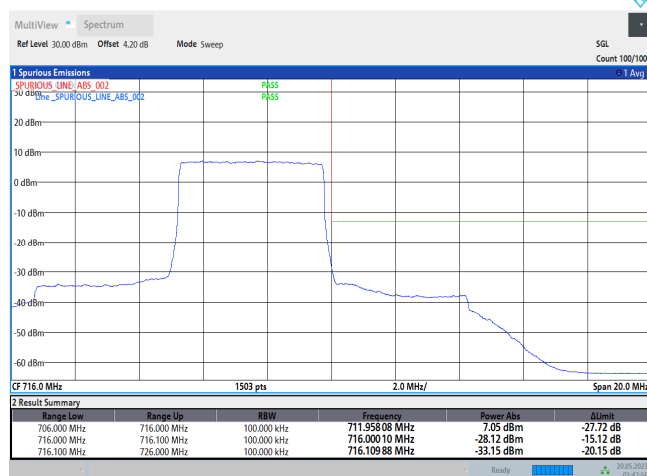
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03:40:06 20.05.2023

### Band12-5MHz-QPSK-23155-25RB#0



03:42:50 20.05.2023



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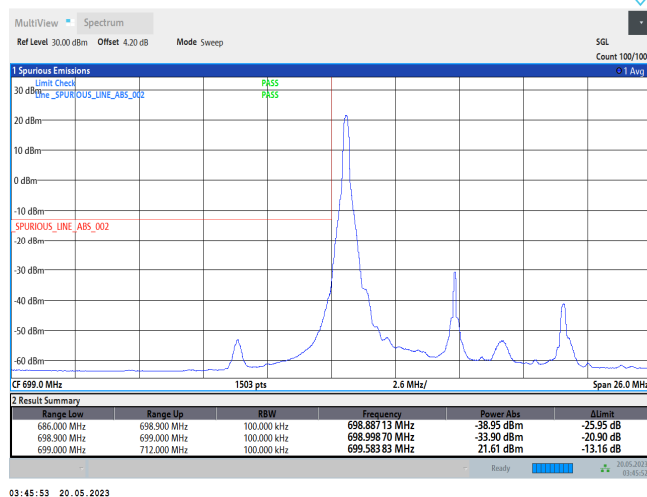
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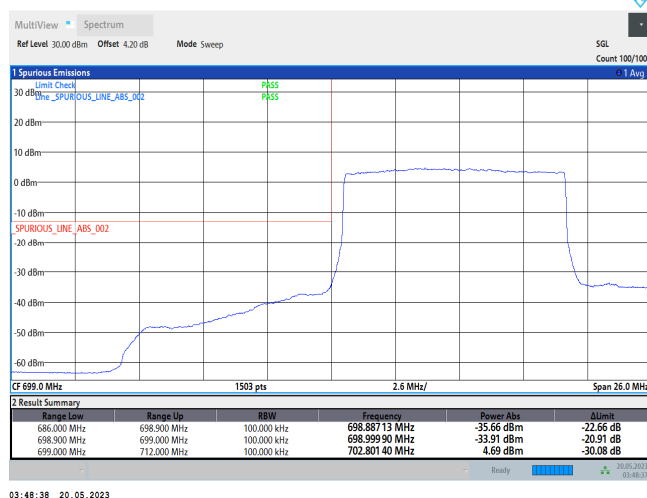
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### Band12-10MHz-QPSK-23060-1RB#0



### Band12-10MHz-QPSK-23060-50RB#0



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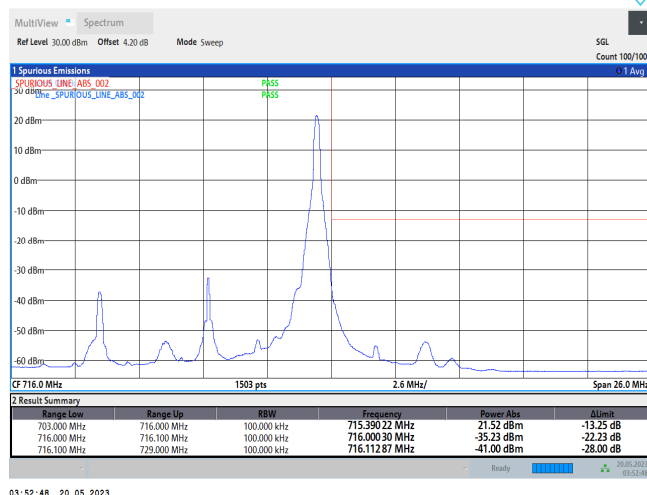
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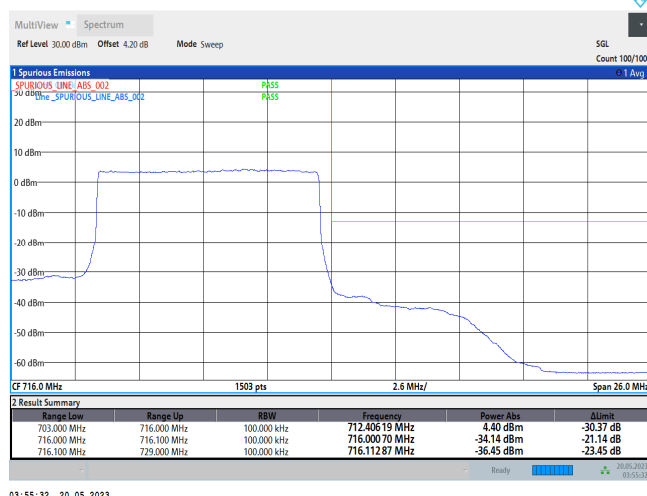
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### Band12-10MHz-QPSK-23130-1RB#49



03:52:48 20.05.2023

### Band12-10MHz-QPSK-23130-50RB#0



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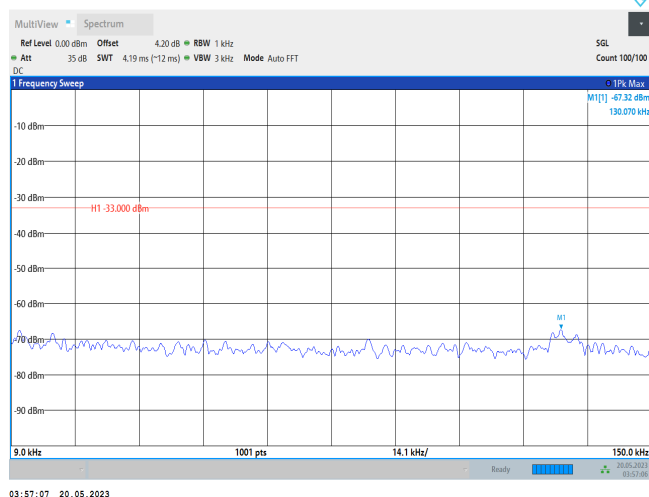
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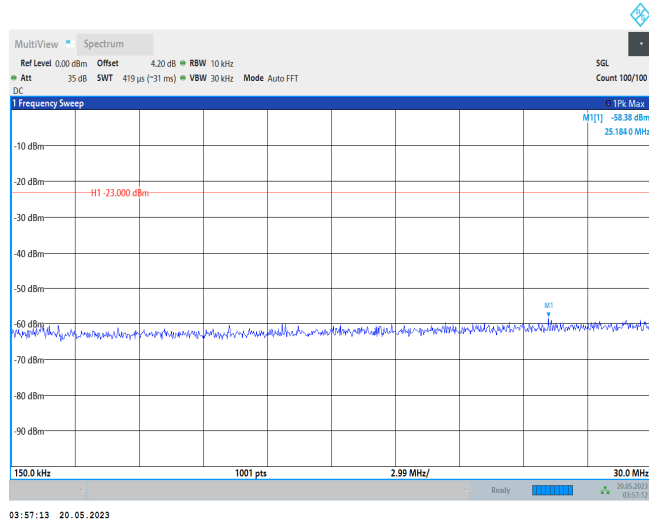
## Conducted Spurious Emission

### Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



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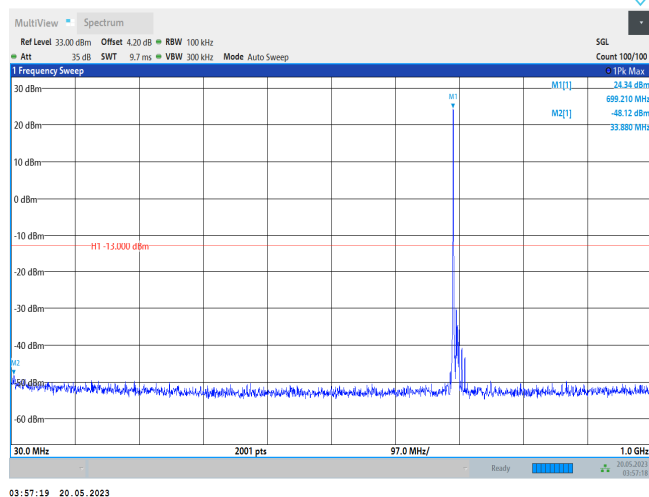
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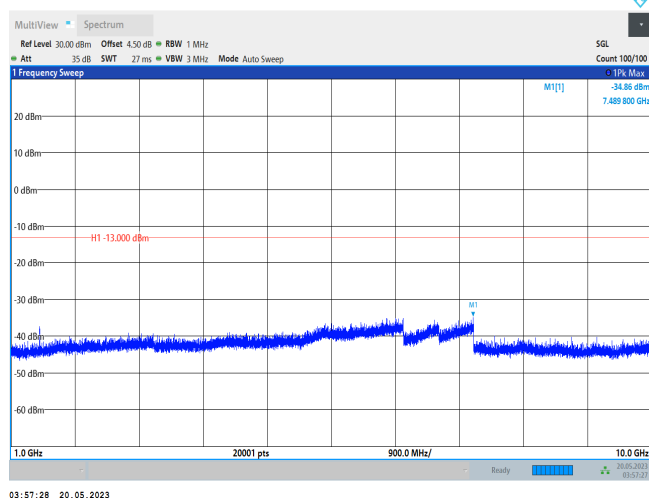
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### Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



### Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



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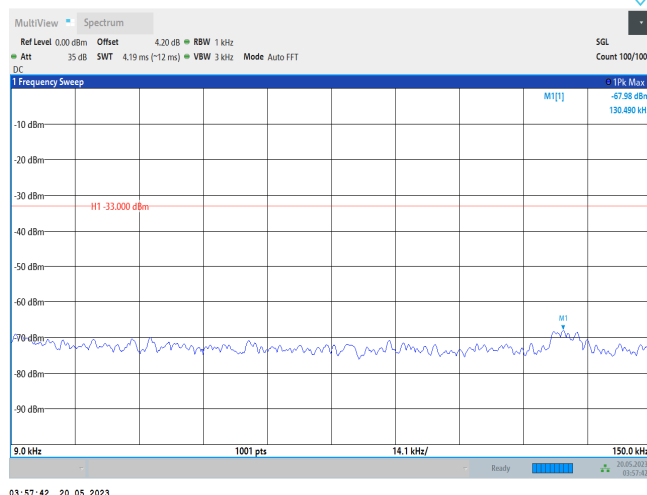


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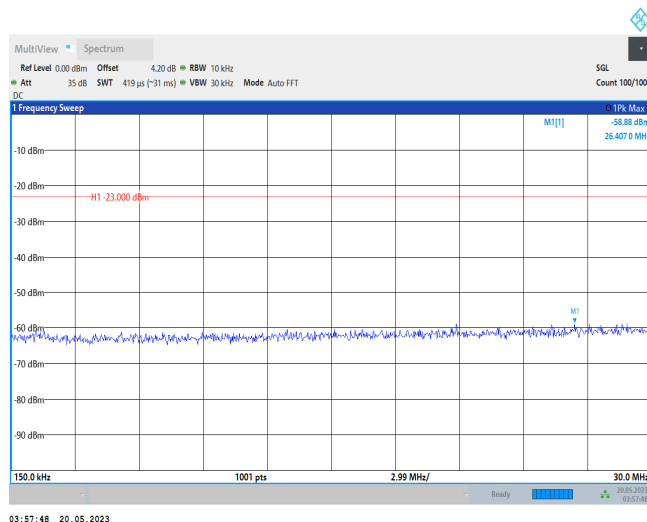
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### Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



### Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



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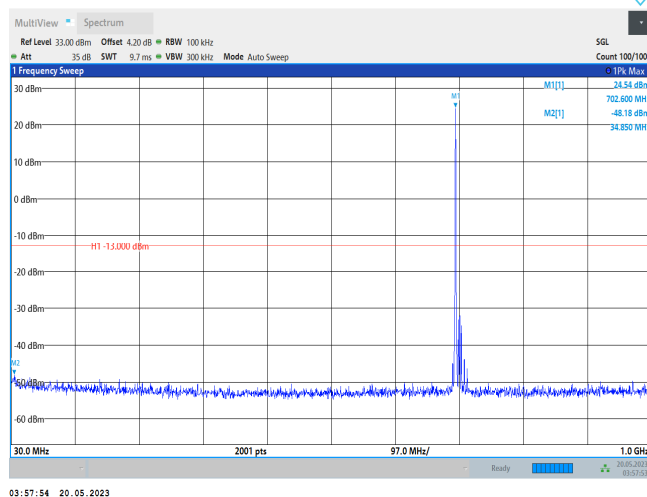
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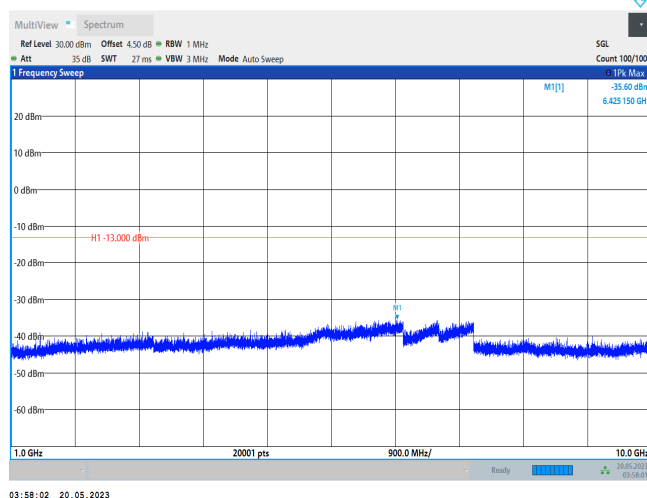
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### Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



### Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



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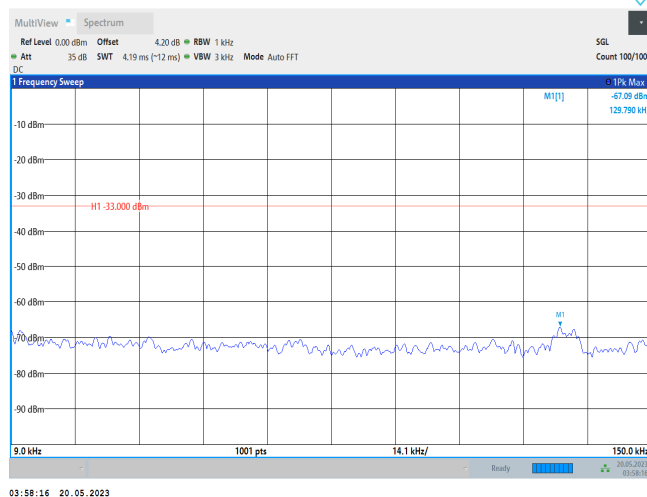
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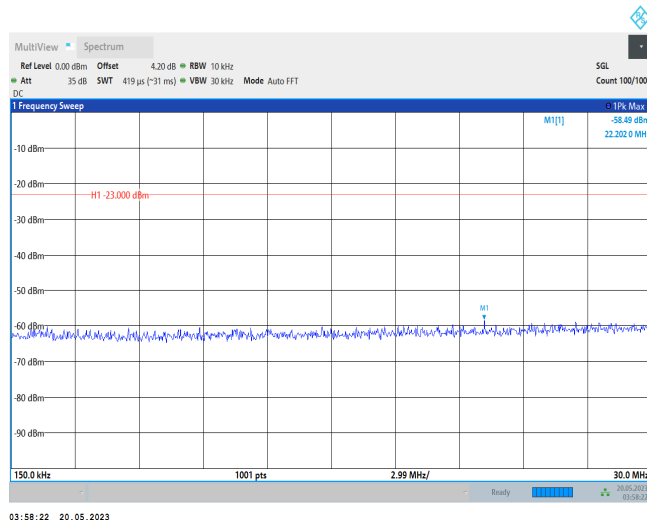
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### Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



### Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



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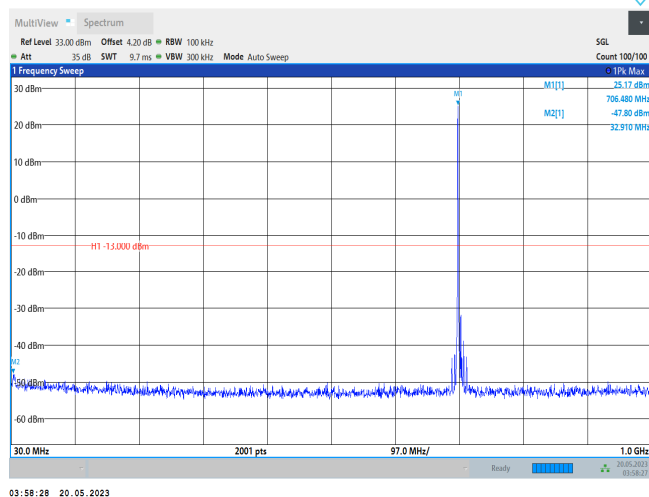
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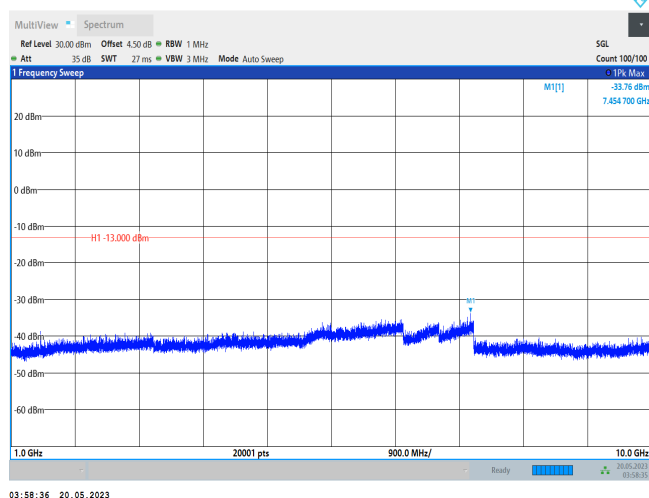
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### Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



### Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

**Test Band = LTE Band 12\_10MHz\_ TM1**
**Test Channel = Mid Channel**

| 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] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1399.18            | 50.30             | -48.73         | 25.40    | -68.29         | -13.00         | 55.29          | 196            | 9            | Horizontal |
| 2               | 2098.77            | 41.47             | -47.88         | 27.10    | -74.57         | -13.00         | 61.57          | 254            | 255          | Horizontal |
| 3               | 2798.36            | 42.46             | -46.69         | 28.91    | -70.57         | -13.00         | 57.57          | 142            | 255          | Horizontal |
| 4               | 3497.95            | 42.86             | -46.05         | 29.40    | -69.05         | -13.00         | 56.05          | 109            | 105          | Horizontal |
| 5               | 4197.54            | 41.23             | -45.12         | 30.92    | -68.23         | -13.00         | 55.23          | 255            | 229          | Horizontal |
| 6               | 4897.13            | 40.76             | -45.14         | 32.35    | -67.28         | -13.00         | 54.28          | 263            | 45           | 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] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1399.18            | 50.90             | -48.73         | 25.40    | -67.69         | -13.00         | 54.69          | 296            | 102          | Vertical |
| 2               | 2098.77            | 43.73             | -47.88         | 27.10    | -72.31         | -13.00         | 59.31          | 265            | 209          | Vertical |
| 3               | 2798.36            | 43.47             | -46.69         | 28.91    | -69.56         | -13.00         | 56.56          | 241            | 357          | Vertical |
| 4               | 3497.95            | 42.67             | -46.05         | 29.40    | -69.24         | -13.00         | 56.24          | 142            | 284          | Vertical |
| 5               | 4197.54            | 41.29             | -45.12         | 30.92    | -68.17         | -13.00         | 55.17          | 263            | 43           | Vertical |
| 6               | 4897.13            | 40.38             | -45.14         | 32.35    | -67.66         | -13.00         | 54.66          | 225            | 351          | Vertical |



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**Test Band = LTE Band 12\_10MHz\_TM1**
**Test Channel = Mid Channel**

| 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] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1406.18            | 48.55             | -48.71         | 25.41    | -70.02         | -13.00         | 57.02          | 265            | 355          | Horizontal |
| 2               | 2109.27            | 41.25             | -47.87         | 27.12    | -74.76         | -13.00         | 61.76          | 295            | 360          | Horizontal |
| 3               | 2812.36            | 42.73             | -46.70         | 28.96    | -70.26         | -13.00         | 57.26          | 284            | 192          | Horizontal |
| 4               | 3515.45            | 42.08             | -46.03         | 29.44    | -69.78         | -13.00         | 56.78          | 142            | 42           | Horizontal |
| 5               | 4218.54            | 40.57             | -45.11         | 30.95    | -68.85         | -13.00         | 55.85          | 254            | 87           | Horizontal |
| 6               | 4921.63            | 39.56             | -45.12         | 32.41    | -68.41         | -13.00         | 55.41          | 177            | 192          | 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] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1406.18            | 51.81             | -48.71         | 25.41    | -66.76         | -13.00         | 53.76          | 296            | 166          | Vertical |
| 2               | 2109.27            | 40.84             | -47.87         | 27.12    | -75.17         | -13.00         | 62.17          | 254            | 75           | Vertical |
| 3               | 2812.36            | 42.63             | -46.70         | 28.96    | -70.36         | -13.00         | 57.36          | 142            | 106          | Vertical |
| 4               | 3515.45            | 42.24             | -46.03         | 29.44    | -69.62         | -13.00         | 56.62          | 255            | 180          | Vertical |
| 5               | 4218.54            | 40.52             | -45.11         | 30.95    | -68.90         | -13.00         | 55.90          | 263            | 166          | Vertical |
| 6               | 4921.63            | 40.15             | -45.12         | 32.41    | -67.82         | -13.00         | 54.82          | 365            | 120          | Vertical |



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**Test Band = LTE Band 12\_10MHz\_TM1**
**Test Channel = Mid Channel**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1413.18         | 52.63          | -48.70      | 25.41    | -65.91      | -13.00      | 52.91       | 196         | 360       | Horizontal |
| 2               | 2119.77         | 42.03          | -47.85      | 27.14    | -73.94      | -13.00      | 60.94       | 265         | 359       | Horizontal |
| 3               | 2826.36         | 41.86          | -46.71      | 29.01    | -71.10      | -13.00      | 58.10       | 284         | 14        | Horizontal |
| 4               | 3532.95         | 41.83          | -46.01      | 29.48    | -69.96      | -13.00      | 56.96       | 142         | 360       | Horizontal |
| 5               | 4239.54         | 40.65          | -45.11      | 30.98    | -68.74      | -13.00      | 55.74       | 263         | 343       | Horizontal |
| 6               | 4946.13         | 39.61          | -45.08      | 32.47    | -68.26      | -13.00      | 55.26       | 228         | 285       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1413.18         | 49.70          | -48.70      | 25.41    | -68.84      | -13.00      | 55.84       | 296         | 0         | Vertical |
| 2               | 2119.77         | 42.08          | -47.85      | 27.14    | -73.89      | -13.00      | 60.89       | 265         | 286       | Vertical |
| 3               | 2826.36         | 43.06          | -46.71      | 29.01    | -69.90      | -13.00      | 56.90       | 284         | 286       | Vertical |
| 4               | 3532.95         | 41.61          | -46.01      | 29.48    | -70.18      | -13.00      | 57.18       | 142         | 181       | Vertical |
| 5               | 4239.54         | 41.57          | -45.11      | 30.98    | -67.82      | -13.00      | 54.82       | 263         | 1         | Vertical |
| 6               | 4946.13         | 39.72          | -45.08      | 32.47    | -68.15      | -13.00      | 55.15       | 228         | 135       | 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 |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | VL            | NT               | -0.40          | -0.000565       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | VN            | NT               | -4.00          | -0.005654       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | VH            | NT               | 2.40           | 0.003392        | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -30              | -1.20          | -0.001696       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -20              | -5.10          | -0.007208       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -10              | -3.30          | -0.004664       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 0                | -1.00          | -0.001413       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 10               | -3.90          | -0.005512       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 20               | -3.40          | -0.004806       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 30               | -2.10          | -0.002968       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 40               | -5.70          | -0.008057       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 50               | -4.00          | -0.005654       | PASS    |

---End of Attachment---



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