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# Appendix B.16

## LTE Band 71



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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 |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band71 | 5MHz      | QPSK       | 133147  | 1RB#0            | 23.91       | 23.96    | 34.77      | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 1RB#12           | 23.84       | 23.89    | 34.77      | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 1RB#24           | 23.78       | 23.83    | 34.77      | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | 22.95       | 23       | 34.77      | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 1RB#0            | 23.82       | 23.87    | 34.77      | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 1RB#12           | 23.85       | 23.9     | 34.77      | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 1RB#24           | 23.73       | 23.78    | 34.77      | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 25RB#0           | 22.92       | 22.97    | 34.77      | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 1RB#0            | 23.82       | 23.87    | 34.77      | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 1RB#12           | 23.71       | 23.76    | 34.77      | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 1RB#24           | 23.68       | 23.73    | 34.77      | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | 22.79       | 22.84    | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 1RB#0            | 23.24       | 23.29    | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 1RB#12           | 23.01       | 23.06    | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 1RB#24           | 22.96       | 23.01    | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 25RB#0           | 21.95       | 22       | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 1RB#0            | 23.09       | 23.14    | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 1RB#12           | 23.06       | 23.11    | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 1RB#24           | 23.09       | 23.14    | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 25RB#0           | 21.87       | 21.92    | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 1RB#0            | 23.04       | 23.09    | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 1RB#12           | 22.94       | 22.99    | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 1RB#24           | 22.96       | 23.01    | 34.77      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 25RB#0           | 21.84       | 21.89    | 34.77      | PASS    |
| Band71 | 5MHz      | 64QAM      | 133147  | 1RB#0            | 22.29       | 22.34    | 34.77      | PASS    |
| Band71 | 5MHz      | 64QAM      | 133147  | 1RB#12           | 22.11       | 22.16    | 34.77      | PASS    |
| Band71 | 5MHz      | 64QAM      | 133147  | 1RB#24           | 21.95       | 22       | 34.77      | PASS    |



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|--------|-------|-------|--------|--------|-------|-------|-------|------|
| Band71 | 5MHz  | 64QAM | 133147 | 25RB#0 | 20.95 | 21    | 34.77 | PASS |
| Band71 | 5MHz  | 64QAM | 133297 | 1RB#0  | 22.05 | 22.1  | 34.77 | PASS |
| Band71 | 5MHz  | 64QAM | 133297 | 1RB#12 | 22.04 | 22.09 | 34.77 | PASS |
| Band71 | 5MHz  | 64QAM | 133297 | 1RB#24 | 21.93 | 21.98 | 34.77 | PASS |
| Band71 | 5MHz  | 64QAM | 133297 | 25RB#0 | 20.89 | 20.94 | 34.77 | PASS |
| Band71 | 5MHz  | 64QAM | 133447 | 1RB#0  | 22.07 | 22.12 | 34.77 | PASS |
| Band71 | 5MHz  | 64QAM | 133447 | 1RB#12 | 22.04 | 22.09 | 34.77 | PASS |
| Band71 | 5MHz  | 64QAM | 133447 | 1RB#24 | 21.99 | 22.04 | 34.77 | PASS |
| Band71 | 5MHz  | 64QAM | 133447 | 25RB#0 | 20.88 | 20.93 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133172 | 1RB#0  | 23.89 | 23.94 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133172 | 1RB#24 | 23.74 | 23.79 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133172 | 1RB#49 | 23.68 | 23.73 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133172 | 50RB#0 | 22.89 | 22.94 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 1RB#0  | 23.92 | 23.97 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 1RB#24 | 23.83 | 23.88 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 1RB#49 | 23.64 | 23.69 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 50RB#0 | 22.88 | 22.93 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 1RB#0  | 23.97 | 24.02 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 1RB#24 | 23.76 | 23.81 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 1RB#49 | 23.56 | 23.61 | 34.77 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 50RB#0 | 22.74 | 22.79 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 1RB#0  | 23.12 | 23.17 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 1RB#24 | 23.15 | 23.2  | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 1RB#49 | 23.11 | 23.16 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 50RB#0 | 21.91 | 21.96 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 1RB#0  | 23    | 23.05 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 1RB#24 | 23.12 | 23.17 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 1RB#49 | 23    | 23.05 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 50RB#0 | 21.82 | 21.87 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 1RB#0  | 23.12 | 23.17 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 1RB#24 | 23.23 | 23.28 | 34.77 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 1RB#49 | 23.06 | 23.11 | 34.77 | PASS |



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| Band71 | 10MHz | 16QAM | 133422 | 50RB#0 | 21.79 | 21.84 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133172 | 1RB#0  | 22.03 | 22.08 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133172 | 1RB#24 | 21.99 | 22.04 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133172 | 1RB#49 | 21.92 | 21.97 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133172 | 50RB#0 | 20.94 | 20.99 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133297 | 1RB#0  | 21.79 | 21.84 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133297 | 1RB#24 | 21.93 | 21.98 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133297 | 1RB#49 | 21.69 | 21.74 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133297 | 50RB#0 | 20.94 | 20.99 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133422 | 1RB#0  | 21.82 | 21.87 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133422 | 1RB#24 | 21.91 | 21.96 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133422 | 1RB#49 | 21.88 | 21.93 | 34.77 | PASS |
| Band71 | 10MHz | 64QAM | 133422 | 50RB#0 | 20.89 | 20.94 | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 1RB#0  | 23.84 | 23.89 | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 1RB#38 | 23.73 | 23.78 | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 1RB#74 | 23.72 | 23.77 | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 75RB#0 | 22.85 | 22.9  | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 1RB#0  | 23.85 | 23.9  | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 1RB#38 | 23.78 | 23.83 | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 1RB#74 | 23.62 | 23.67 | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 75RB#0 | 22.92 | 22.97 | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 1RB#0  | 23.85 | 23.9  | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 1RB#38 | 23.72 | 23.77 | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 1RB#74 | 23.65 | 23.7  | 34.77 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 75RB#0 | 22.78 | 22.83 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 1RB#0  | 23.13 | 23.18 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 1RB#38 | 22.9  | 22.95 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 1RB#74 | 22.84 | 22.89 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 75RB#0 | 22.01 | 22.06 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 1RB#0  | 22.9  | 22.95 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 1RB#38 | 22.99 | 23.04 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 1RB#74 | 22.98 | 23.03 | 34.77 | PASS |



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| Band71 | 15MHz | 16QAM | 133297 | 75RB#0  | 21.72 | 21.77 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 1RB#0   | 23.07 | 23.12 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 1RB#38  | 22.88 | 22.93 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 1RB#74  | 22.79 | 22.84 | 34.77 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 75RB#0  | 22.15 | 22.2  | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133197 | 1RB#0   | 22.19 | 22.24 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133197 | 1RB#38  | 22.01 | 22.06 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133197 | 1RB#74  | 22.03 | 22.08 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133197 | 75RB#0  | 20.78 | 20.83 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133297 | 1RB#0   | 22.15 | 22.2  | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133297 | 1RB#38  | 22.09 | 22.14 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133297 | 1RB#74  | 21.99 | 22.04 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133297 | 75RB#0  | 20.99 | 21.04 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133397 | 1RB#0   | 22    | 22.05 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133397 | 1RB#38  | 22.09 | 22.14 | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133397 | 1RB#74  | 21.95 | 22    | 34.77 | PASS |
| Band71 | 15MHz | 64QAM | 133397 | 75RB#0  | 20.9  | 20.95 | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 1RB#0   | 23.93 | 23.98 | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 1RB#49  | 23.64 | 23.69 | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 1RB#99  | 23.65 | 23.7  | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 100RB#0 | 22.88 | 22.93 | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 1RB#0   | 23.78 | 23.83 | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 1RB#49  | 23.71 | 23.76 | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 1RB#99  | 23.79 | 23.84 | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 100RB#0 | 22.82 | 22.87 | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 1RB#0   | 23.74 | 23.79 | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 1RB#49  | 23.87 | 23.92 | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 1RB#99  | 23.71 | 23.76 | 34.77 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 100RB#0 | 22.85 | 22.9  | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 1RB#0   | 23.13 | 23.18 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 1RB#49  | 22.91 | 22.96 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 1RB#99  | 22.93 | 22.98 | 34.77 | PASS |



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| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | 21.9  | 21.95 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 1RB#0   | 23.12 | 23.17 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 1RB#49  | 22.95 | 23    | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 1RB#99  | 23.01 | 23.06 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | 21.89 | 21.94 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 1RB#0   | 22.99 | 23.04 | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 1RB#49  | 22.85 | 22.9  | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 1RB#99  | 22.95 | 23    | 34.77 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | 21.85 | 21.9  | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133222 | 1RB#0   | 22.12 | 22.17 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133222 | 1RB#49  | 22.05 | 22.1  | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133222 | 1RB#99  | 21.98 | 22.03 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133222 | 100RB#0 | 21.01 | 21.06 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 1RB#0   | 22.14 | 22.19 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 1RB#49  | 22.02 | 22.07 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 1RB#99  | 22.03 | 22.08 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 100RB#0 | 20.9  | 20.95 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133372 | 1RB#0   | 22.03 | 22.08 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133372 | 1RB#49  | 22.01 | 22.06 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133372 | 1RB#99  | 21.98 | 22.03 | 34.77 | PASS |
| Band71 | 20MHz | 64QAM | 133372 | 100RB#0 | 20.9  | 20.95 | 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 |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0          | 5.36       | 13        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0          | 5.58       | 13        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0          | 5.42       | 13        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0          | 6.04       | 13        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133322  | 100RB#0          | 6.24       | 13        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133372  | 100RB#0          | 6.18       | 13        | PASS    |
| Band71 | 20MHz     | 64QAM      | 133222  | 100RB#0          | 6.56       | 13        | PASS    |
| Band71 | 20MHz     | 64QAM      | 133322  | 100RB#0          | 6.74       | 13        | PASS    |
| Band71 | 20MHz     | 64QAM      | 133372  | 100RB#0          | 6.68       | 13        | PASS    |



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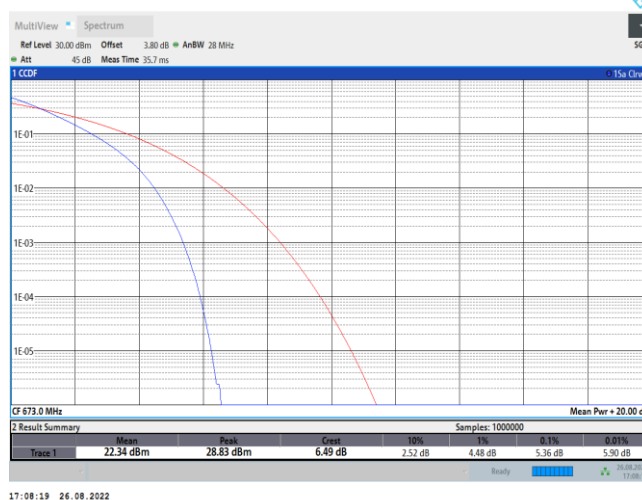
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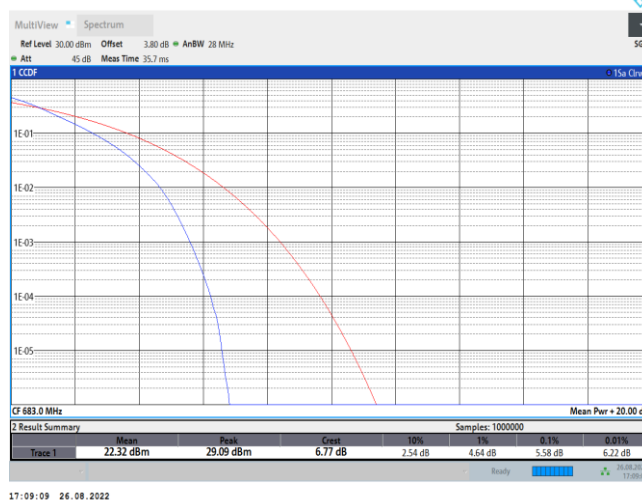
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### Test Graphs

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Band71-20MHz-QPSK-133322-100RB#0



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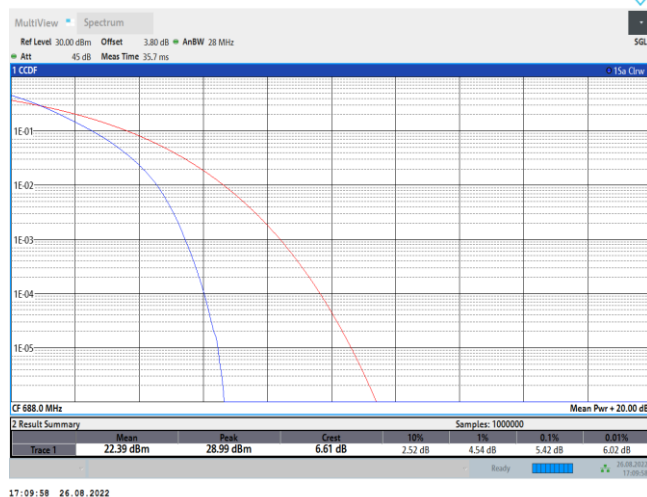
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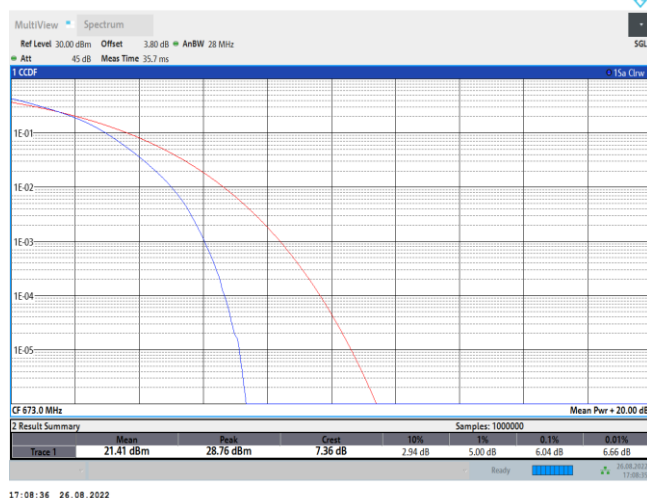
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### Band71-20MHz-QPSK-133372-100RB#0



### Band71-20MHz-16QAM-133222-100RB#0



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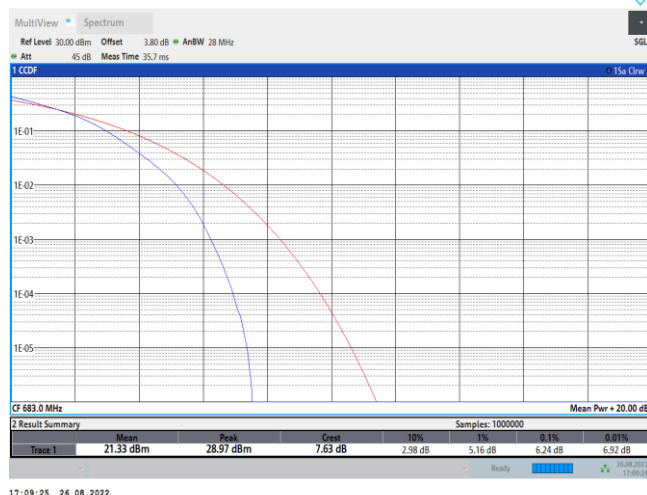
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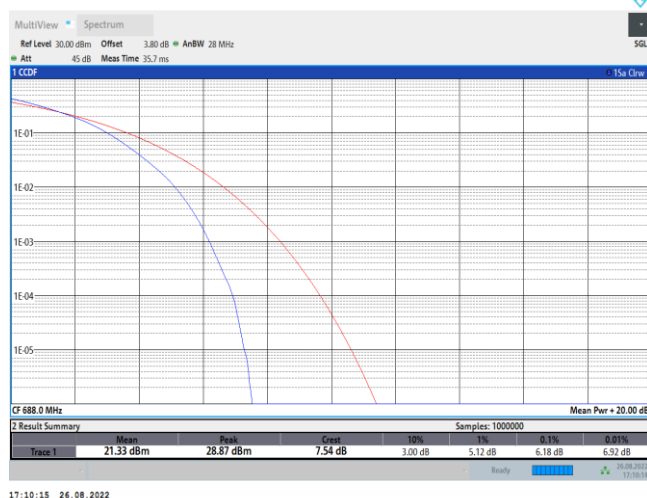
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### Band71-20MHz-16QAM-133322-100RB#0



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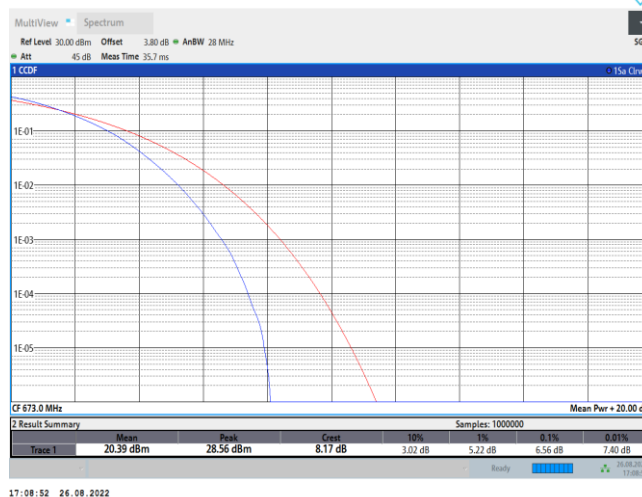
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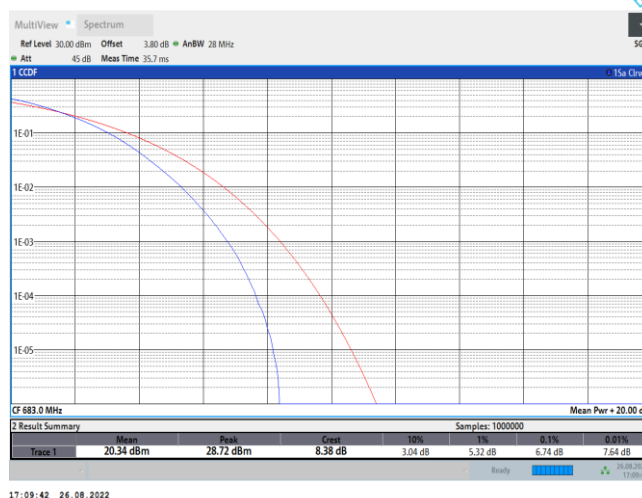
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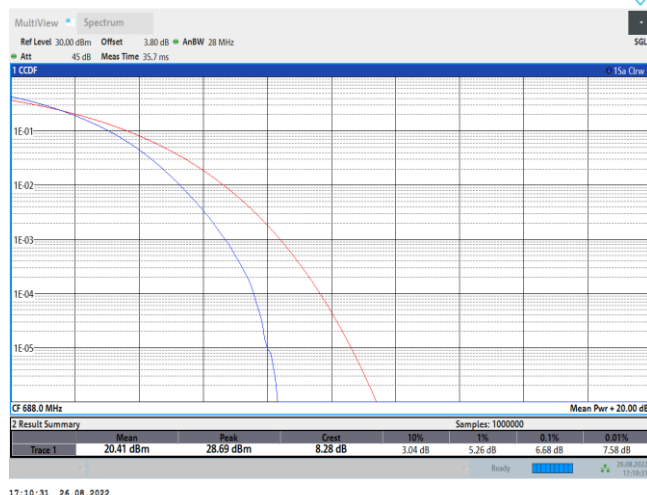
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## Modulation Characteristics

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0          | PASS   | PASS    |
| Band71 | 20MHz     | 16QAM      | 133322  | 100RB#0          | PASS   | PASS    |
| Band71 | 20MHz     | 64QAM      | 133322  | 100RB#0          | PASS   | PASS    |



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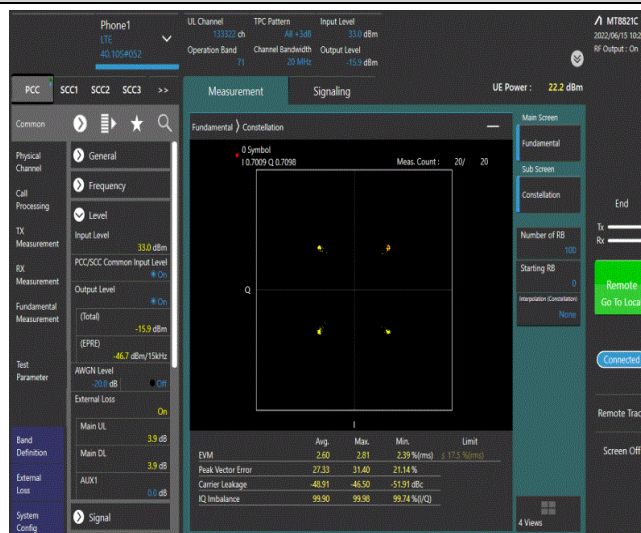
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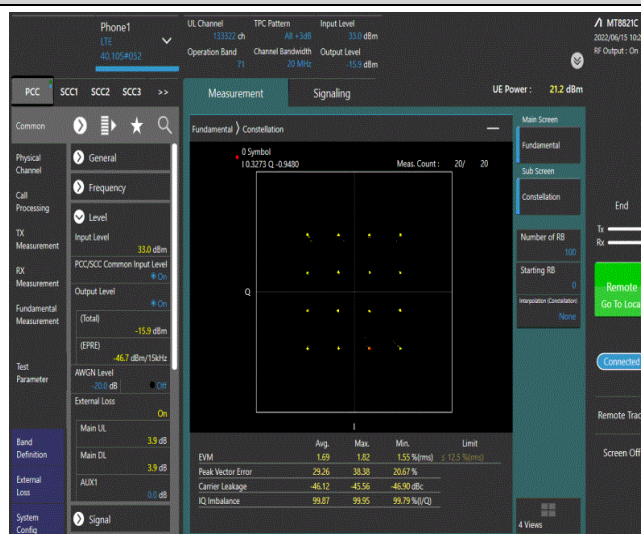
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### Test Graphs

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Band71-20MHz-16QAM-133322-100RB#0



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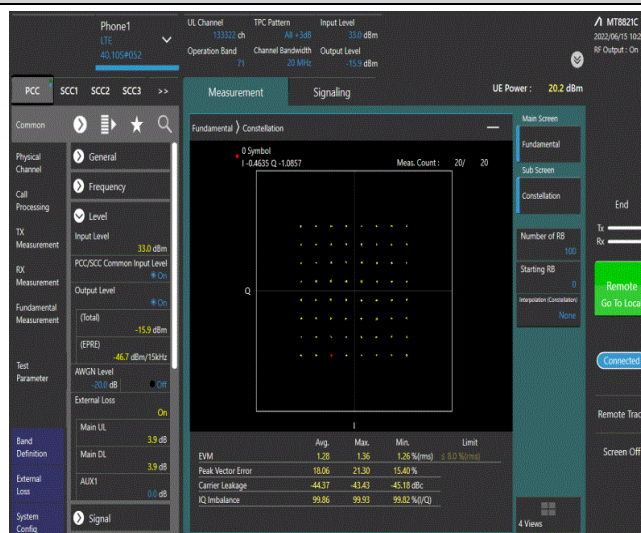
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | 4.469                    | 4.90                 | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 25RB#0           | 4.471                    | 4.91                 | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | 4.471                    | 4.90                 | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 25RB#0           | 4.465                    | 4.92                 | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 25RB#0           | 4.463                    | 4.91                 | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 25RB#0           | 4.469                    | 4.92                 | PASS    |
| Band71 | 5MHz      | 64QAM      | 133147  | 25RB#0           | 4.475                    | 4.89                 | PASS    |
| Band71 | 5MHz      | 64QAM      | 133297  | 25RB#0           | 4.477                    | 4.91                 | PASS    |
| Band71 | 5MHz      | 64QAM      | 133447  | 25RB#0           | 4.478                    | 4.93                 | PASS    |
| Band71 | 10MHz     | QPSK       | 133172  | 50RB#0           | 8.929                    | 9.72                 | PASS    |
| Band71 | 10MHz     | QPSK       | 133297  | 50RB#0           | 8.922                    | 9.68                 | PASS    |
| Band71 | 10MHz     | QPSK       | 133422  | 50RB#0           | 8.922                    | 9.62                 | PASS    |
| Band71 | 10MHz     | 16QAM      | 133172  | 50RB#0           | 8.913                    | 9.64                 | PASS    |
| Band71 | 10MHz     | 16QAM      | 133297  | 50RB#0           | 8.91                     | 9.64                 | PASS    |
| Band71 | 10MHz     | 16QAM      | 133422  | 50RB#0           | 8.909                    | 9.62                 | PASS    |
| Band71 | 10MHz     | 64QAM      | 133172  | 50RB#0           | 8.925                    | 9.60                 | PASS    |
| Band71 | 10MHz     | 64QAM      | 133297  | 50RB#0           | 8.925                    | 9.62                 | PASS    |
| Band71 | 10MHz     | 64QAM      | 133422  | 50RB#0           | 8.919                    | 9.66                 | PASS    |
| Band71 | 15MHz     | QPSK       | 133197  | 75RB#0           | 13.499                   | 14.85                | PASS    |
| Band71 | 15MHz     | QPSK       | 133297  | 75RB#0           | 13.477                   | 14.88                | PASS    |
| Band71 | 15MHz     | QPSK       | 133397  | 75RB#0           | 13.48                    | 14.76                | PASS    |
| Band71 | 15MHz     | 16QAM      | 133197  | 75RB#0           | 13.487                   | 14.76                | PASS    |
| Band71 | 15MHz     | 16QAM      | 133297  | 75RB#0           | 13.455                   | 14.82                | PASS    |
| Band71 | 15MHz     | 16QAM      | 133397  | 75RB#0           | 13.46                    | 15.00                | PASS    |
| Band71 | 15MHz     | 64QAM      | 133197  | 75RB#0           | 13.465                   | 14.79                | PASS    |
| Band71 | 15MHz     | 64QAM      | 133297  | 75RB#0           | 13.436                   | 14.79                | PASS    |
| Band71 | 15MHz     | 64QAM      | 133397  | 75RB#0           | 13.427                   | 14.82                | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0          | 17.932                   | 19.56                | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0          | 17.965                   | 19.60                | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0          | 17.971                   | 19.44                | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0          | 17.876                   | 19.48                | PASS    |



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|        |       |       |        |         |        |       |      |
|--------|-------|-------|--------|---------|--------|-------|------|
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | 17.902 | 19.64 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | 17.908 | 19.36 | PASS |
| Band71 | 20MHz | 64QAM | 133222 | 100RB#0 | 17.872 | 19.48 | PASS |
| Band71 | 20MHz | 64QAM | 133322 | 100RB#0 | 17.907 | 19.36 | PASS |
| Band71 | 20MHz | 64QAM | 133372 | 100RB#0 | 17.886 | 19.64 | PASS |



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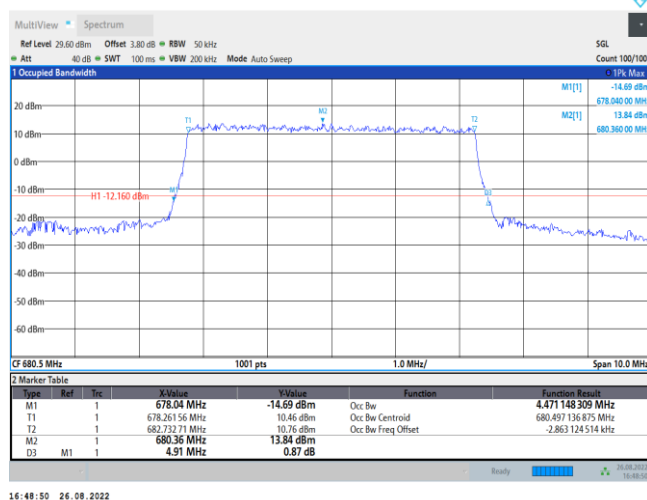
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### Test Graphs

Band71-5MHz-QPSK-133147-25RB#0



Band71-5MHz-QPSK-133297-25RB#0

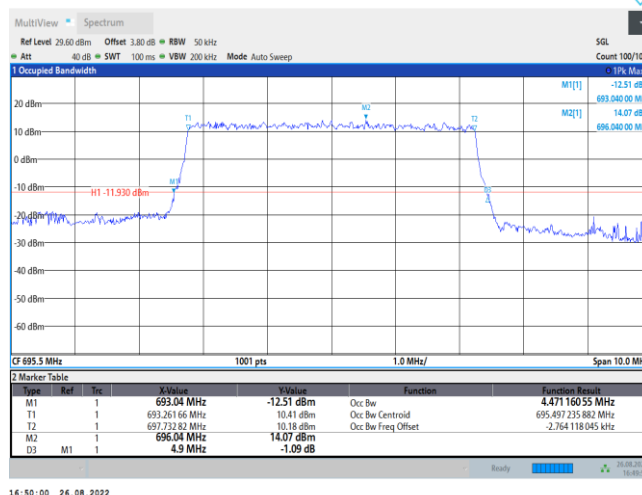


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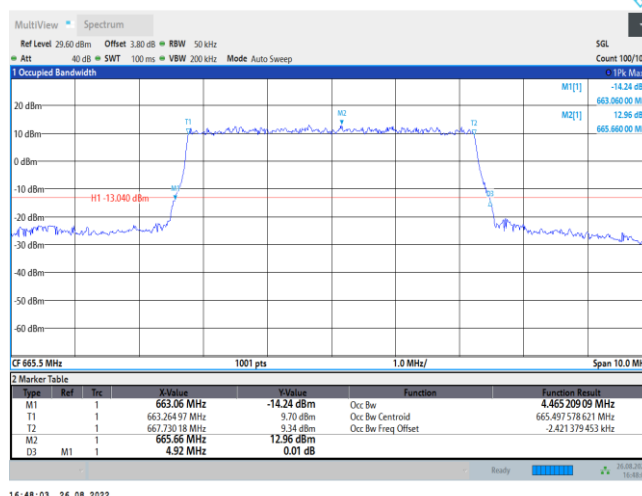
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### Band71-5MHz-QPSK-133447-25RB#0



16:50:00 26.08.2022

### Band71-5MHz-16QAM-133147-25RB#0



16:48:03 26.08.2022



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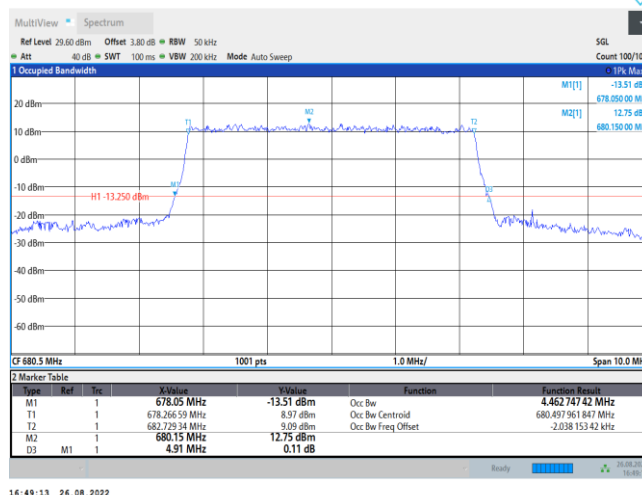
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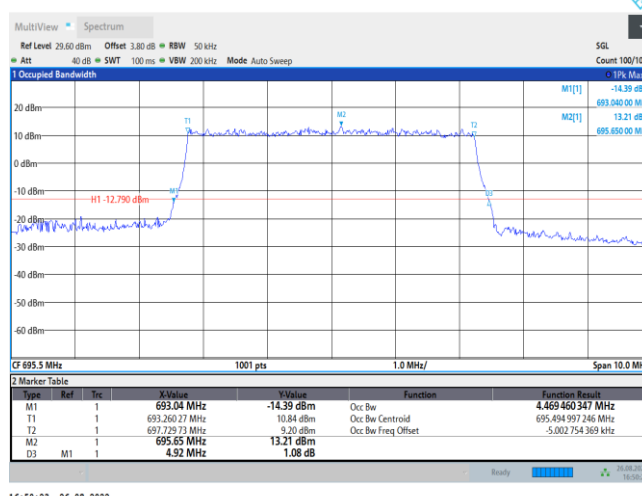
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### Band71-5MHz-16QAM-133297-25RB#0



16:49:13 26.08.2022

### Band71-5MHz-16QAM-133447-25RB#0



16:50:23 26.08.2022



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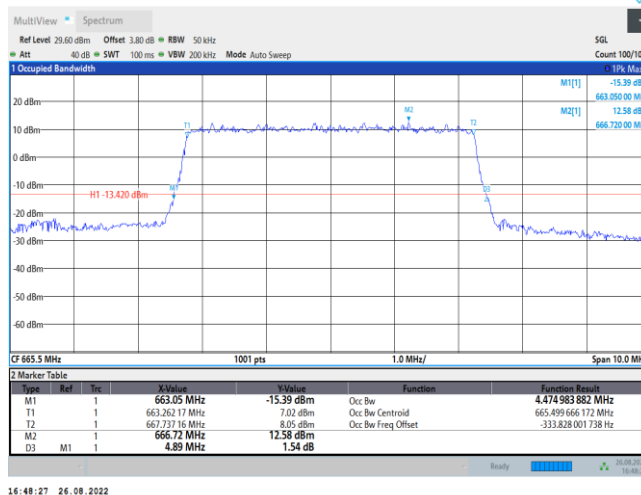
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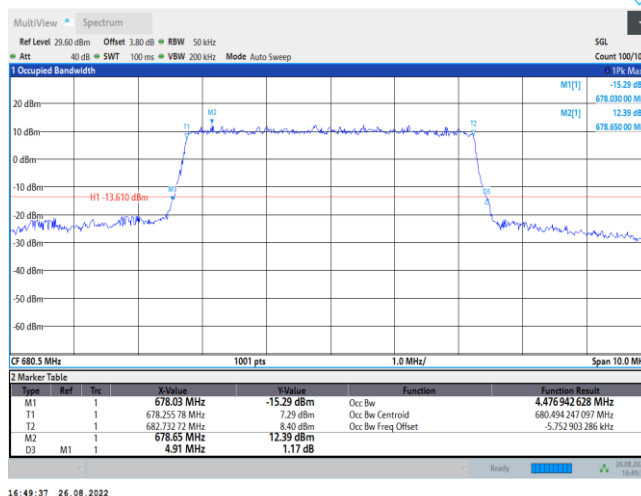
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### Band71-5MHz-64QAM-133147-25RB#0



### Band71-5MHz-64QAM-133297-25RB#0



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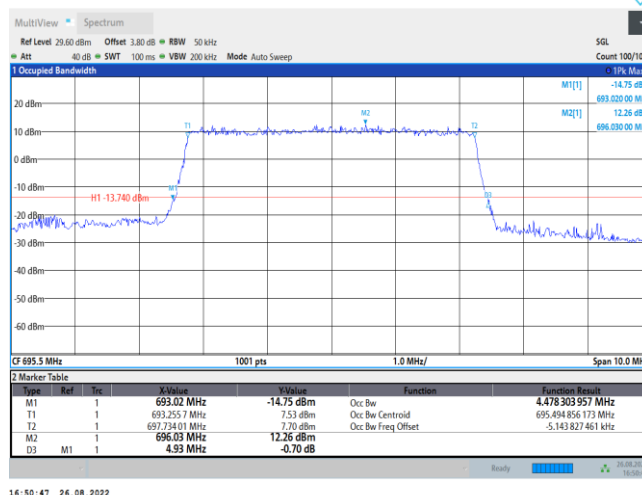
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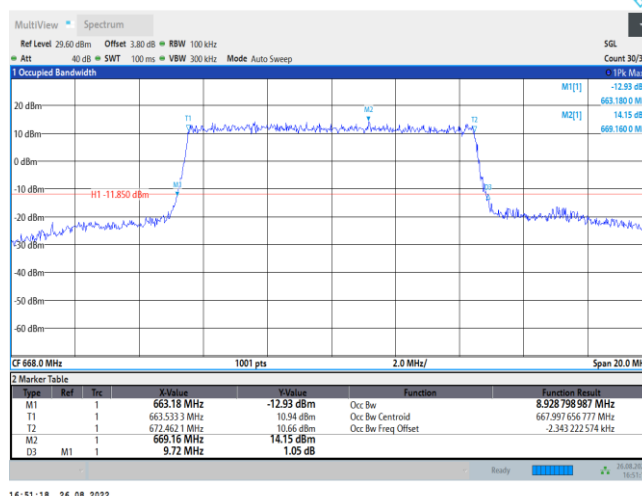
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### Band71-5MHz-64QAM-133447-25RB#0



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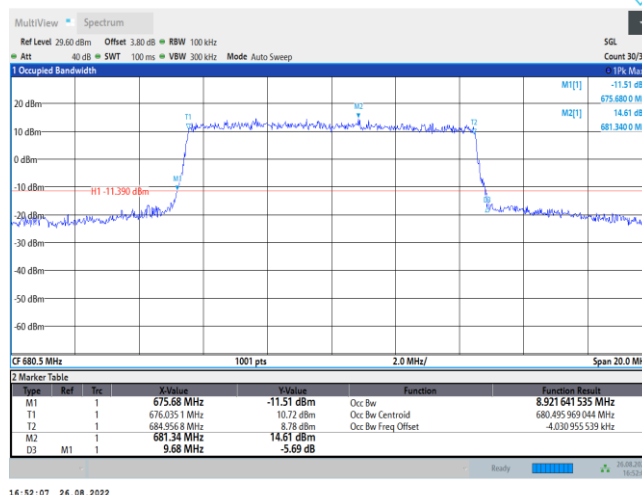


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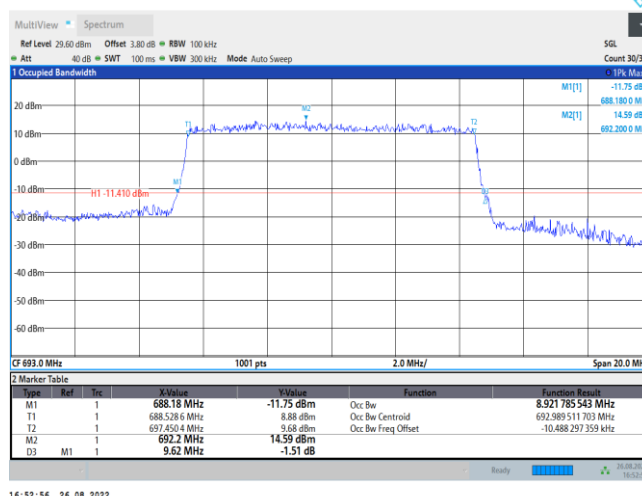
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### Band71-10MHz-QPSK-133297-50RB#0



16:52:07 26.08.2022

### Band71-10MHz-QPSK-133422-50RB#0



16:52:56 26.08.2022



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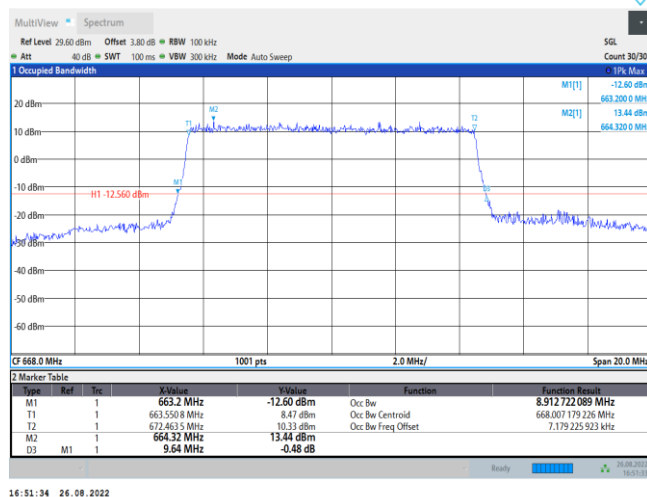
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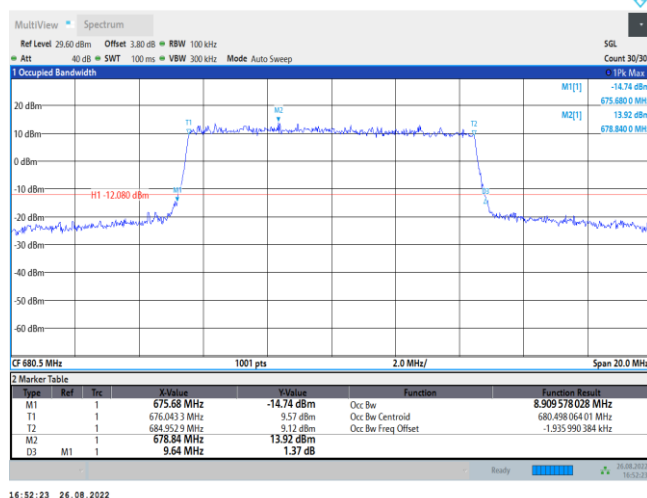
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### Band71-10MHz-16QAM-133172-50RB#0



### Band71-10MHz-16QAM-133297-50RB#0



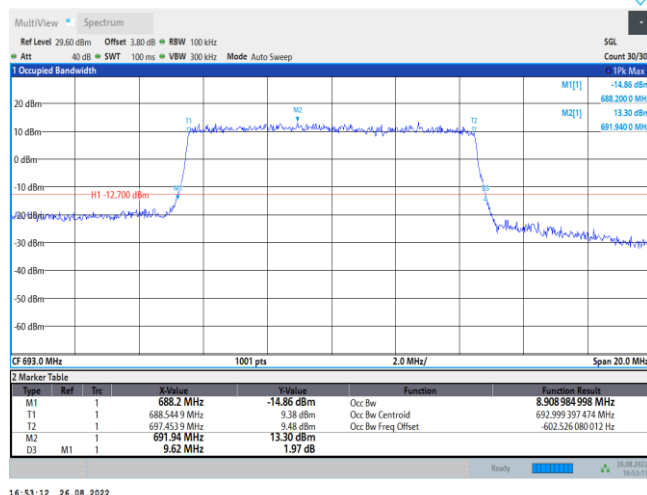
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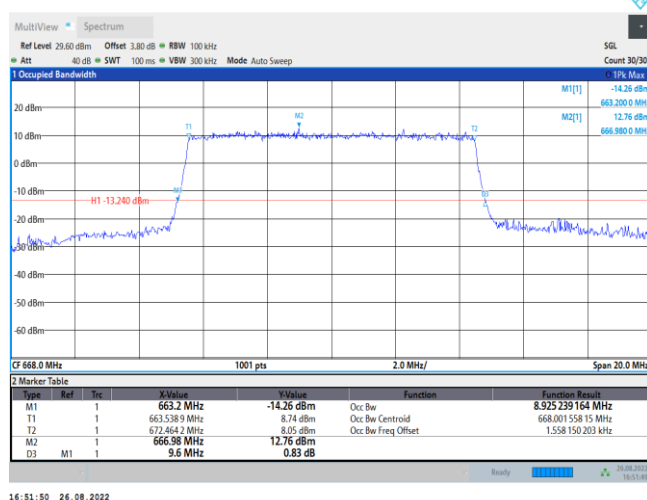
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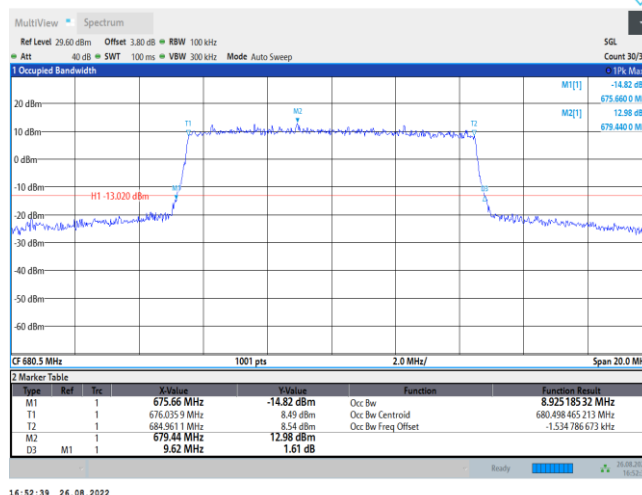
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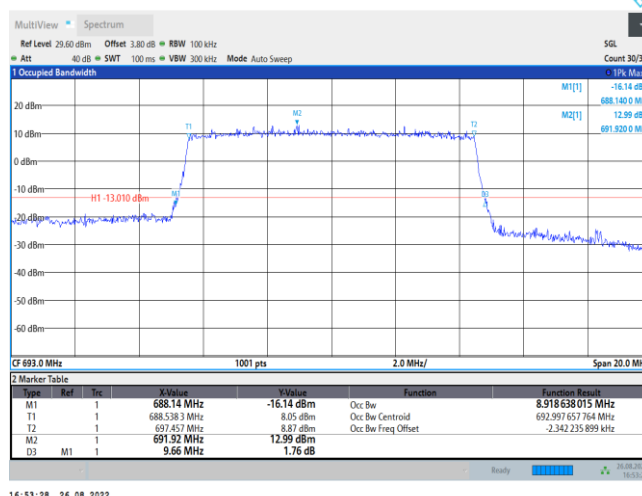
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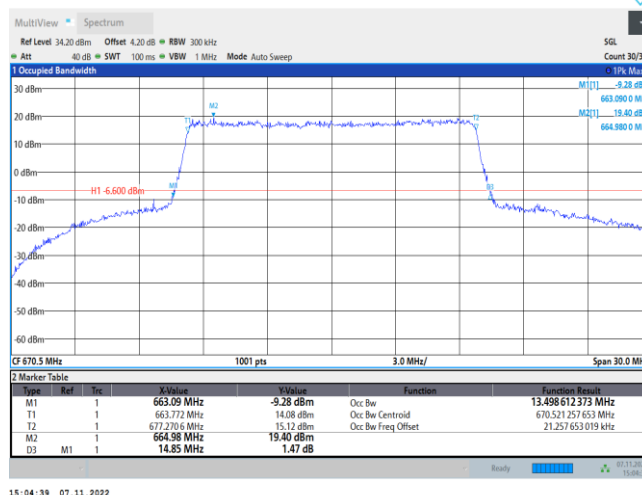
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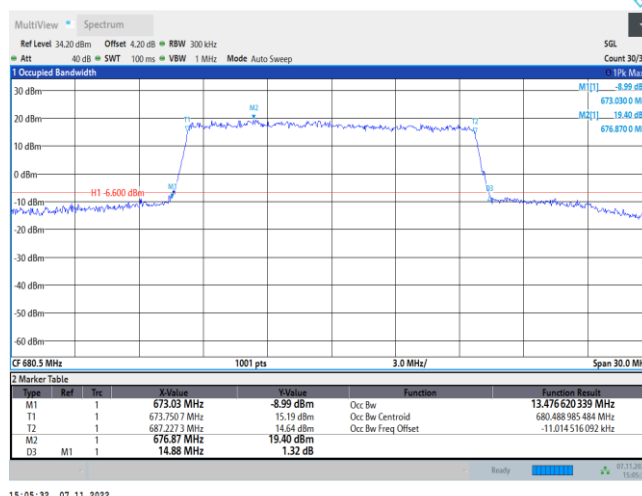
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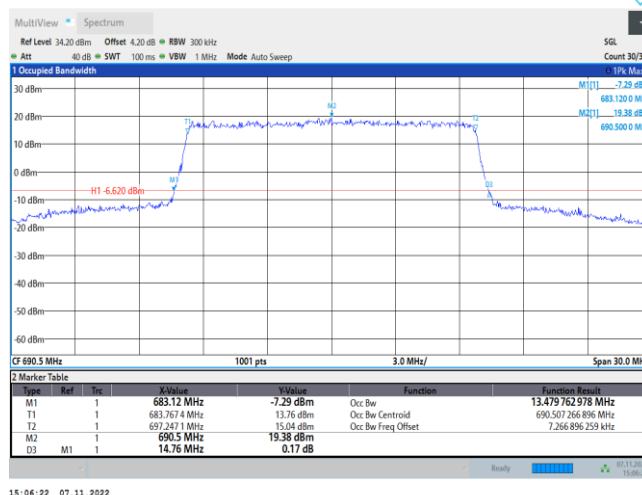
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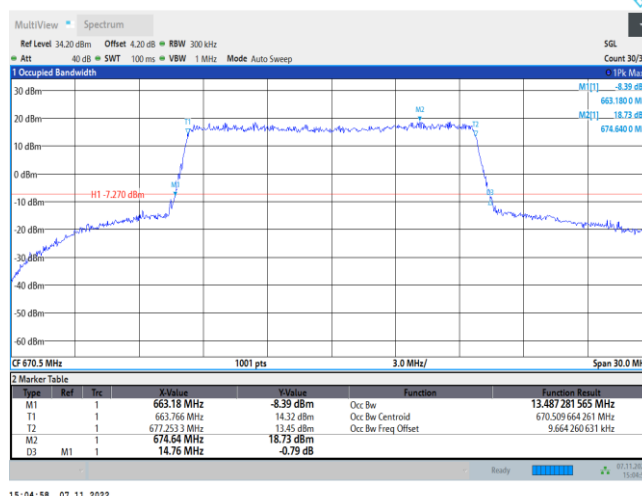
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### Band71-15MHz-QPSK-133397-75RB#0



### Band71-15MHz-16QAM-133197-75RB#0



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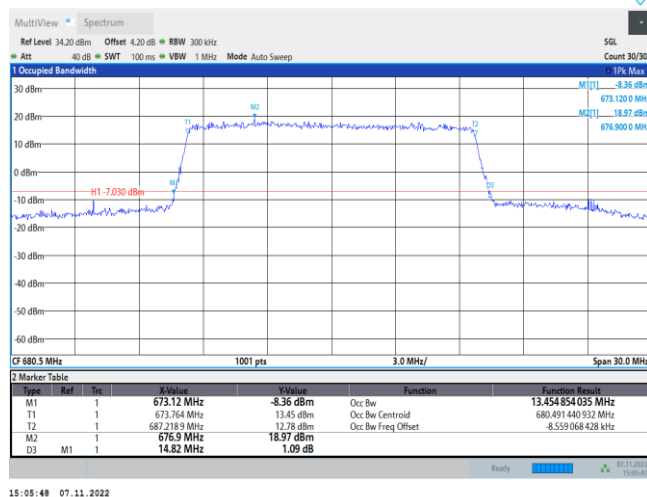
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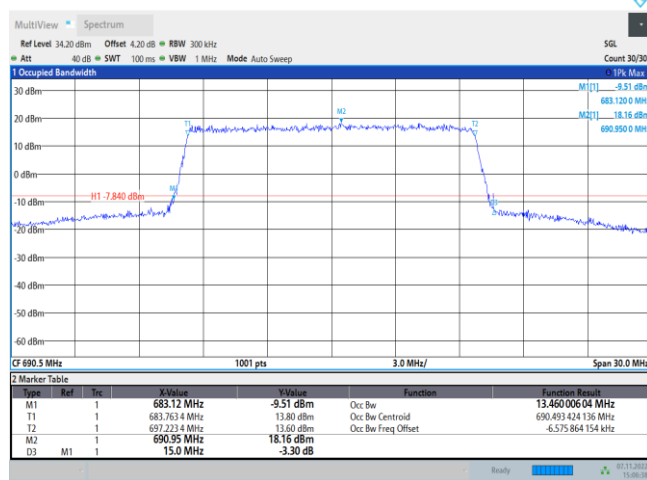
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### Band71-15MHz-16QAM-133297-75RB#0



15:05:48 07.11.2022

### Band71-15MHz-16QAM-133397-75RB#0



15:06:38 07.11.2022



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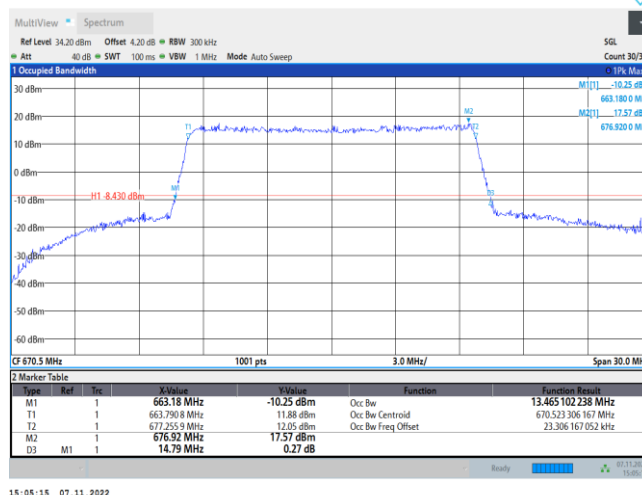
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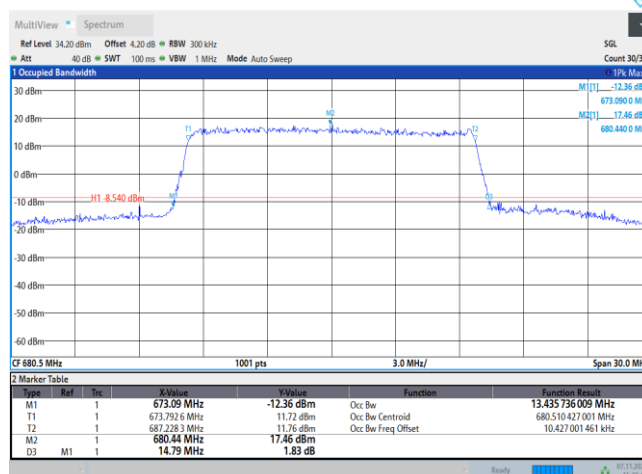
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### Band71-15MHz-64QAM-133197-75RB#0



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### Band71-15MHz-64QAM-133297-75RB#0



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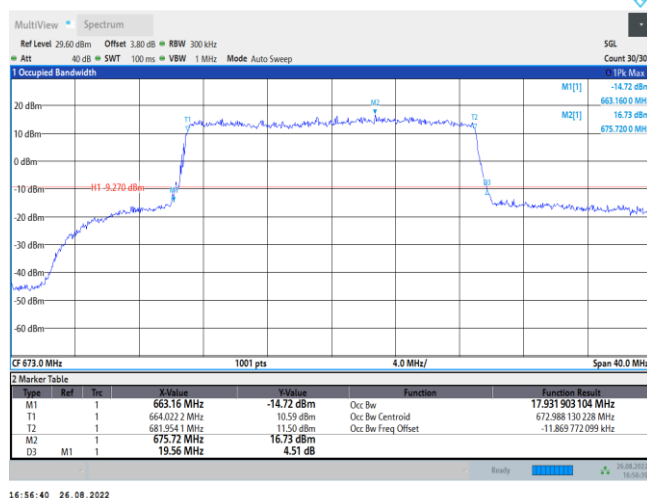
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### Band71-15MHz-64QAM-133397-75RB#0



### Band71-20MHz-QPSK-133222-100RB#0



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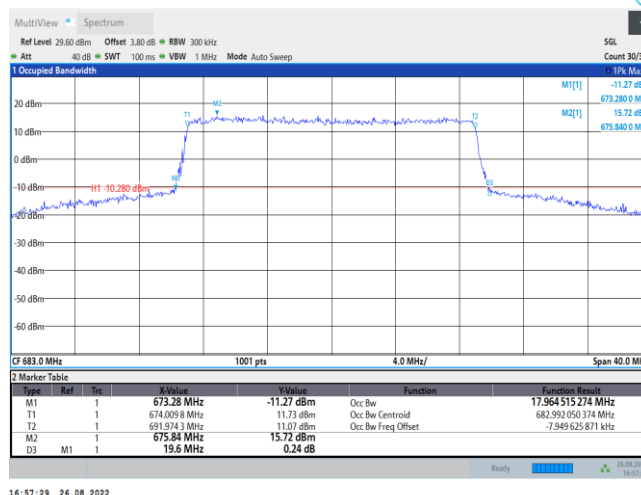
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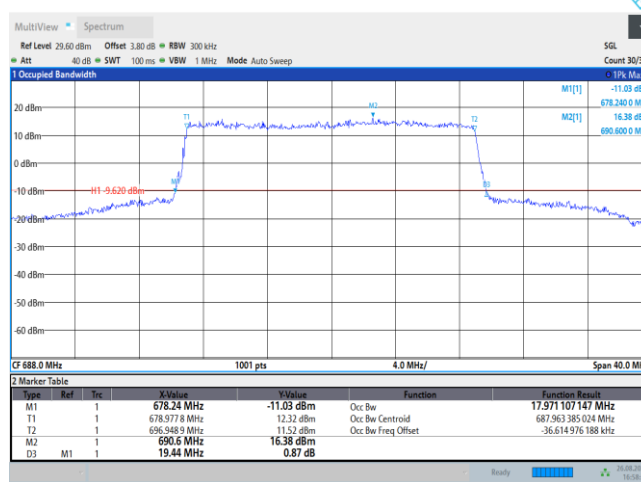
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16:57:29 26.08.2022

### Band71-20MHz-QPSK-133372-100RB#0



16:58:17 26.08.2022



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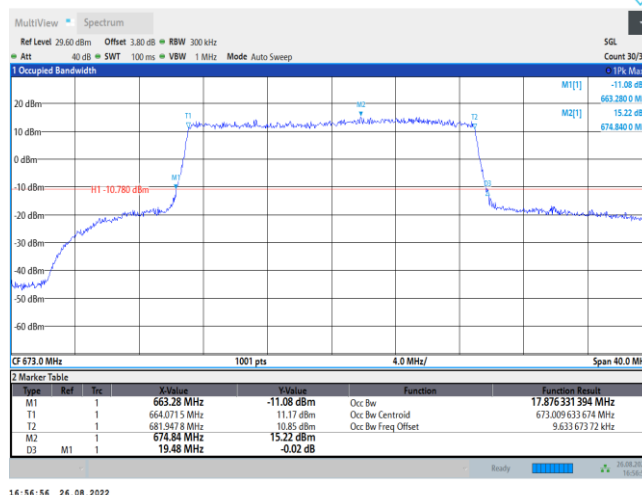
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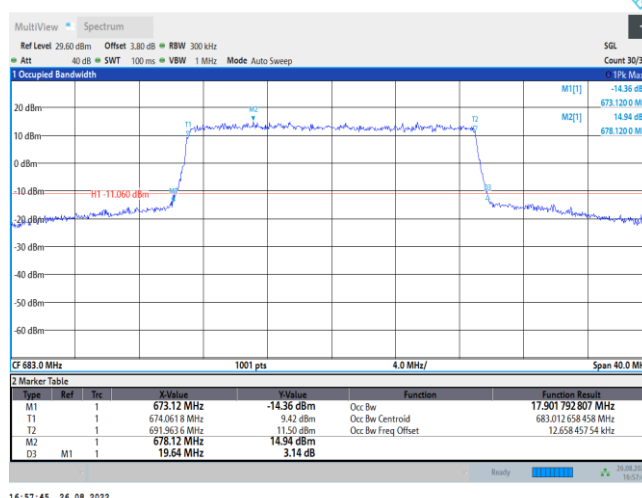
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### Band71-20MHz-16QAM-133222-100RB#0



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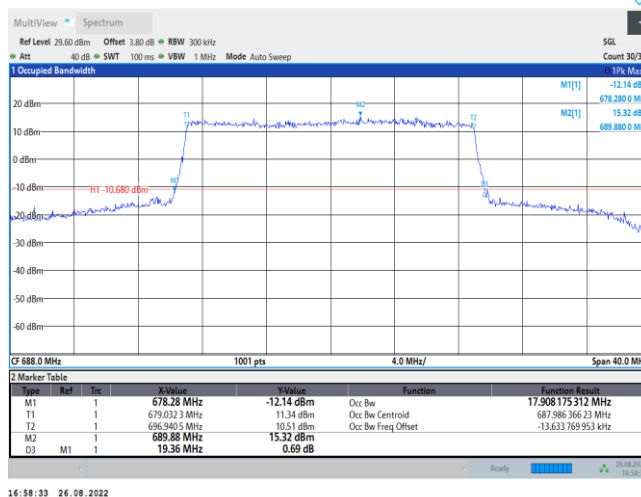
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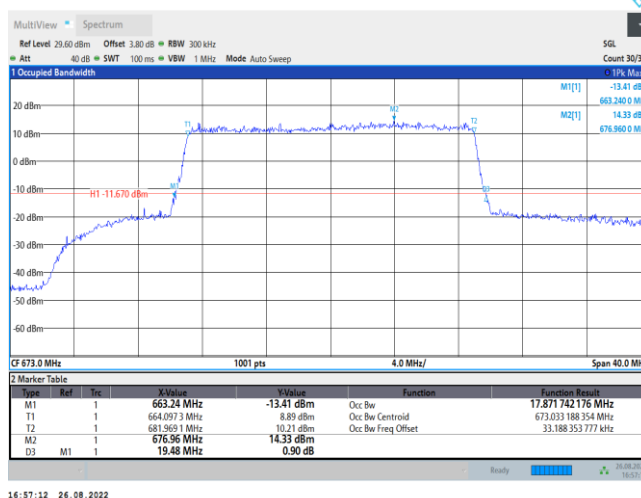
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### Band71-20MHz-64QAM-133222-100RB#0



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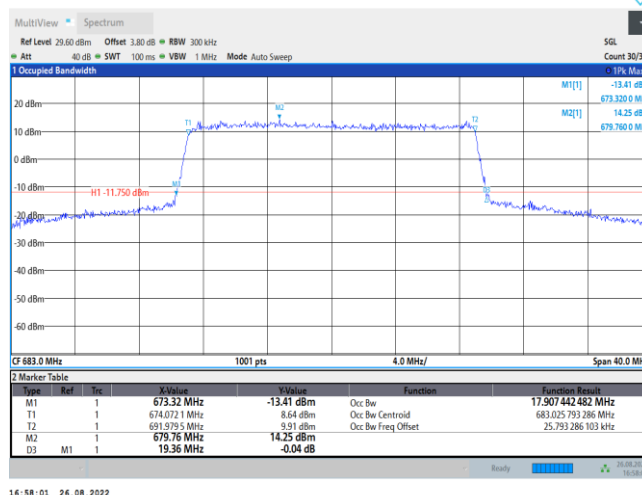
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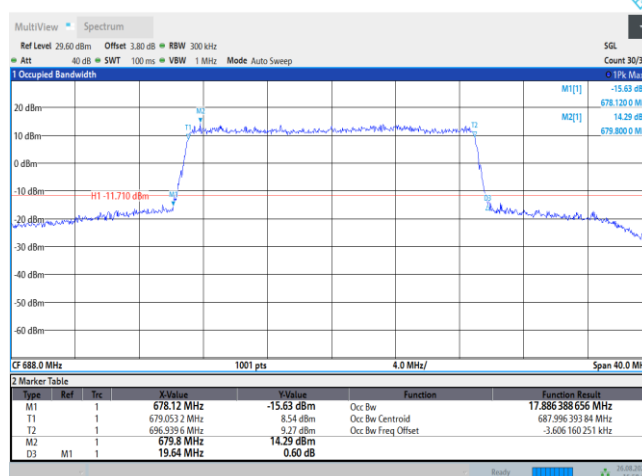
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### Band71-20MHz-64QAM-133322-100RB#0



16:58:01 26.08.2022

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16:58:50 26.08.2022



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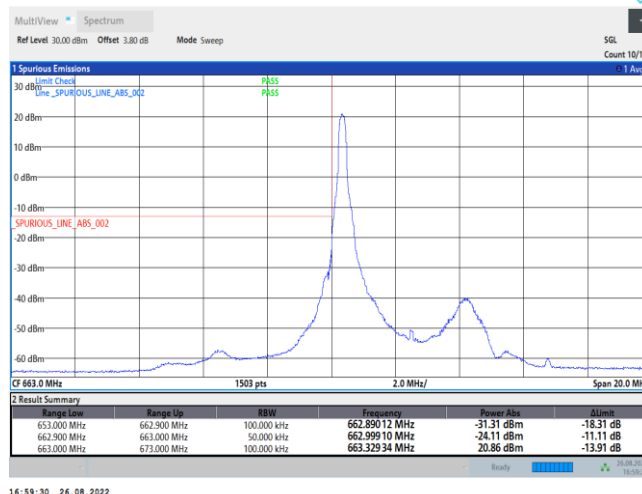
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### Band Edge

### Test Graphs

Band71-5MHz-QPSK-133147-1RB#0



Band71-5MHz-QPSK-133147-25RB#0



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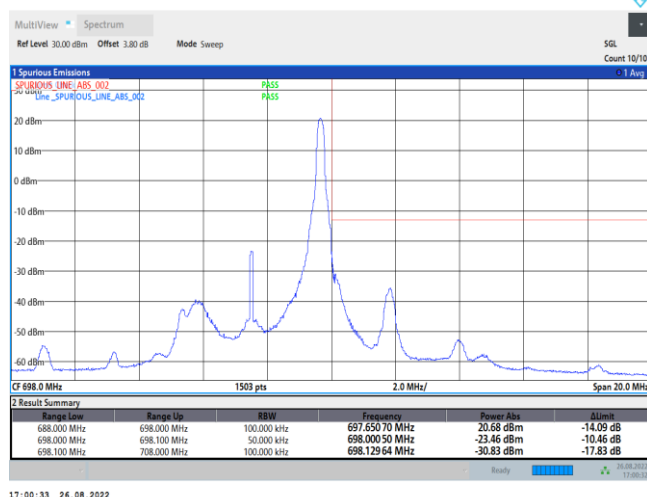
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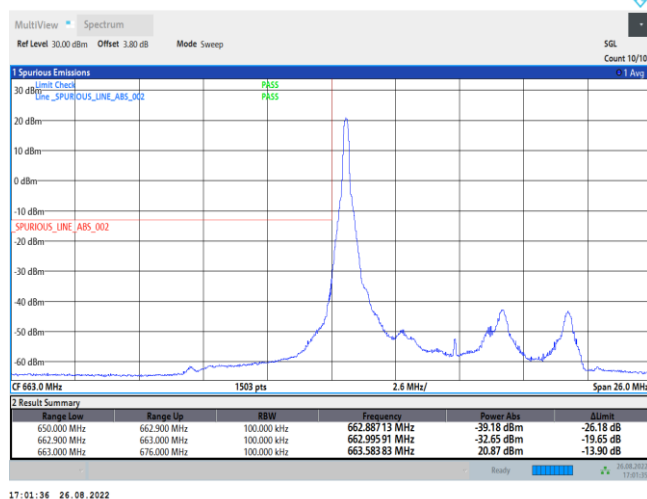
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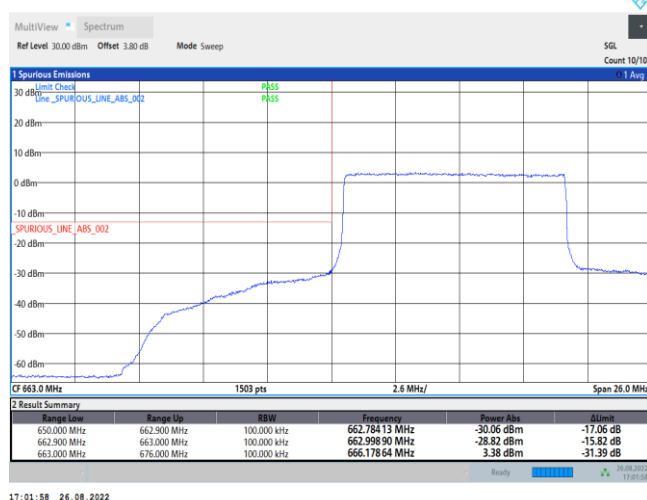
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### Band71-10MHz-QPSK-133172-1RB#0



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### Band71-10MHz-QPSK-133172-50RB#0



17:01:58 26.08.2022



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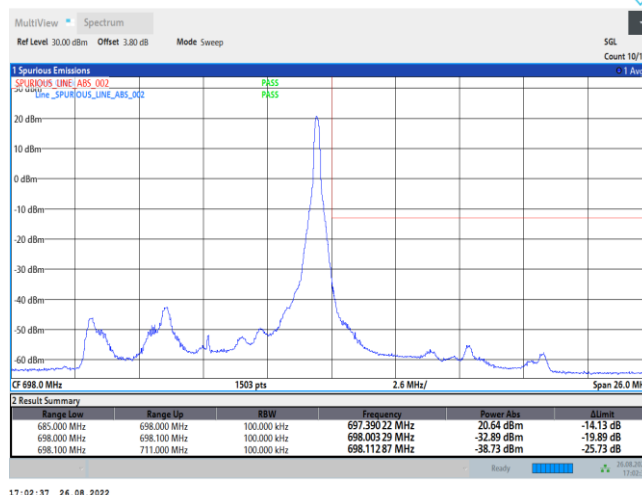
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### Band71-10MHz-QPSK-133422-50RB#0



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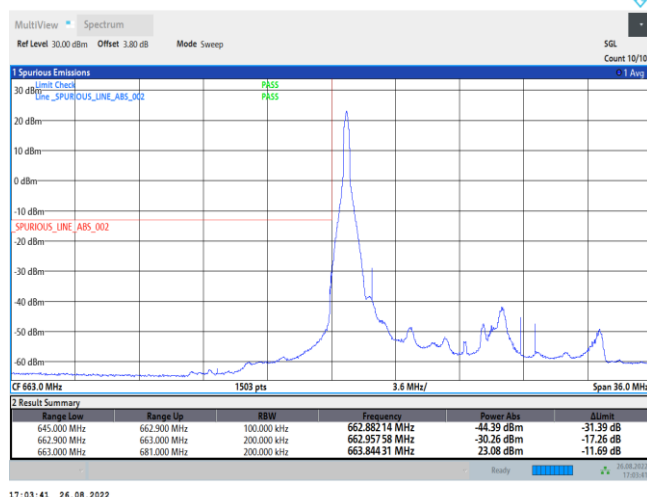
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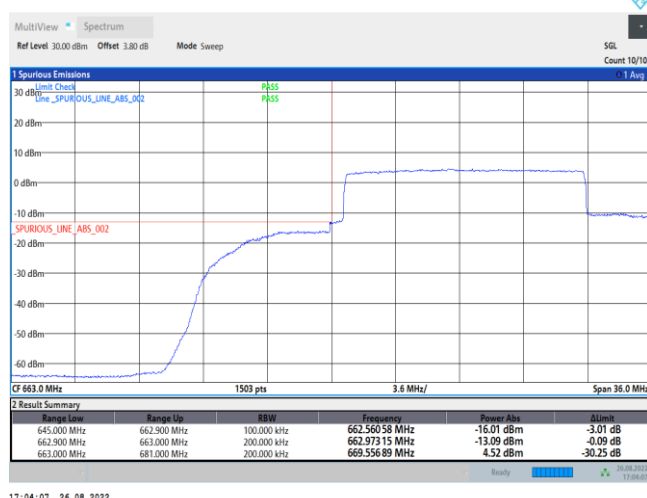
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### Band71-15MHz-QPSK-133197-1RB#0



17:03:41 26.08.2022

### Band71-15MHz-QPSK-133197-75RB#0



17:04:07 26.08.2022



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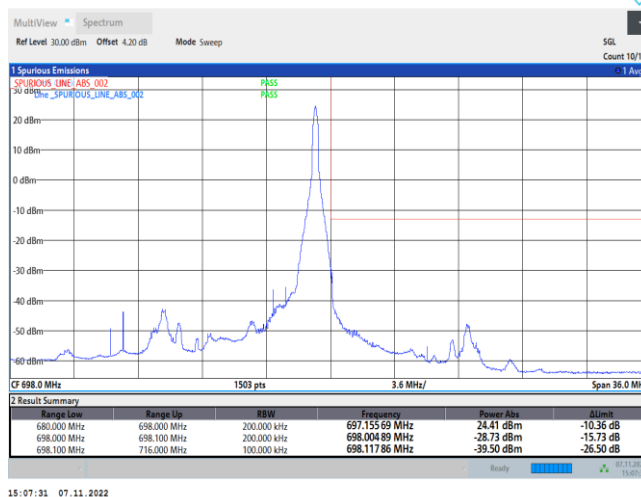
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### Band71-15MHz-QPSK-133397-1RB#74



15:07:31 07.11.2022

### Band71-15MHz-QPSK-133397-75RB#0



15:07:57 07.11.2022



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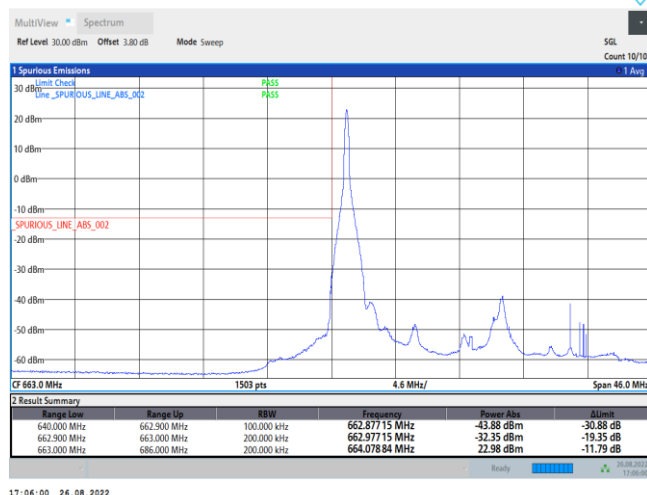
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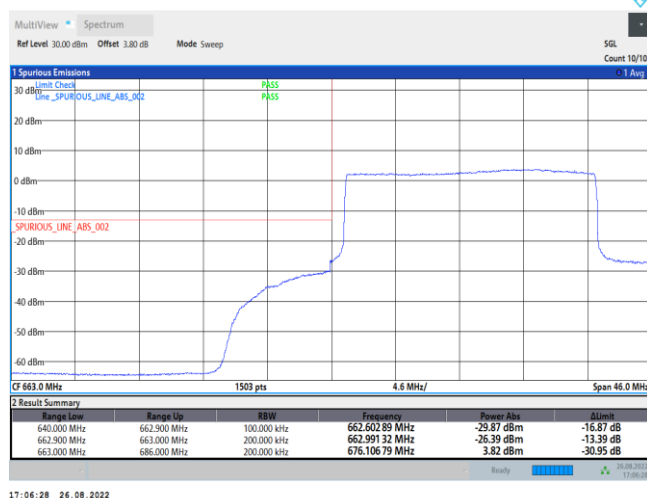
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### Band71-20MHz-QPSK-133222-1RB#0



### Band71-20MHz-QPSK-133222-100RB#0



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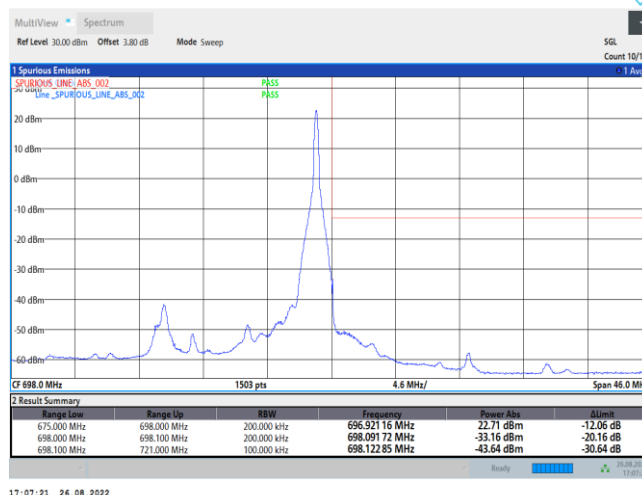
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### Band71-20MHz-QPSK-133372-1RB#99



### Band71-20MHz-QPSK-133372-100RB#0



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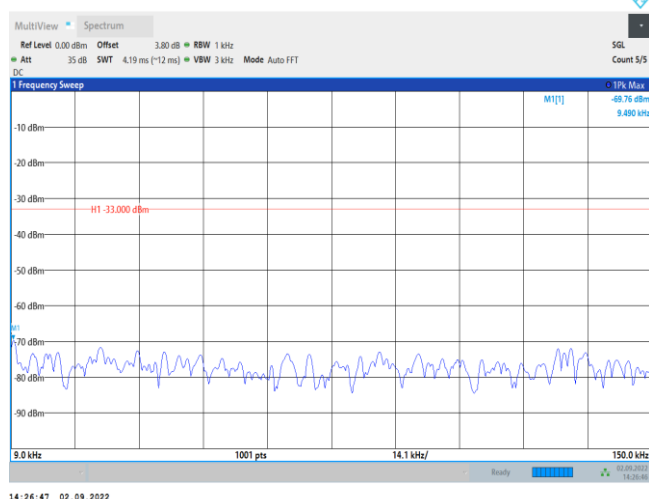
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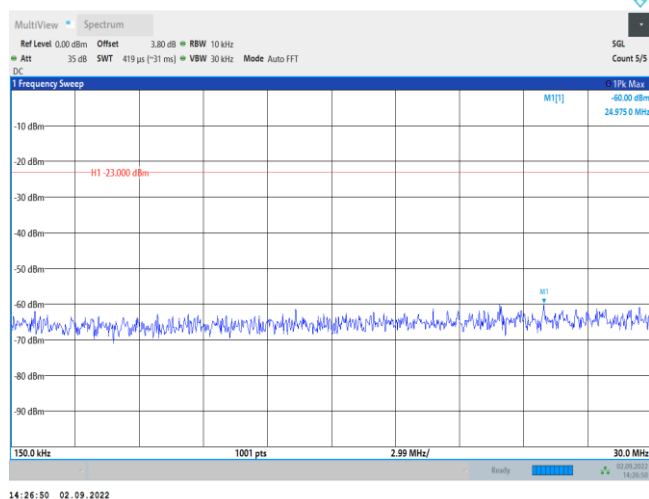
### Conducted Spurious Emission

#### Test Graphs

Band71-20MHz-QPSK-133222-1RB#0-Range1:0.009~0.15MHz



Band71-20MHz-QPSK-133222-1RB#0-Range2:0.15~30MHz



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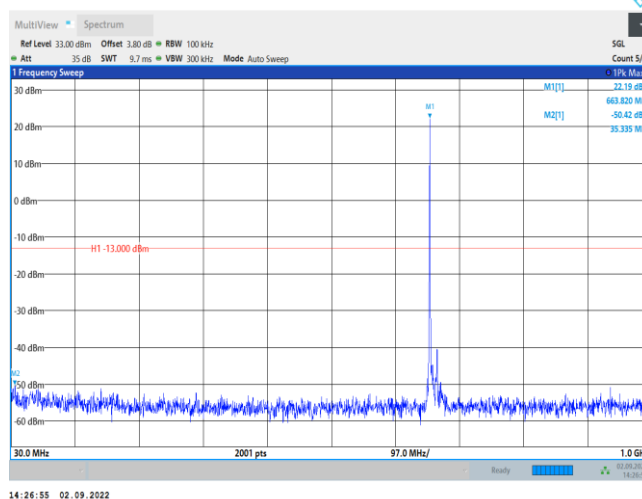
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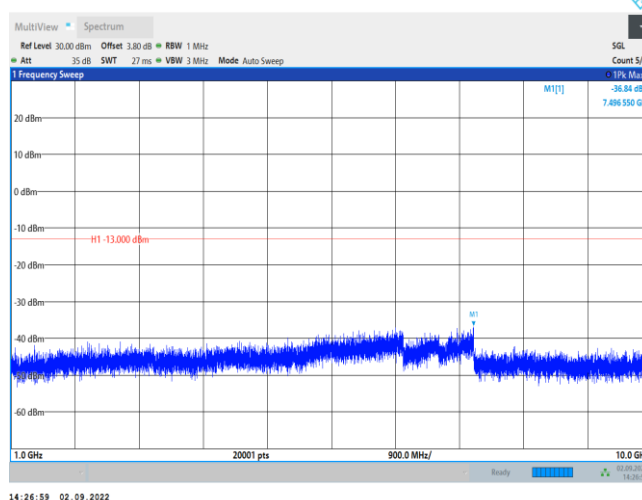
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### Band71-20MHz-QPSK-133222-1RB#0-Range3:30~1000MHz



### Band71-20MHz-QPSK-133222-1RB#0-Range4:1000~10000MHz



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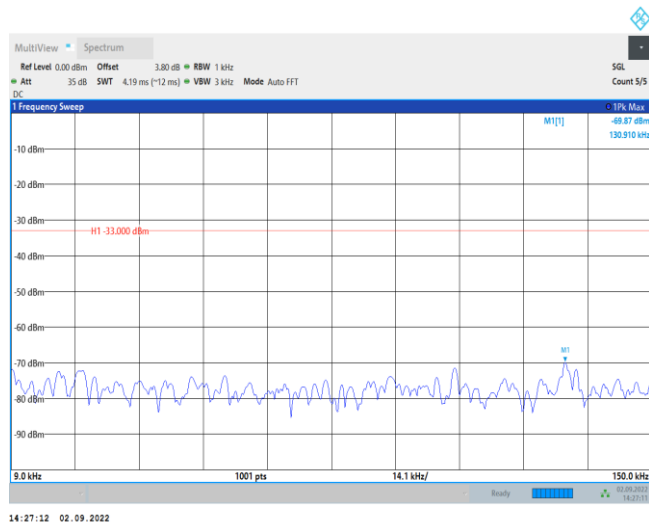
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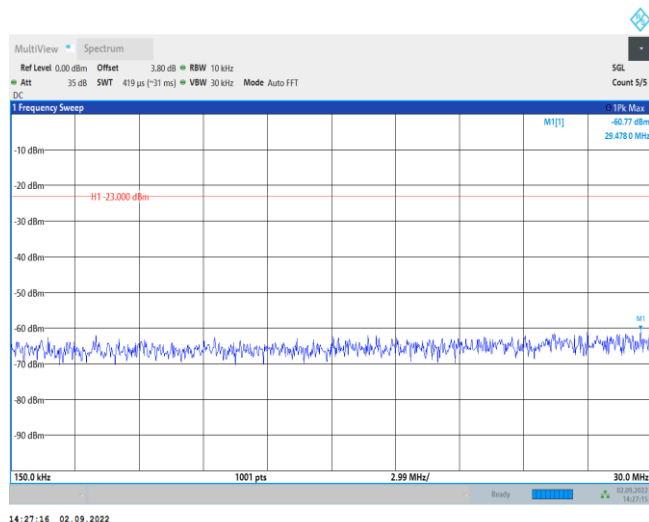
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### Band71-20MHz-QPSK-133322-1RB#0-Range1:0.009~0.15MHz



### Band71-20MHz-QPSK-133322-1RB#0-Range2:0.15~30MHz



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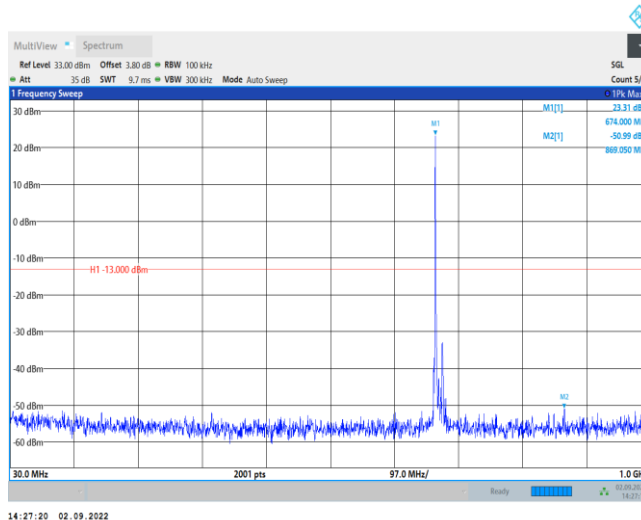
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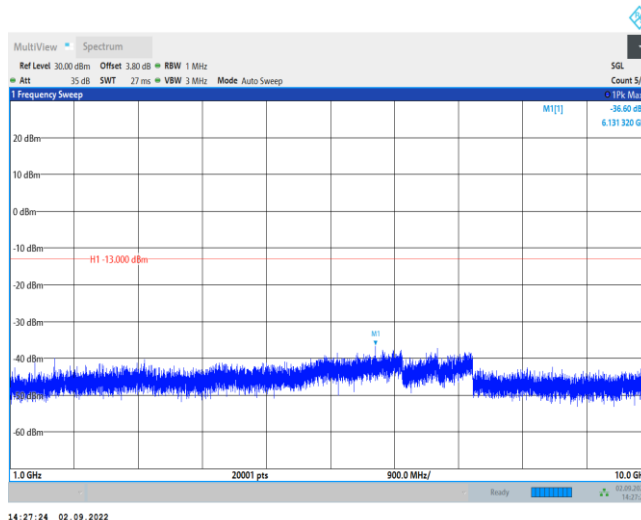
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### Band71-20MHz-QPSK-133322-1RB#0-Range3:30~1000MHz



### Band71-20MHz-QPSK-133322-1RB#0-Range4:1000~10000MHz



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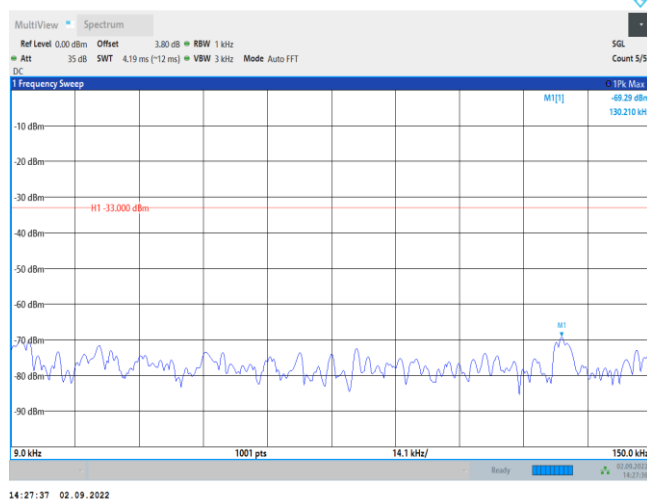
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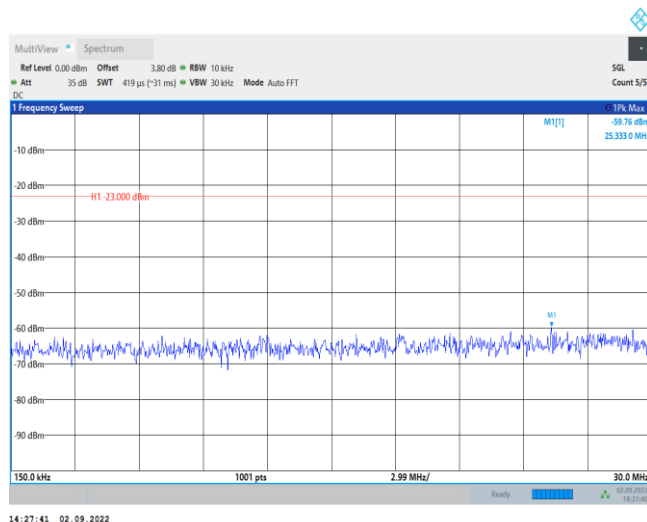
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### Band71-20MHz-QPSK-133372-1RB#0-Range1:0.009~0.15MHz



### Band71-20MHz-QPSK-133372-1RB#0-Range2:0.15~30MHz



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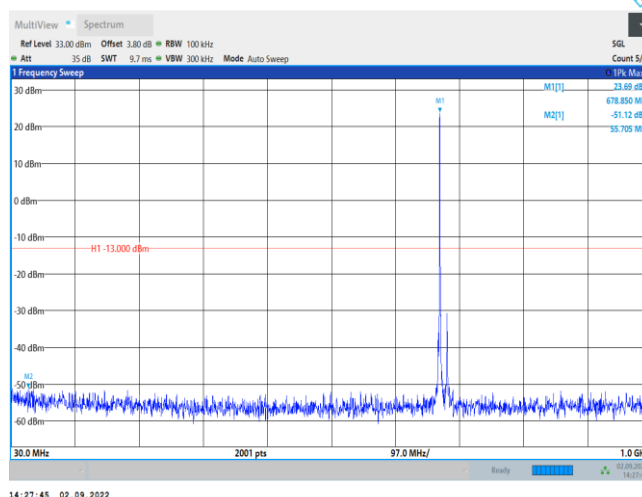
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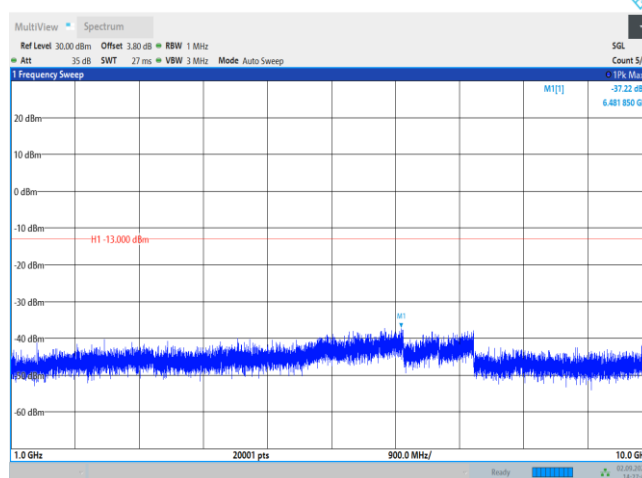
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### Band71-20MHz-QPSK-133372-1RB#0-Range3:30~1000MHz



14:27:45 02.09.2022

### Band71-20MHz-QPSK-133372-1RB#0-Range4:1000~10000MHz



14:27:49 02.09.2022



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## Field Strength of Spurious Radiation

**Test Band = LTE Band 71\_ TM1**
**Test Channel = Low 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               | 1328.18            | 52.95             | -48.79         | 25.54    | -65.56         | -13.00         | 52.56          | 241            | 43           | Horizontal |
| 2               | 1992.27            | 52.81             | -48.08         | 26.86    | -63.67         | -13.00         | 50.67          | 175            | 214          | Horizontal |
| 3               | 2656.36            | 52.35             | -47.14         | 28.44    | -61.61         | -13.00         | 48.61          | 263            | 360          | Horizontal |
| 4               | 3320.45            | 51.13             | -46.15         | 29.47    | -60.81         | -13.00         | 47.81          | 265            | 124          | Horizontal |
| 5               | 3984.54            | 49.90             | -45.50         | 30.57    | -60.30         | -13.00         | 47.30          | 241            | 27           | Horizontal |
| 6               | 4648.63            | 49.95             | -44.59         | 31.76    | -58.14         | -13.00         | 45.14          | 188            | 357          | 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               | 1328.18            | 52.87             | -48.79         | 25.54    | -65.64         | -13.00         | 52.64          | 264            | 293          | Vertical |
| 2               | 1992.27            | 52.84             | -48.08         | 26.86    | -63.64         | -13.00         | 50.64          | 175            | 356          | Vertical |
| 3               | 2656.36            | 51.57             | -47.14         | 28.44    | -62.39         | -13.00         | 49.39          | 284            | 196          | Vertical |
| 4               | 3320.45            | 51.94             | -46.15         | 29.47    | -60.00         | -13.00         | 47.00          | 163            | 131          | Vertical |
| 5               | 3984.54            | 51.93             | -45.50         | 30.57    | -58.27         | -13.00         | 45.27          | 201            | 309          | Vertical |
| 6               | 4648.63            | 50.59             | -44.59         | 31.76    | -57.50         | -13.00         | 44.50          | 265            | 66           | Vertical |



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**Test Band = LTE Band 71\_ 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               | 1348.18            | 53.47             | -48.77         | 25.50    | -65.06         | -13.00         | 52.06          | 263            | 10           | Horizontal |
| 2               | 2022.27            | 52.86             | -48.03         | 26.95    | -63.48         | -13.00         | 50.48          | 254            | 99           | Horizontal |
| 3               | 2696.36            | 51.47             | -47.06         | 28.57    | -62.28         | -13.00         | 49.28          | 185            | 91           | Horizontal |
| 4               | 3370.45            | 51.69             | -46.23         | 29.45    | -60.35         | -13.00         | 47.35          | 201            | 181          | Horizontal |
| 5               | 4044.54            | 49.83             | -45.46         | 30.67    | -60.22         | -13.00         | 47.22          | 142            | 360          | Horizontal |
| 6               | 4718.63            | 51.51             | -44.56         | 31.93    | -56.38         | -13.00         | 43.38          | 221            | 27           | 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               | 1348.18            | 53.23             | -48.77         | 25.50    | -65.30         | -13.00         | 52.30          | 265            | 134          | Vertical |
| 2               | 2022.27            | 53.43             | -48.03         | 26.95    | -62.91         | -13.00         | 49.91          | 241            | 357          | Vertical |
| 3               | 2696.36            | 51.57             | -47.06         | 28.57    | -62.18         | -13.00         | 49.18          | 175            | 285          | Vertical |
| 4               | 3370.45            | 51.58             | -46.23         | 29.45    | -60.46         | -13.00         | 47.46          | 214            | 69           | Vertical |
| 5               | 4044.54            | 50.63             | -45.46         | 30.67    | -59.42         | -13.00         | 46.42          | 263            | 109          | Vertical |
| 6               | 4718.63            | 51.30             | -44.56         | 31.93    | -56.59         | -13.00         | 43.59          | 211            | 246          | Vertical |



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**Test Band = LTE Band 71\_ TM1**
**Test Channel = High 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               | 1358.18            | 53.75             | -48.76         | 25.48    | -64.79         | -13.00         | 51.79          | 142            | 131          | Horizontal |
| 2               | 2037.27            | 53.18             | -48.00         | 26.98    | -63.11         | -13.00         | 50.11          | 265            | 315          | Horizontal |
| 3               | 2716.36            | 52.08             | -46.99         | 28.64    | -61.53         | -13.00         | 48.53          | 241            | 56           | Horizontal |
| 4               | 3395.45            | 52.67             | -46.27         | 29.44    | -59.42         | -13.00         | 46.42          | 175            | 345          | Horizontal |
| 5               | 4074.54            | 50.08             | -45.43         | 30.72    | -59.89         | -13.00         | 46.89          | 233            | 178          | Horizontal |
| 6               | 4753.63            | 51.37             | -44.58         | 32.01    | -56.46         | -13.00         | 43.46          | 201            | 122          | 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               | 1358.18            | 53.39             | -48.76         | 25.48    | -65.15         | -13.00         | 52.15          | 265            | 324          | Vertical |
| 2               | 2037.27            | 51.24             | -48.00         | 26.98    | -65.05         | -13.00         | 52.05          | 241            | 345          | Vertical |
| 3               | 2716.36            | 50.82             | -46.99         | 28.64    | -62.79         | -13.00         | 49.79          | 178            | 324          | Vertical |
| 4               | 3395.45            | 51.25             | -46.27         | 29.44    | -60.84         | -13.00         | 47.84          | 201            | 324          | Vertical |
| 5               | 4074.54            | 50.03             | -45.43         | 30.72    | -59.94         | -13.00         | 46.94          | 132            | 324          | Vertical |
| 6               | 4753.63            | 50.91             | -44.58         | 32.01    | -56.92         | -13.00         | 43.92          | 266            | 324          | 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 |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | VL            | NT               | -1.70          | -0.002489       | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | VN            | NT               | -0.90          | -0.001318       | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | VH            | NT               | -1.20          | -0.001757       | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | -30              | 0.80           | 0.001171        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | -20              | -0.80          | -0.001171       | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | -10              | -0.90          | -0.001318       | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 0                | 2.00           | 0.002928        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 10               | -0.40          | -0.000586       | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 20               | -2.60          | -0.003807       | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 30               | -0.40          | -0.000586       | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 40               | 1.00           | 0.001464        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 50               | 1.20           | 0.001757        | PASS    |

---End of Attachment---



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