



# Appendix B

## E-UTRA Band 71



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## 1 Effective (Isotropic) Radiated Power

### 1.1. Test Result

#### ANT2:

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | EIRP (dBm) | limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|----------------------|------------|-------------|---------|
| Band71 | 5MHz      | QPSK       | 133147  | 1RB#0            | 24.23                | 27.3       | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 1RB#12           | 24.51                | 27.58      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 1RB#24           | 24.38                | 27.45      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 12RB#0           | 23.10                | 26.17      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 12RB#6           | 23.41                | 26.48      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 12RB#13          | 23.25                | 26.32      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | 23.25                | 26.32      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 1RB#0            | 24.13                | 27.2       | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 1RB#24           | 24.12                | 27.19      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 1RB#12           | 24.29                | 27.36      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 12RB#0           | 23.12                | 26.19      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 12RB#6           | 23.27                | 26.34      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 12RB#13          | 23.28                | 26.35      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 25RB#0           | 23.28                | 26.35      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 1RB#24           | 24.33                | 27.4       | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 1RB#0            | 24.16                | 27.23      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 1RB#12           | 24.07                | 27.14      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 12RB#0           | 23.24                | 26.31      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 12RB#6           | 23.34                | 26.41      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 12RB#13          | 23.22                | 26.29      | 36.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | 23.30                | 26.37      | 36.98       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 1RB#0            | 22.97                | 26.04      | 36.98       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 1RB#12           | 23.40                | 26.47      | 36.98       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 1RB#24           | 22.46                | 25.53      | 36.98       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 12RB#6           | 22.31                | 25.38      | 36.98       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 12RB#0           | 22.26                | 25.33      | 36.98       | PASS    |



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|        |       |       |        |         |       |       |       |      |
|--------|-------|-------|--------|---------|-------|-------|-------|------|
| Band71 | 5MHz  | 16QAM | 133147 | 12RB#13 | 21.97 | 25.04 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133147 | 25RB#0  | 22.18 | 25.25 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133297 | 1RB#0   | 22.89 | 25.96 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133297 | 1RB#12  | 23.03 | 26.1  | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133297 | 1RB#24  | 22.95 | 26.02 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133297 | 12RB#13 | 22.26 | 25.33 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133297 | 12RB#0  | 22.20 | 25.27 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133297 | 12RB#6  | 22.26 | 25.33 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133297 | 25RB#0  | 22.46 | 25.53 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133447 | 1RB#12  | 23.26 | 26.33 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133447 | 1RB#0   | 22.81 | 25.88 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133447 | 1RB#24  | 22.85 | 25.92 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133447 | 12RB#0  | 22.33 | 25.4  | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133447 | 12RB#6  | 22.31 | 25.38 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133447 | 12RB#13 | 22.18 | 25.25 | 36.98 | PASS |
| Band71 | 5MHz  | 16QAM | 133447 | 25RB#0  | 22.34 | 25.41 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133172 | 1RB#24  | 24.40 | 27.47 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133172 | 1RB#49  | 24.12 | 27.19 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133172 | 1RB#0   | 24.18 | 27.25 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133172 | 25RB#0  | 23.34 | 26.41 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133172 | 25RB#12 | 23.33 | 26.4  | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133172 | 25RB#25 | 23.08 | 26.15 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133172 | 50RB#0  | 23.19 | 26.26 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 1RB#0   | 23.94 | 27.01 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 1RB#49  | 24.08 | 27.15 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 1RB#24  | 24.39 | 27.46 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 25RB#25 | 23.23 | 26.3  | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 25RB#0  | 23.34 | 26.41 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 25RB#12 | 23.33 | 26.4  | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 50RB#0  | 23.24 | 26.31 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 1RB#24  | 24.37 | 27.44 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 1RB#0   | 24.32 | 27.39 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 1RB#49  | 24.38 | 27.45 | 36.98 | PASS |



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|        |       |       |        |         |       |       |       |      |
|--------|-------|-------|--------|---------|-------|-------|-------|------|
| Band71 | 10MHz | QPSK  | 133422 | 25RB#0  | 23.34 | 26.41 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 25RB#25 | 23.35 | 26.42 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 25RB#12 | 23.27 | 26.34 | 36.98 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 50RB#0  | 23.37 | 26.44 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 1RB#49  | 22.76 | 25.83 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 1RB#0   | 22.94 | 26.01 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 1RB#24  | 22.89 | 25.96 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 25RB#25 | 22.02 | 25.09 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 25RB#12 | 22.16 | 25.23 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 25RB#0  | 22.24 | 25.31 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 50RB#0  | 22.32 | 25.39 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 1RB#49  | 23.00 | 26.07 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 1RB#0   | 22.82 | 25.89 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 1RB#24  | 23.00 | 26.07 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 25RB#25 | 22.38 | 25.45 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 25RB#0  | 22.38 | 25.45 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 25RB#12 | 22.38 | 25.45 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 50RB#0  | 22.23 | 25.3  | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 1RB#24  | 22.99 | 26.06 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 1RB#0   | 22.97 | 26.04 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 1RB#49  | 23.01 | 26.08 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 25RB#0  | 22.42 | 25.49 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 25RB#12 | 22.51 | 25.58 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 25RB#25 | 22.37 | 25.44 | 36.98 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 50RB#0  | 22.50 | 25.57 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 1RB#0   | 24.18 | 27.25 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 1RB#38  | 24.35 | 27.42 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 1RB#74  | 24.10 | 27.17 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 36RB#0  | 23.17 | 26.24 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 36RB#18 | 23.27 | 26.34 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 36RB#39 | 23.09 | 26.16 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 75RB#0  | 23.23 | 26.3  | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 1RB#0   | 23.96 | 27.03 | 36.98 | PASS |



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|        |       |       |        |         |       |       |       |      |
|--------|-------|-------|--------|---------|-------|-------|-------|------|
| Band71 | 15MHz | QPSK  | 133297 | 1RB#74  | 23.92 | 26.99 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 1RB#38  | 24.31 | 27.38 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 36RB#0  | 23.18 | 26.25 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 36RB#18 | 23.22 | 26.29 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 36RB#39 | 23.24 | 26.31 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 75RB#0  | 23.21 | 26.28 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 1RB#74  | 24.15 | 27.22 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 1RB#0   | 24.22 | 27.29 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 1RB#38  | 24.01 | 27.08 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 36RB#0  | 23.26 | 26.33 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 36RB#18 | 23.30 | 26.37 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 36RB#39 | 23.25 | 26.32 | 36.98 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 75RB#0  | 23.34 | 26.41 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 1RB#0   | 22.97 | 26.04 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 1RB#38  | 22.89 | 25.96 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 1RB#74  | 22.82 | 25.89 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 36RB#18 | 22.33 | 25.4  | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 36RB#0  | 22.11 | 25.18 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 36RB#39 | 22.21 | 25.28 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 75RB#0  | 22.18 | 25.25 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 1RB#0   | 22.77 | 25.84 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 1RB#38  | 22.67 | 25.74 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 1RB#74  | 22.95 | 26.02 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 36RB#39 | 22.14 | 25.21 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 36RB#0  | 22.24 | 25.31 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 36RB#18 | 22.18 | 25.25 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 75RB#0  | 22.29 | 25.36 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 1RB#38  | 23.02 | 26.09 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 1RB#0   | 23.04 | 26.11 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 1RB#74  | 22.96 | 26.03 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 36RB#0  | 22.32 | 25.39 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 36RB#18 | 22.32 | 25.39 | 36.98 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 36RB#39 | 22.34 | 25.41 | 36.98 | PASS |



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|        |       |       |        |         |       |       |       |      |
|--------|-------|-------|--------|---------|-------|-------|-------|------|
| Band71 | 15MHz | 16QAM | 133397 | 75RB#0  | 22.27 | 25.34 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 1RB#99  | 24.10 | 27.17 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 1RB#49  | 26.06 | 29.13 | 36.98 | FAIL |
| Band71 | 20MHz | QPSK  | 133222 | 1RB#0   | 24.03 | 27.1  | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 50RB#0  | 23.15 | 26.22 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 50RB#25 | 23.34 | 26.41 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 50RB#50 | 23.11 | 26.18 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 100RB#0 | 23.09 | 26.16 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 1RB#0   | 23.91 | 26.98 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 1RB#99  | 23.74 | 26.81 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 1RB#49  | 24.43 | 27.5  | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 50RB#50 | 23.09 | 26.16 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 50RB#0  | 23.30 | 26.37 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 50RB#25 | 23.30 | 26.37 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 100RB#0 | 23.18 | 26.25 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 1RB#49  | 24.48 | 27.55 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 1RB#0   | 23.90 | 26.97 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 1RB#99  | 23.80 | 26.87 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 50RB#0  | 23.25 | 26.32 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 50RB#50 | 23.16 | 26.23 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 50RB#25 | 23.30 | 26.37 | 36.98 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 100RB#0 | 23.34 | 26.41 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 1RB#99  | 22.61 | 25.68 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 1RB#0   | 22.88 | 25.95 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 1RB#49  | 22.88 | 25.95 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 50RB#50 | 22.12 | 25.19 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 50RB#25 | 22.11 | 25.18 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 50RB#0  | 22.25 | 25.32 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | 22.02 | 25.09 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 1RB#99  | 22.67 | 25.74 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 1RB#0   | 22.65 | 25.72 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 1RB#49  | 22.93 | 26    | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 50RB#50 | 22.29 | 25.36 | 36.98 | PASS |



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|        |       |       |        |         |       |       |       |      |
|--------|-------|-------|--------|---------|-------|-------|-------|------|
| Band71 | 20MHz | 16QAM | 133322 | 50RB#0  | 22.26 | 25.33 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 50RB#25 | 22.20 | 25.27 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | 22.07 | 25.14 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 1RB#49  | 23.12 | 26.19 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 1RB#0   | 22.83 | 25.9  | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 1RB#99  | 22.78 | 25.85 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 50RB#0  | 22.22 | 25.29 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 50RB#25 | 22.25 | 25.32 | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 50RB#50 | 22.33 | 25.4  | 36.98 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | 22.25 | 25.32 | 36.98 | PASS |

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

The conducted Power is measured by Base Station Simulator



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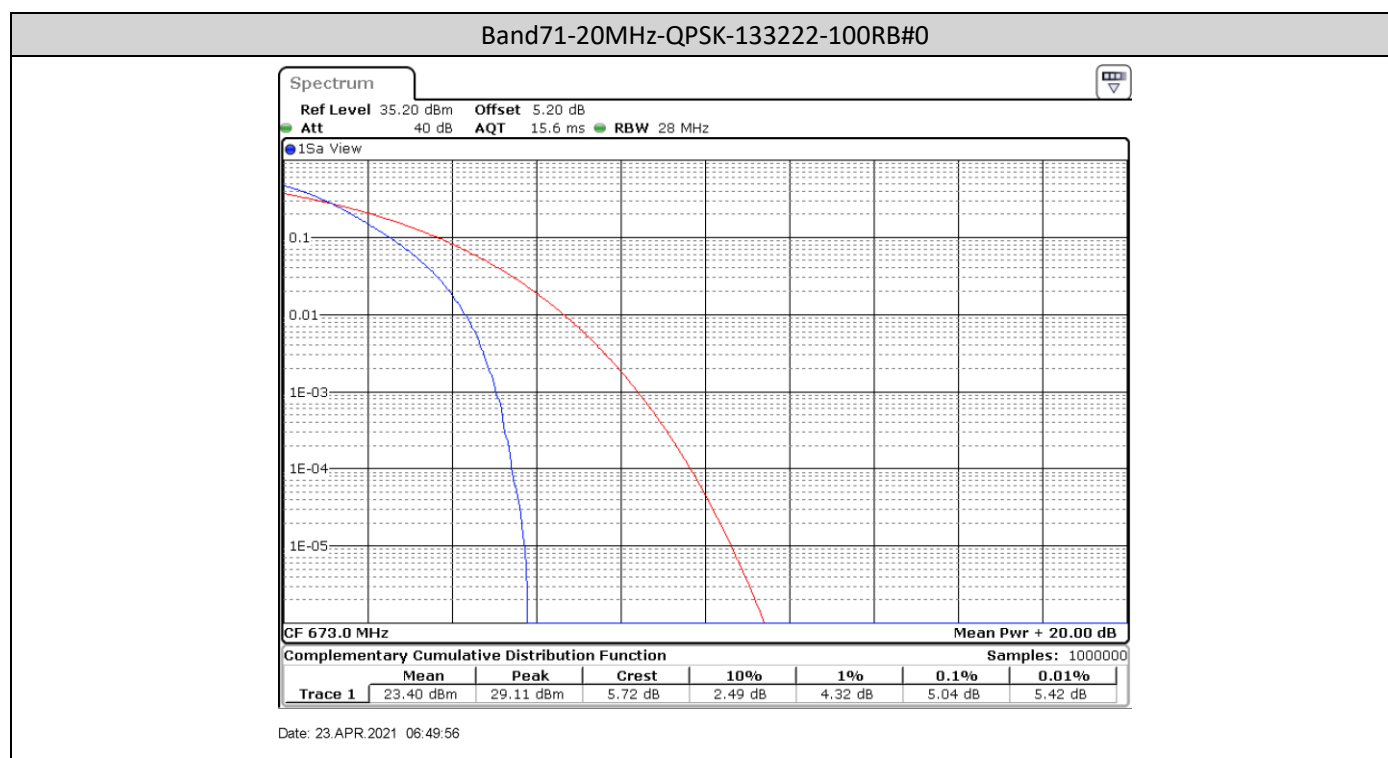


## 2. Peak-to-Average Ratio (CCDF)

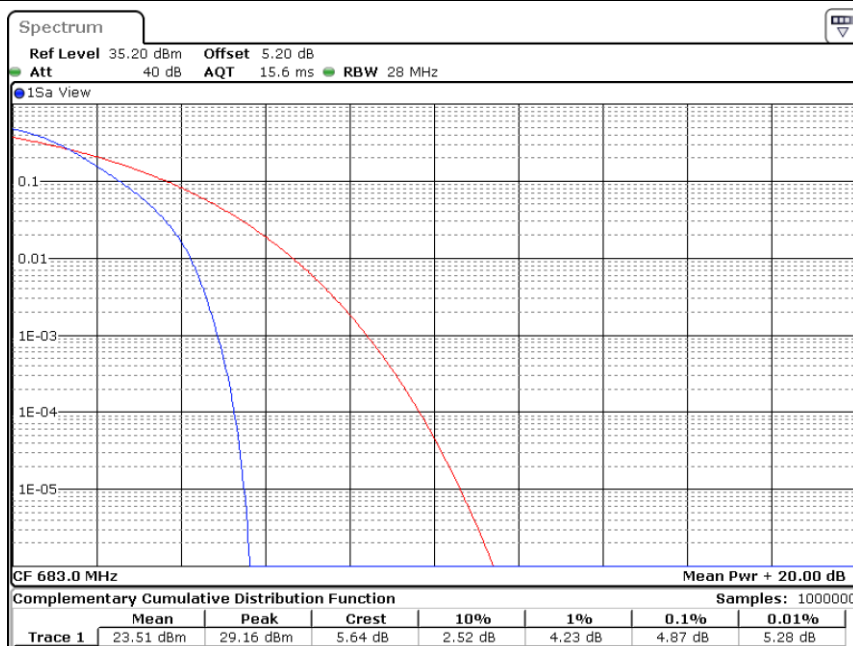
### 2.1. Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0          | 5.04       | 13        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0          | 4.87       | 13        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0          | 4.84       | 13        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0          | 5.97       | 13        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133322  | 100RB#0          | 5.86       | 13        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133372  | 100RB#0          | 5.86       | 13        | PASS    |

### 2.2. Test Plots

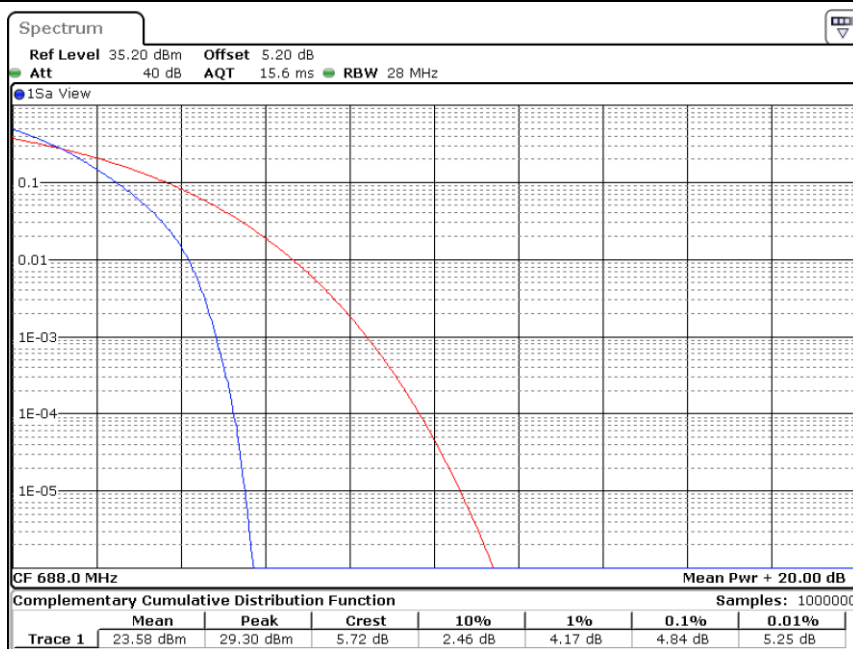


## Band71-20MHz-QPSK-133322-100RB#0



Date: 23 APR 2021 06:50:18

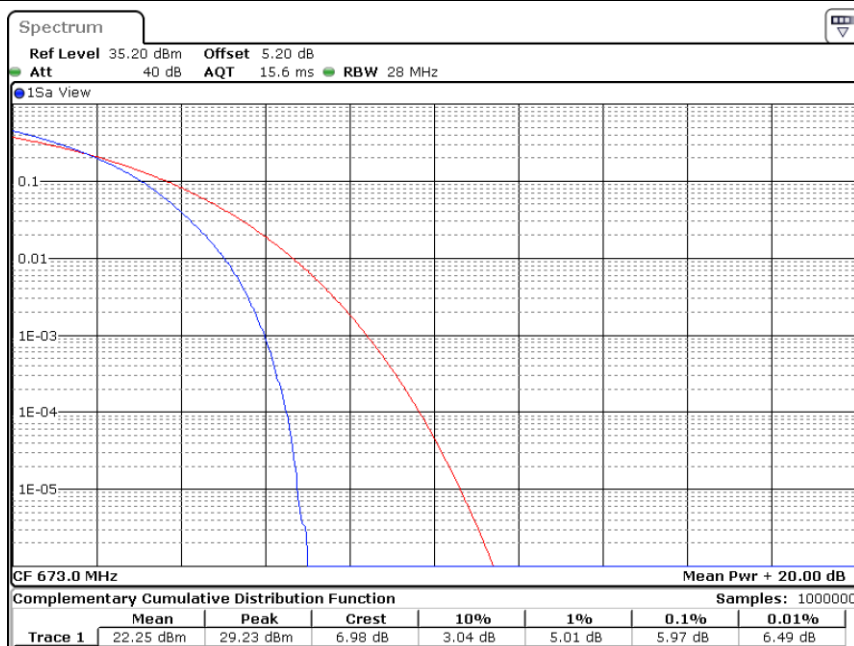
## Band71-20MHz-QPSK-133372-100RB#0



Date: 23 APR 2021 06:50:41



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



Date: 23 APR 2021 06:50:07

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

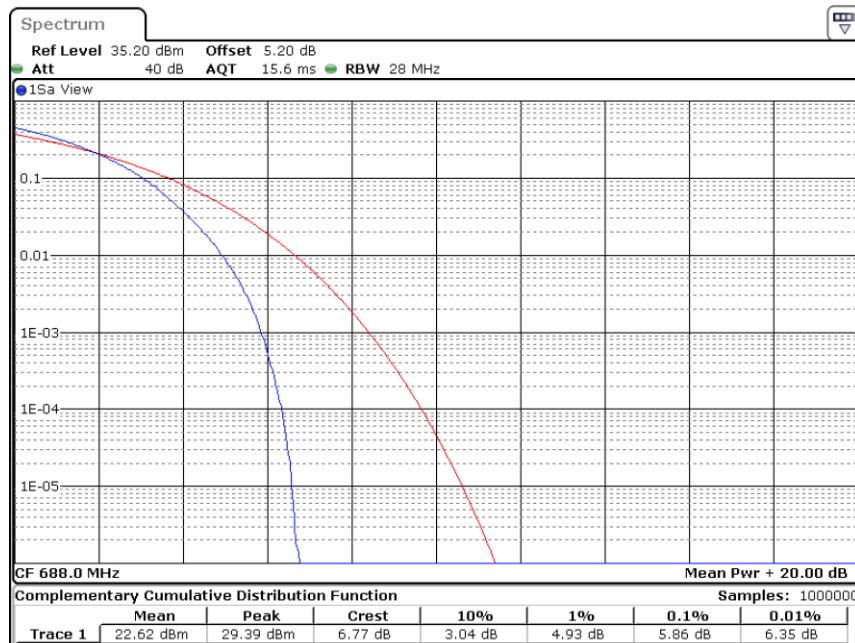


Date: 23 APR 2021 06:50:29





Band71-20MHz-16QAM-133372-100RB#0



Date: 23.APR.2021 06:50:52

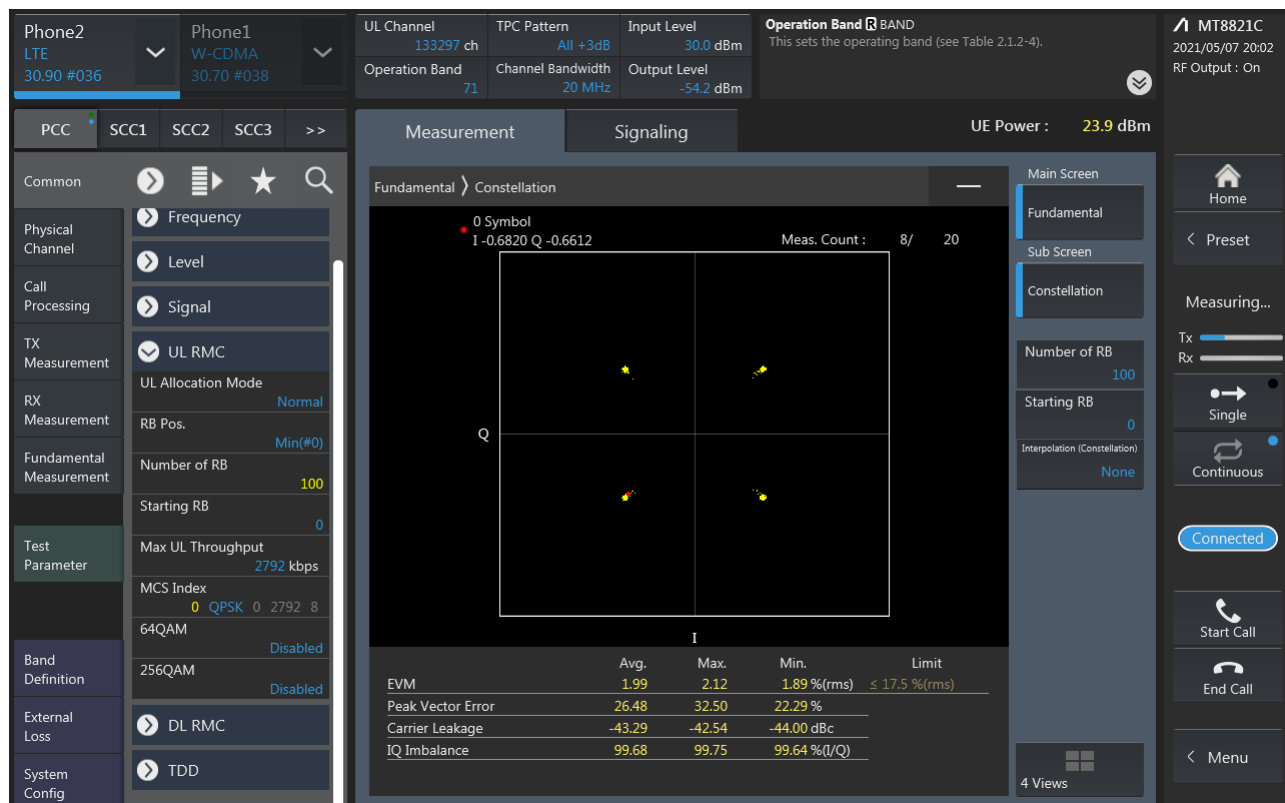
Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 20MHz

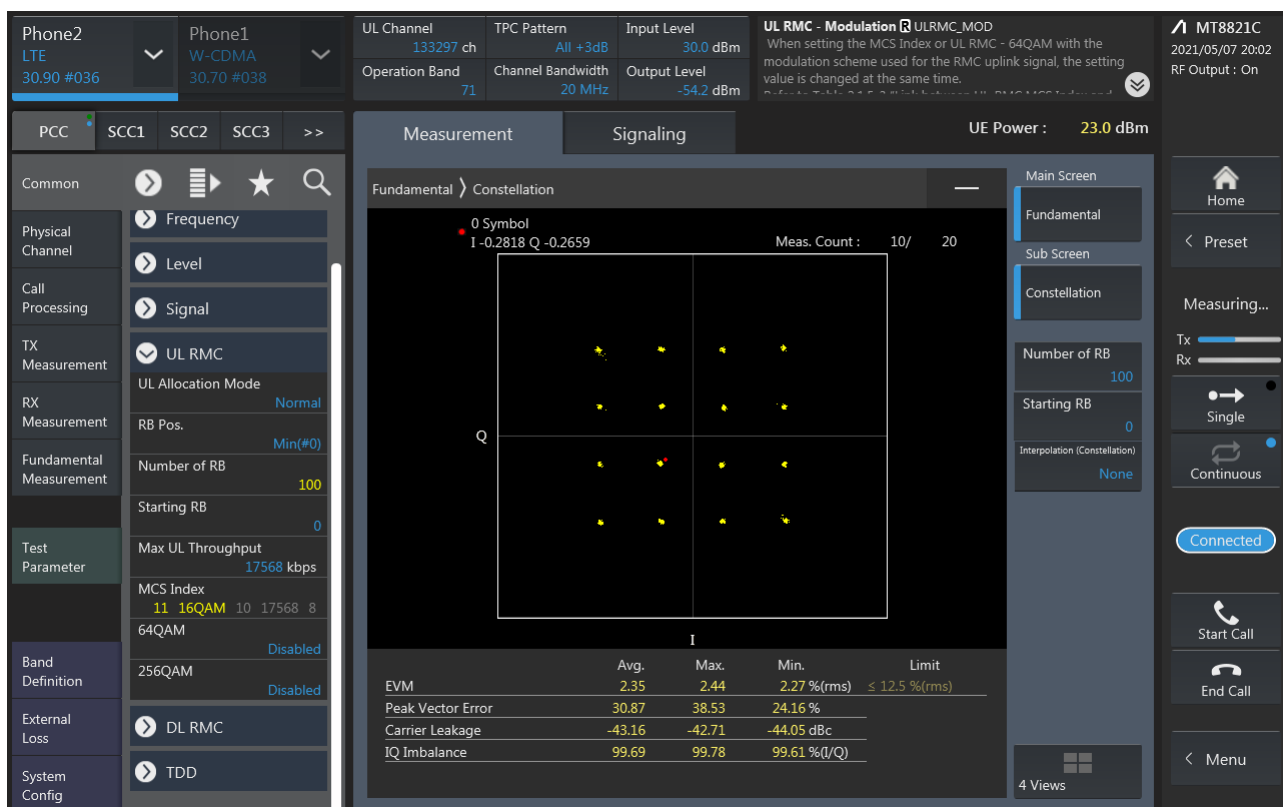
##### 3.1.1. Test Channel = MCH





## 3.2. Test Mode = LTE /TM2 20MHz

### 3.2.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

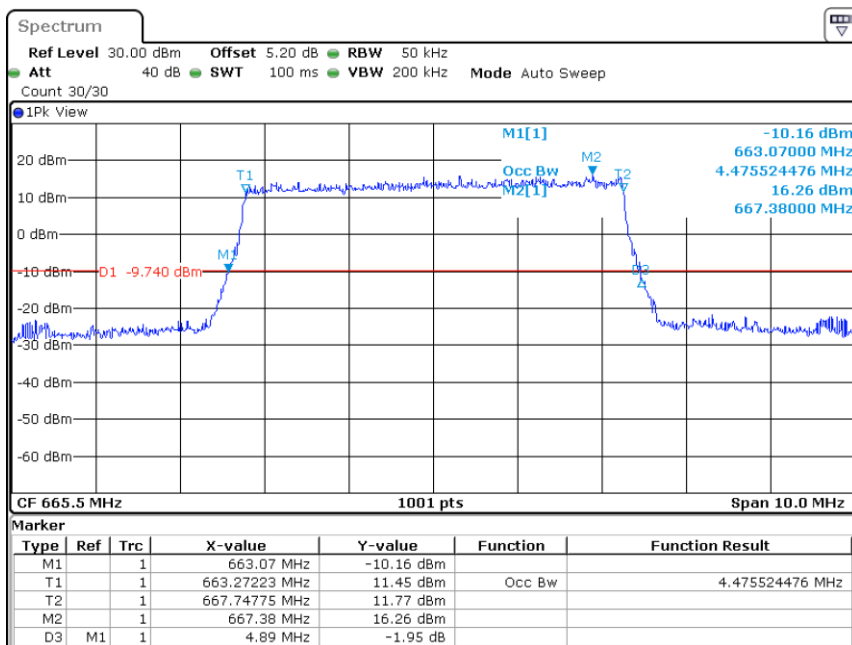
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | 4.476                    | 4.890                | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 25RB#0           | 4.466                    | 4.910                | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | 4.476                    | 4.940                | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 25RB#0           | 4.476                    | 4.930                | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 25RB#0           | 4.486                    | 4.950                | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 25RB#0           | 4.486                    | 4.970                | PASS    |
| Band71 | 10MHz     | QPSK       | 133172  | 50RB#0           | 8.871                    | 9.600                | PASS    |
| Band71 | 10MHz     | QPSK       | 133297  | 50RB#0           | 8.911                    | 9.740                | PASS    |
| Band71 | 10MHz     | QPSK       | 133422  | 50RB#0           | 8.911                    | 9.740                | PASS    |
| Band71 | 10MHz     | 16QAM      | 133172  | 50RB#0           | 8.891                    | 9.640                | PASS    |
| Band71 | 10MHz     | 16QAM      | 133297  | 50RB#0           | 8.911                    | 9.740                | PASS    |
| Band71 | 10MHz     | 16QAM      | 133422  | 50RB#0           | 8.931                    | 9.720                | PASS    |
| Band71 | 15MHz     | QPSK       | 133197  | 75RB#0           | 13.367                   | 14.730               | PASS    |
| Band71 | 15MHz     | QPSK       | 133297  | 75RB#0           | 13.457                   | 14.790               | PASS    |
| Band71 | 15MHz     | QPSK       | 133397  | 75RB#0           | 13.427                   | 14.790               | PASS    |
| Band71 | 15MHz     | 16QAM      | 133197  | 75RB#0           | 13.367                   | 14.760               | PASS    |
| Band71 | 15MHz     | 16QAM      | 133297  | 75RB#0           | 13.457                   | 14.700               | PASS    |
| Band71 | 15MHz     | 16QAM      | 133397  | 75RB#0           | 13.427                   | 14.730               | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0          | 17.782                   | 19.320               | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0          | 17.782                   | 19.200               | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0          | 17.742                   | 19.120               | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0          | 17.822                   | 19.240               | PASS    |
| Band71 | 20MHz     | 16QAM      | 133322  | 100RB#0          | 17.782                   | 19.320               | PASS    |
| Band71 | 20MHz     | 16QAM      | 133372  | 100RB#0          | 17.782                   | 19.200               | PASS    |





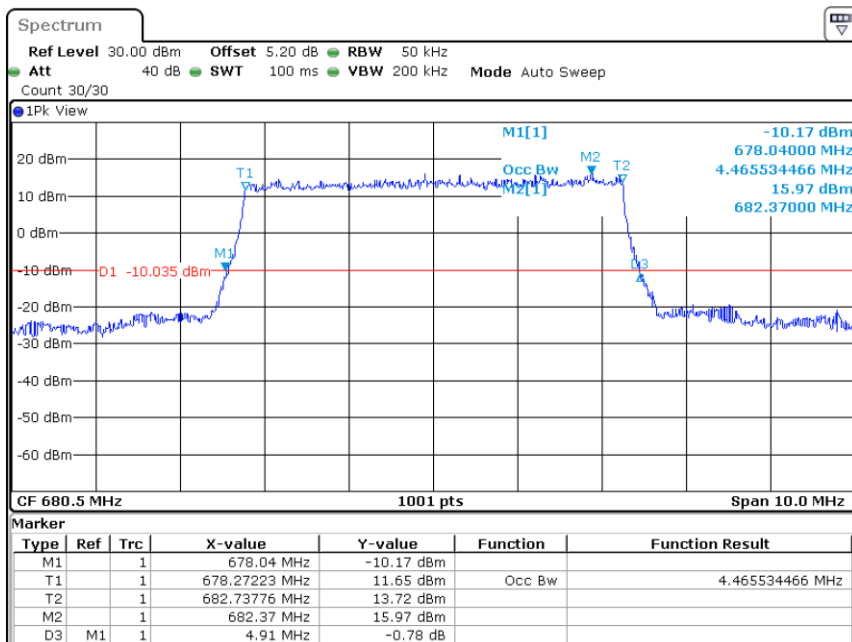
## 4.2. Test Plots

Band71-5MHz-QPSK-133147-25RB#0-4.476



Date: 23.APR.2021 06:29:11

Band71-5MHz-QPSK-133297-25RB#0-4.466



Date: 23.APR.2021 06:29:37



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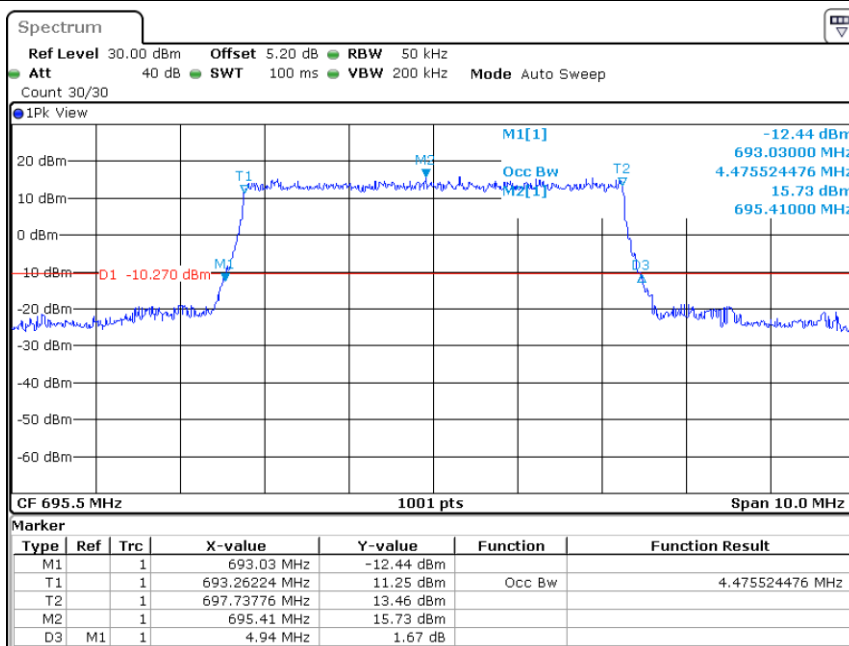
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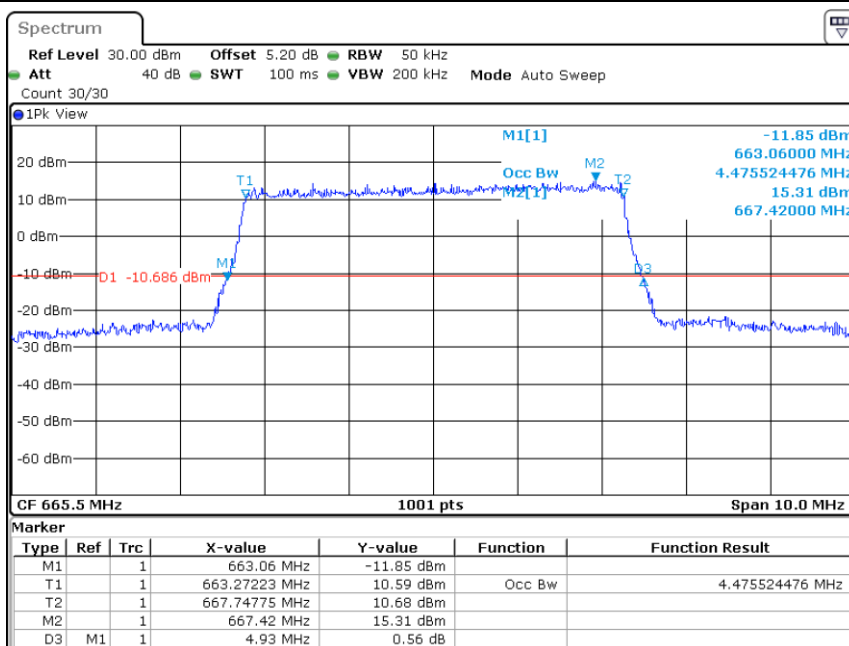


Band71-5MHz-QPSK-133447-25RB#0-4.476



Date: 23.APR 2021 06:30:03

Band71-5MHz-16QAM-133147-25RB#0-4.476



Date: 23.APR 2021 06:29:24



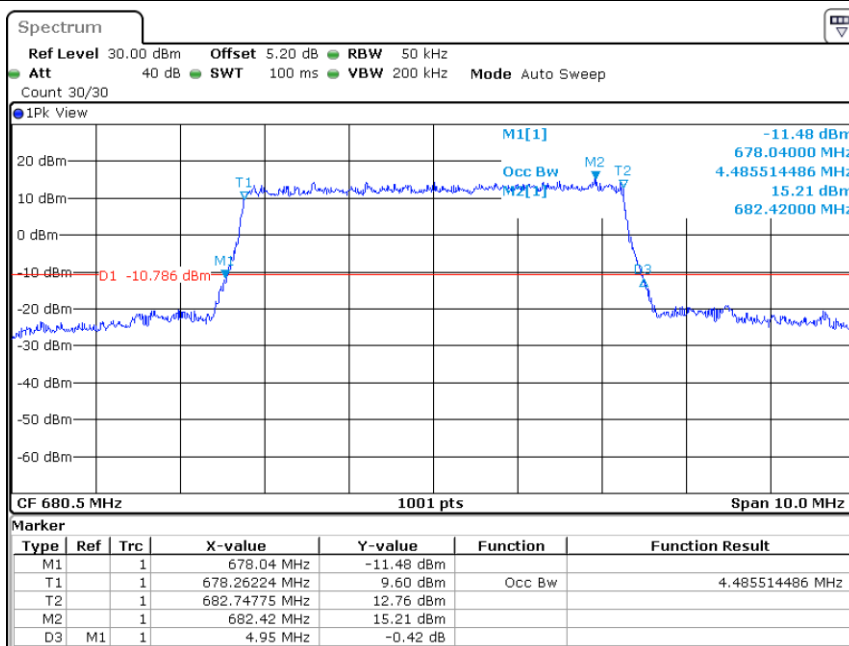
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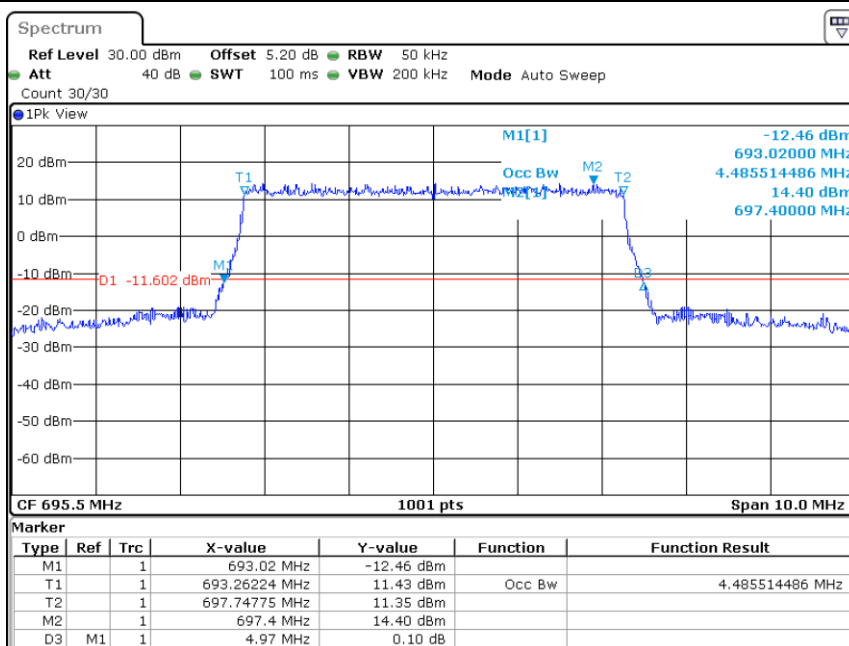


Band71-5MHz-16QAM-133297-25RB#0-4.486



Date: 23.APR.2021 06:29:50

Band71-5MHz-16QAM-133447-25RB#0-4.486



Date: 23.APR.2021 06:30:16

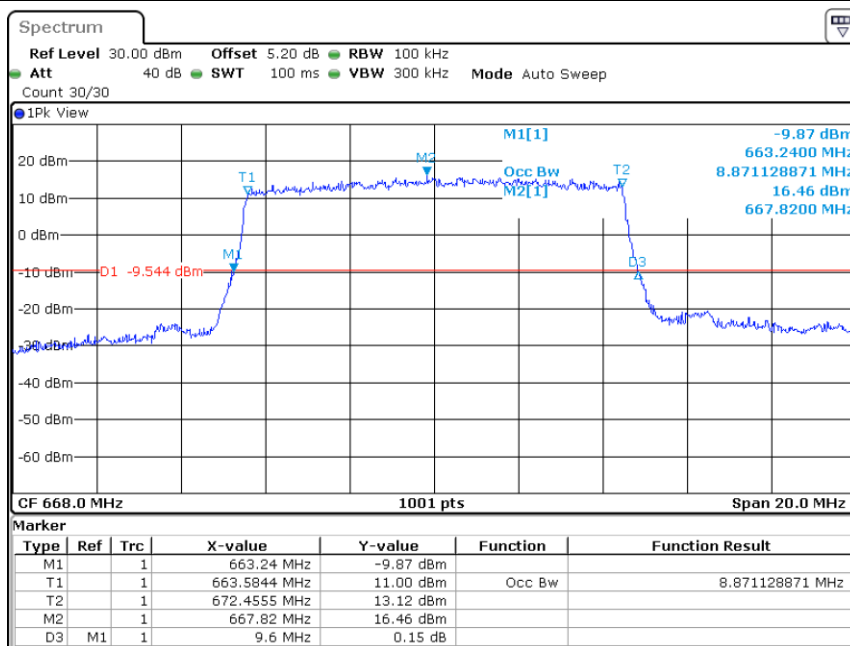


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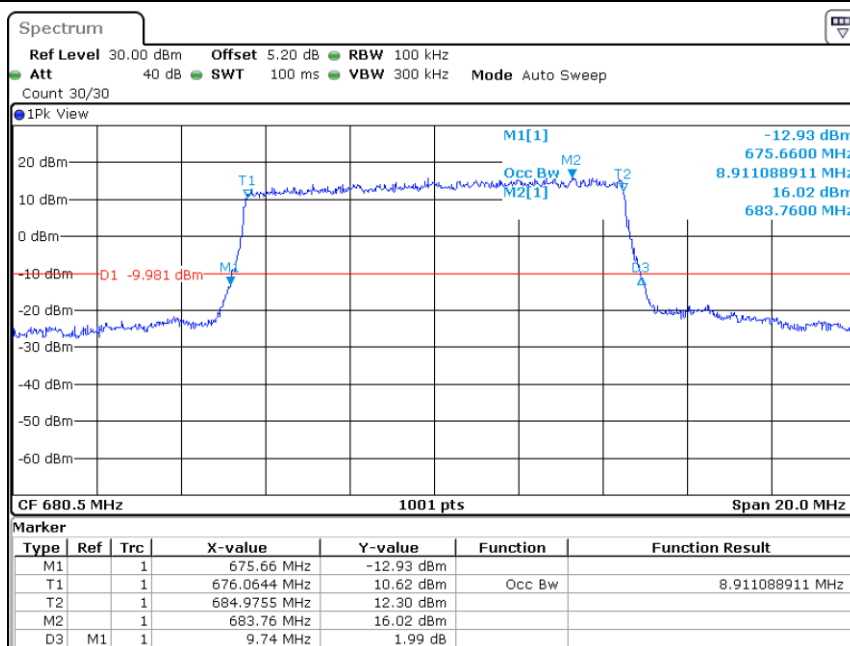


Band71-10MHz-QPSK-133172-50RB#0-8.871



Date: 23.APR.2021 06:30:34

Band71-10MHz-QPSK-133297-50RB#0-8.911



Date: 23.APR.2021 06:31:00



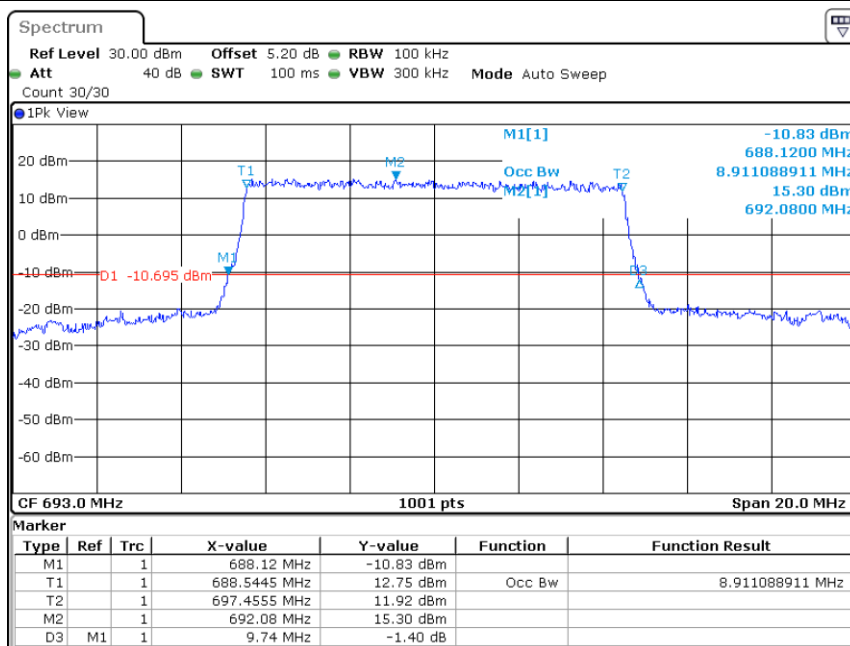
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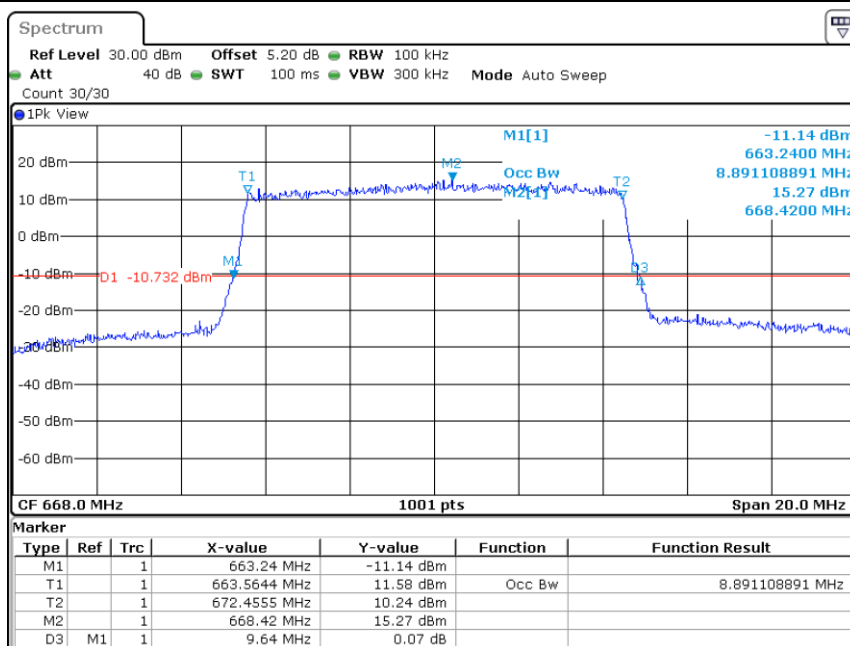


Band71-10MHz-QPSK-133422-50RB#0-8.911



Date: 23.APR 2021 06:31:26

Band71-10MHz-16QAM-133172-50RB#0-8.891



Date: 23.APR 2021 06:30:47



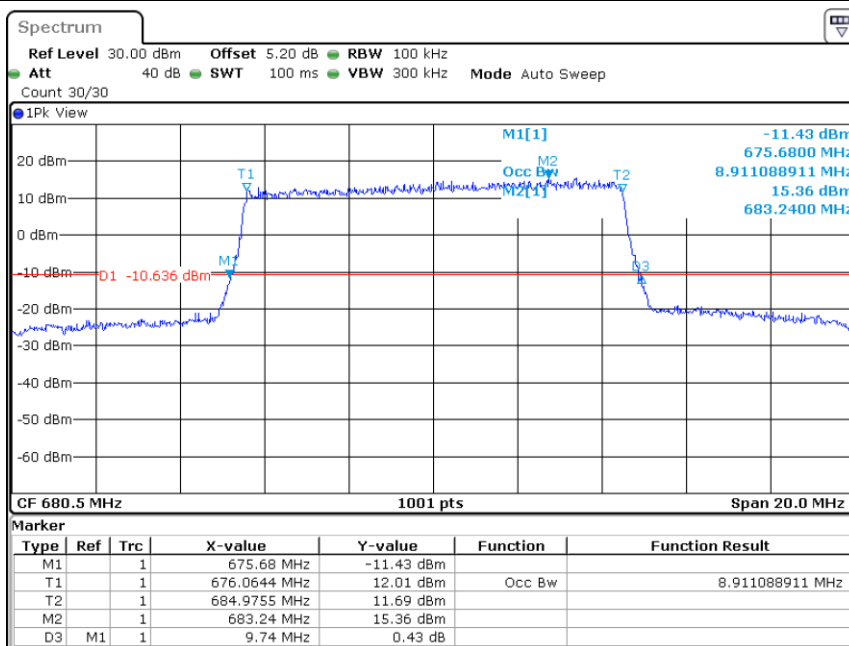
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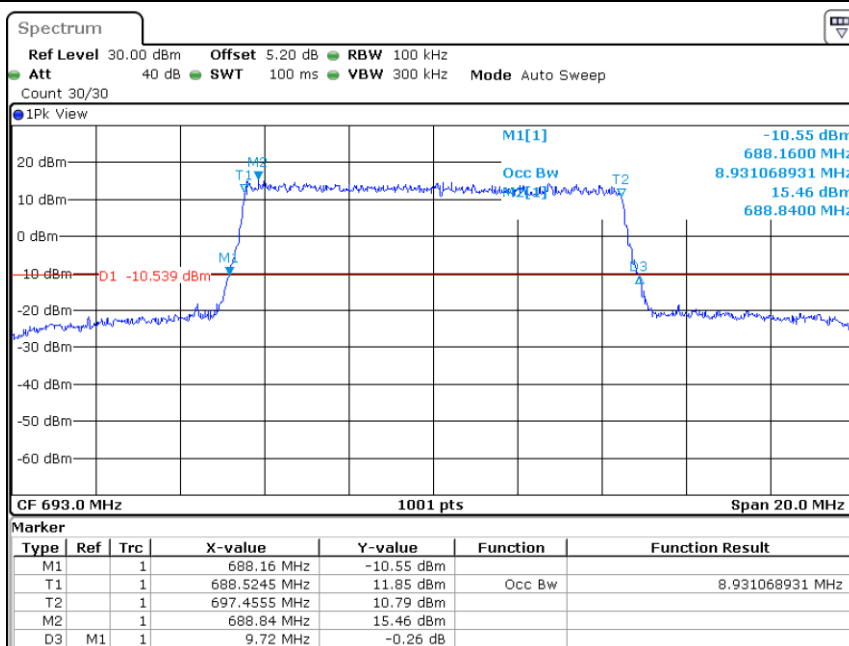


Band71-10MHz-16QAM-133297-50RB#0-8.911



Date: 23.APR 2021 06:31:13

Band71-10MHz-16QAM-133422-50RB#0-8.931



Date: 23.APR 2021 06:31:38

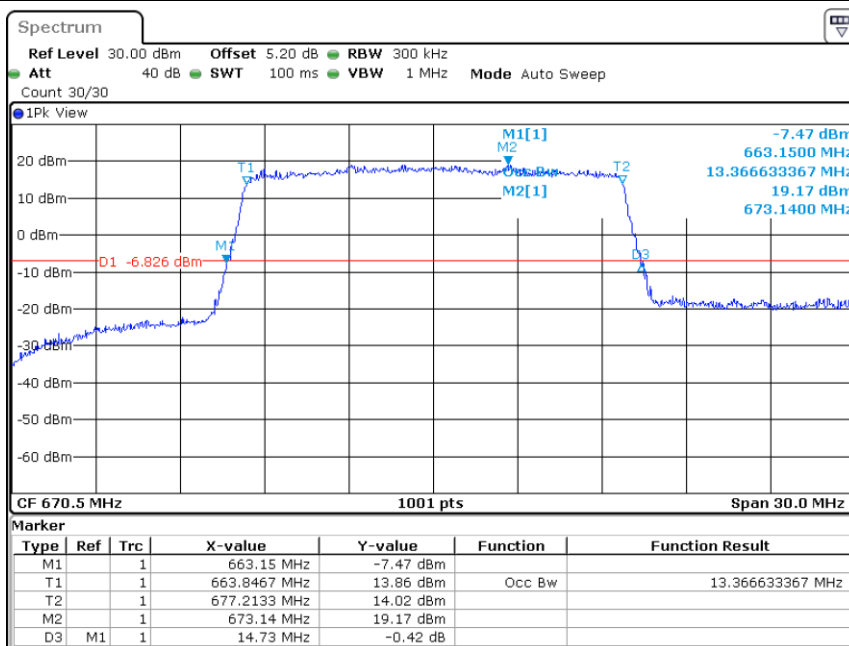


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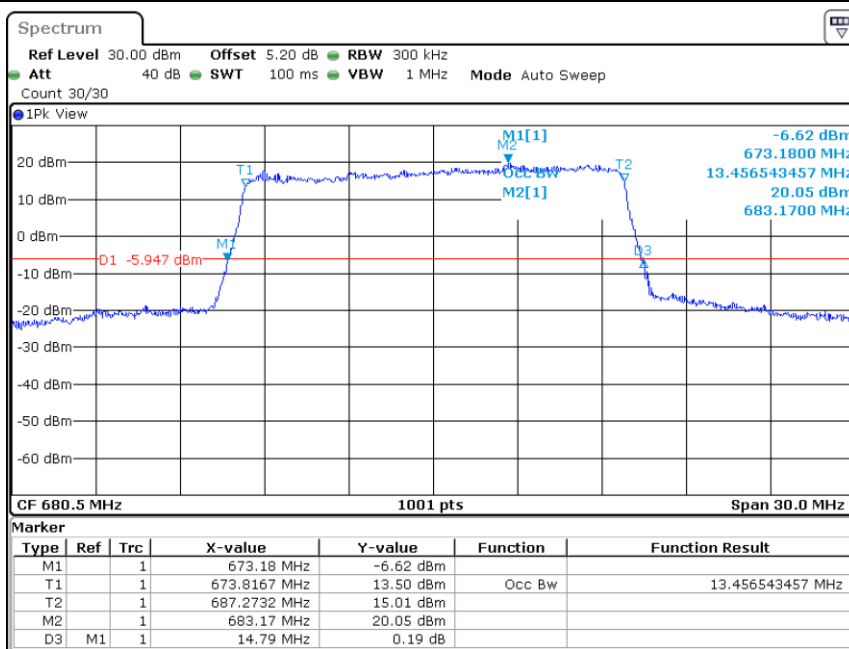


Band71-15MHz-QPSK-133197-75RB#0-13.367



Date: 23.APR 2021 06:31:57

Band71-15MHz-QPSK-133297-75RB#0-13.457



Date: 23.APR 2021 06:32:23



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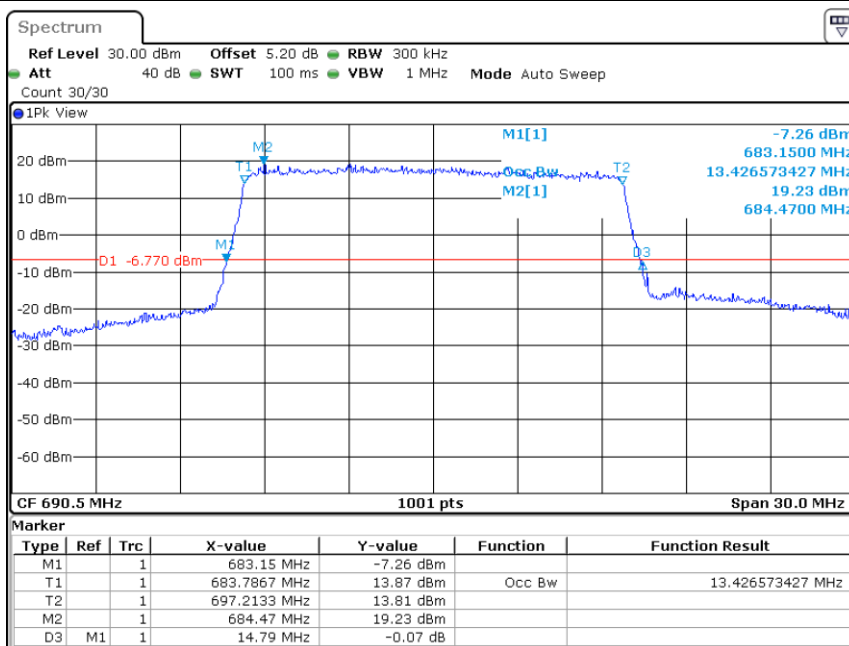
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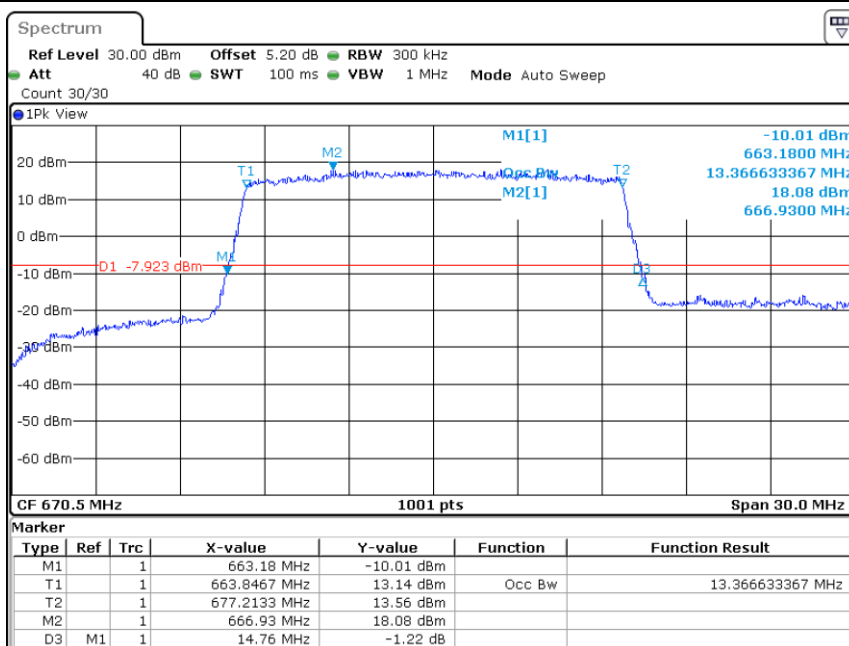


Band71-15MHz-QPSK-133397-75RB#0-13.427



Date: 23.APR 2021 06:32:49

Band71-15MHz-16QAM-133197-75RB#0-13.367



Date: 23.APR 2021 06:32:10



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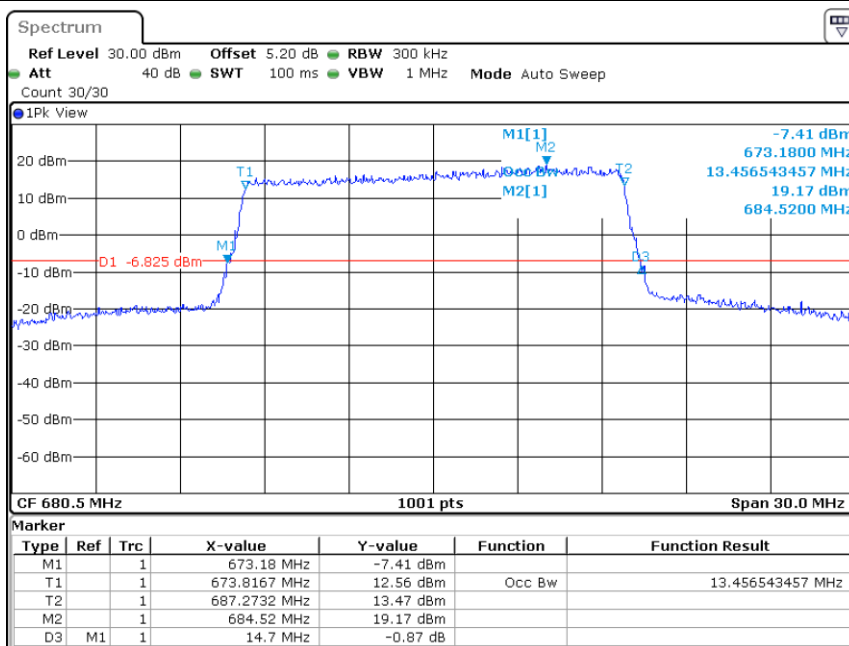
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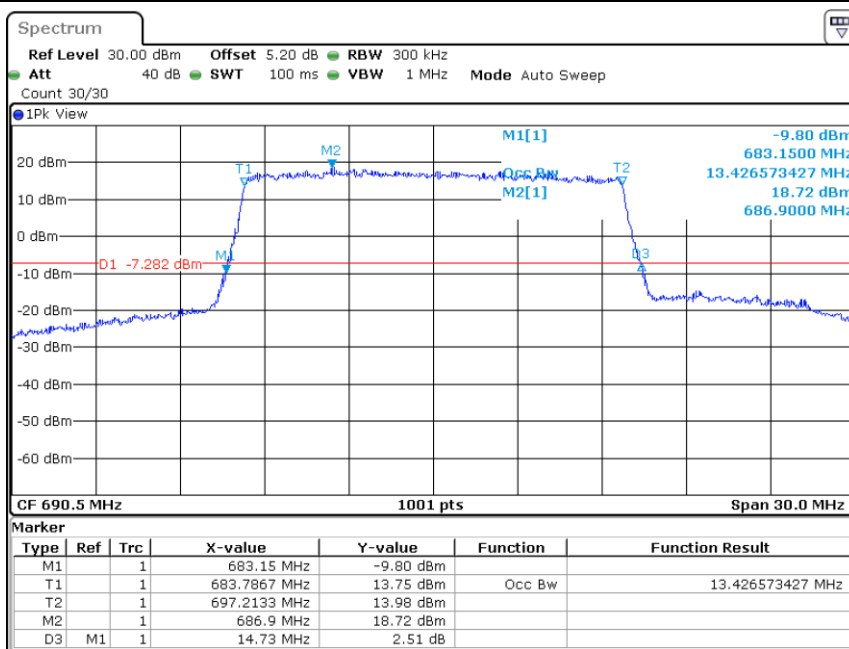


Band71-15MHz-16QAM-133297-75RB#0-13.457



Date: 23.APR.2021 06:32:35

Band71-15MHz-16QAM-133397-75RB#0-13.427



Date: 23.APR.2021 06:33:01



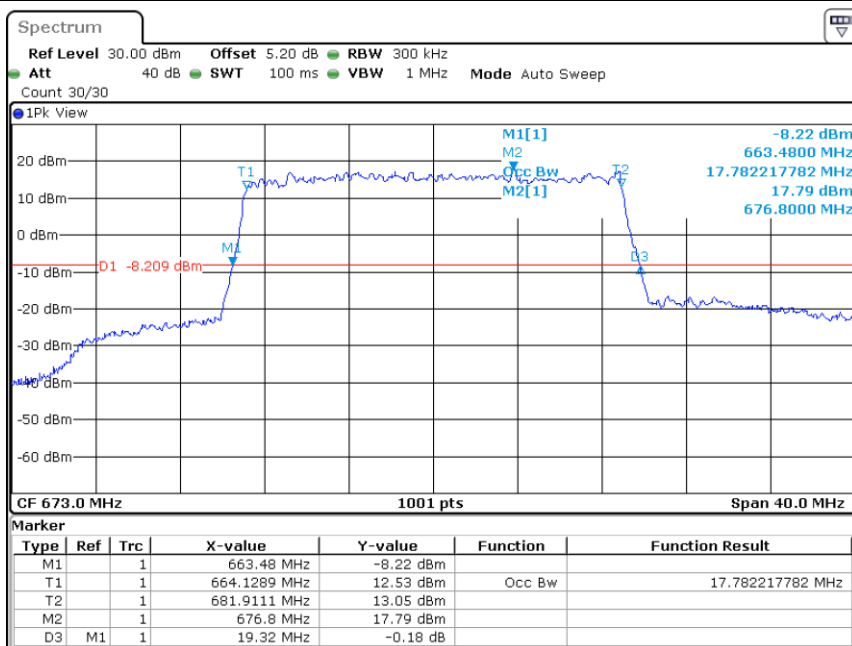
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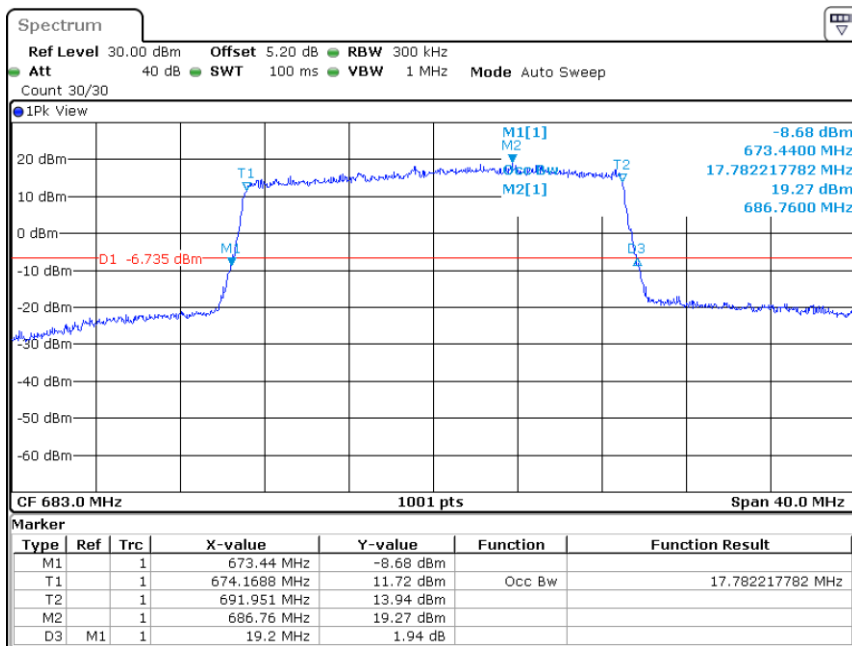
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## Band71-20MHz-QPSK-133222-100RB#0-17.782



Date: 23.APR 2021 06:33:20

## Band71-20MHz-QPSK-133322-100RB#0-17.782

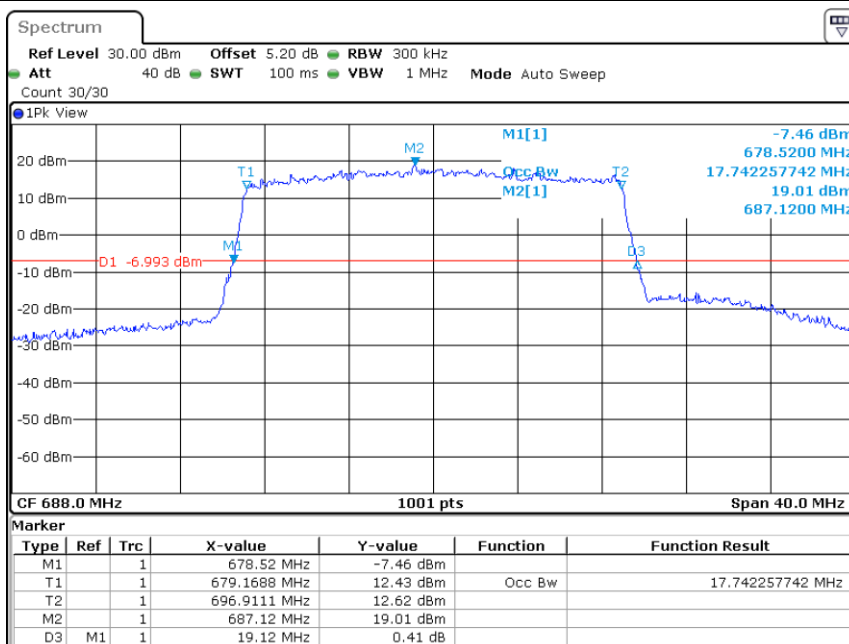


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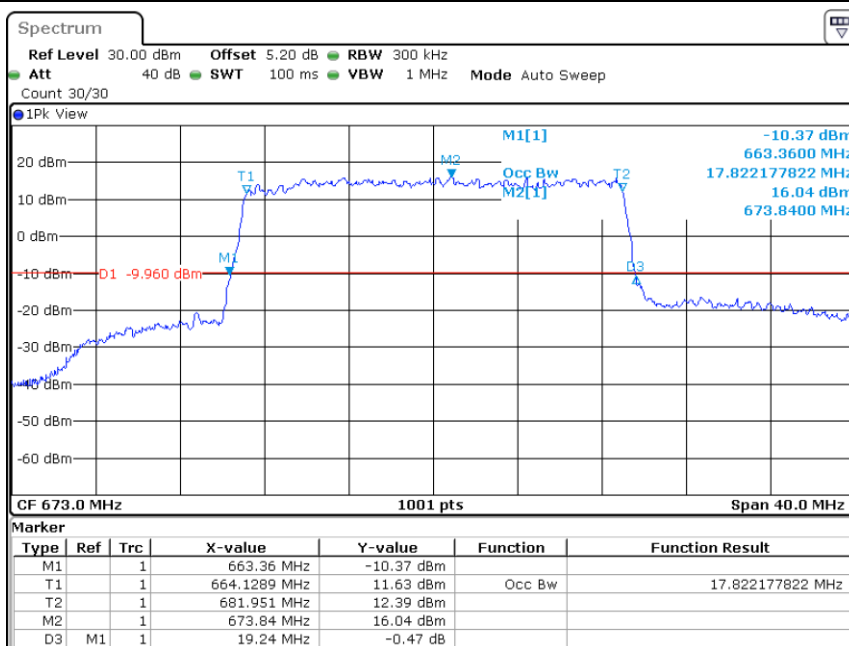


Band71-20MHz-QPSK-133372-100RB#0-17.742



Date: 23.APR.2021 06:34:12

Band71-20MHz-16QAM-133222-100RB#0-17.822



Date: 23.APR.2021 06:33:33

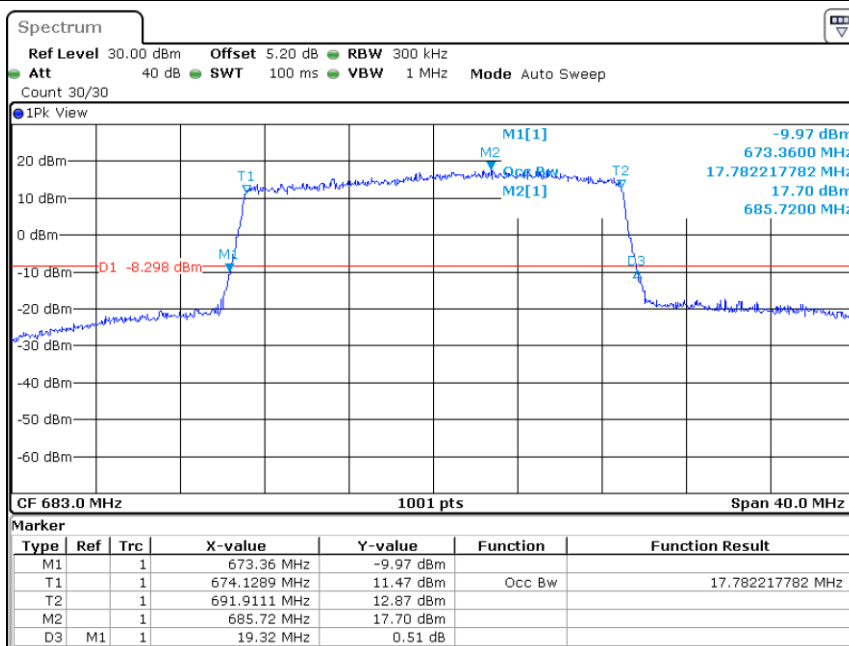


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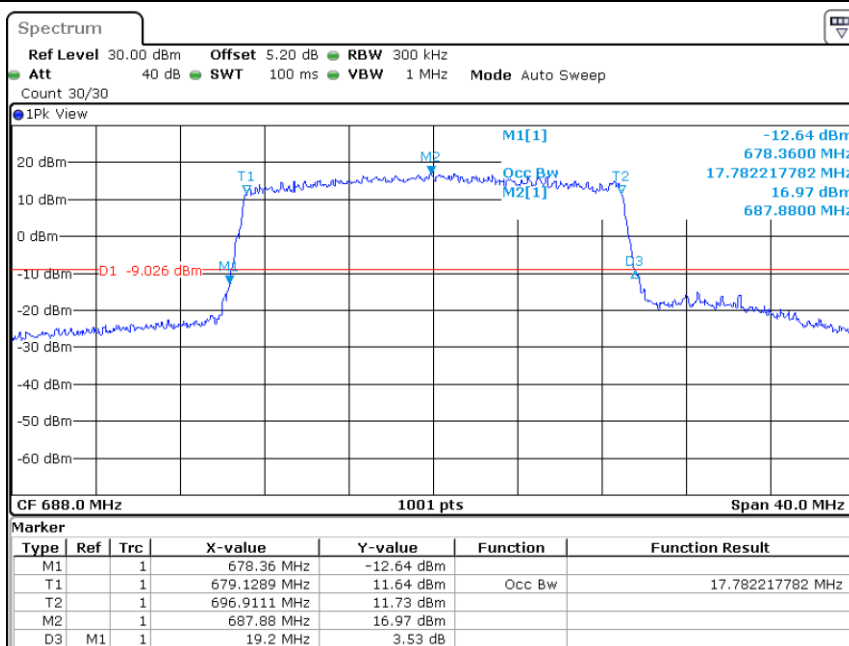


Band71-20MHz-16QAM-133322-100RB#0-17.782



Date: 23.APR.2021 06:33:59

Band71-20MHz-16QAM-133372-100RB#0-17.782



Date: 23.APR.2021 06:34:24



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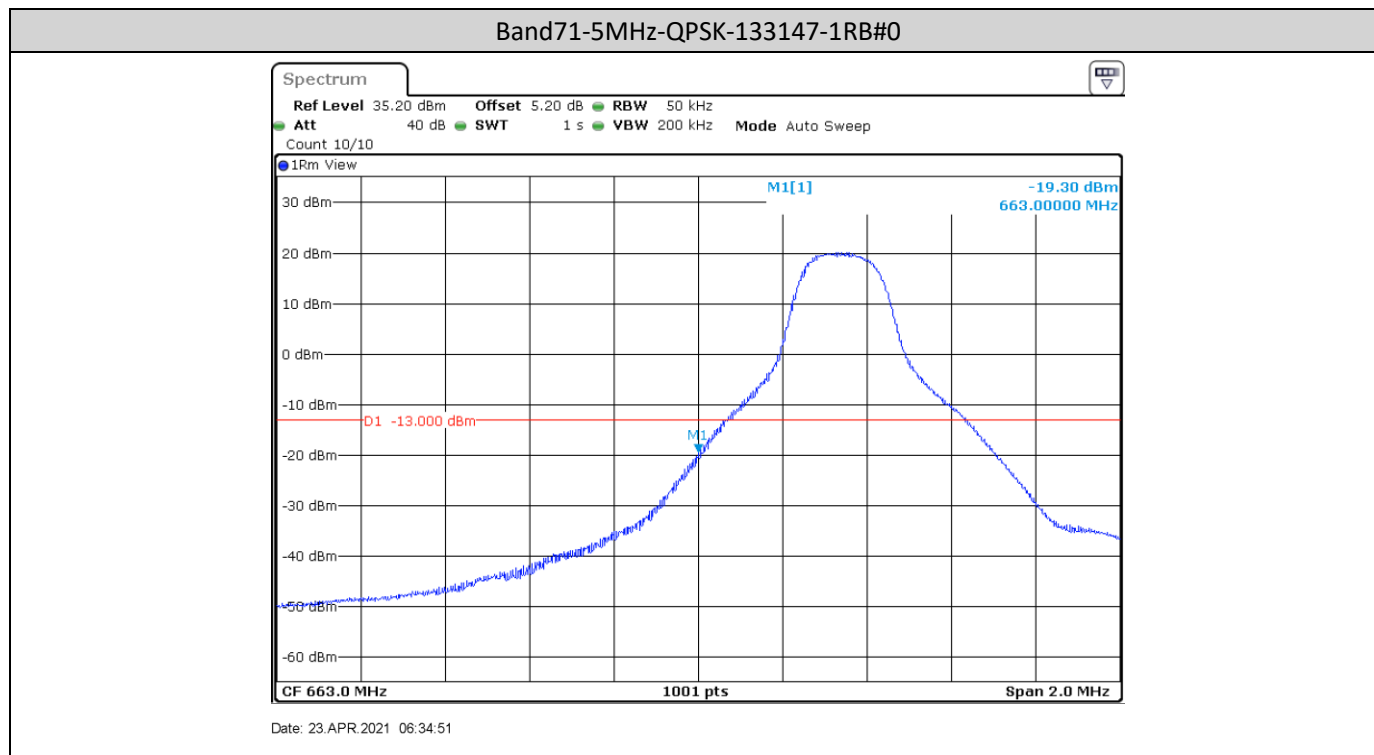
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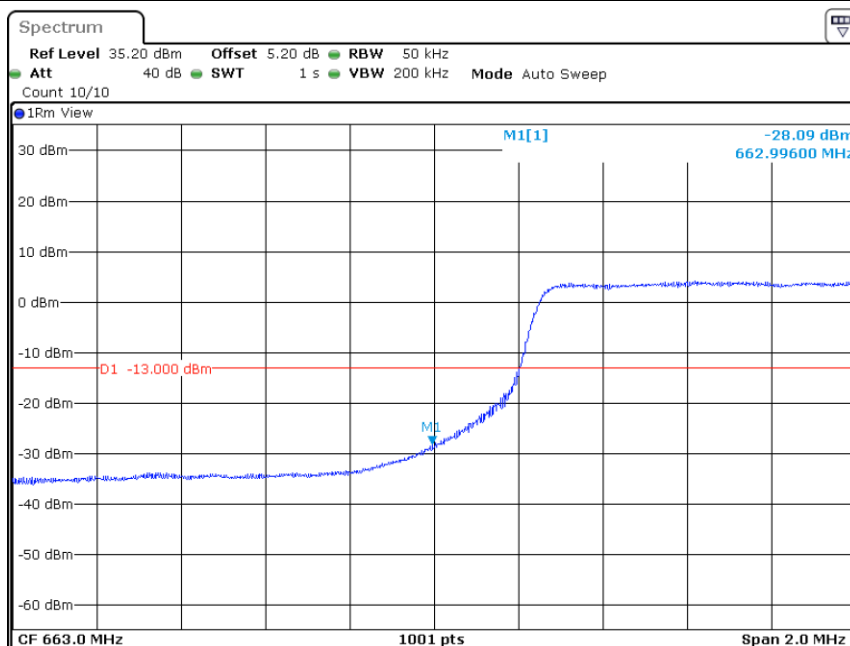
## 5. Band Edge Compliance

### 5.1. Test Plots



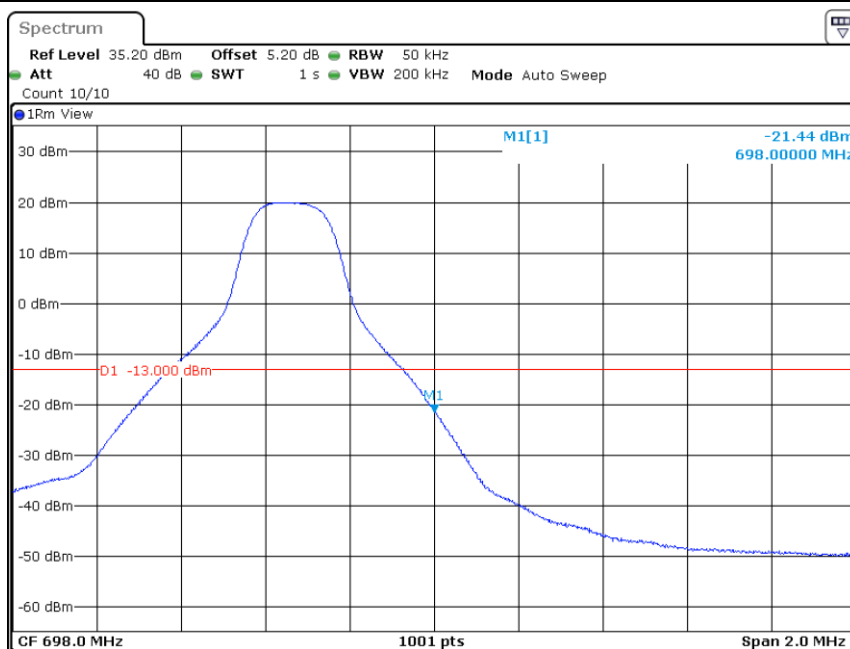


Band71-5MHz-QPSK-133147-25RB#0



Date: 23.APR.2021 06:35:32

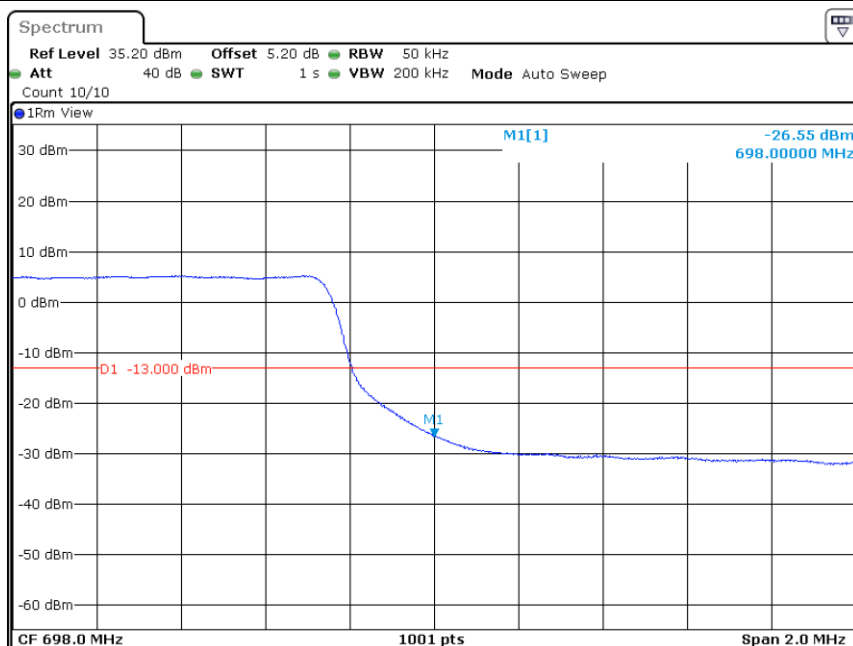
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Date: 23.APR.2021 06:36:18

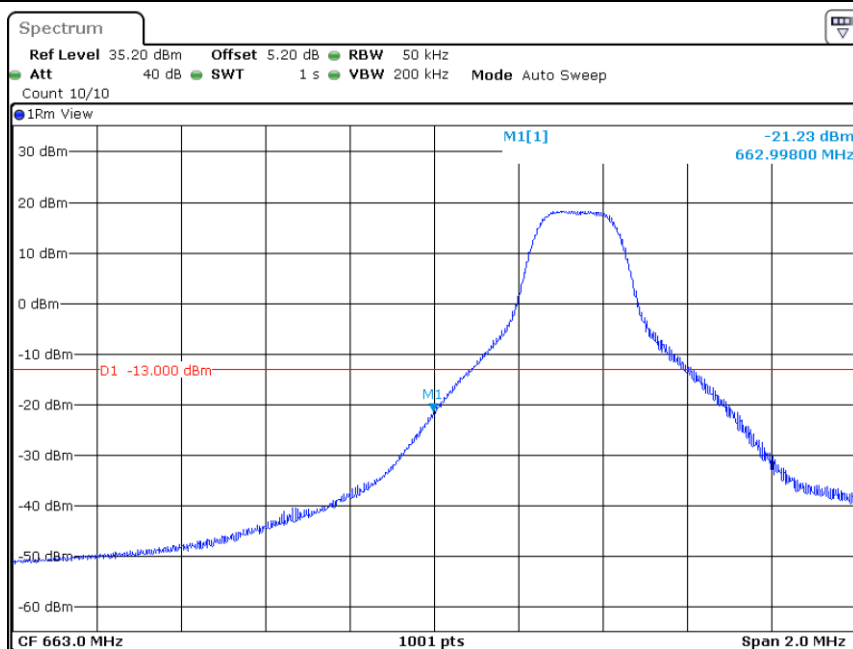


## Band71-5MHz-QPSK-133447-25RB#0



Date: 23 APR 2021 06:36:59

Band71-5MHz-16QAM-133147-1RB#0



Date: 23 APR 2021 06:35:11



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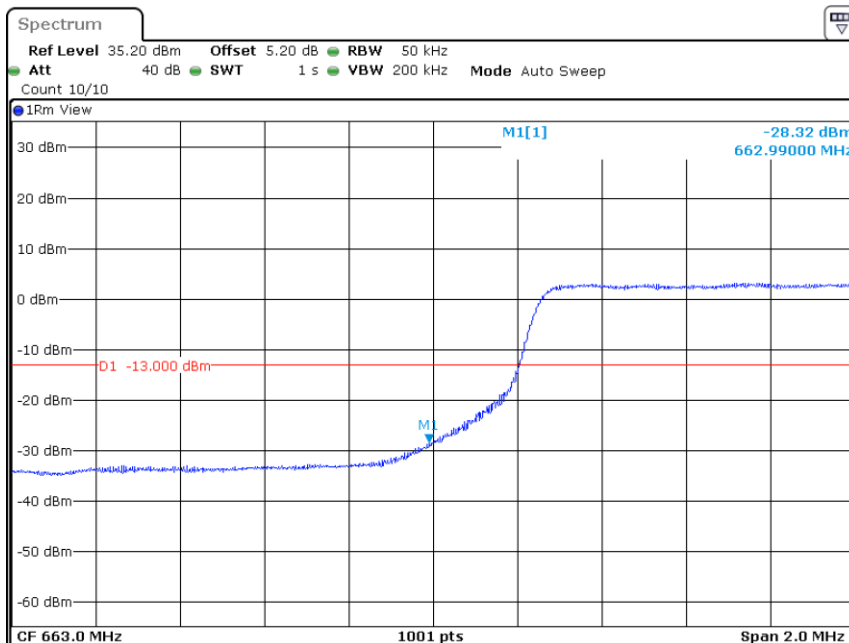
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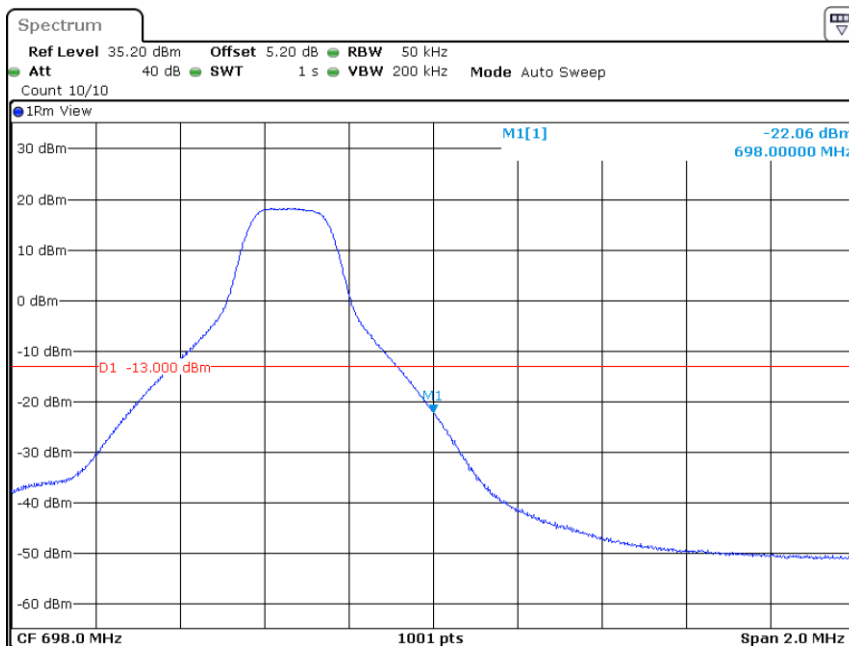


Band71-5MHz-16QAM-133147-25RB#0



Date: 23.APR.2021 06:35:53

Band71-5MHz-16QAM-133447-1RB#24



Date: 23.APR.2021 06:36:38



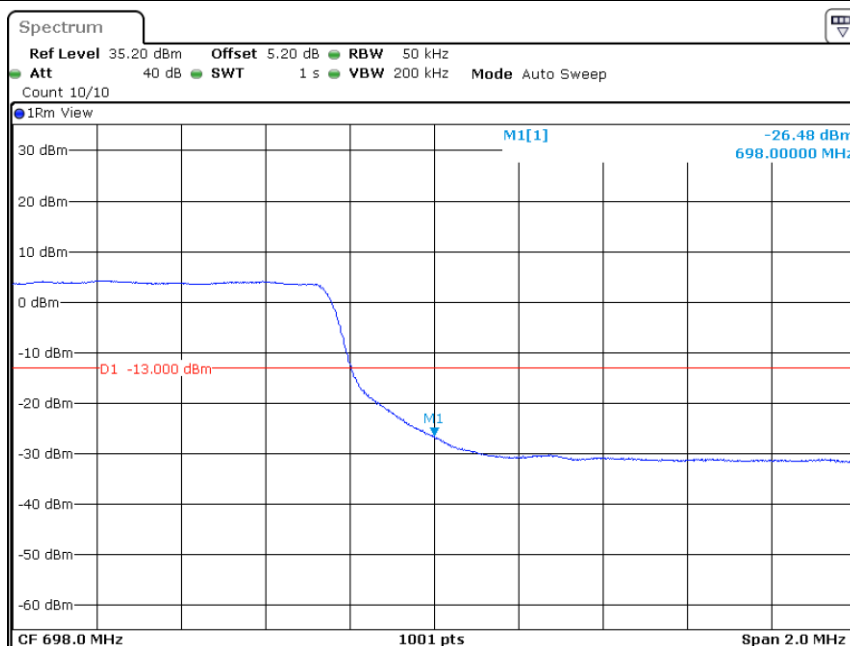
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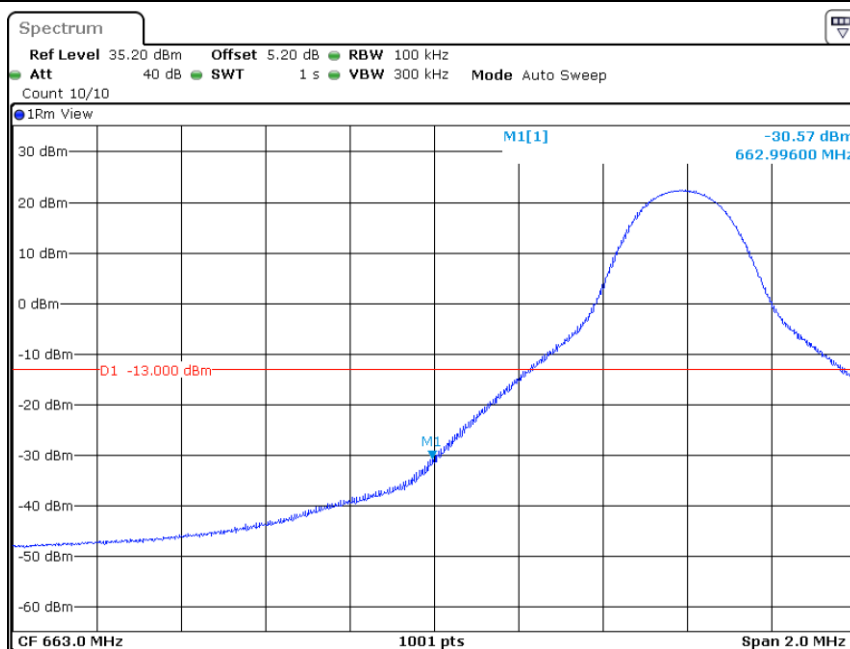


Band71-5MHz-16QAM-133447-25RB#0



Date: 23.APR.2021 06:37:19

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

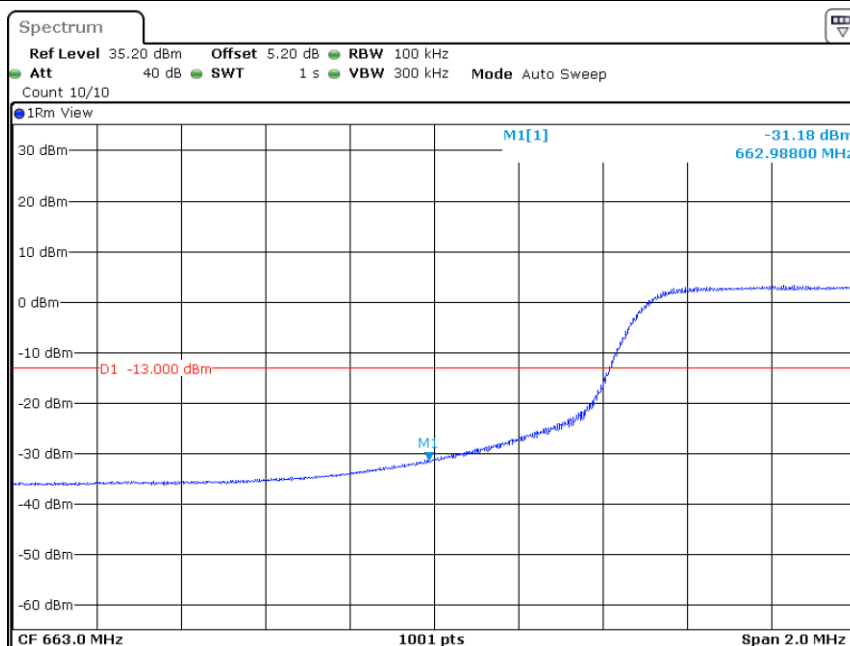


Date: 23.APR.2021 06:37:46



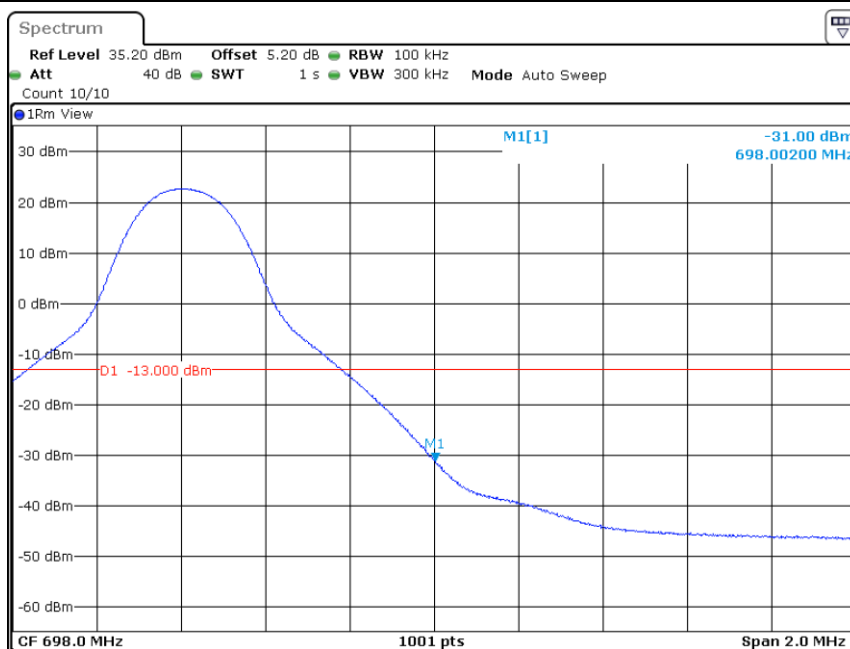


Band71-10MHz-QPSK-133172-50RB#0



Date: 23.APR.2021 06:38:27

Band71-10MHz-QPSK-133422-1RB#49



Date: 23.APR.2021 06:39:13



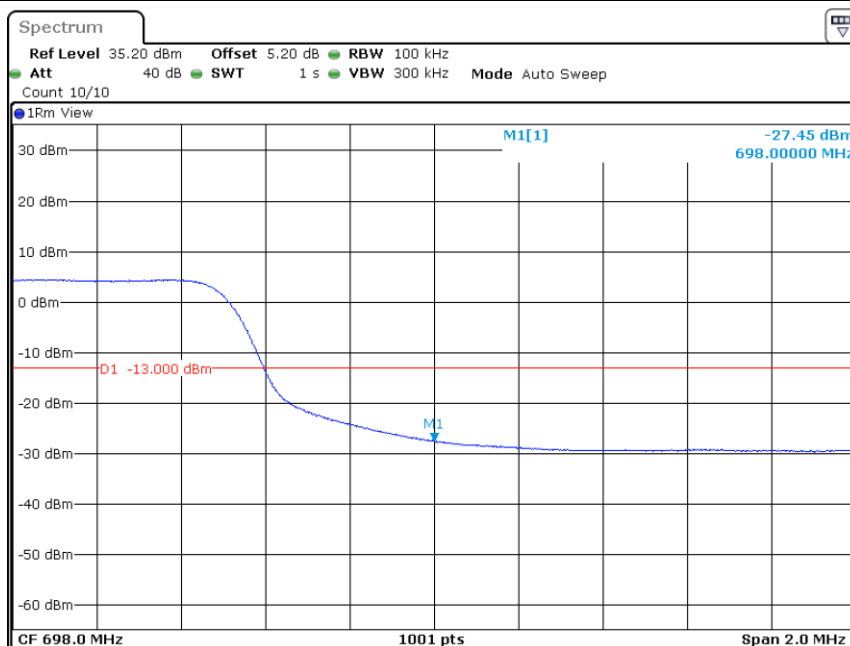
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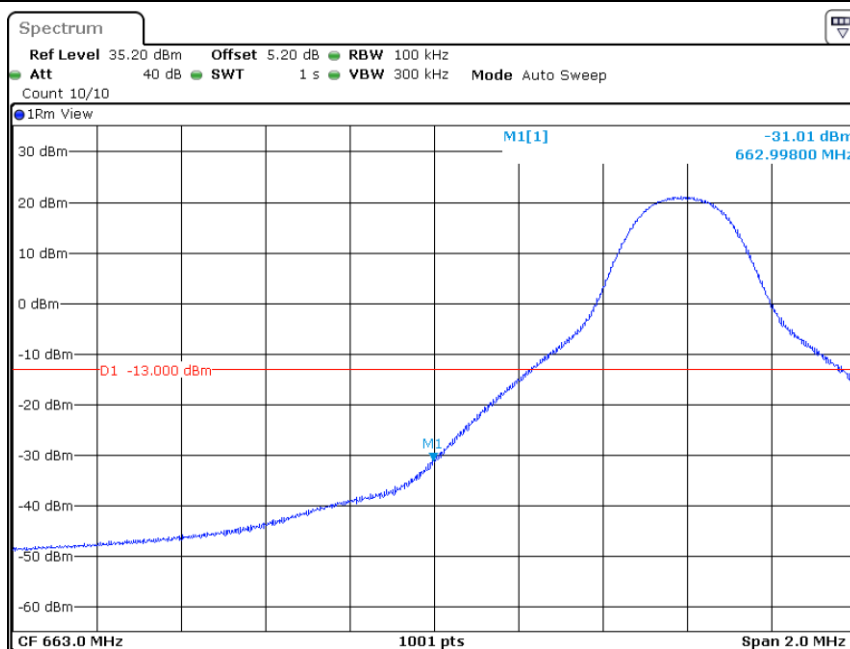


Band71-10MHz-QPSK-133422-50RB#0



Date: 23.APR.2021 06:39:54

Band71-10MHz-16QAM-133172-1RB#0



Date: 23.APR.2021 06:38:06



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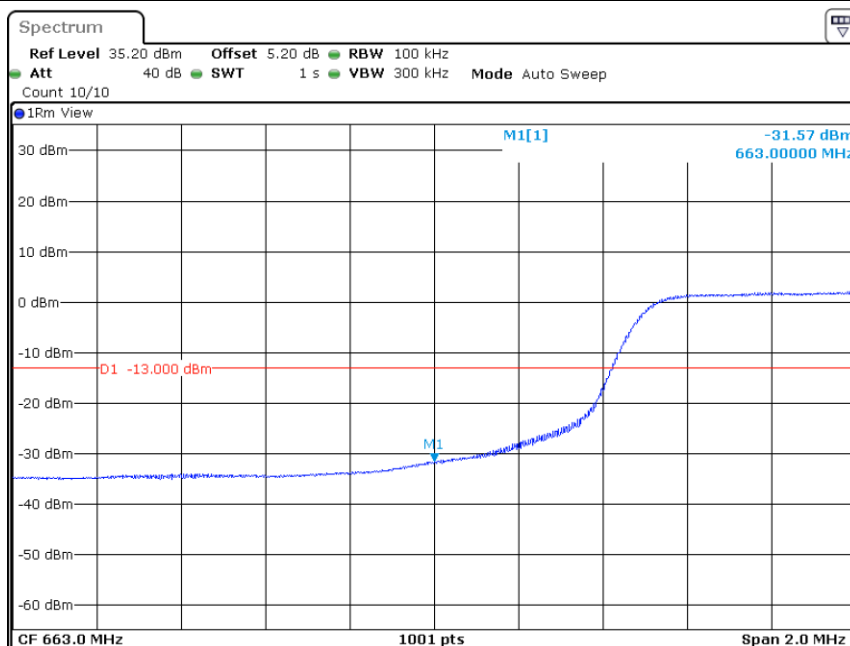
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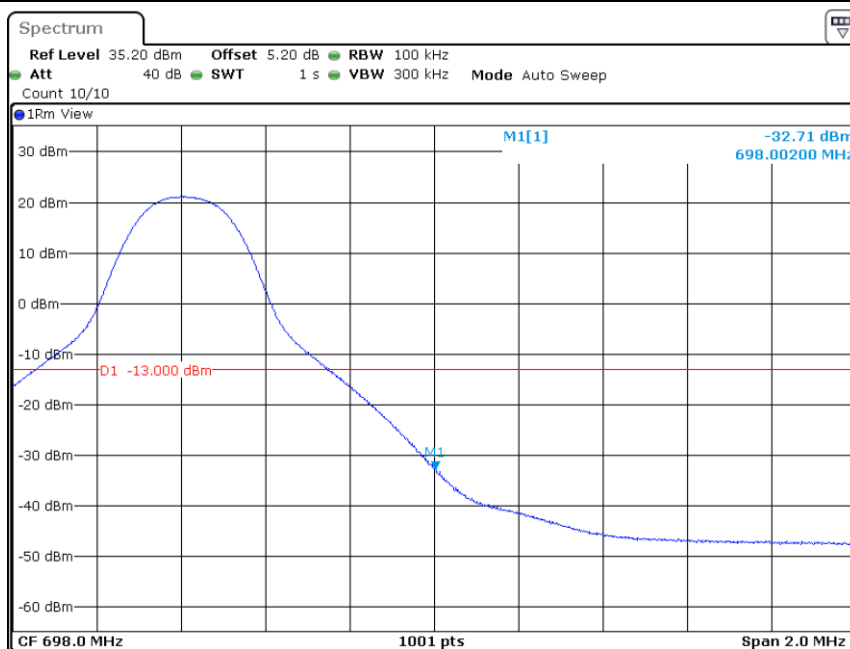


Band71-10MHz-16QAM-133172-50RB#0



Date: 23.APR.2021 06:38:48

Band71-10MHz-16QAM-133422-1RB#49

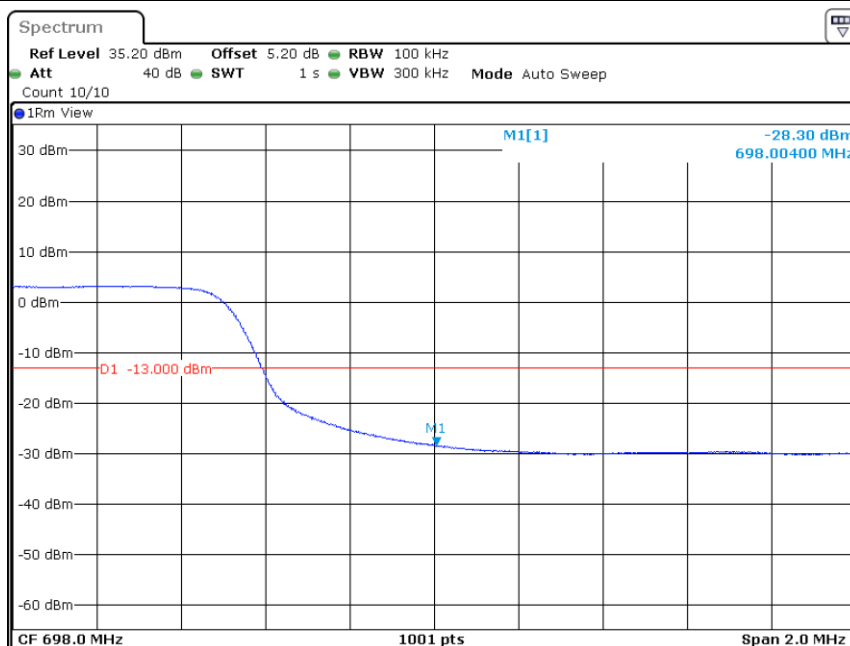


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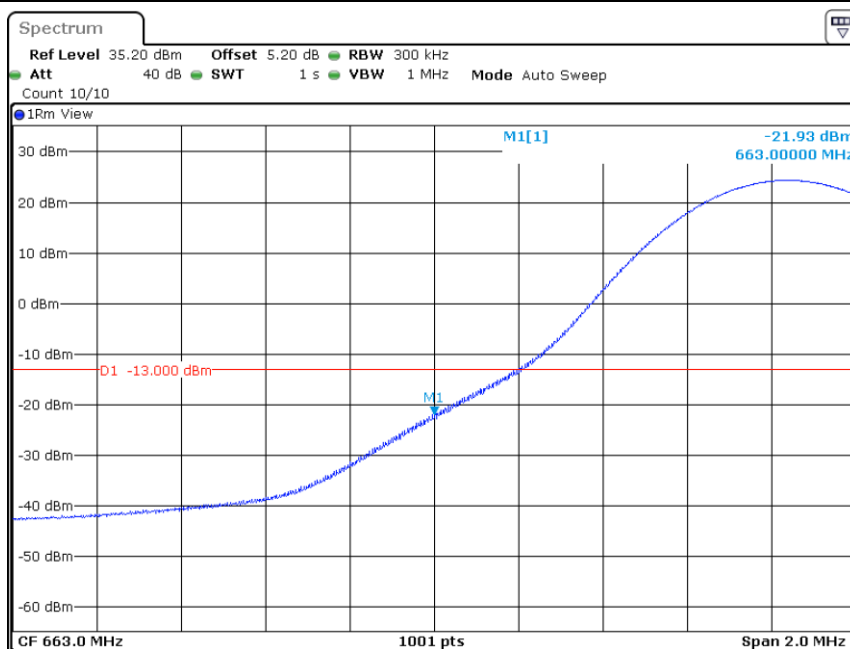


Band71-10MHz-16QAM-133422-50RB#0



Date: 23.APR.2021 06:40:14

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



Date: 23.APR.2021 06:40:41



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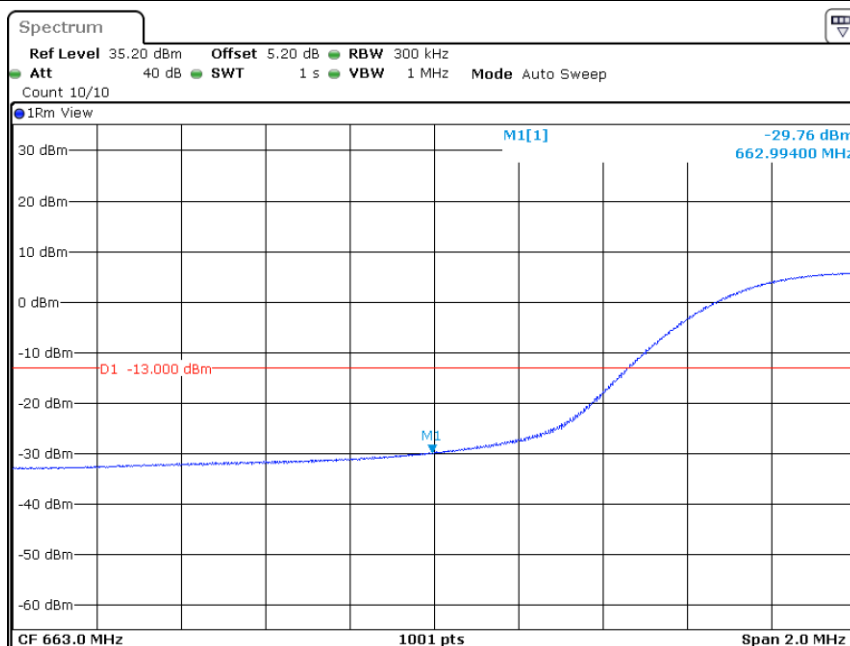
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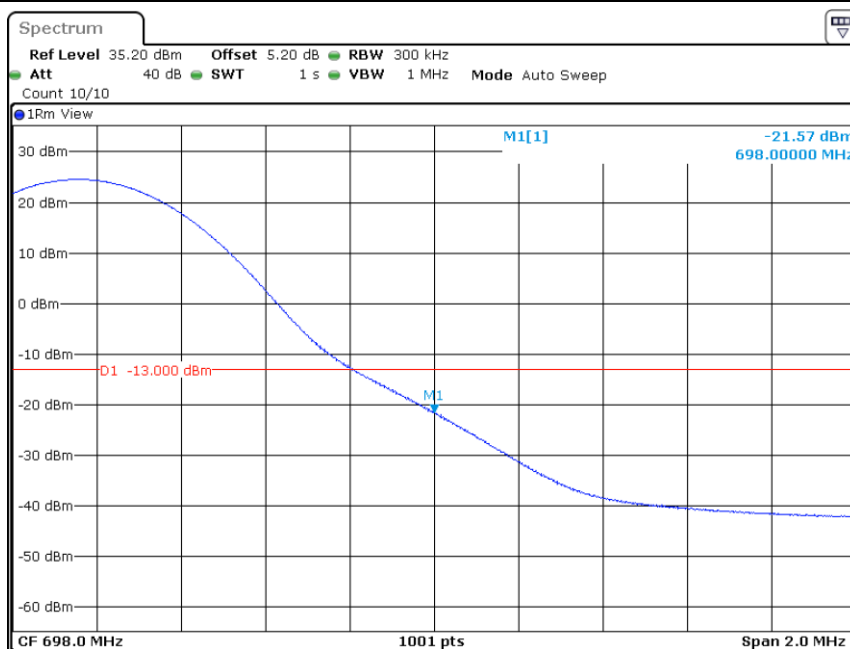


Band71-15MHz-QPSK-133197-75RB#0



Date: 23.APR.2021 06:41:22

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



Date: 23.APR.2021 06:42:07



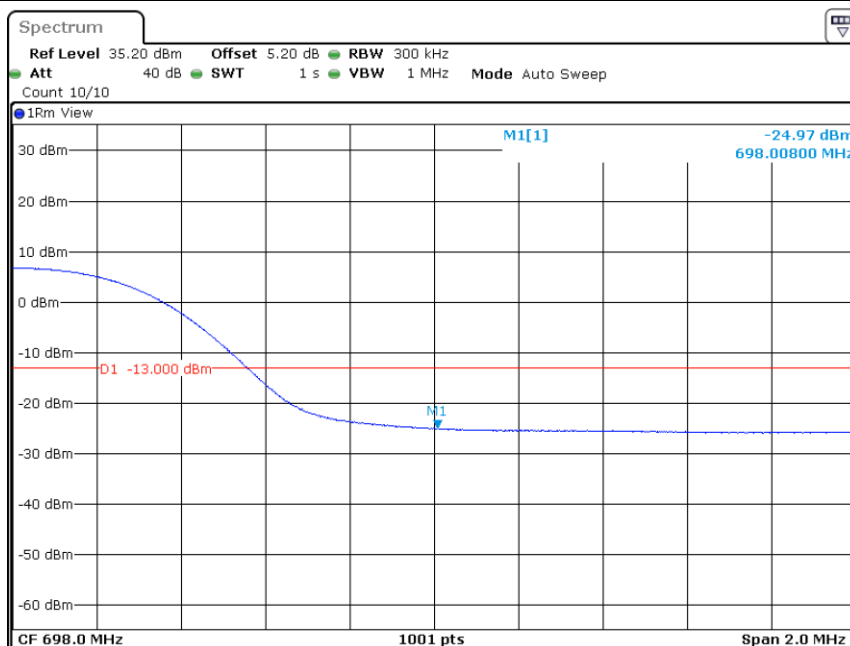
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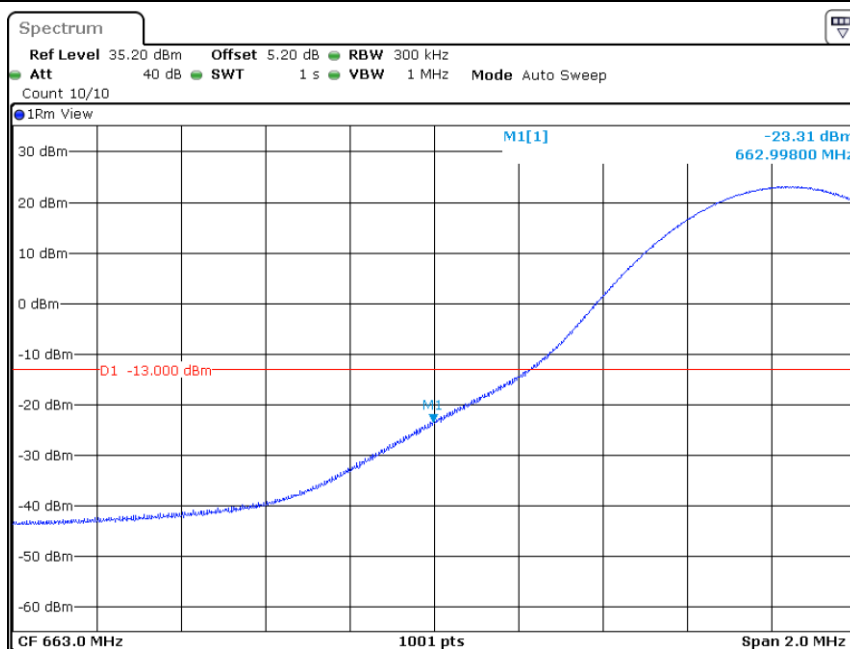


Band71-15MHz-QPSK-133397-75RB#0



Date: 23.APR.2021 06:42:49

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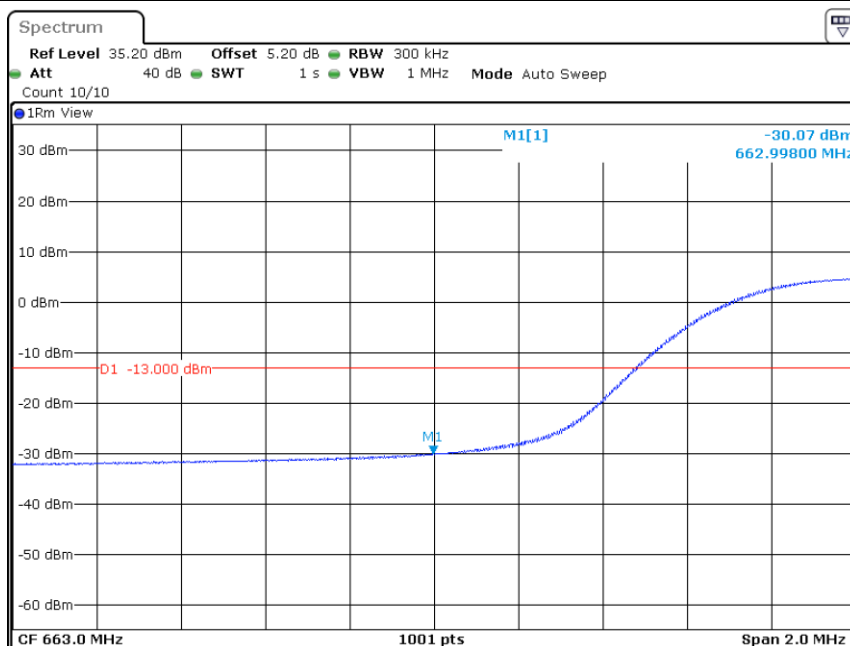


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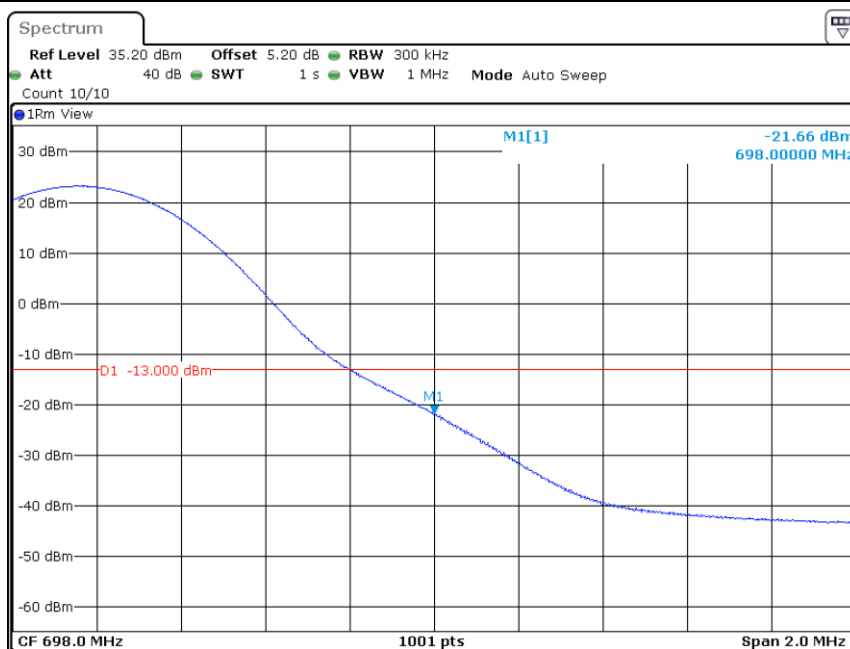


Band71-15MHz-16QAM-133197-75RB#0



Date: 23.APR.2021 06:41:43

Band71-15MHz-16QAM-133397-1RB#74

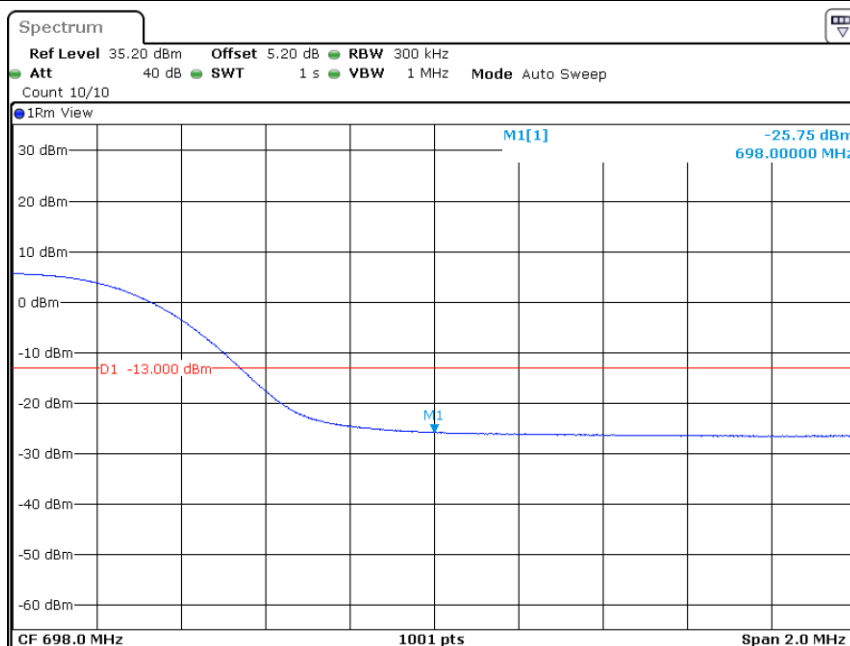


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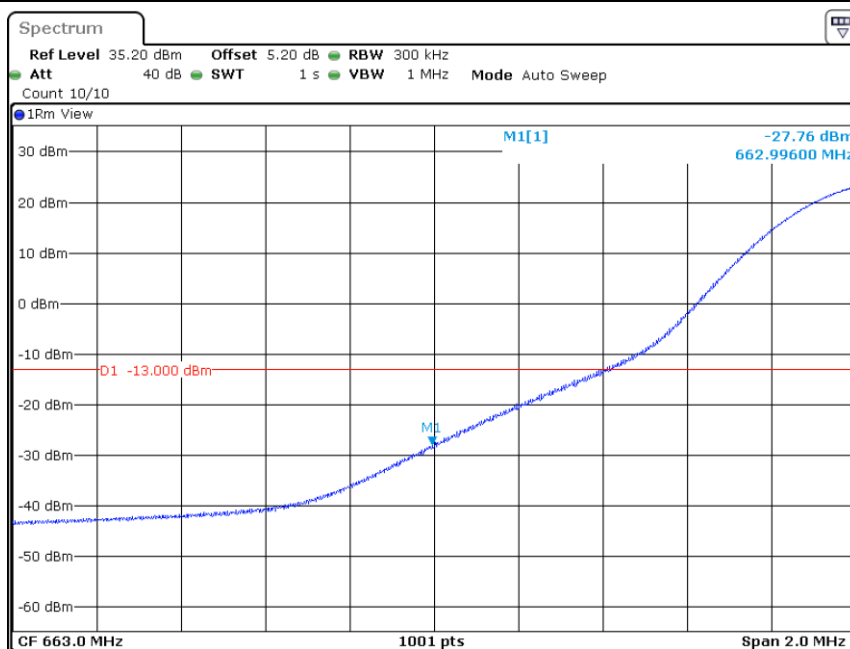


Band71-15MHz-16QAM-133397-75RB#0



Date: 23.APR.2021 06:43:09

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



Date: 23.APR.2021 06:43:36

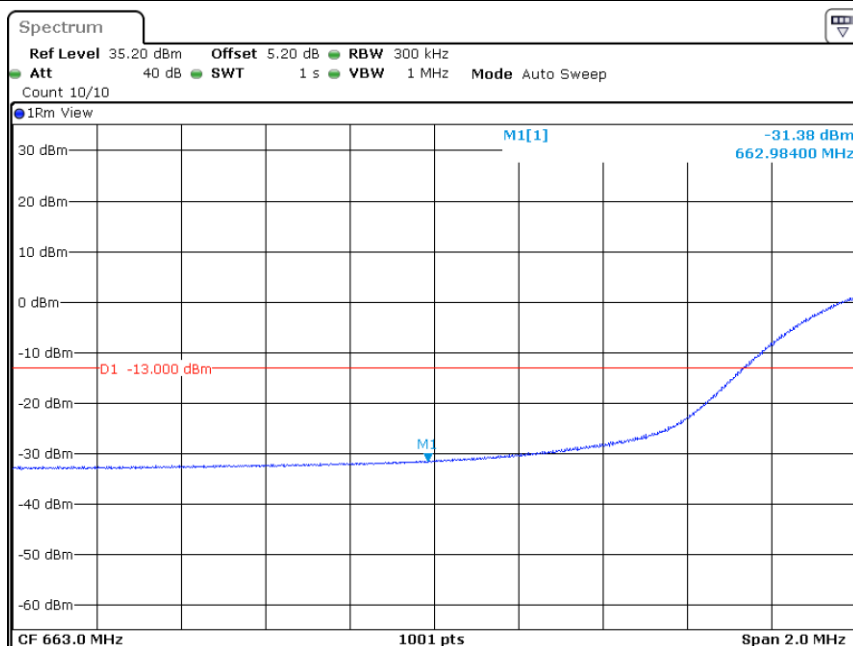


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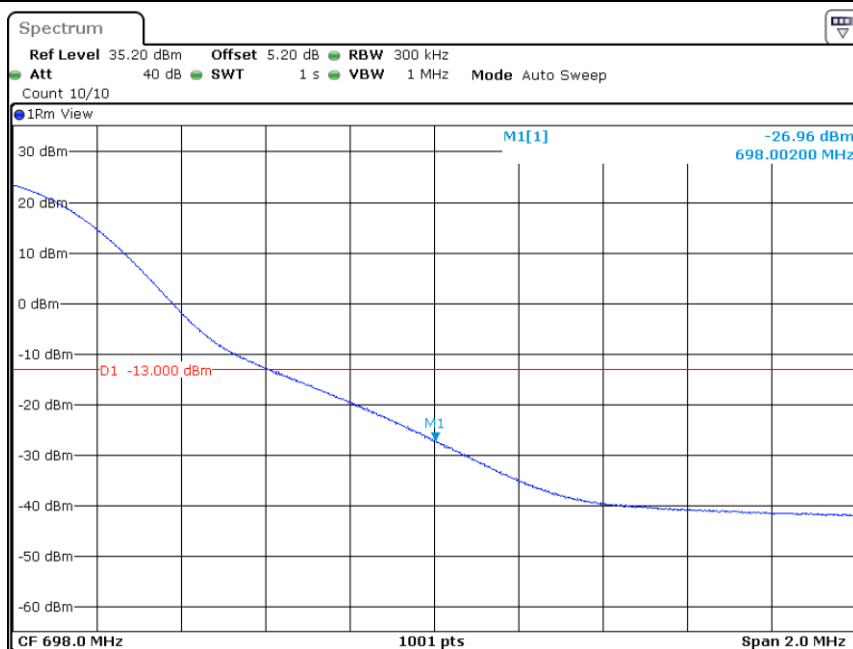
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Band71-20MHz-QPSK-133222-100RB#0



Date: 23 APR 2021 06:44:17

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



Date: 23 APR 2021 06:45:03



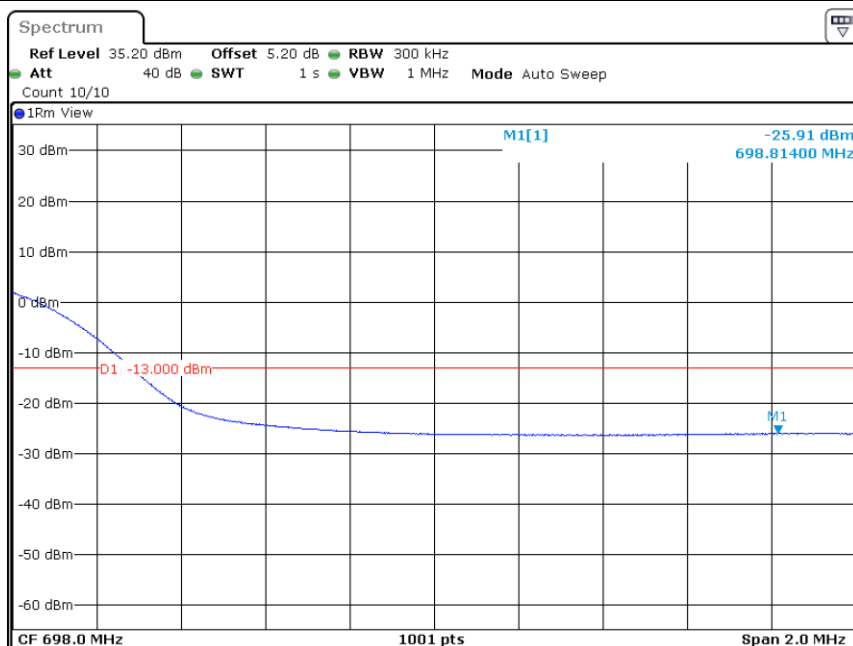
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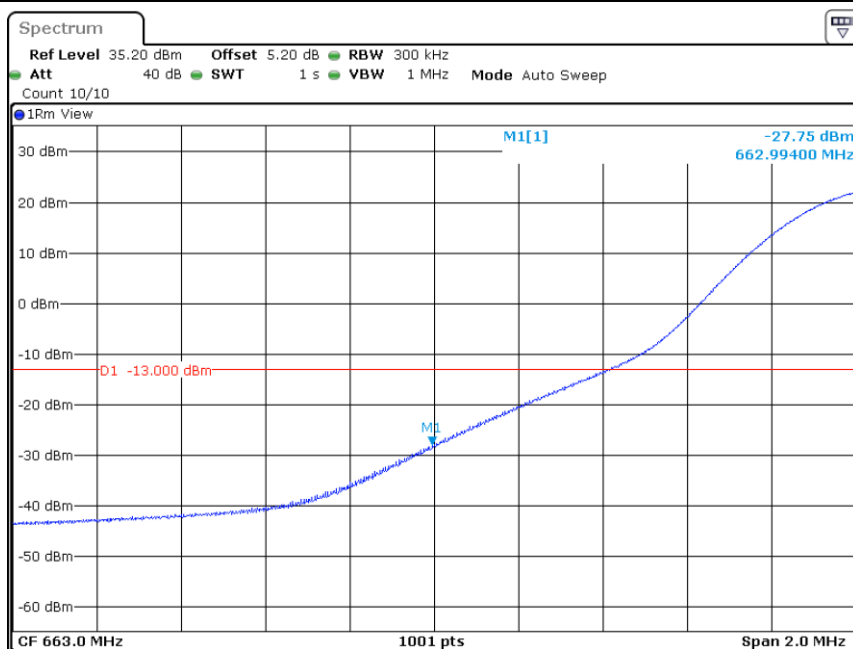
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## Band71-20MHz-QPSK-133372-100RB#0



Date: 23 APR 2021 06:45:44

Band71-20MHz-16QAM-133222-1RB#0



Date: 23 APR 2021 06:43:56



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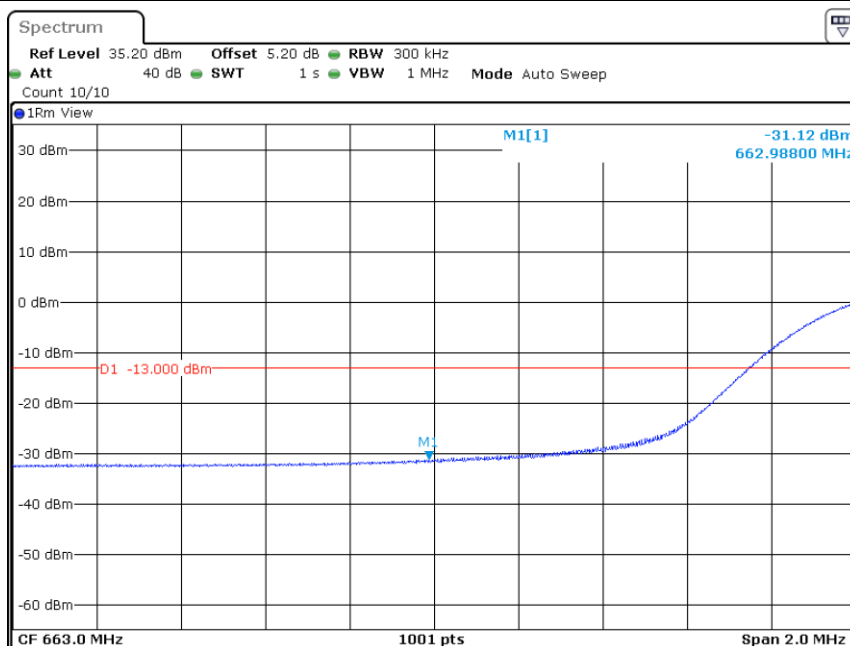
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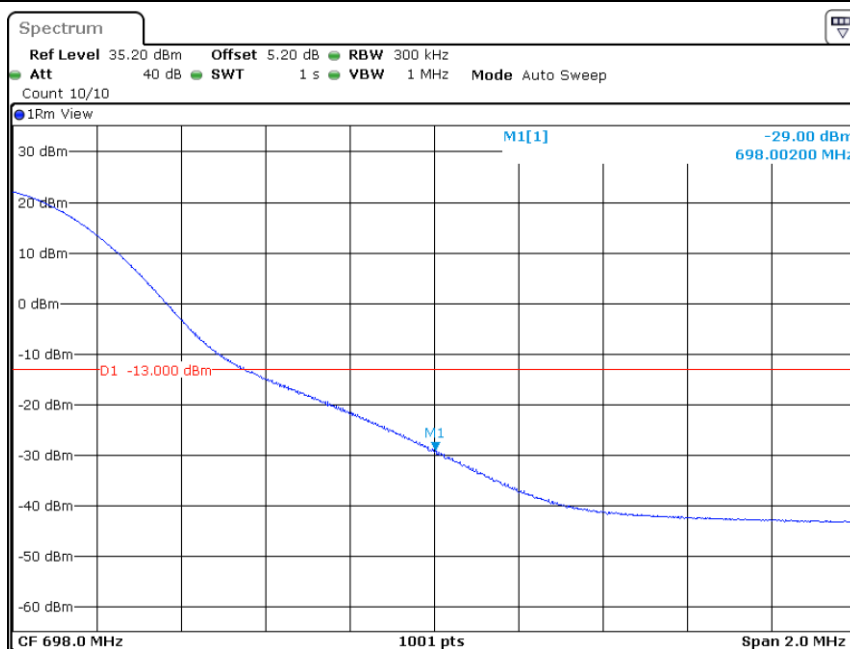


Band71-20MHz-16QAM-133222-100RB#0



Date: 23.APR.2021 06:44:37

Band71-20MHz-16QAM-133372-1RB#99



Date: 23.APR.2021 06:45:23



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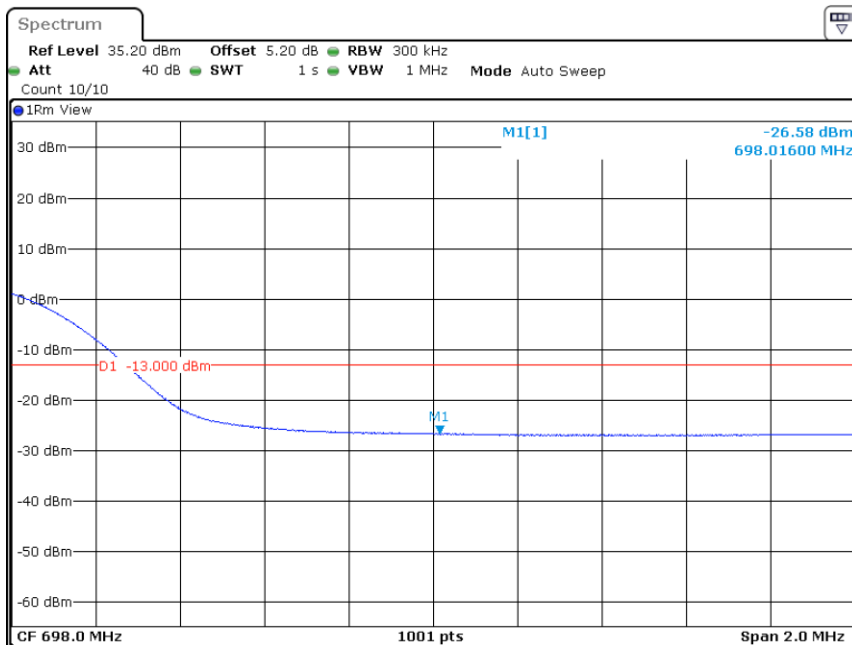
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Band71-20MHz-16QAM-133372-100RB#0



Date: 23.APR.2021 06:46:04



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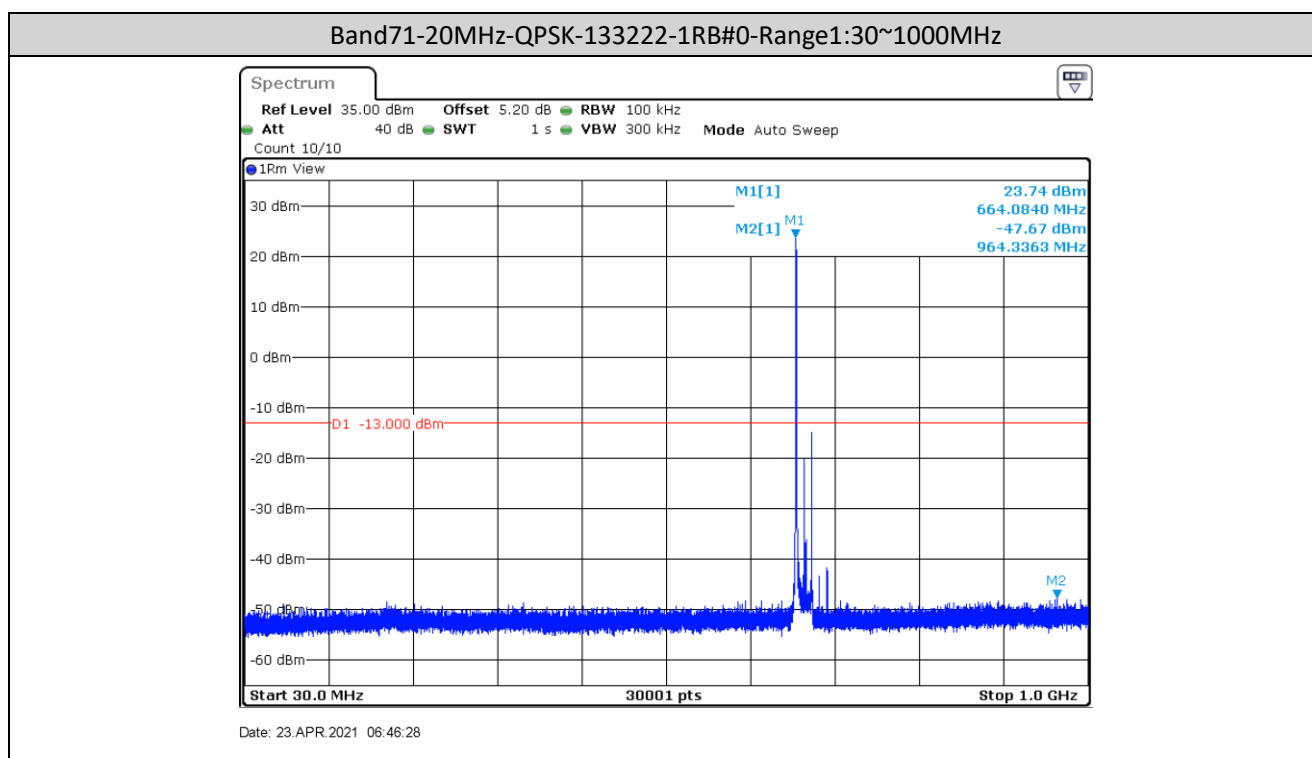
## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

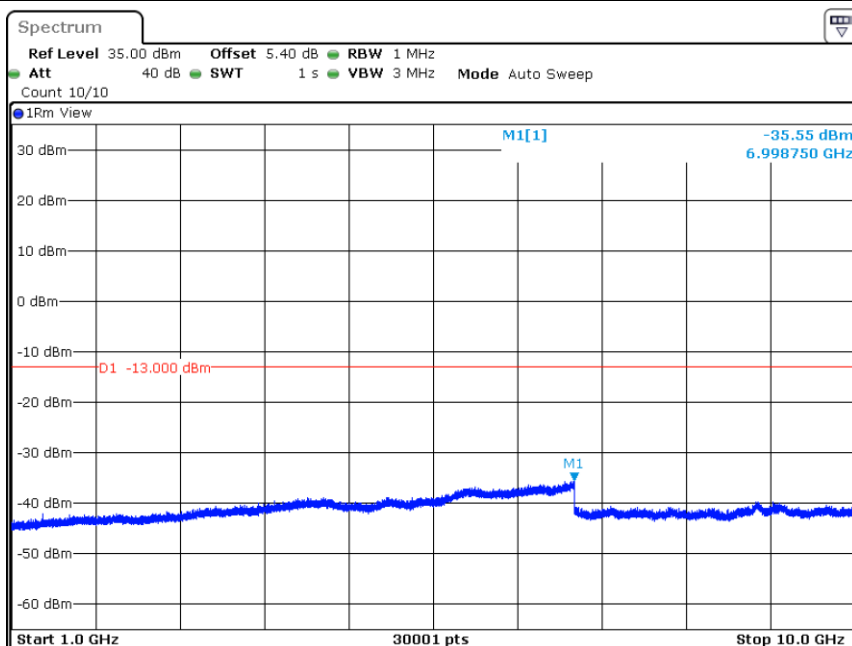
Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

### 6.1. Test Plots

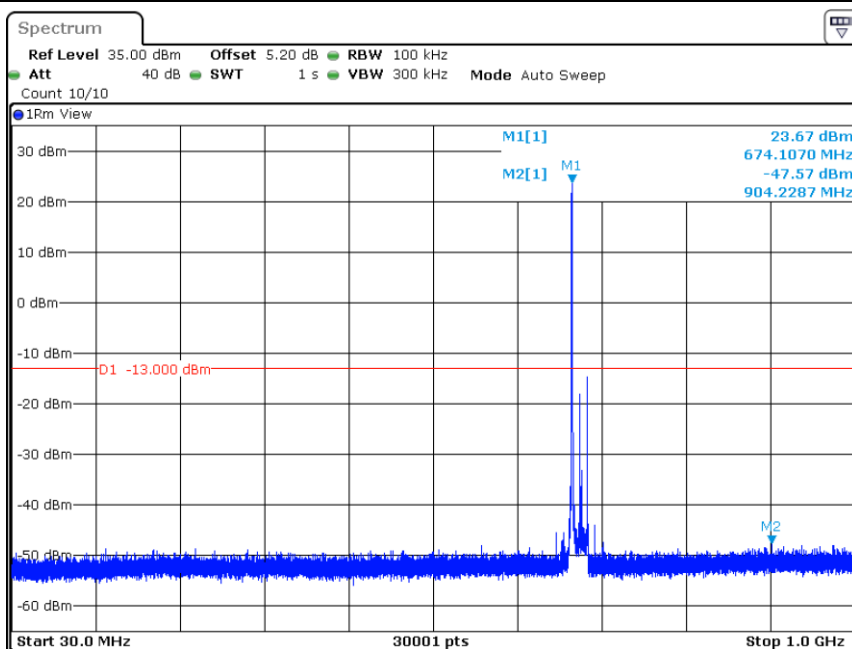


## Band71-20MHz-QPSK-133222-1RB#0-Range2:1000~10000MHz



Date: 23.APR.2021 06:46:44

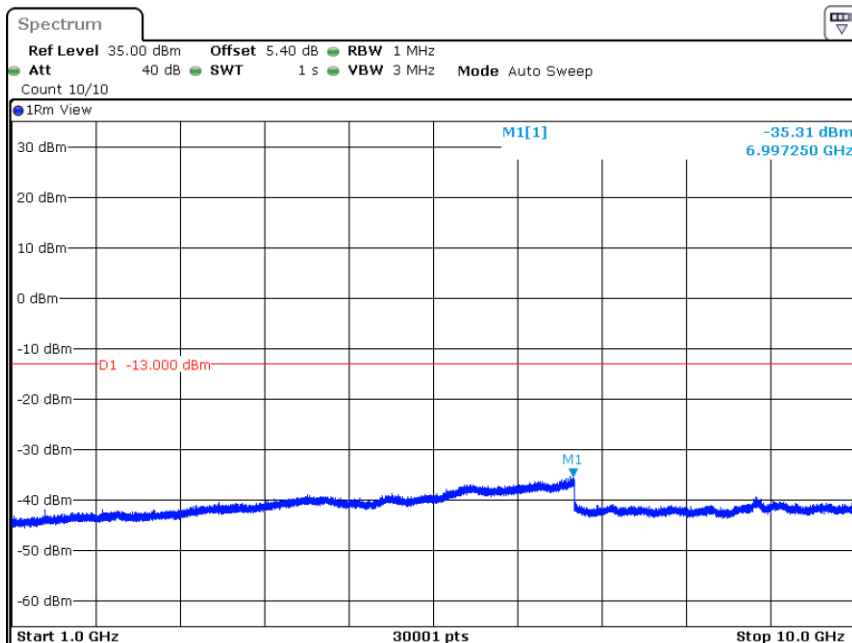
## Band71-20MHz-QPSK-133322-1RB#0-Range1:30~1000MHz



Date: 23.APR.2021 06:47:39

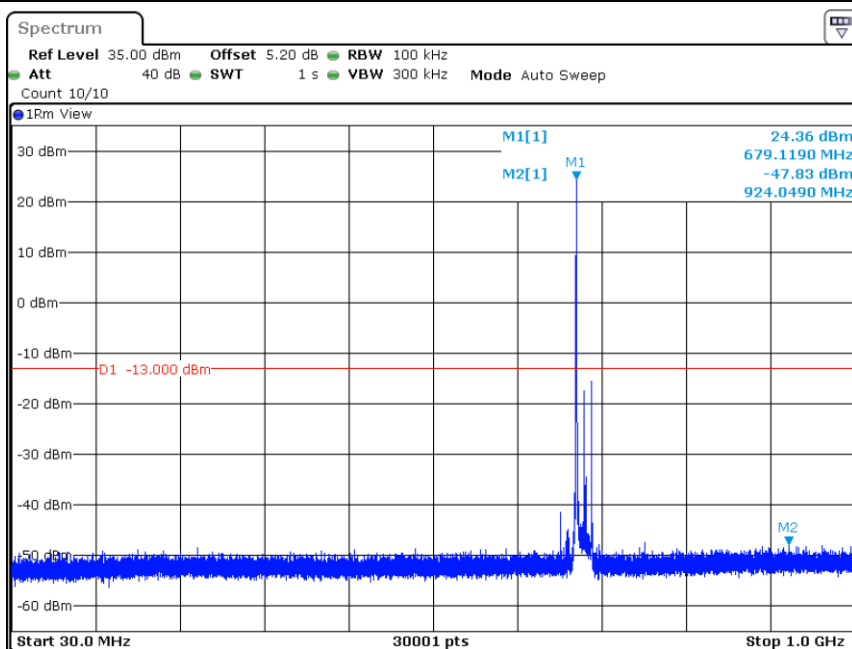


## Band71-20MHz-QPSK-133322-1RB#0-Range2:1000~10000MHz



Date: 23.APR.2021 06:47:54

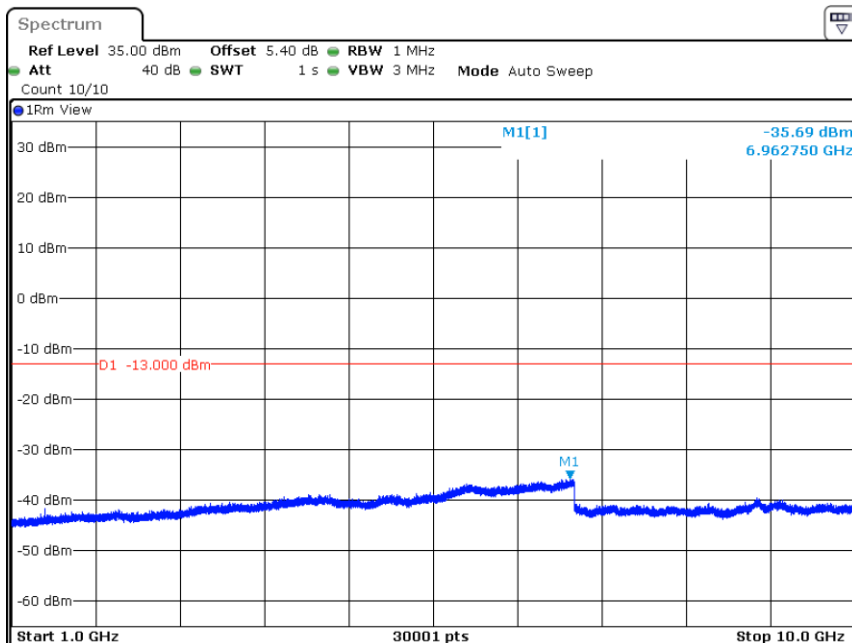
## Band71-20MHz-QPSK-133372-1RB#0-Range1:30~1000MHz



Date: 23.APR.2021 06:48:49

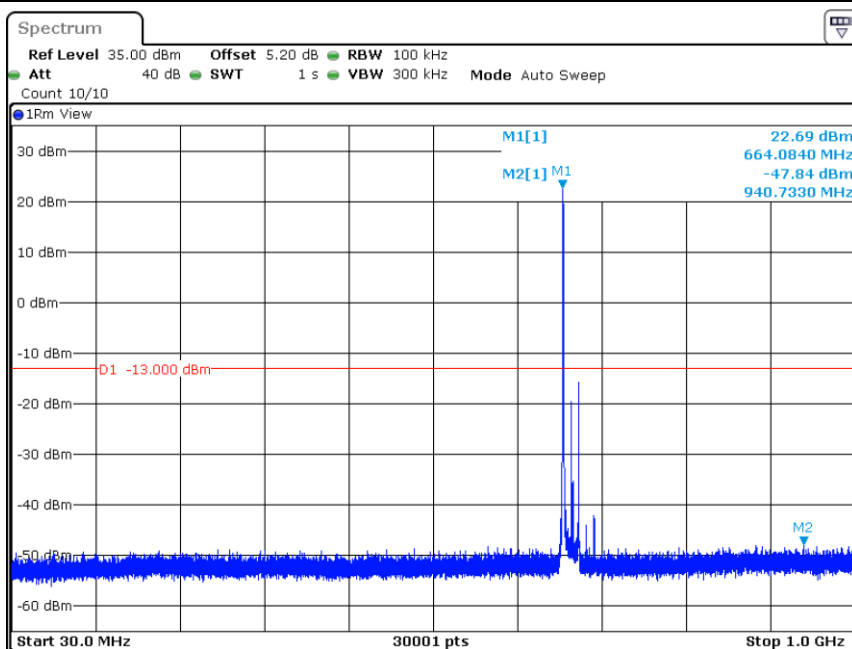


## Band71-20MHz-QPSK-133372-1RB#0-Range2:1000~10000MHz



Date: 23.APR.2021 06:49:05

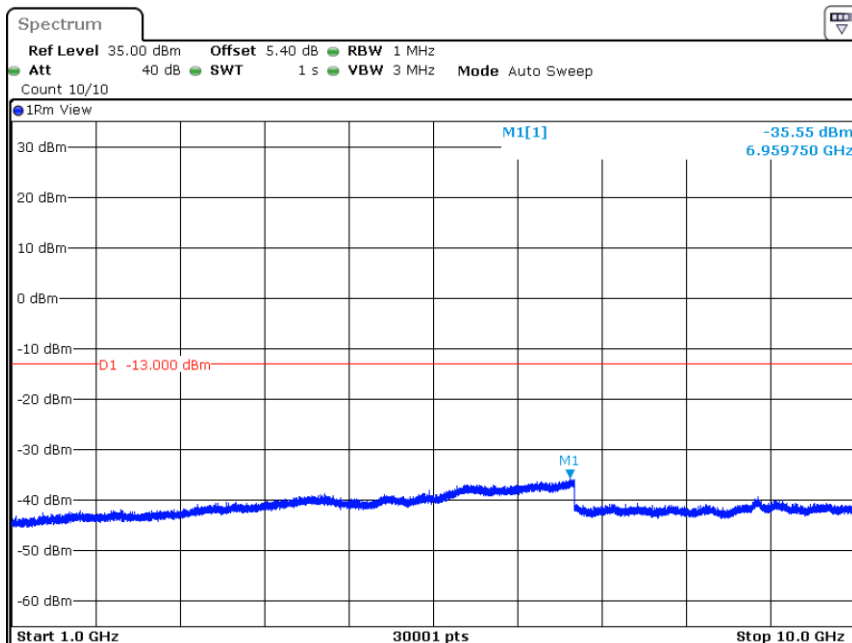
## Band71-20MHz-16QAM-133222-1RB#0-Range1:30~1000MHz



Date: 23.APR.2021 06:47:04

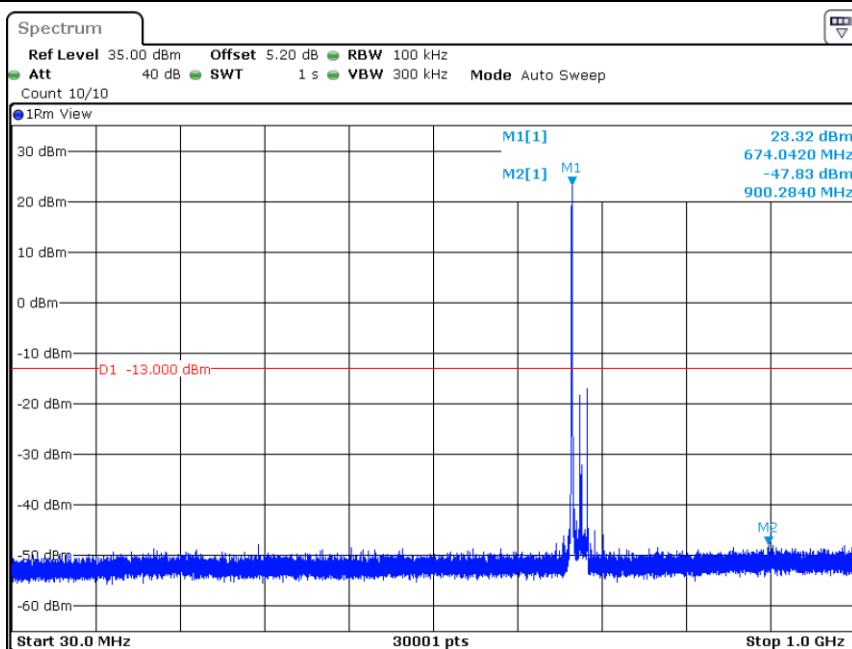


## Band71-20MHz-16QAM-133222-1RB#0-Range2:1000~10000MHz



Date: 23.APR.2021 06:47:19

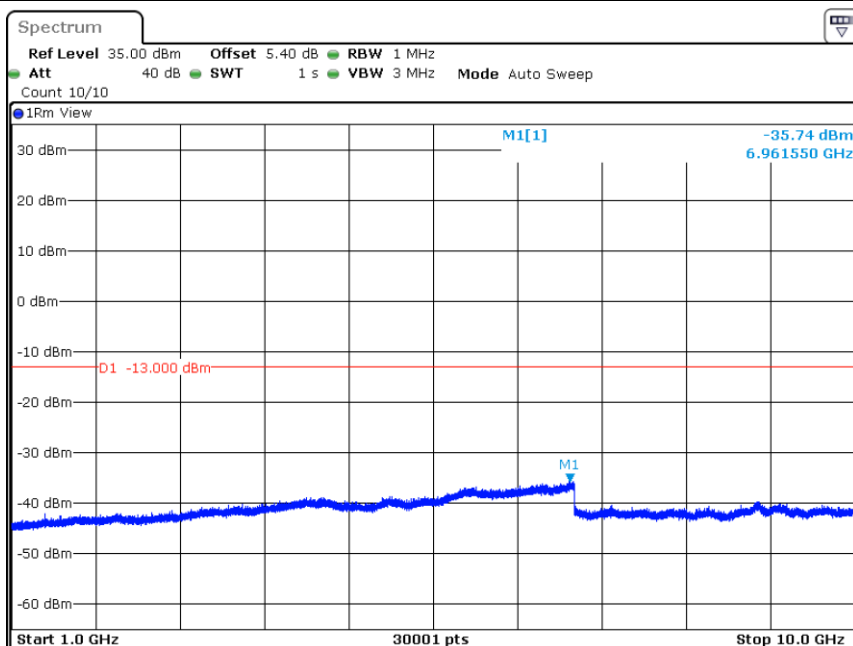
## Band71-20MHz-16QAM-133322-1RB#0-Range1:30~1000MHz



Date: 23.APR.2021 06:48:14

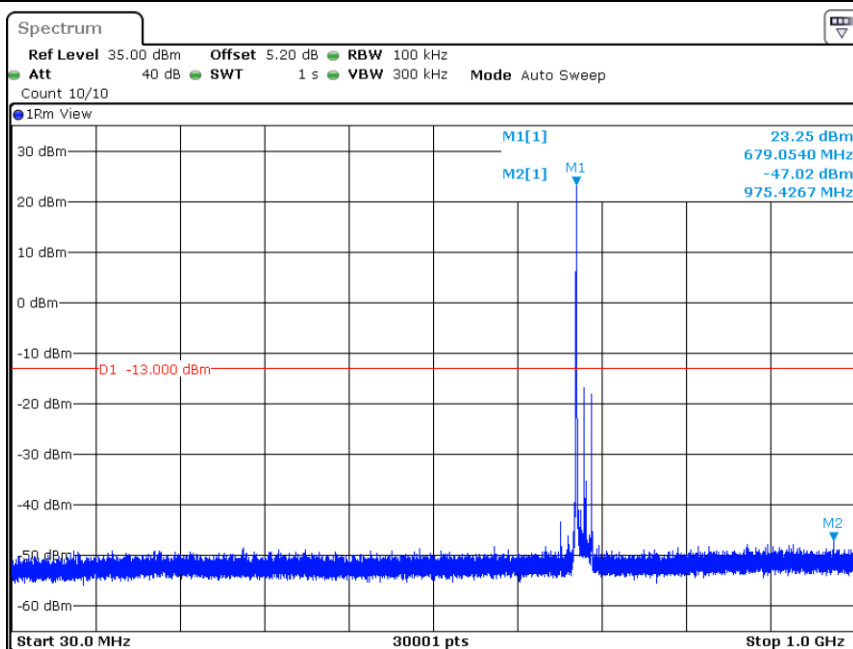


Band71-20MHz-16QAM-133322-1RB#0-Range2:1000~10000MHz



Date: 23 APR 2021 06:48:29

Band71-20MHz-16QAM-133372-1RB#0-Range1:30~1000MHz



Date: 23 APR 2021 06:49:25



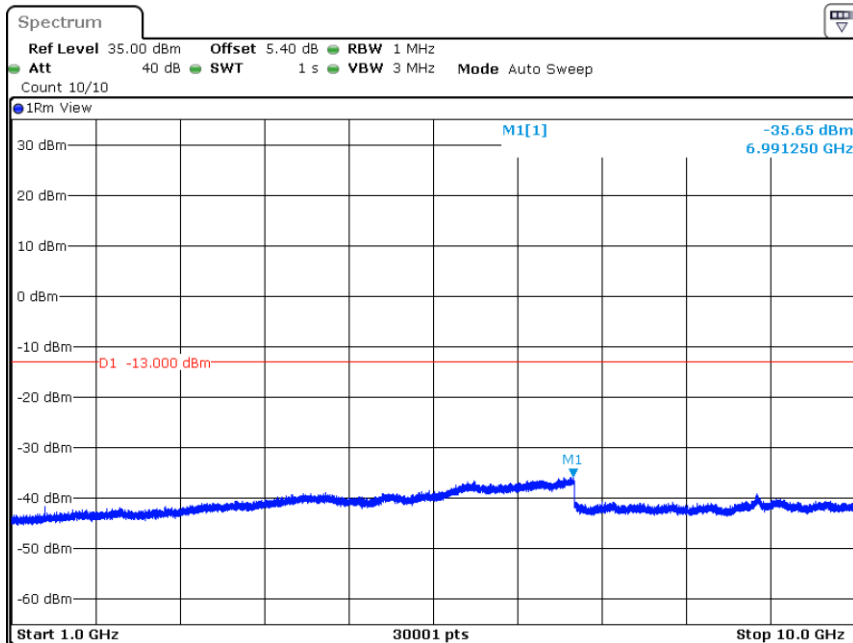
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## Band71-20MHz-16QAM-133372-1RB#0-Range2:1000~10000MHz



Date: 23.APR.2021 06:49:40





## 7. Field Strength of Spurious Radiation

ANT1:

7.1. Test Band = LTE\_Band=71 BW=20MHz\_TM1

7.1.1. Test Channel = Low channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 42.8541        | -76.52           | -44.13         | -13.00         | 31.13          | Horizontal |
| 2                   | 232.7553       | -74.54           | -46.08         | -13.00         | 33.08          | Horizontal |
| 3                   | 1348.3174      | -59.05           | -39.75         | -13.00         | 26.75          | Horizontal |
| 4                   | 2200.5600      | -63.12           | -38.52         | -13.00         | 25.52          | Horizontal |
| 5                   | 3370.3185      | -45.32           | -53.78         | -13.00         | 40.78          | Horizontal |
| 6                   | 5309.0655      | -54.20           | -52.73         | -13.00         | 39.73          | Horizontal |

7.2. Test Band = LTE\_Band=71 BW=20MHz\_TM1

7.2.1. Test Channel = Low channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 111.1264       | -75.85           | -44.01         | -13.00         | 31.01          | Vertical |
| 2                   | 390.4001       | -74.03           | -45.87         | -13.00         | 32.87          | Vertical |
| 3                   | 2199.9600      | -63.16           | -38.32         | -13.00         | 25.32          | Vertical |
| 4                   | 3370.3185      | -49.97           | -59.54         | -13.00         | 46.54          | Vertical |
| 5                   | 5393.0697      | -52.94           | -53.43         | -13.00         | 40.43          | Vertical |
| 6                   | 9631.7816      | -56.78           | -49.49         | -13.00         | 36.49          | Vertical |





### 7.3. Test Band = LTE\_Band=71 BW=20MHz\_TM1

#### 7.3.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 45.6432        | -75.75           | -43.67         | -13.00         | 30.67          | Horizontal |
| 2                   | 427.3859       | -72.93           | -45.17         | -13.00         | 32.17          | Horizontal |
| 3                   | 1343.3172      | -60.81           | -41.54         | -13.00         | 28.54          | Horizontal |
| 4                   | 2211.2606      | -62.59           | -38.12         | -13.00         | 25.12          | Horizontal |
| 5                   | 3357.7179      | -46.48           | -54.84         | -13.00         | 41.84          | Horizontal |
| 6                   | 5309.7655      | -53.90           | -52.44         | -13.00         | 39.44          | Horizontal |

### 7.4. Test Band = LTE\_Band=71 BW=20MHz\_TM1

#### 7.4.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 109.4287       | -75.83           | -44.03         | -13.00         | 31.03          | Vertical |
| 2                   | 428.3560       | -72.88           | -44.82         | -13.00         | 31.82          | Vertical |
| 3                   | 2197.7599      | -62.62           | -37.88         | -13.00         | 24.88          | Vertical |
| 4                   | 3357.7179      | -50.55           | -59.99         | -13.00         | 46.99          | Vertical |
| 5                   | 5372.4186      | -53.02           | -53.08         | -13.00         | 40.08          | Vertical |
| 6                   | 9748.6874      | -57.65           | -49.67         | -13.00         | 36.67          | Vertical |





## 7.5. Test Band = LTE\_Band=71 BW=20MHz\_TM1

### 7.5.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 42.9754        | -76.32           | -43.92         | -13.00         | 30.92          | Horizontal |
| 2                   | 239.9100       | -74.84           | -46.47         | -13.00         | 33.47          | Horizontal |
| 3                   | 2203.6602      | -62.87           | -38.31         | -13.00         | 25.31          | Horizontal |
| 4                   | 3395.1698      | -47.04           | -55.70         | -13.00         | 42.70          | Horizontal |
| 5                   | 5279.6640      | -53.42           | -52.25         | -13.00         | 39.25          | Horizontal |
| 6                   | 9250.6125      | -57.48           | -50.50         | -13.00         | 37.50          | Horizontal |

## 7.6. Test Band = LTE\_Band=71 BW=20MHz\_TM1

### 7.6.1. Test Channel = High Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 107.2459       | -75.29           | -44.03         | -13.00         | 31.03          | Vertical |
| 2                   | 485.2294       | -72.52           | -43.87         | -13.00         | 30.87          | Vertical |
| 3                   | 1511.9256      | -63.20           | -43.49         | -13.00         | 30.49          | Vertical |
| 4                   | 2198.7599      | -63.00           | -38.21         | -13.00         | 25.21          | Vertical |
| 5                   | 5308.7154      | -54.31           | -53.35         | -13.00         | 40.35          | Vertical |
| 6                   | 9840.7420      | -57.31           | -49.62         | -13.00         | 36.62          | Vertical |



ANT2:

**7.7. Test Band = LTE\_Band=71 BW=20MHz \_TM1**

**7.7.1. Test Channel = Low Channel**

| Suspected Data List |             |               |             |             |             |          |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1                   | 48.9174     | -75.65        | -51.71      | -13.00      | 38.71       | Vertical |
| 2                   | 111.7327    | -75.28        | -43.50      | -13.00      | 30.50       | Vertical |
| 3                   | 504.1468    | -72.19        | -43.02      | -13.00      | 30.02       | Vertical |
| 4                   | 999.0299    | -72.22        | -33.28      | -13.00      | 20.28       | Vertical |
| 5                   | 2994.0997   | -61.58        | -38.00      | -13.00      | 25.00       | Vertical |
| 6                   | 9840.7420   | -56.81        | -49.12      | -13.00      | 36.12       | Vertical |

**7.8. Test Band = LTE\_Band=71 BW=20MHz \_TM1**

**7.8.1. Test Channel = Low Channel**

| Suspected Data List |             |               |             |             |             |            |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1                   | 38.7311     | -76.24        | -44.34      | -13.00      | 31.34       | Horizontal |
| 2                   | 232.7553    | -74.04        | -45.58      | -13.00      | 32.58       | Horizontal |
| 3                   | 554.5931    | -71.67        | -40.92      | -13.00      | 27.92       | Horizontal |
| 4                   | 1348.3174   | -58.55        | -39.25      | -13.00      | 26.25       | Horizontal |
| 5                   | 2992.8996   | -61.45        | -36.99      | -13.00      | 23.99       | Horizontal |
| 6                   | 9272.6636   | -56.99        | -50.13      | -13.00      | 37.13       | Horizontal |



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7.9. Test Band = LTE\_Band=71 BW=20MHz \_TM1

7.9.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |          |
|---------------------|----------------|------------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 48.0685        | -76.27           | -52.50         | -13.00         | 39.50          | Vertical |
| 2                   | 111.1264       | -75.35           | -43.51         | -13.00         | 30.51          | Vertical |
| 3                   | 442.3015       | -73.16           | -45.00         | -13.00         | 32.00          | Vertical |
| 4                   | 996.4833       | -72.06           | -33.31         | -13.00         | 20.31          | Vertical |
| 5                   | 2968.2984      | -61.40           | -37.99         | -13.00         | 24.99          | Vertical |
| 6                   | 9631.7816      | -56.28           | -48.99         | -13.00         | 35.99          | Vertical |

7.10. Test Band = LTE\_Band=71 BW=20MHz \_TM1

7.10.1. Test Channel = Mid Channel

| Suspected Data List |                |                  |                |                |                |            |
|---------------------|----------------|------------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Reading<br>[dBm] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 45.6432        | -75.25           | -43.17         | -13.00         | 30.17          | Horizontal |
| 2                   | 245.2457       | -74.39           | -46.24         | -13.00         | 33.24          | Horizontal |
| 3                   | 554.7143       | -71.52           | -40.77         | -13.00         | 27.77          | Horizontal |
| 4                   | 990.0563       | -71.93           | -33.44         | -13.00         | 20.44          | Horizontal |
| 5                   | 2998.0999      | -61.68           | -37.20         | -13.00         | 24.20          | Horizontal |
| 6                   | 9284.2142      | -56.63           | -49.83         | -13.00         | 36.83          | Horizontal |



### 7.11. Test Band = LTE\_Band=71 BW=20MHz \_TM1

#### 7.11.1. Test Channel = High Channel

| Suspected Data List |             |               |             |             |             |          |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1                   | 50.0088     | -74.55        | -50.39      | -13.00      | 37.39       | Vertical |
| 2                   | 103.6080    | -74.99        | -44.64      | -13.00      | 31.64       | Vertical |
| 3                   | 428.3560    | -72.38        | -44.32      | -13.00      | 31.32       | Vertical |
| 4                   | 997.3322    | -71.95        | -33.14      | -13.00      | 20.14       | Vertical |
| 5                   | 2970.2985   | -61.41        | -37.99      | -13.00      | 24.99       | Vertical |
| 6                   | 9748.6874   | -57.15        | -49.17      | -13.00      | 36.17       | Vertical |

### 7.12. Test Band = LTE\_Band=71 BW=20MHz \_TM1

#### 7.12.1. Test Channel = High Channel

| Suspected Data List |             |               |             |             |             |            |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1                   | 42.9754     | -75.82        | -43.42      | -13.00      | 30.42       | Horizontal |
| 2                   | 239.9100    | -74.34        | -45.97      | -13.00      | 32.97       | Horizontal |
| 3                   | 554.2293    | -71.61        | -40.87      | -13.00      | 27.87       | Horizontal |
| 4                   | 994.4218    | -71.50        | -32.70      | -13.00      | 19.70       | Horizontal |
| 5                   | 2981.5991   | -61.46        | -37.06      | -13.00      | 24.06       | Horizontal |
| 6                   | 9757.7879   | -56.84        | -49.90      | -13.00      | 36.90       | Horizontal |

#### Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | VL            | NT               | -2.00          | -0.002972       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | VN            | NT               | -2.40          | -0.003566       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | VH            | NT               | -0.20          | -0.000297       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | VL            | NT               | -0.90          | -0.001318       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | VN            | NT               | -0.90          | -0.001318       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | VH            | NT               | -2.30          | -0.003367       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | VL            | NT               | -2.60          | -0.003779       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | VN            | NT               | -1.30          | -0.001890       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | VH            | NT               | -1.90          | -0.002762       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0      | VL            | NT               | 0.40           | 0.000594        | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0      | VN            | NT               | -1.70          | -0.002526       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0      | VH            | NT               | -2.00          | -0.002972       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133322  | 100RB#0      | VL            | NT               | -2.50          | -0.003660       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133322  | 100RB#0      | VN            | NT               | -2.80          | -0.004100       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133322  | 100RB#0      | VH            | NT               | -0.50          | -0.000732       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133372  | 100RB#0      | VL            | NT               | -0.90          | -0.001308       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133372  | 100RB#0      | VN            | NT               | -1.50          | -0.002180       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133372  | 100RB#0      | VH            | NT               | -1.00          | -0.001453       | ±2.5        | PASS    |





## 8.2. Frequency Vs Temperature

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | NV            | -30              | -1.60          | -0.002377       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | NV            | -20              | -1.90          | -0.002823       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | NV            | -10              | -1.10          | -0.001634       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | NV            | 0                | 0.10           | 0.000149        | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | NV            | 10               | -0.40          | -0.000594       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | NV            | 20               | -2.80          | -0.004160       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | NV            | 30               | -2.80          | -0.004160       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | NV            | 40               | -2.40          | -0.003566       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0      | NV            | 50               | -1.40          | -0.002080       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | -30              | -2.00          | -0.002928       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | -20              | -1.70          | -0.002489       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | -10              | -0.90          | -0.001318       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 0                | -0.70          | -0.001025       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 10               | -0.90          | -0.001318       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 20               | -2.50          | -0.003660       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 30               | -0.40          | -0.000586       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 40               | -3.00          | -0.004392       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0      | NV            | 50               | -0.50          | -0.000732       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | NV            | -30              | -1.80          | -0.002616       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | NV            | -20              | -2.10          | -0.003052       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | NV            | -10              | -1.00          | -0.001453       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | NV            | 0                | -1.40          | -0.002035       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | NV            | 10               | -1.40          | -0.002035       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | NV            | 20               | -1.60          | -0.002326       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | NV            | 30               | -0.40          | -0.000581       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | NV            | 40               | -0.80          | -0.001163       | ±2.5        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0      | NV            | 50               | -2.90          | -0.004215       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0      | NV            | -30              | -0.80          | -0.001189       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0      | NV            | -20              | -2.00          | -0.002972       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0      | NV            | -10              | -2.90          | -0.004309       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0      | NV            | 0                | -1.30          | -0.001932       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0      | NV            | 10               | -0.50          | -0.000743       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0      | NV            | 20               | -0.40          | -0.000594       | ±2.5        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0      | NV            | 30               | -2.70          | -0.004012       | ±2.5        | PASS    |



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|        |       |       |        |         |    |     |       |           |      |      |
|--------|-------|-------|--------|---------|----|-----|-------|-----------|------|------|
| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | NV | 40  | -2.30 | -0.003418 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | NV | 50  | -2.50 | -0.003715 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | NV | -30 | -1.50 | -0.002196 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | NV | -20 | -2.20 | -0.003221 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | NV | -10 | -0.40 | -0.000586 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | NV | 0   | -0.60 | -0.000878 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | NV | 10  | -1.80 | -0.002635 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | NV | 20  | -2.40 | -0.003514 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | NV | 30  | -3.20 | -0.004685 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | NV | 40  | -0.70 | -0.001025 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | NV | 50  | -0.70 | -0.001025 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | NV | -30 | -2.00 | -0.002907 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | NV | -20 | -1.90 | -0.002762 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | NV | -10 | 0.20  | 0.000291  | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | NV | 0   | -0.40 | -0.000581 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | NV | 10  | -2.80 | -0.004070 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | NV | 20  | -2.10 | -0.003052 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | NV | 30  | -1.40 | -0.002035 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | NV | 40  | -2.00 | -0.002907 | ±2.5 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | NV | 50  | -1.70 | -0.002471 | ±2.5 | PASS |



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