



# Appendix B.1

## LTE Band 48



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

ANT6

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm/10MHz) | EIRP (dBm/10MHz) | Limit (dBm/10MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------|------------------|-------------------|---------|
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#0            | 20.75              | 22.71            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#12           | 20.85              | 22.81            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#24           | 20.80              | 22.76            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 25RB#0           | 19.93              | 21.89            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#0            | 20.85              | 22.81            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#12           | 20.97              | 22.93            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#24           | 20.89              | 22.85            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 25RB#0           | 19.91              | 21.87            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#0            | 20.82              | 22.78            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#12           | 20.91              | 22.87            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#24           | 20.77              | 22.73            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 25RB#0           | 19.95              | 21.91            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 1RB#0            | 19.98              | 21.94            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 1RB#12           | 20.03              | 21.99            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 1RB#24           | 20.04              | 22.00            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 25RB#0           | 19.05              | 21.01            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 1RB#0            | 20.07              | 22.03            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 1RB#12           | 20.08              | 22.04            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 1RB#24           | 20.11              | 22.07            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 25RB#0           | 19.01              | 20.97            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 56715   | 1RB#0            | 20.04              | 22.00            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 56715   | 1RB#12           | 20.03              | 21.99            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 56715   | 1RB#24           | 20.04              | 22.00            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 56715   | 25RB#0           | 18.93              | 20.89            | 23                | PASS    |
| Band48 | 5MHz      | 64QAM      | 55265   | 1RB#0            | 18.55              | 20.51            | 23                | PASS    |
| Band48 | 5MHz      | 64QAM      | 55265   | 1RB#12           | 18.59              | 20.55            | 23                | PASS    |
| Band48 | 5MHz      | 64QAM      | 55265   | 1RB#24           | 18.58              | 20.54            | 23                | PASS    |



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|        |       |        |       |        |       |       |    |      |
|--------|-------|--------|-------|--------|-------|-------|----|------|
| Band48 | 5MHz  | 64QAM  | 55265 | 25RB#0 | 17.95 | 19.91 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 55990 | 1RB#0  | 18.61 | 20.57 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 55990 | 1RB#12 | 18.66 | 20.62 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 55990 | 1RB#24 | 18.65 | 20.61 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 55990 | 25RB#0 | 18.05 | 20.01 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 56715 | 1RB#0  | 18.60 | 20.56 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 56715 | 1RB#12 | 18.57 | 20.53 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 56715 | 1RB#24 | 18.58 | 20.54 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 56715 | 25RB#0 | 17.99 | 19.95 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55265 | 1RB#0  | 15.68 | 17.64 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55265 | 1RB#12 | 15.72 | 17.68 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55265 | 1RB#24 | 15.69 | 17.65 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55265 | 25RB#0 | 15.91 | 17.87 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55990 | 1RB#0  | 15.77 | 17.73 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55990 | 1RB#12 | 15.80 | 17.76 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55990 | 1RB#24 | 15.82 | 17.78 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55990 | 25RB#0 | 15.89 | 17.85 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 56715 | 1RB#0  | 15.73 | 17.69 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 56715 | 1RB#12 | 15.76 | 17.72 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 56715 | 1RB#24 | 15.81 | 17.77 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 56715 | 25RB#0 | 15.94 | 17.90 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55290 | 1RB#0  | 20.73 | 22.69 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55290 | 1RB#24 | 20.85 | 22.81 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55290 | 1RB#49 | 20.82 | 22.78 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55290 | 50RB#0 | 19.95 | 21.91 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55990 | 1RB#0  | 20.81 | 22.77 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55990 | 1RB#24 | 20.89 | 22.85 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55990 | 1RB#49 | 20.86 | 22.82 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55990 | 50RB#0 | 20.00 | 21.96 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 56690 | 1RB#0  | 20.83 | 22.79 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 56690 | 1RB#24 | 20.86 | 22.82 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 56690 | 1RB#49 | 20.80 | 22.76 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 56690 | 50RB#0 | 19.97 | 21.93 | 23 | PASS |



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|        |       |        |       |        |       |       |    |      |
|--------|-------|--------|-------|--------|-------|-------|----|------|
| Band48 | 10MHz | 16QAM  | 55290 | 1RB#0  | 19.98 | 21.94 | 23 | PASS |
| Band48 | 10MHz | 16QAM  | 55290 | 1RB#24 | 20.06 | 22.02 | 23 | PASS |
| Band48 | 10MHz | 16QAM  | 55290 | 1RB#49 | 20.09 | 22.05 | 23 | PASS |
| Band48 | 10MHz | 16QAM  | 55290 | 50RB#0 | 18.98 | 20.94 | 23 | PASS |
| Band48 | 10MHz | 16QAM  | 55990 | 1RB#0  | 20.03 | 21.99 | 23 | PASS |
| Band48 | 10MHz | 16QAM  | 55990 | 1RB#24 | 20.09 | 22.05 | 23 | PASS |
| Band48 | 10MHz | 16QAM  | 55990 | 1RB#49 | 20.10 | 22.06 | 23 | PASS |
| Band48 | 10MHz | 16QAM  | 55990 | 50RB#0 | 19.03 | 20.99 | 23 | PASS |
| Band48 | 10MHz | 16QAM  | 56690 | 1RB#0  | 20.06 | 22.02 | 23 | PASS |
| Band48 | 10MHz | 16QAM  | 56690 | 1RB#24 | 20.08 | 22.04 | 23 | PASS |
| Band48 | 10MHz | 16QAM  | 56690 | 1RB#49 | 20.01 | 21.97 | 23 | PASS |
| Band48 | 10MHz | 16QAM  | 56690 | 50RB#0 | 18.98 | 20.94 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 55290 | 1RB#0  | 18.54 | 20.50 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 55290 | 1RB#24 | 18.63 | 20.59 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 55290 | 1RB#49 | 18.67 | 20.63 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 55290 | 50RB#0 | 17.96 | 19.92 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 55990 | 1RB#0  | 18.62 | 20.58 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 55990 | 1RB#24 | 18.69 | 20.65 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 55990 | 1RB#49 | 18.67 | 20.63 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 55990 | 50RB#0 | 17.99 | 19.95 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 56690 | 1RB#0  | 18.60 | 20.56 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 56690 | 1RB#24 | 18.62 | 20.58 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 56690 | 1RB#49 | 18.57 | 20.53 | 23 | PASS |
| Band48 | 10MHz | 64QAM  | 56690 | 50RB#0 | 17.97 | 19.93 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55290 | 1RB#0  | 15.68 | 17.64 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55290 | 1RB#24 | 15.59 | 17.55 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55290 | 1RB#49 | 15.59 | 17.55 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55290 | 50RB#0 | 15.58 | 17.54 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55990 | 1RB#0  | 15.77 | 17.73 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55990 | 1RB#24 | 15.75 | 17.71 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55990 | 1RB#49 | 15.74 | 17.70 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55990 | 50RB#0 | 15.86 | 17.82 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 56690 | 1RB#0  | 15.76 | 17.72 | 23 | PASS |



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|        |       |        |       |        |       |       |    |      |
|--------|-------|--------|-------|--------|-------|-------|----|------|
| Band48 | 10MHz | 256QAM | 56690 | 1RB#24 | 15.66 | 17.62 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 56690 | 1RB#49 | 15.77 | 17.73 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 56690 | 50RB#0 | 15.87 | 17.83 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55315 | 1RB#0  | 20.67 | 22.63 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55315 | 1RB#38 | 20.82 | 22.78 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55315 | 1RB#74 | 20.82 | 22.78 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55315 | 75RB#0 | 19.96 | 21.92 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55990 | 1RB#0  | 20.75 | 22.71 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55990 | 1RB#38 | 20.86 | 22.82 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55990 | 1RB#74 | 20.79 | 22.75 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55990 | 75RB#0 | 19.97 | 21.93 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 56665 | 1RB#0  | 20.74 | 22.70 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 56665 | 1RB#38 | 20.84 | 22.80 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 56665 | 1RB#74 | 20.75 | 22.71 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 56665 | 75RB#0 | 19.97 | 21.93 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55315 | 1RB#0  | 19.91 | 21.87 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55315 | 1RB#38 | 20.04 | 22.00 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55315 | 1RB#74 | 20.03 | 21.99 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55315 | 75RB#0 | 18.92 | 20.88 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55990 | 1RB#0  | 19.99 | 21.95 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55990 | 1RB#38 | 20.08 | 22.04 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55990 | 1RB#74 | 20.06 | 22.02 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55990 | 75RB#0 | 18.97 | 20.93 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 56665 | 1RB#0  | 20.00 | 21.96 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 56665 | 1RB#38 | 20.06 | 22.02 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 56665 | 1RB#74 | 20.01 | 21.97 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 56665 | 75RB#0 | 18.98 | 20.94 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55315 | 1RB#0  | 18.50 | 20.46 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55315 | 1RB#38 | 18.63 | 20.59 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55315 | 1RB#74 | 18.59 | 20.55 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55315 | 75RB#0 | 17.94 | 19.90 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55990 | 1RB#0  | 18.57 | 20.53 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55990 | 1RB#38 | 18.64 | 20.60 | 23 | PASS |



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|        |       |        |       |         |       |       |    |      |
|--------|-------|--------|-------|---------|-------|-------|----|------|
| Band48 | 15MHz | 64QAM  | 55990 | 1RB#74  | 18.63 | 20.59 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55990 | 75RB#0  | 17.94 | 19.90 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 1RB#0   | 18.55 | 20.51 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 1RB#38  | 18.63 | 20.59 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 1RB#74  | 18.54 | 20.50 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 75RB#0  | 17.94 | 19.90 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 1RB#0   | 15.64 | 17.60 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 1RB#38  | 15.71 | 17.67 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 1RB#74  | 15.70 | 17.66 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 75RB#0  | 15.82 | 17.78 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 1RB#0   | 15.69 | 17.65 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 1RB#38  | 15.80 | 17.76 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 1RB#74  | 15.73 | 17.69 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 75RB#0  | 15.79 | 17.75 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 56665 | 1RB#0   | 15.91 | 17.87 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 56665 | 1RB#38  | 15.92 | 17.88 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 56665 | 1RB#74  | 15.90 | 17.86 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 56665 | 75RB#0  | 15.99 | 17.95 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 1RB#0   | 20.63 | 22.59 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 1RB#49  | 20.90 | 22.86 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 1RB#99  | 20.70 | 22.66 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 100RB#0 | 19.95 | 21.91 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 1RB#0   | 20.84 | 22.80 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 1RB#49  | 20.88 | 22.84 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 1RB#99  | 20.86 | 22.82 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 100RB#0 | 19.95 | 21.91 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 1RB#0   | 20.73 | 22.69 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 1RB#49  | 20.85 | 22.81 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 1RB#99  | 20.71 | 22.67 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 100RB#0 | 19.97 | 21.93 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 1RB#0   | 19.88 | 21.84 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 1RB#49  | 19.82 | 21.78 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 1RB#99  | 19.88 | 21.84 | 23 | PASS |



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|        |       |        |       |         |       |       |    |      |
|--------|-------|--------|-------|---------|-------|-------|----|------|
| Band48 | 20MHz | 16QAM  | 55340 | 100RB#0 | 18.94 | 20.90 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 1RB#0   | 20.14 | 22.10 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 1RB#49  | 20.11 | 22.07 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 1RB#99  | 20.04 | 22.00 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 100RB#0 | 19.82 | 21.78 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 1RB#0   | 19.97 | 21.93 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 1RB#49  | 19.94 | 21.90 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 1RB#99  | 19.95 | 21.91 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 100RB#0 | 18.99 | 20.95 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 1RB#0   | 18.46 | 20.42 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 1RB#49  | 18.67 | 20.63 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 1RB#99  | 18.54 | 20.50 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 100RB#0 | 17.92 | 19.88 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 1RB#0   | 18.54 | 20.50 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 1RB#49  | 18.66 | 20.62 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 1RB#99  | 18.59 | 20.55 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 100RB#0 | 17.93 | 19.89 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 1RB#0   | 18.52 | 20.48 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 1RB#49  | 18.64 | 20.60 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 1RB#99  | 18.50 | 20.46 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 100RB#0 | 17.94 | 19.90 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 1RB#0   | 15.60 | 17.56 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 1RB#49  | 15.57 | 17.53 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 1RB#99  | 15.57 | 17.53 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 100RB#0 | 15.87 | 17.83 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 1RB#0   | 15.65 | 17.61 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 1RB#49  | 15.63 | 17.59 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 1RB#99  | 15.64 | 17.60 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 100RB#0 | 15.74 | 17.70 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 1RB#0   | 15.75 | 17.71 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 1RB#49  | 15.76 | 17.72 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 1RB#99  | 15.78 | 17.74 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 100RB#0 | 15.98 | 17.94 | 23 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band48 | 20MHz     | QPSK       | 55340   | 100RB#0          | 7.71       | 13        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0          | 7.71       | 13        | PASS    |
| Band48 | 20MHz     | QPSK       | 56640   | 100RB#0          | 7.51       | 13        | PASS    |
| Band48 | 20MHz     | 16QAM      | 55340   | 100RB#0          | 8.17       | 13        | PASS    |
| Band48 | 20MHz     | 16QAM      | 55990   | 100RB#0          | 8.20       | 13        | PASS    |
| Band48 | 20MHz     | 16QAM      | 56640   | 100RB#0          | 8.23       | 13        | PASS    |
| Band48 | 20MHz     | 64QAM      | 55340   | 100RB#0          | 8.29       | 13        | PASS    |
| Band48 | 20MHz     | 64QAM      | 55990   | 100RB#0          | 8.38       | 13        | PASS    |
| Band48 | 20MHz     | 64QAM      | 56640   | 100RB#0          | 8.38       | 13        | PASS    |
| Band48 | 20MHz     | 256QAM     | 55340   | 100RB#0          | 8.58       | 13        | PASS    |
| Band48 | 20MHz     | 256QAM     | 55990   | 100RB#0          | 8.64       | 13        | PASS    |
| Band48 | 20MHz     | 256QAM     | 56640   | 100RB#0          | 8.55       | 13        | PASS    |



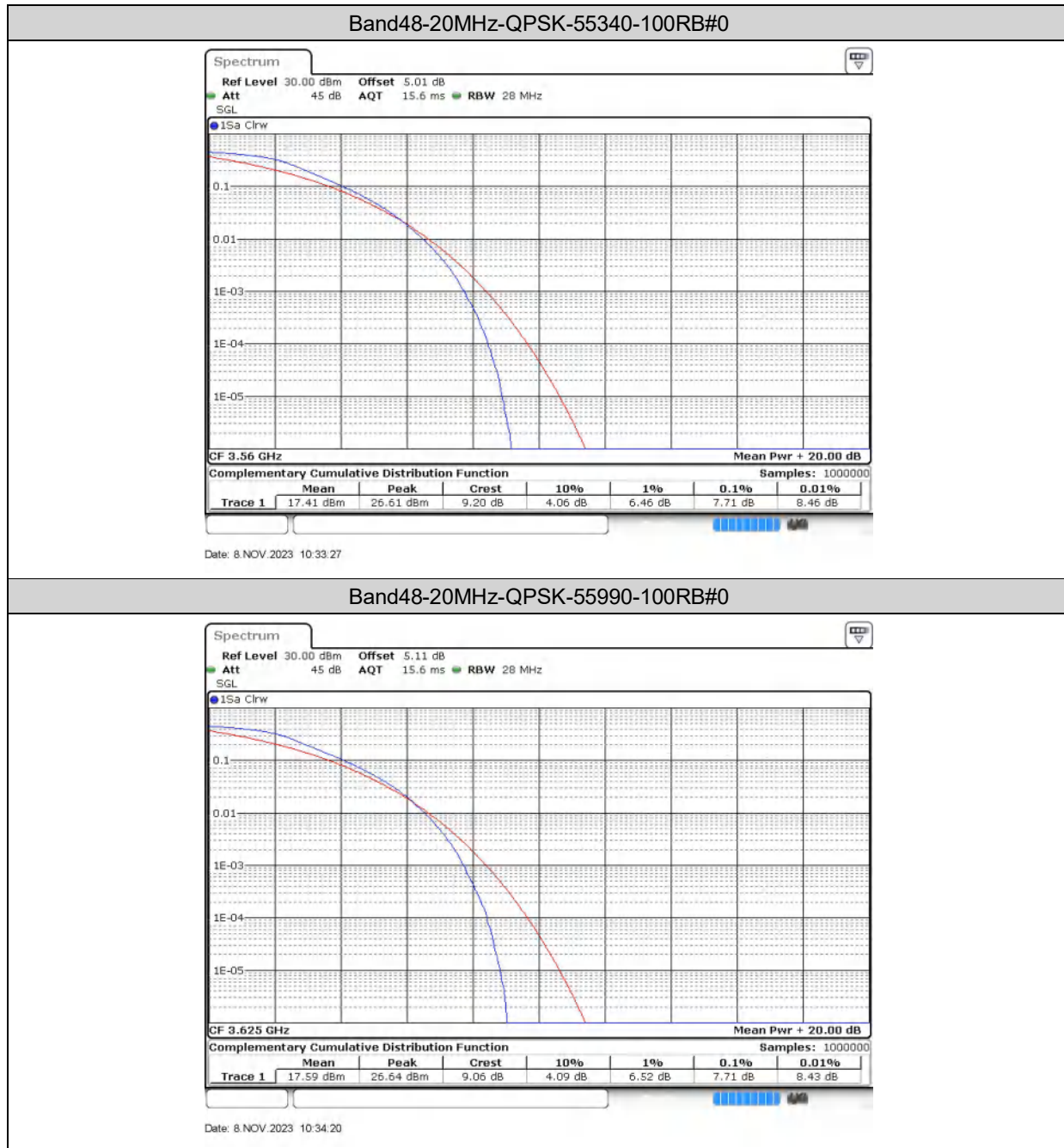
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## Test Graphs

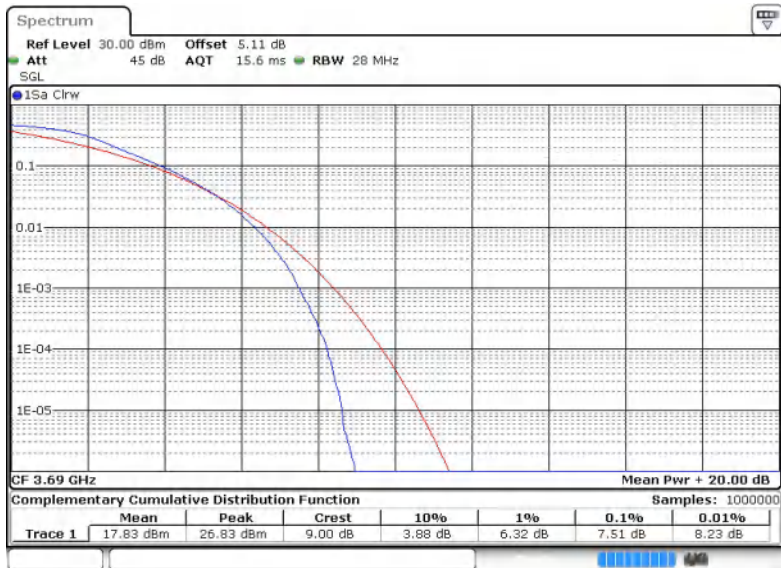


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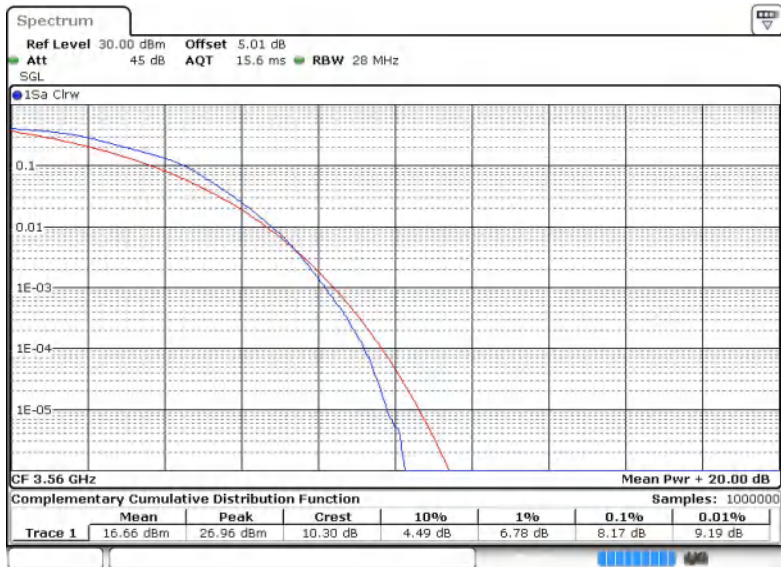
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### Band48-20MHz-QPSK-56640-100RB#0



Date: 8 NOV 2023 10:35:31

### Band48-20MHz-16QAM-55340-100RB#0



Date: 8 NOV 2023 10:33:57

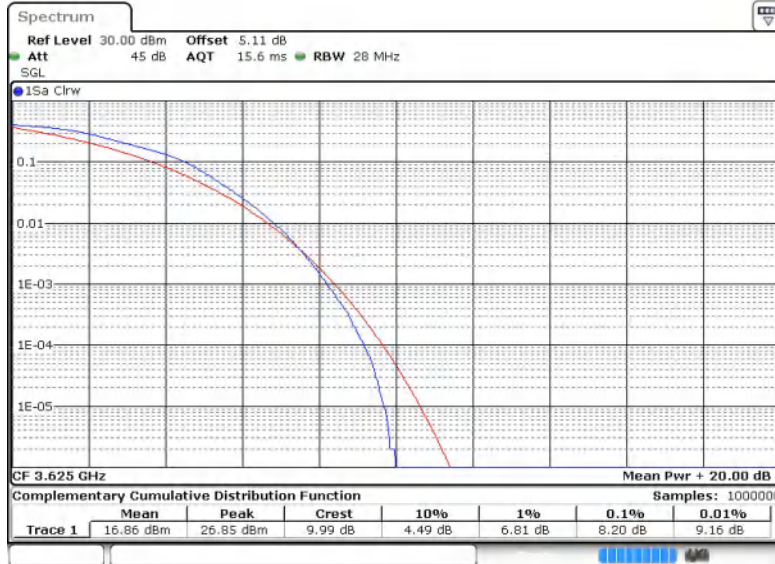


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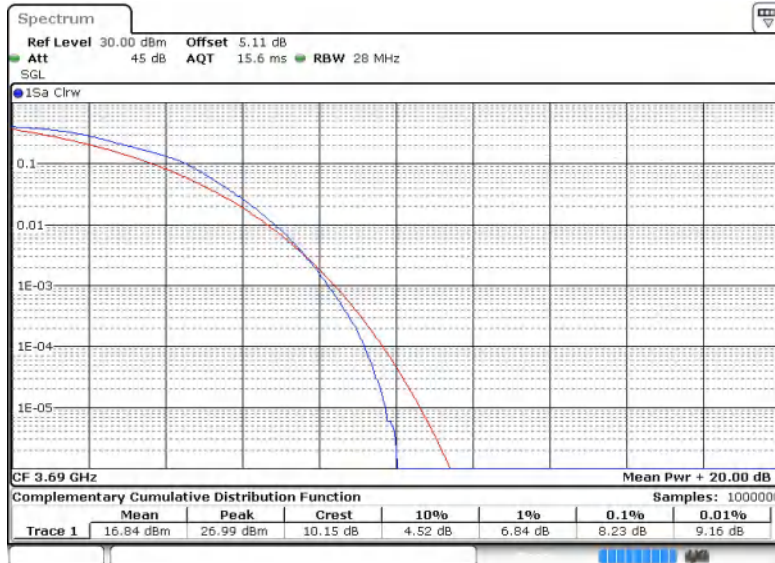
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### Band48-20MHz-16QAM-55990-100RB#0



Date: 8 NOV 2023 10:35:07

### Band48-20MHz-16QAM-56640-100RB#0



Date: 8 NOV 2023 10:36:07

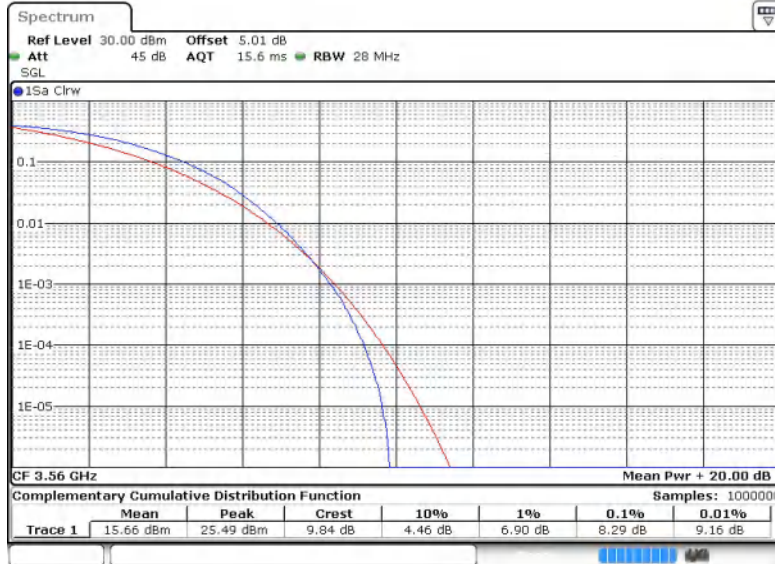


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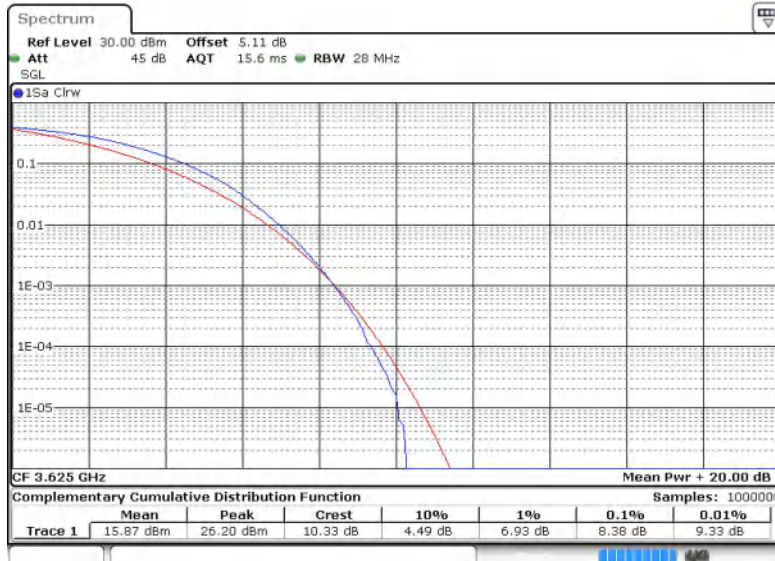
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### Band48-20MHz-64QAM-55340-100RB#0



Date: 8 NOV 2023 10:48:52

### Band48-20MHz-64QAM-55990-100RB#0



Date: 8 NOV 2023 10:49:44

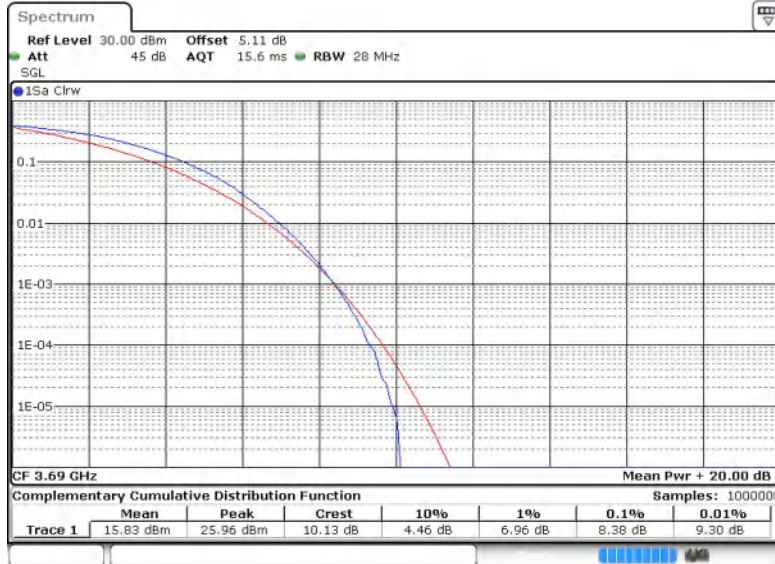


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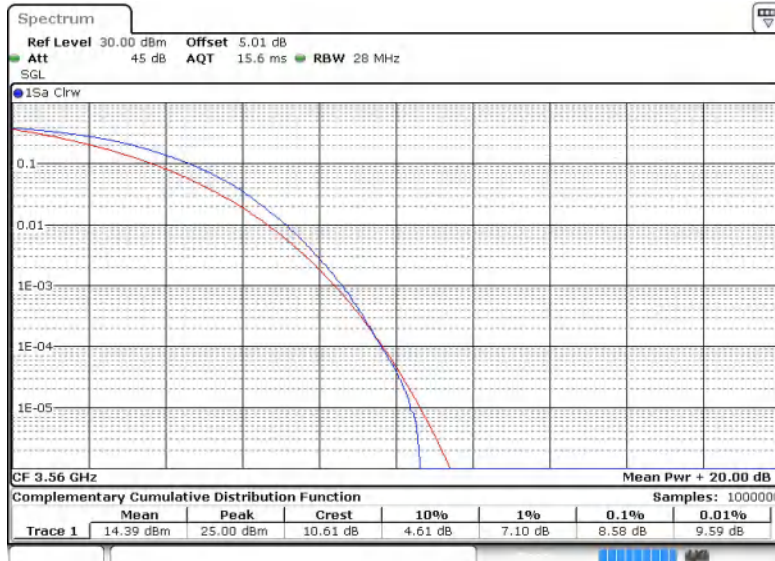
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### Band48-20MHz-64QAM-56640-100RB#0



Date: 8 NOV 2023 10:50:13

### Band48-20MHz-256QAM-55340-100RB#0



Date: 8 NOV 2023 10:55:17

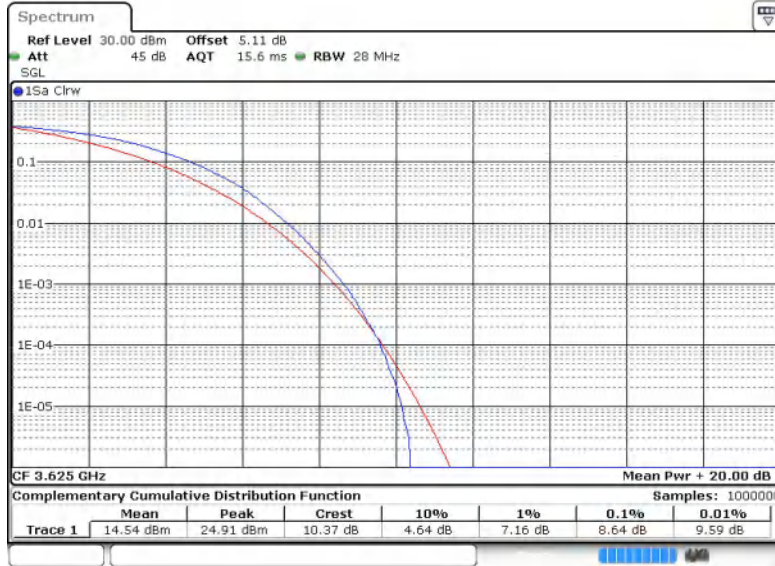


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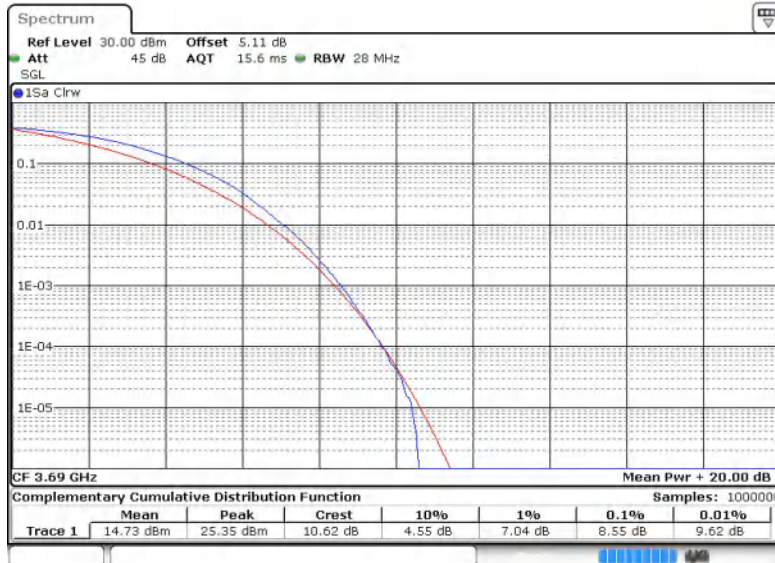
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### Band48-20MHz-256QAM-55990-100RB#0



Date: 8 NOV 2023 10:55:57

### Band48-20MHz-256QAM-56640-100RB#0



Date: 8 NOV 2023 10:56:43



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band48 | 5MHz      | QPSK       | 55265   | 25RB#0           | 4.496                    | 5.09                 | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 25RB#0           | 4.496                    | 5.22                 | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 25RB#0           | 4.496                    | 5.18                 | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 25RB#0           | 4.496                    | 5.04                 | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 25RB#0           | 4.496                    | 5.06                 | PASS    |
| Band48 | 5MHz      | 16QAM      | 56715   | 25RB#0           | 4.496                    | 5.05                 | PASS    |
| Band48 | 5MHz      | 64QAM      | 55265   | 25RB#0           | 4.505                    | 4.96                 | PASS    |
| Band48 | 5MHz      | 64QAM      | 55990   | 25RB#0           | 4.496                    | 4.96                 | PASS    |
| Band48 | 5MHz      | 64QAM      | 56715   | 25RB#0           | 4.505                    | 4.96                 | PASS    |
| Band48 | 5MHz      | 256QAM     | 55265   | 25RB#0           | 4.496                    | 4.95                 | PASS    |
| Band48 | 5MHz      | 256QAM     | 55990   | 25RB#0           | 4.496                    | 5.07                 | PASS    |
| Band48 | 5MHz      | 256QAM     | 56715   | 25RB#0           | 4.505                    | 4.95                 | PASS    |
| Band48 | 10MHz     | QPSK       | 55290   | 50RB#0           | 8.952                    | 10.03                | PASS    |
| Band48 | 10MHz     | QPSK       | 55990   | 50RB#0           | 8.952                    | 9.80                 | PASS    |
| Band48 | 10MHz     | QPSK       | 56690   | 50RB#0           | 8.952                    | 9.87                 | PASS    |
| Band48 | 10MHz     | 16QAM      | 55290   | 50RB#0           | 8.918                    | 9.90                 | PASS    |
| Band48 | 10MHz     | 16QAM      | 55990   | 50RB#0           | 8.918                    | 9.77                 | PASS    |
| Band48 | 10MHz     | 16QAM      | 56690   | 50RB#0           | 8.918                    | 9.70                 | PASS    |
| Band48 | 10MHz     | 64QAM      | 55290   | 50RB#0           | 8.952                    | 9.90                 | PASS    |
| Band48 | 10MHz     | 64QAM      | 55990   | 50RB#0           | 8.952                    | 9.80                 | PASS    |
| Band48 | 10MHz     | 64QAM      | 56690   | 50RB#0           | 8.952                    | 10.00                | PASS    |
| Band48 | 10MHz     | 256QAM     | 55290   | 50RB#0           | 8.918                    | 9.80                 | PASS    |
| Band48 | 10MHz     | 256QAM     | 55990   | 50RB#0           | 8.918                    | 9.67                 | PASS    |
| Band48 | 10MHz     | 256QAM     | 56690   | 50RB#0           | 8.918                    | 9.73                 | PASS    |
| Band48 | 15MHz     | QPSK       | 55315   | 75RB#0           | 13.577                   | 18.10                | PASS    |
| Band48 | 15MHz     | QPSK       | 55990   | 75RB#0           | 13.527                   | 15.40                | PASS    |
| Band48 | 15MHz     | QPSK       | 56665   | 75RB#0           | 13.478                   | 15.25                | PASS    |
| Band48 | 15MHz     | 16QAM      | 55315   | 75RB#0           | 13.577                   | 16.95                | PASS    |
| Band48 | 15MHz     | 16QAM      | 55990   | 75RB#0           | 13.527                   | 15.90                | PASS    |
| Band48 | 15MHz     | 16QAM      | 56665   | 75RB#0           | 13.527                   | 15.85                | PASS    |



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|        |       |        |       |         |        |       |      |
|--------|-------|--------|-------|---------|--------|-------|------|
| Band48 | 15MHz | 64QAM  | 55315 | 75RB#0  | 13.527 | 18.00 | PASS |
| Band48 | 15MHz | 64QAM  | 55990 | 75RB#0  | 13.478 | 15.95 | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 75RB#0  | 13.478 | 15.25 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 75RB#0  | 13.527 | 17.20 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 75RB#0  | 13.478 | 15.50 | PASS |
| Band48 | 15MHz | 256QAM | 56665 | 75RB#0  | 13.478 | 15.25 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 100RB#0 | 17.97  | 22.60 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 100RB#0 | 17.903 | 20.87 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 100RB#0 | 17.97  | 20.93 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 100RB#0 | 17.903 | 20.07 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 100RB#0 | 17.903 | 20.07 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 100RB#0 | 17.97  | 19.73 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 100RB#0 | 17.903 | 19.80 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 100RB#0 | 17.903 | 19.73 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 100RB#0 | 17.903 | 20.47 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 100RB#0 | 17.837 | 19.67 | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 100RB#0 | 17.903 | 19.80 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 100RB#0 | 17.903 | 19.73 | PASS |



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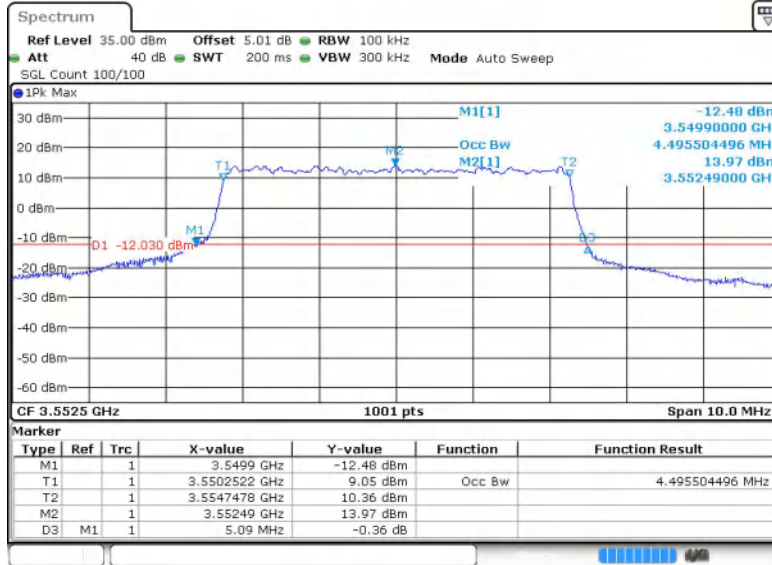
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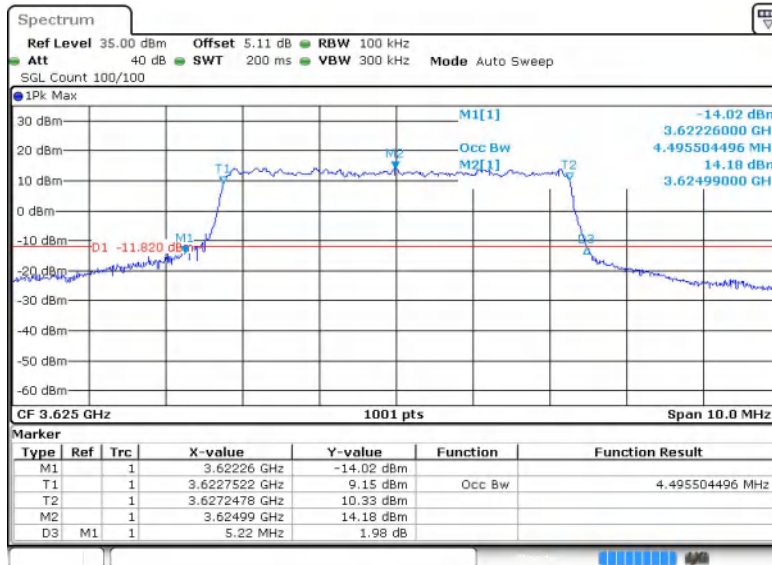
## Test Graphs

Band48-5MHz-QPSK-55265-25RB#0



Date: 7.NOV.2023 17:44:14

Band48-5MHz-QPSK-55990-25RB#0



Date: 7.NOV.2023 17:45:21



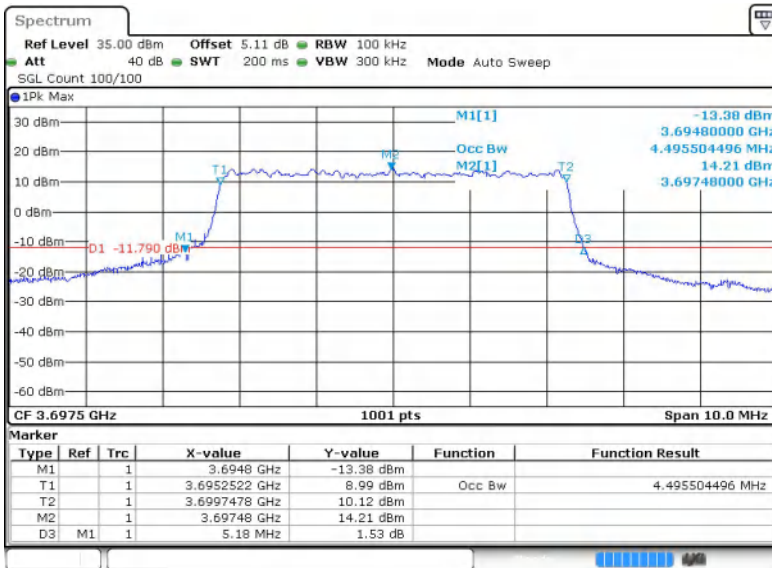
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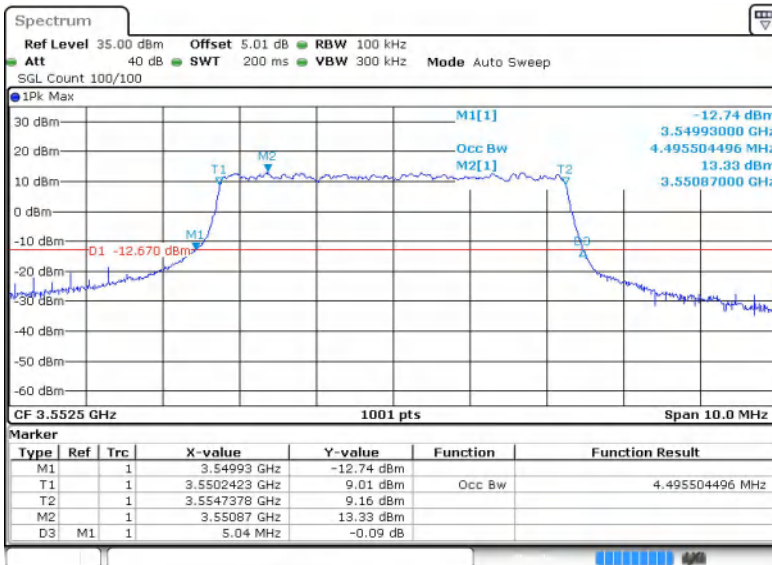


Band48-5MHz-QPSK-56715-25RB#0



Date: 7.NOV.2023 17:46:28

Band48-5MHz-16QAM-55265-25RB#0



Date: 7.NOV.2023 17:44:47

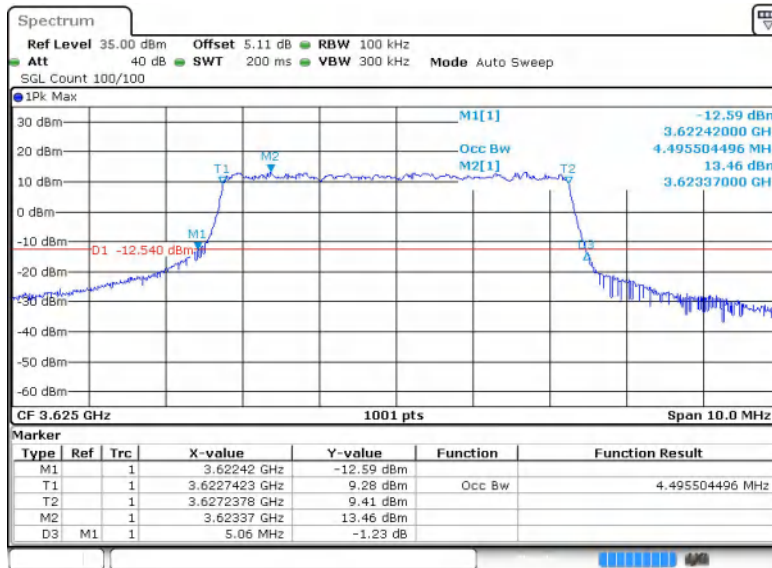


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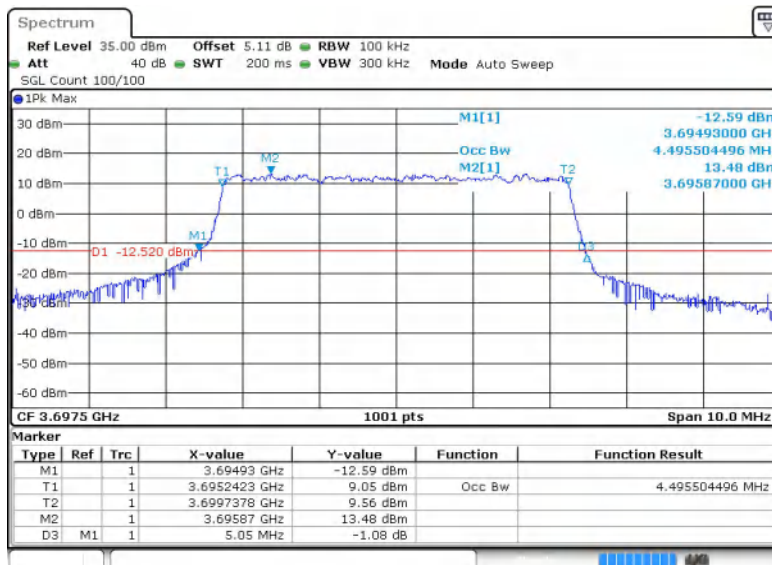


Band48-5MHz-16QAM-55990-25RB#0



Date: 7.NOV.2023 17:45:54

Band48-5MHz-16QAM-56715-25RB#0



Date: 7.NOV.2023 17:47:02

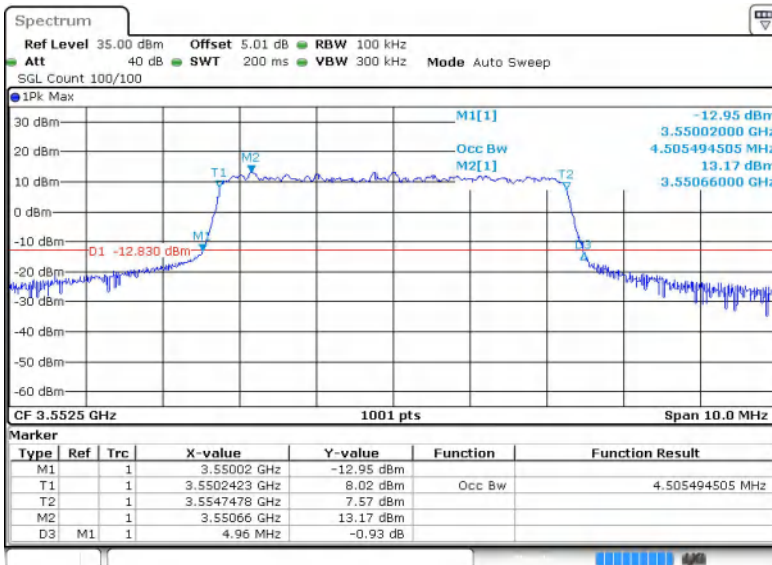


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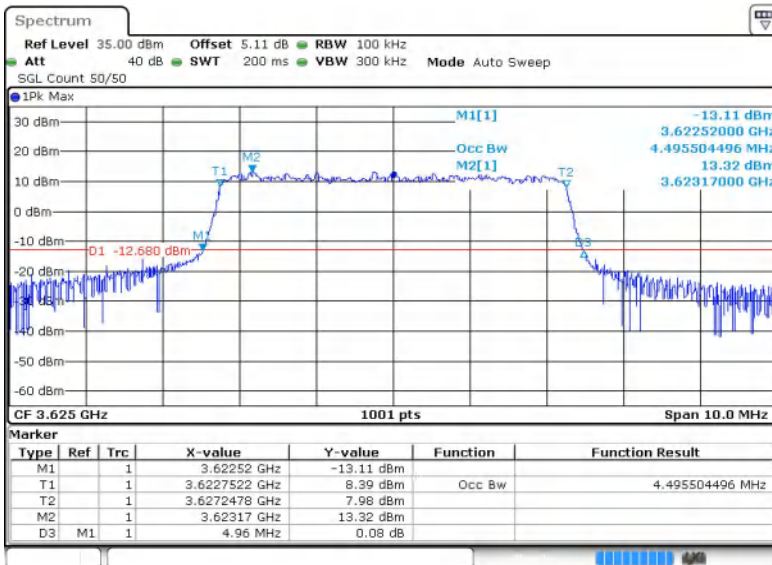
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### Band48-5MHz-64QAM-55265-25RB#0



Date: 8 NOV 2023 11:00:01

### Band48-5MHz-64QAM-55990-25RB#0



Date: 8 NOV 2023 11:01:49

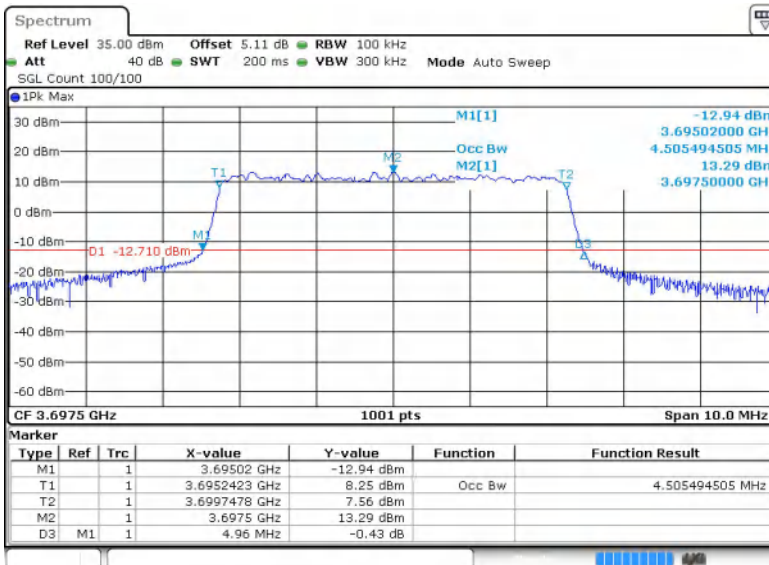


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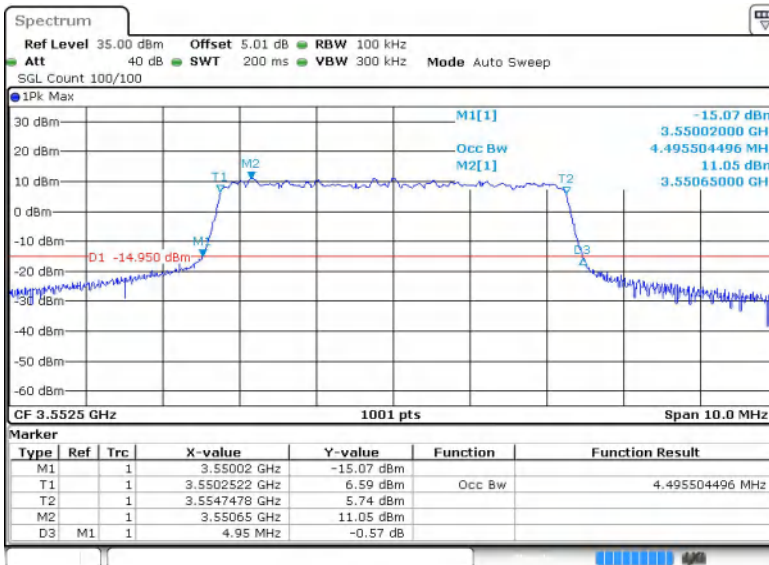
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### Band48-5MHz-64QAM-56715-25RB#0



Date: 8 NOV 2023 10:39:36

### Band48-5MHz-256QAM-55265-25RB#0



Date: 8 NOV 2023 11:09:56

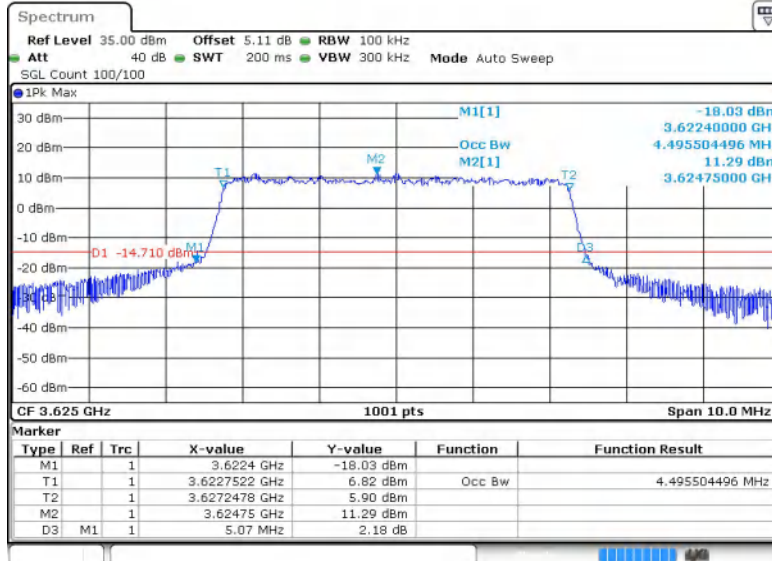


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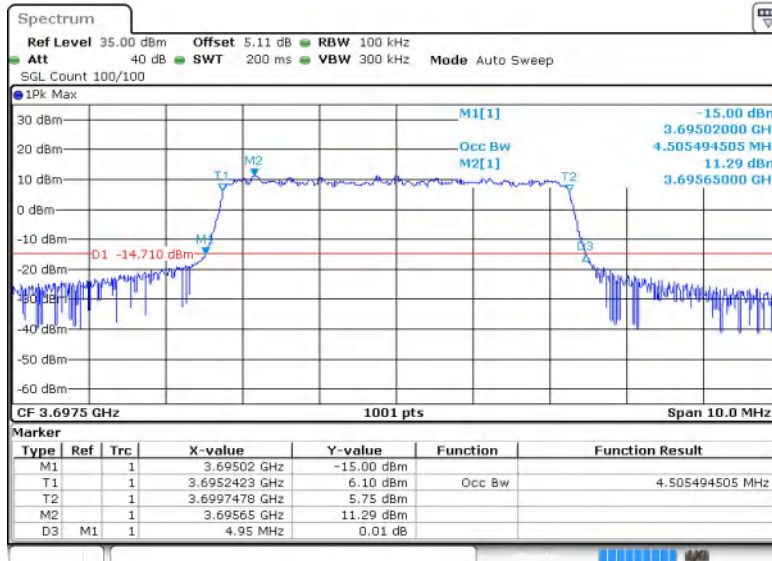
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### Band48-5MHz-256QAM-55990-25RB#0



Date: 8 NOV. 2023 11:10:22

### Band48-5MHz-256QAM-56715-25RB#0



Date: 8 NOV. 2023 11:10:47

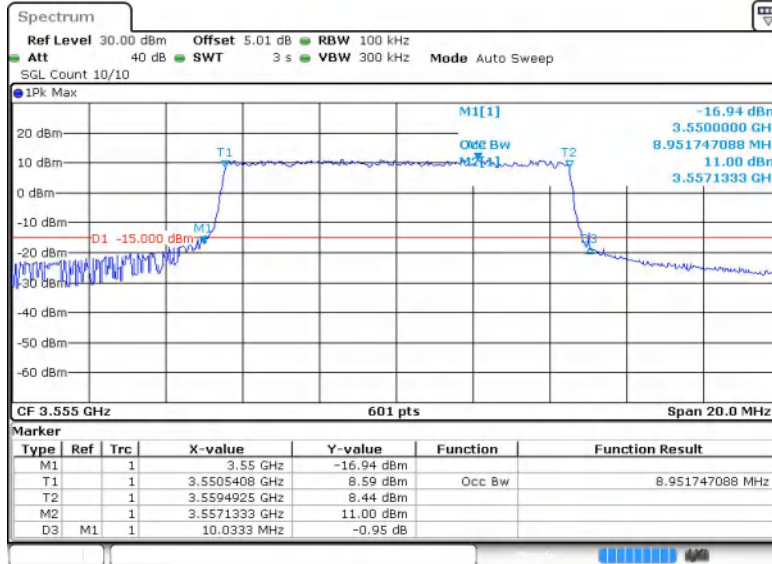


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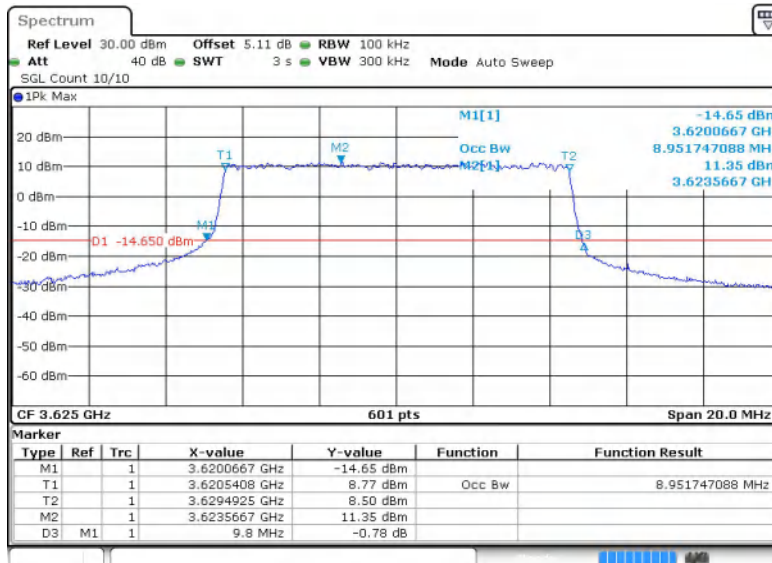
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### Band48-10MHz-QPSK-55290-50RB#0



Date: 15.NOV.2023 18:35:09

### Band48-10MHz-QPSK-55990-50RB#0



Date: 16.NOV.2023 09:04:52



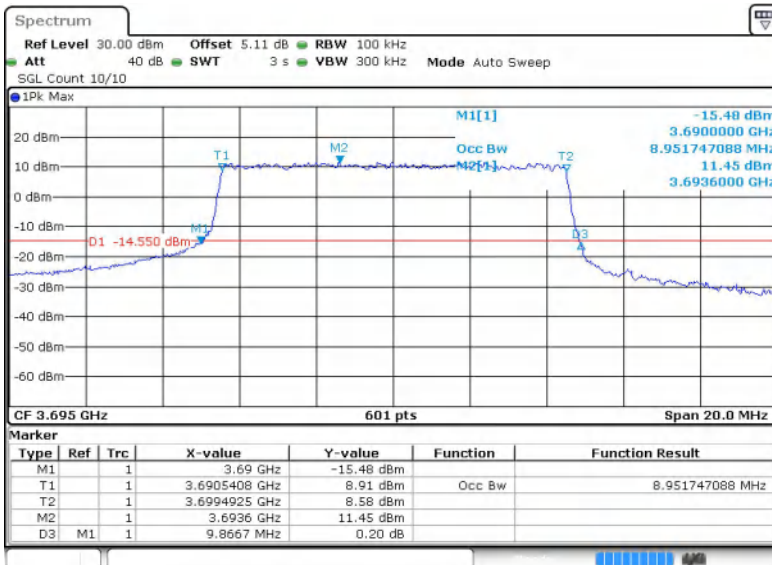
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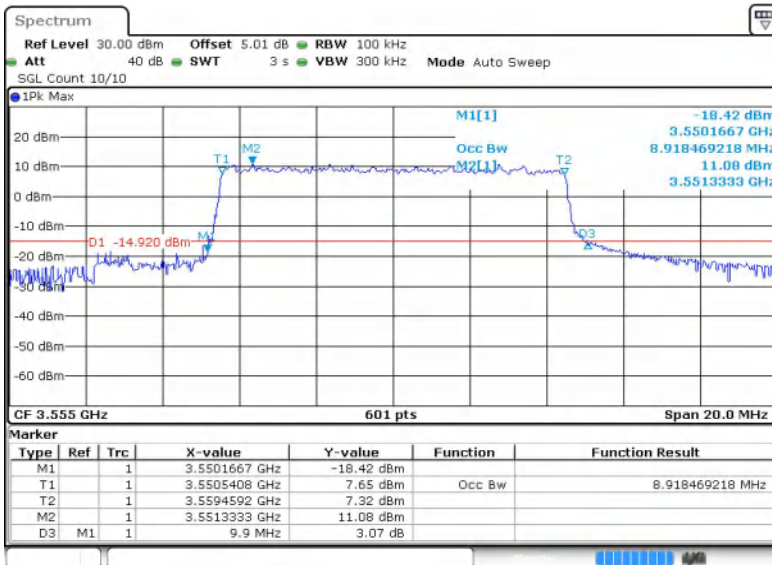


Band48-10MHz-QPSK-56690-50RB#0



Date: 16.NOV.2023 09:07:41

Band48-10MHz-16QAM-55290-50RB#0



Date: 15.NOV.2023 18:35:53

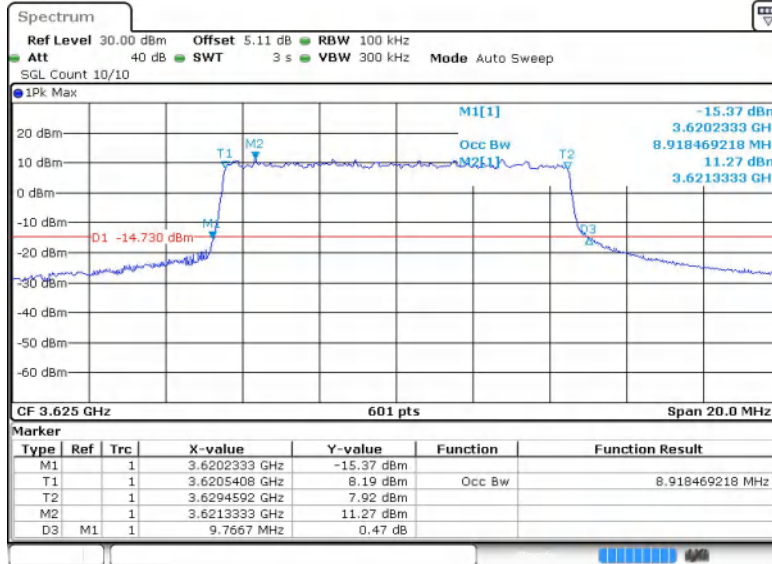


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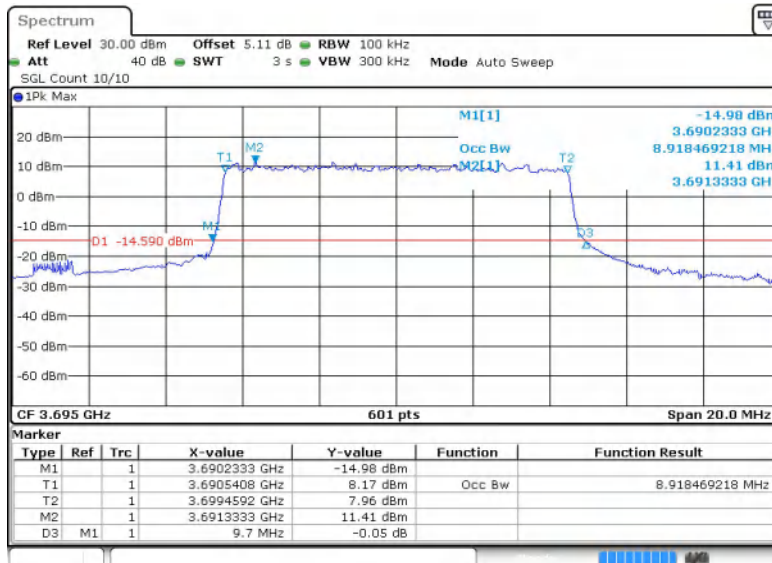


Band48-10MHz-16QAM-55990-50RB#0



Date: 16.NOV.2023 09:06:20

Band48-10MHz-16QAM-56690-50RB#0



Date: 16.NOV.2023 09:12:32



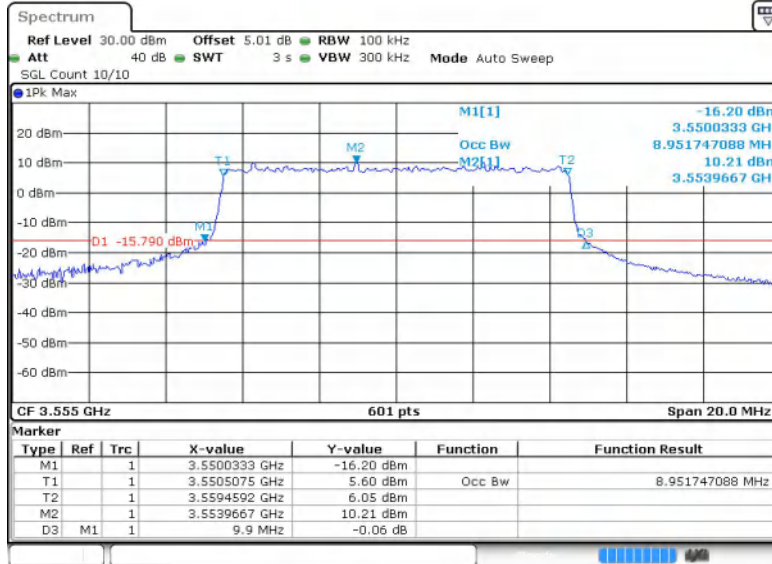
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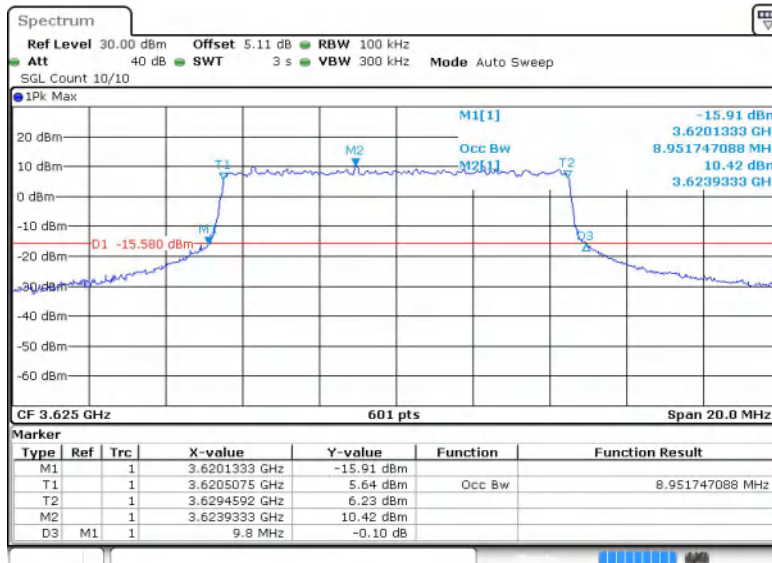


Band48-10MHz-64QAM-55290-50RB#0



Date: 16.NOV.2023 09:18:41

Band48-10MHz-64QAM-55990-50RB#0



Date: 16.NOV.2023 09:19:24

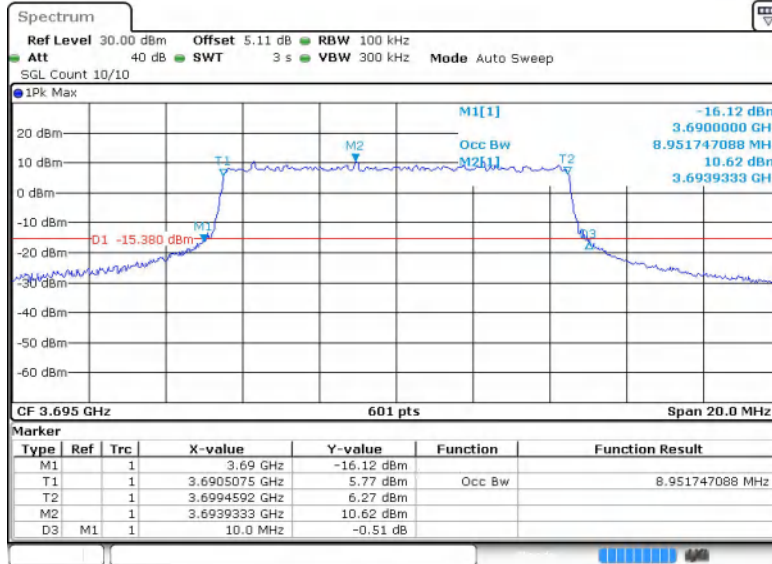


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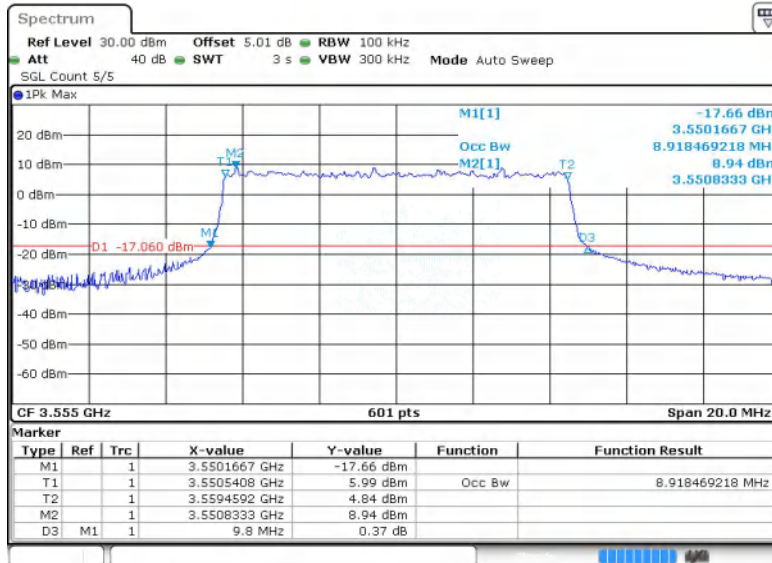
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### Band48-10MHz-64QAM-56690-50RB#0



Date: 16.NOV.2023 09:20:08

### Band48-10MHz-256QAM-55290-50RB#0



Date: 16.NOV.2023 12:09:16



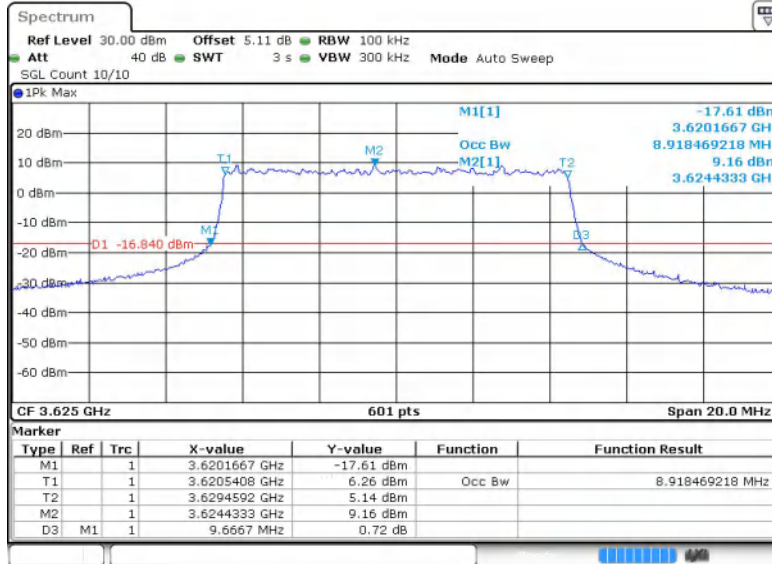
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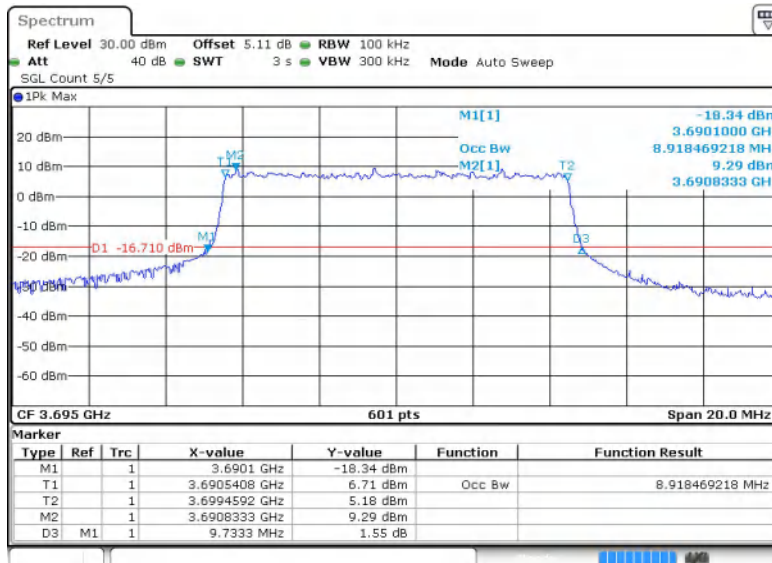


Band48-10MHz-256QAM-55990-50RB#0



Date: 16.NOV.2023 12:09:50

Band48-10MHz-256QAM-56690-50RB#0



Date: 16.NOV.2023 12:10:34



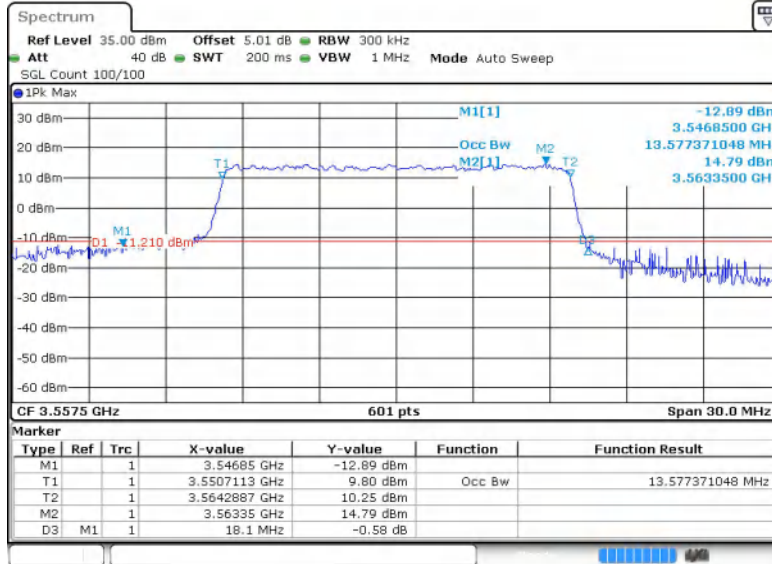
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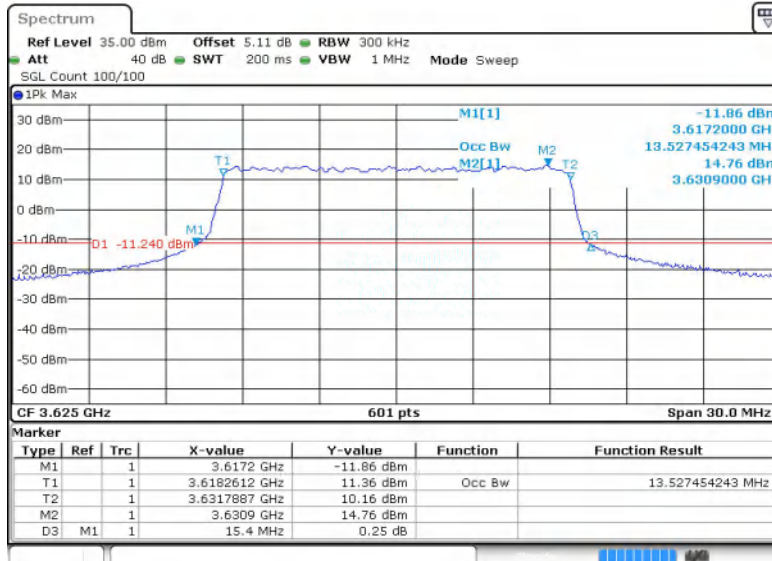


Band48-15MHz-QPSK-55315-75RB#0



Date: 8.NOV.2023 10:22:39

Band48-15MHz-QPSK-55990-75RB#0



Date: 7.NOV.2023 18:08:23

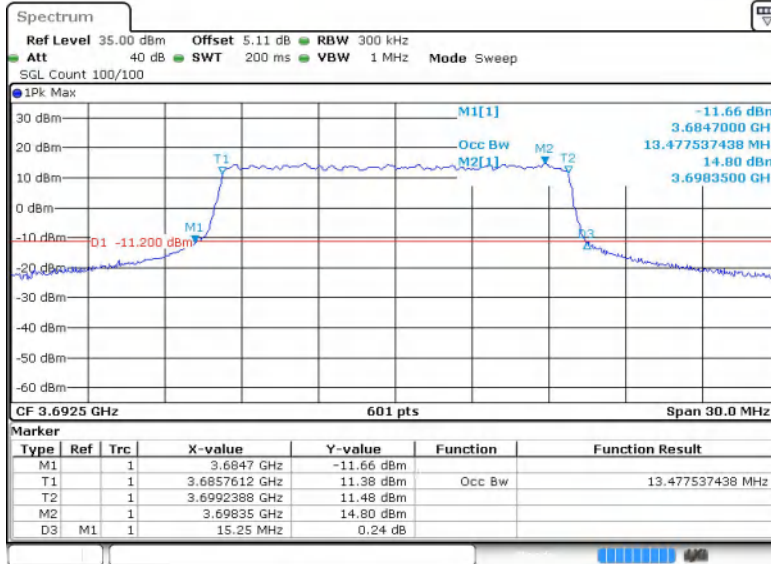


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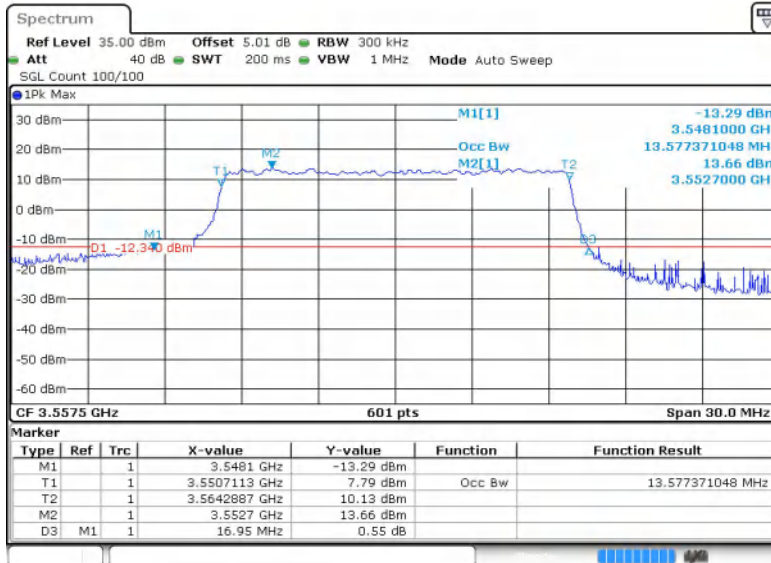
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### Band48-15MHz-QPSK-56665-75RB#0



Date: 7 NOV 2023 18:09:30

### Band48-15MHz-16QAM-55315-75RB#0



Date: 8 NOV 2023 10:27:17



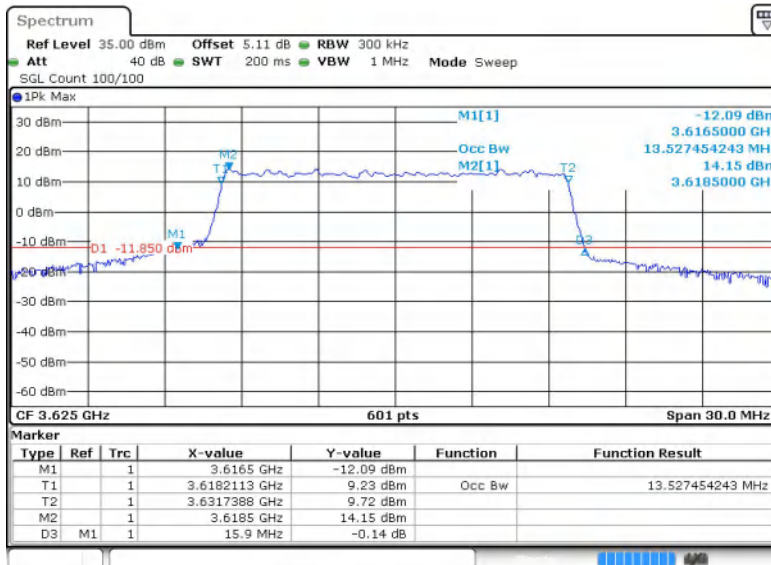
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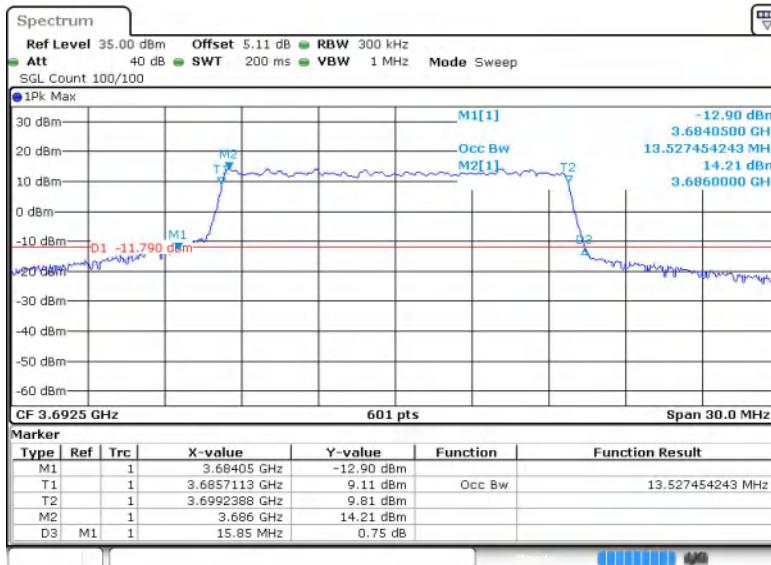


Band48-15MHz-16QAM-55990-75RB#0



Date: 7.NOV.2023 18:08:57

Band48-15MHz-16QAM-56665-75RB#0



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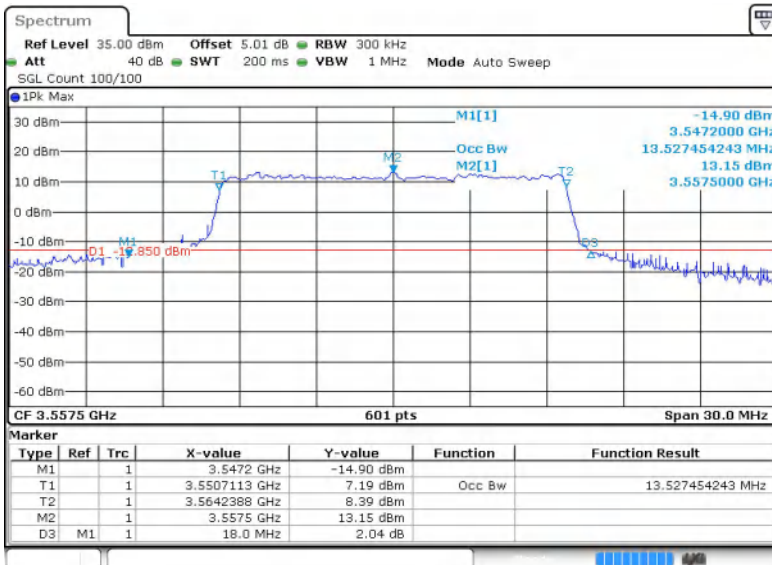


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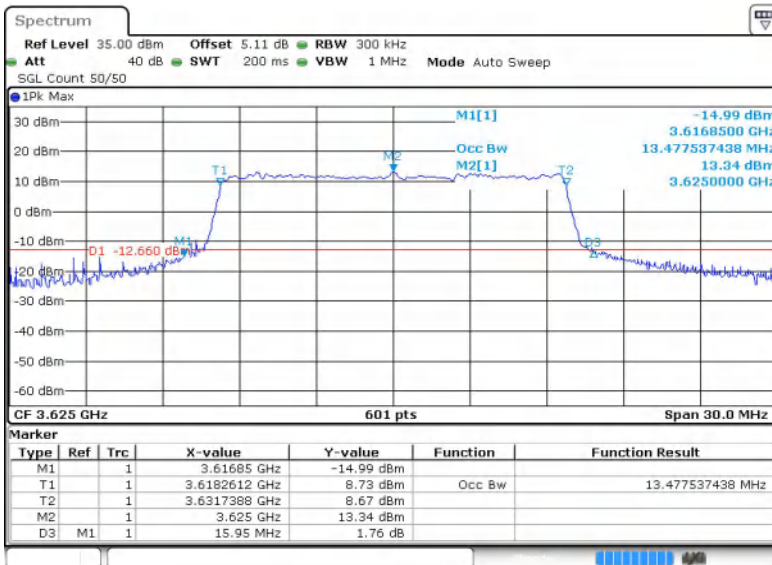
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### Band48-15MHz-64QAM-55315-75RB#0



Date: 8 NOV 2023 11:04:25

### Band48-15MHz-64QAM-55990-75RB#0



Date: 8 NOV 2023 11:05:34



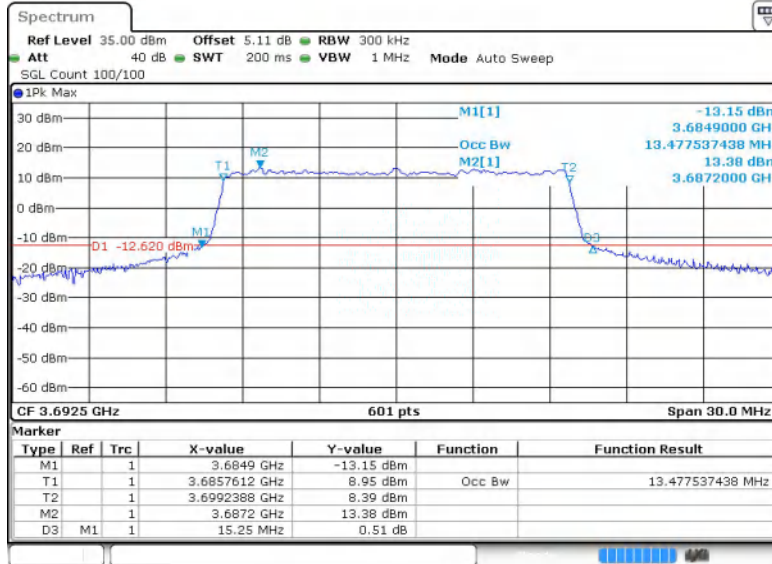
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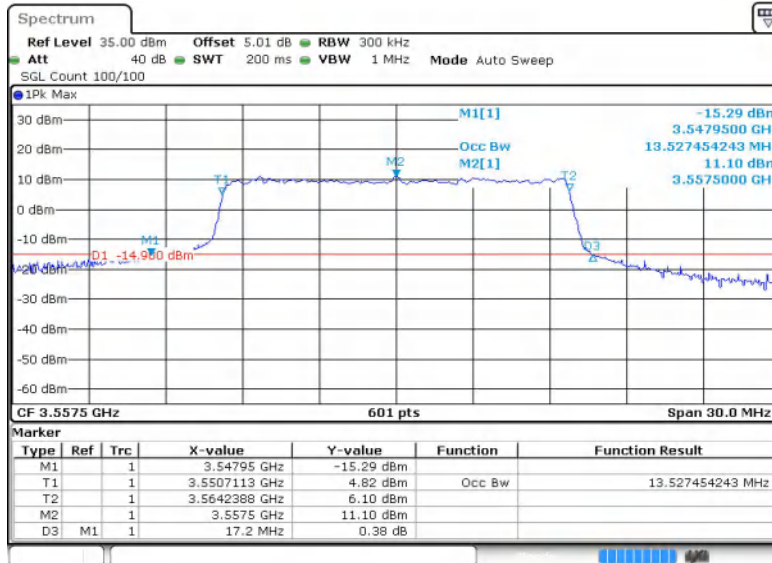


Band48-15MHz-64QAM-56665-75RB#0



Date: 8 NOV 2023 11:06:08

Band48-15MHz-256QAM-55315-75RB#0



Date: 8 NOV 2023 11:15:37



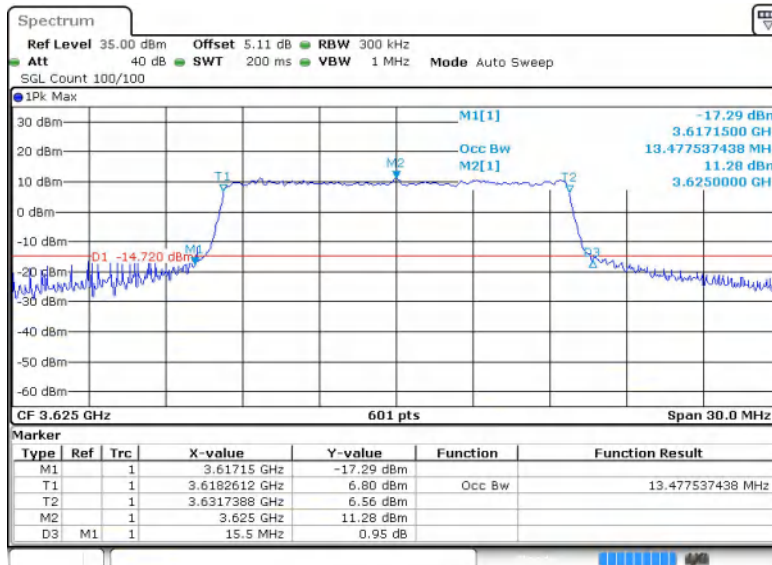
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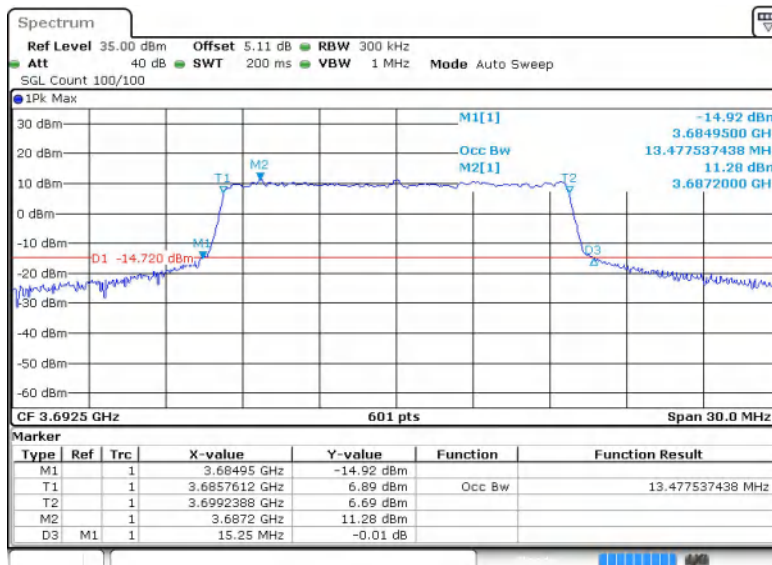


Band48-15MHz-256QAM-55990-75RB#0



Date: 8 NOV. 2023 11:16:04

Band48-15MHz-256QAM-56665-75RB#0



Date: 8 NOV. 2023 11:16:29



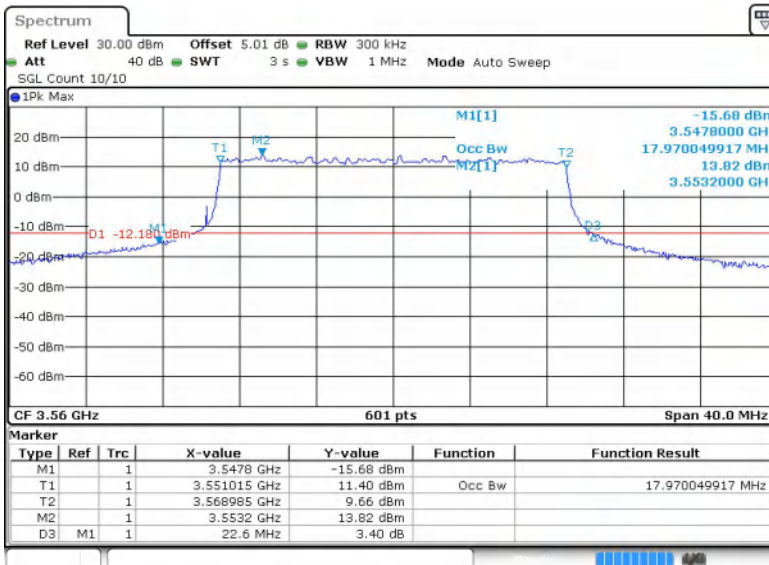
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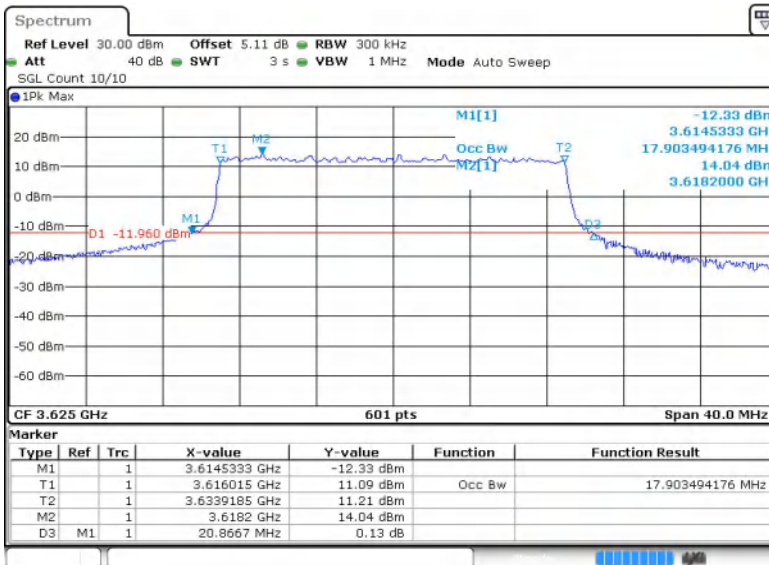
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Band48-20MHz-QPSK-55340-100RB#0



Band48-20MHz-QPSK-55990-100RB#0



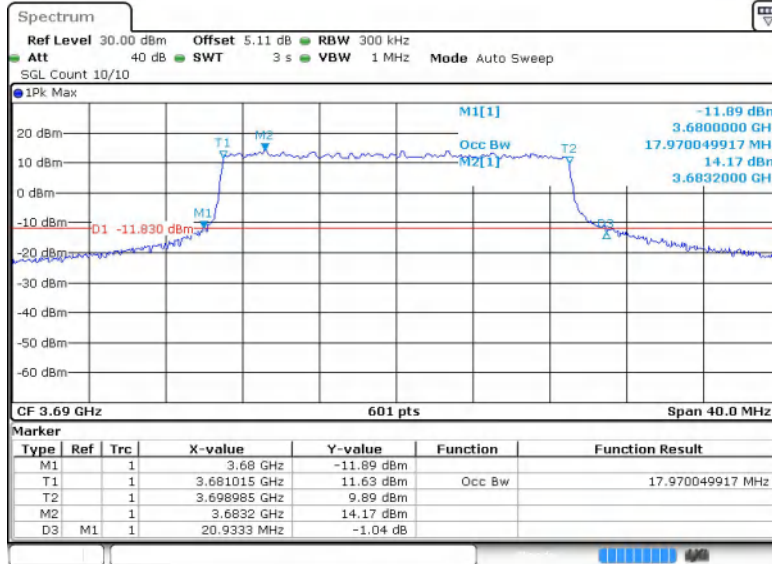
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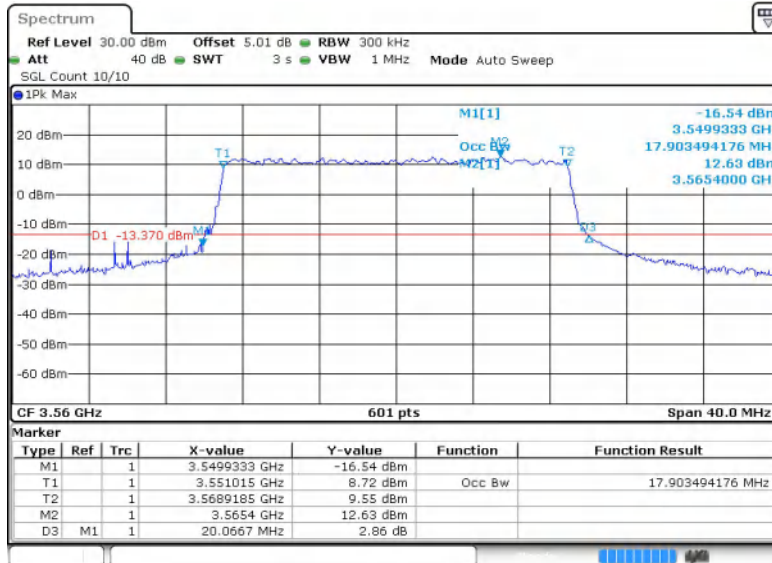
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Band48-20MHz-QPSK-56640-100RB#0



Band48-20MHz-16QAM-55340-100RB#0



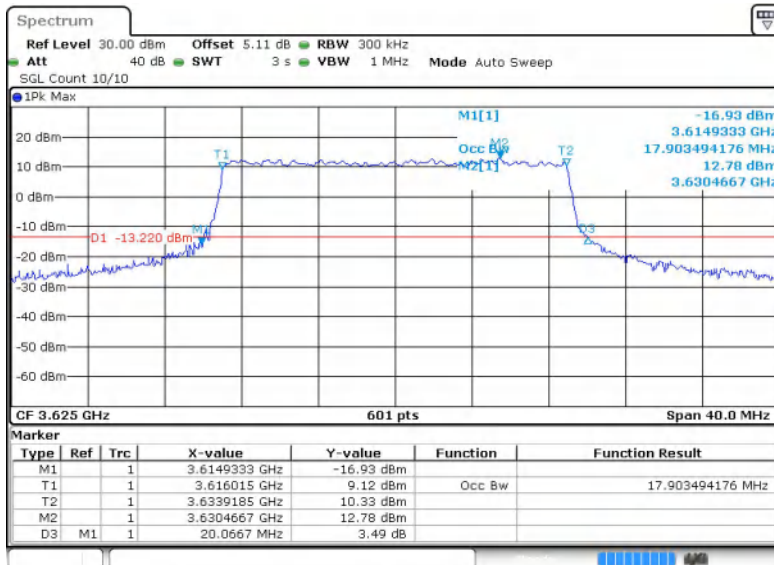
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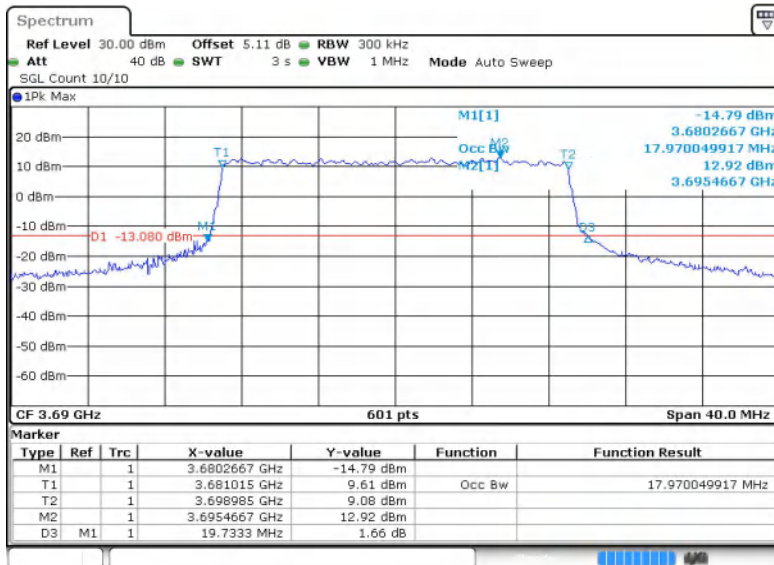


Band48-20MHz-16QAM-55990-100RB#0



Date: 15.NOV.2023 18:42:33

Band48-20MHz-16QAM-56640-100RB#0



Date: 15.NOV.2023 18:44:05



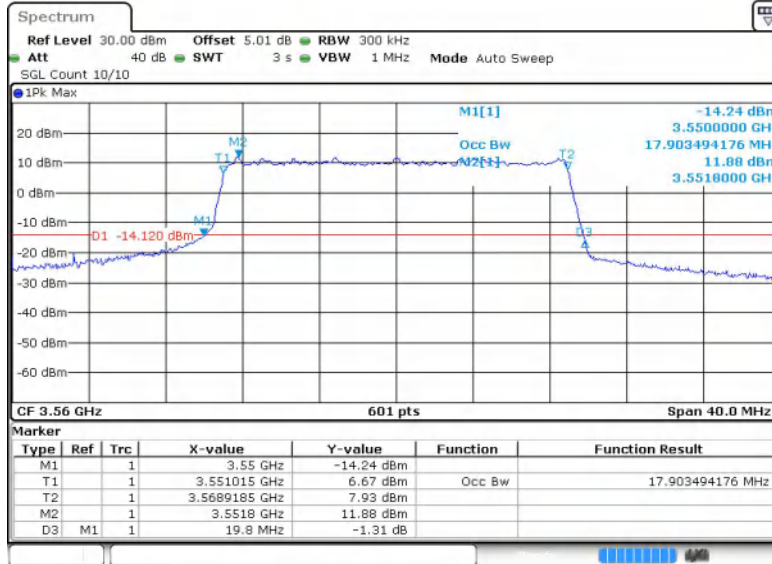
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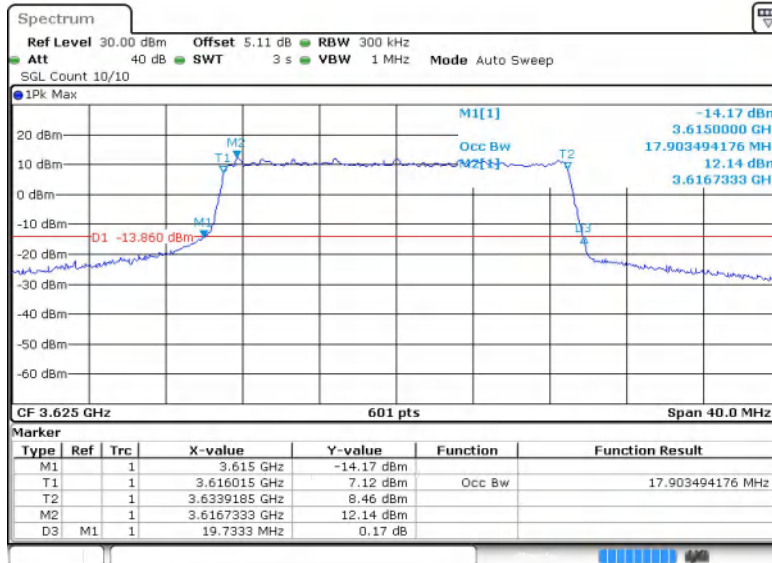


Band48-20MHz-64QAM-55340-100RB#0



Date: 16.NOV.2023 09:22:40

Band48-20MHz-64QAM-55990-100RB#0



Date: 16.NOV.2023 09:23:24



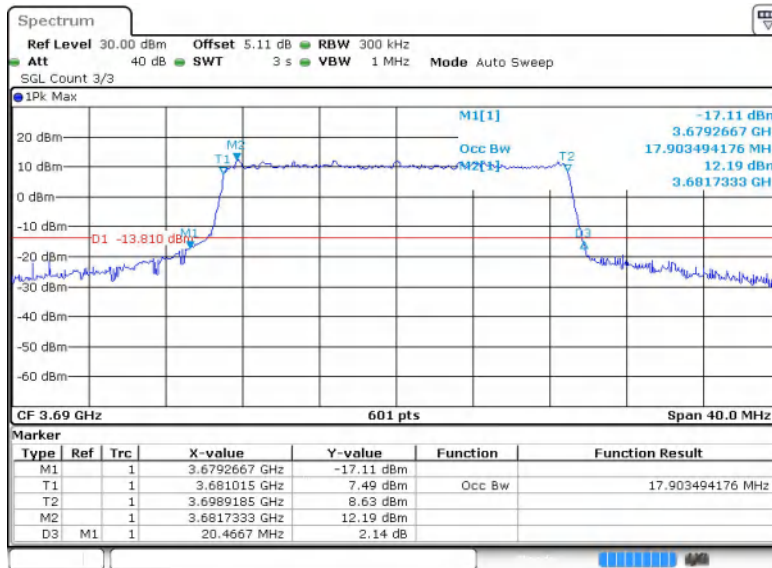
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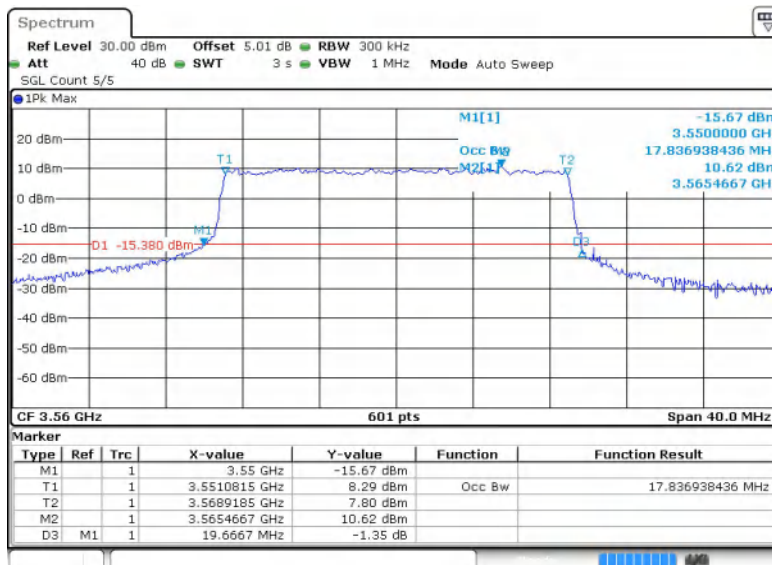


Band48-20MHz-64QAM-56640-100RB#0



Date: 16.NOV.2023 09:30:57

Band48-20MHz-256QAM-55340-100RB#0



Date: 16.NOV.2023 12:11:14



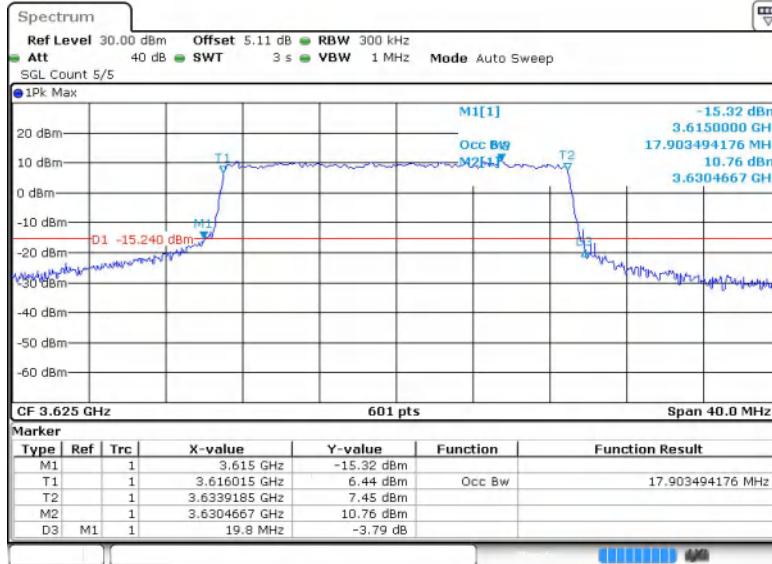
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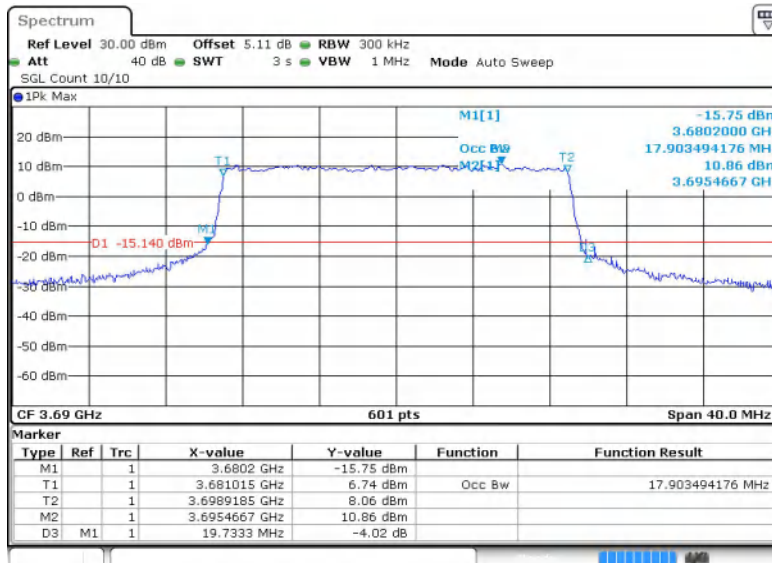


Band48-20MHz-256QAM-55990-100RB#0



Date: 16.NOV.2023 12:12:14

Band48-20MHz-256QAM-56640-100RB#0



Date: 16.NOV.2023 12:12:50



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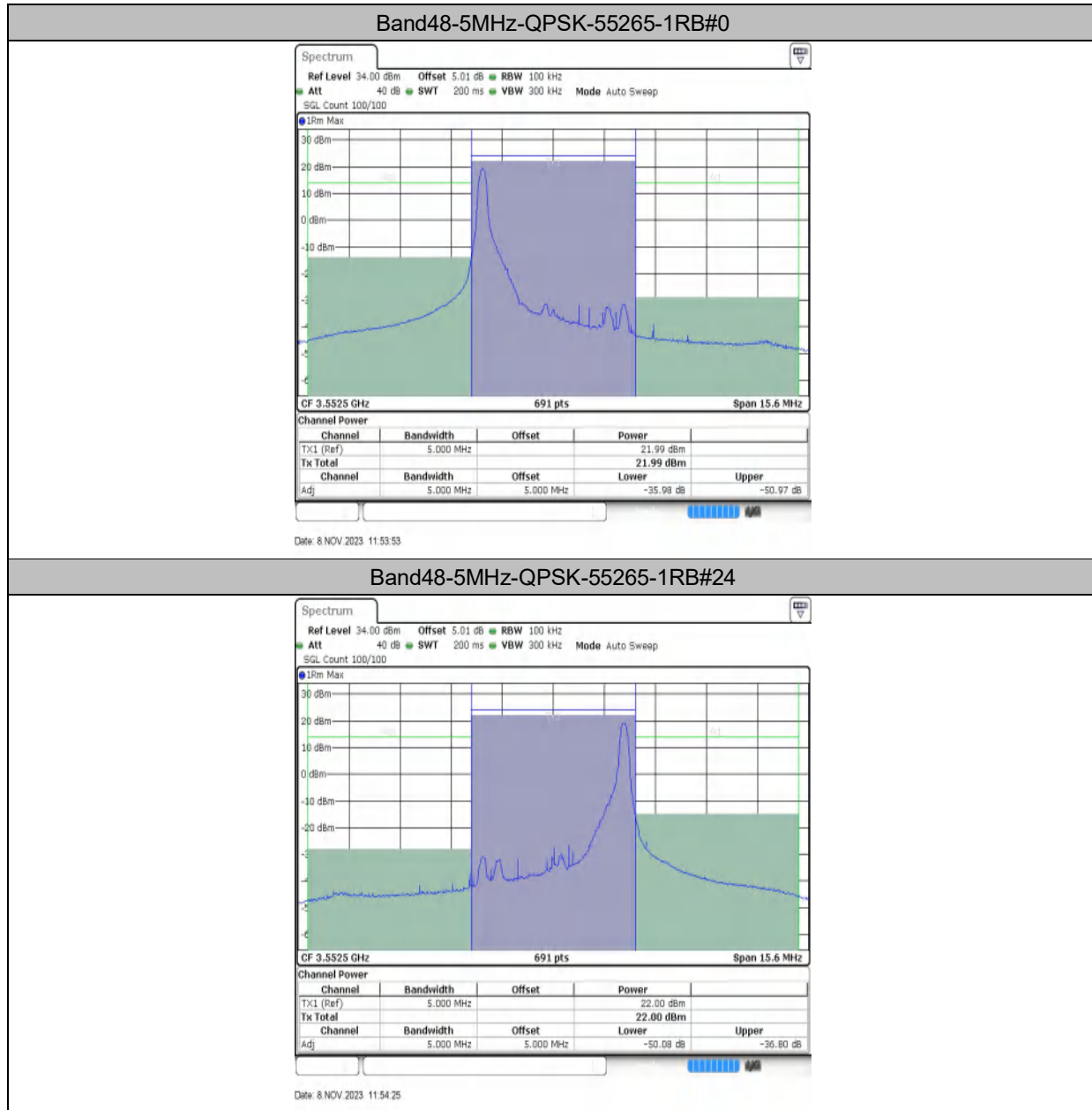
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## ACLR

### Test Graphs

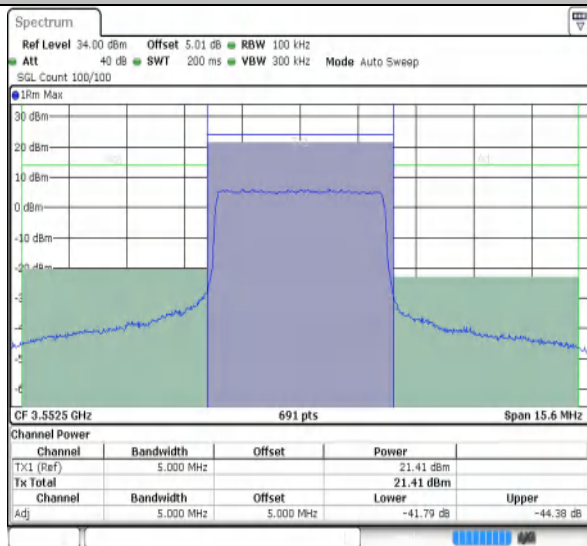


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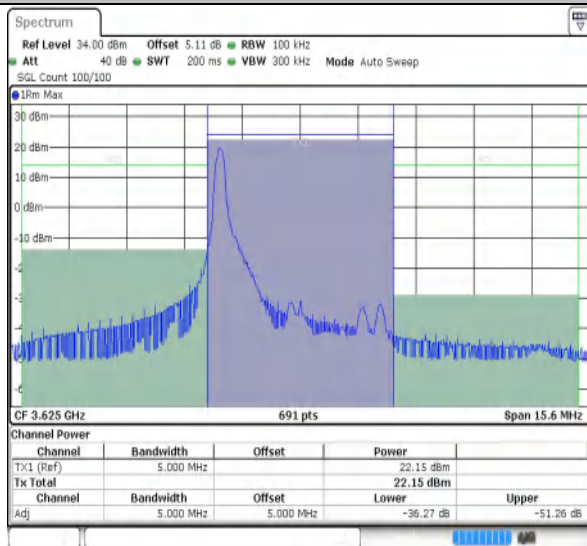
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### Band48-5MHz-QPSK-55265-25RB#0



Date: 8 NOV 2023 11:54:58

### Band48-5MHz-QPSK-55990-1RB#0



Date: 8 NOV 2023 11:55:35

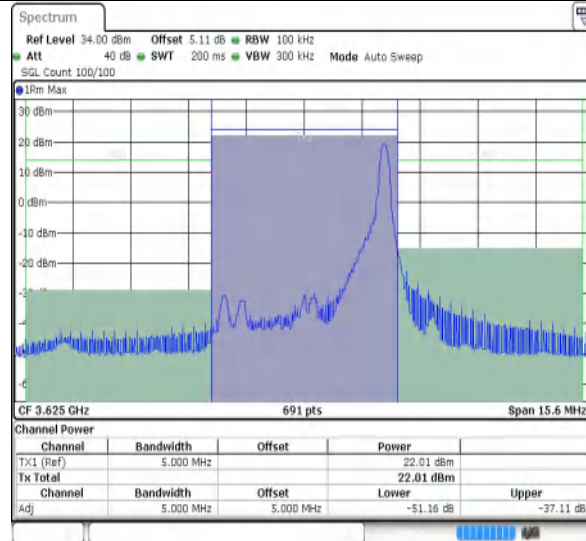


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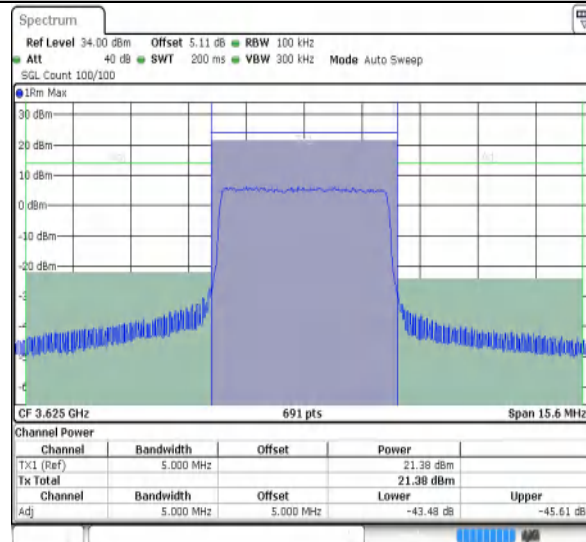
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### Band48-5MHz-QPSK-55990-1RB#24



Date: 8 NOV 2023 11:56:07

### Band48-5MHz-QPSK-55990-25RB#0



Date: 8 NOV 2023 11:56:39

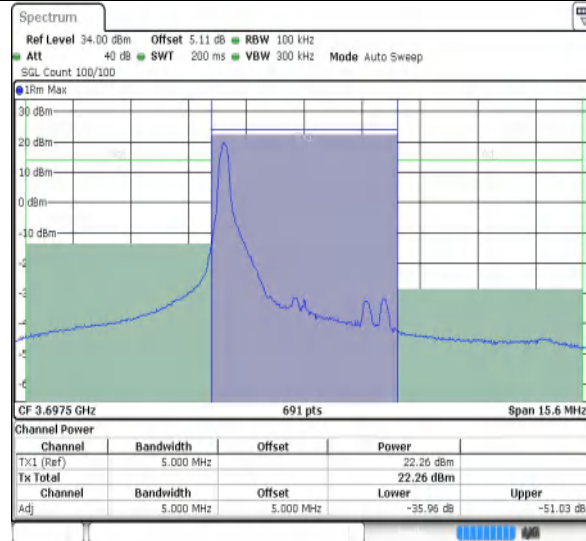


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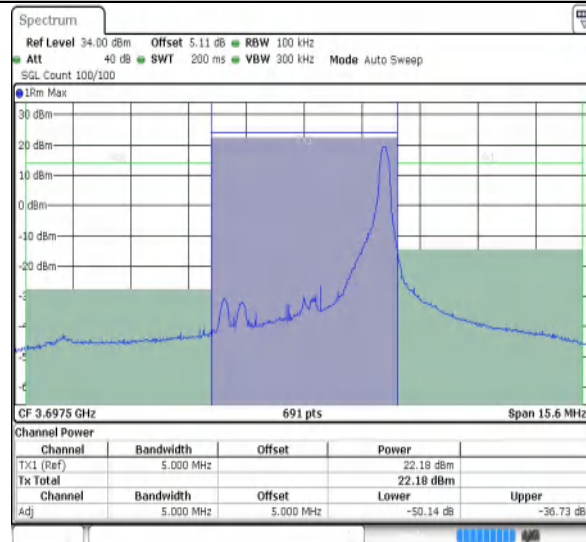
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### Band48-5MHz-QPSK-56715-1RB#0



Date: 8 NOV 2023 11:57:13

### Band48-5MHz-QPSK-56715-1RB#24



Date: 8 NOV 2023 11:57:46

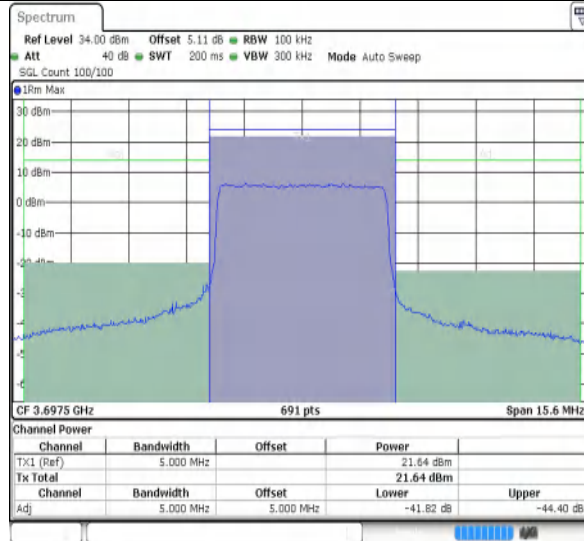


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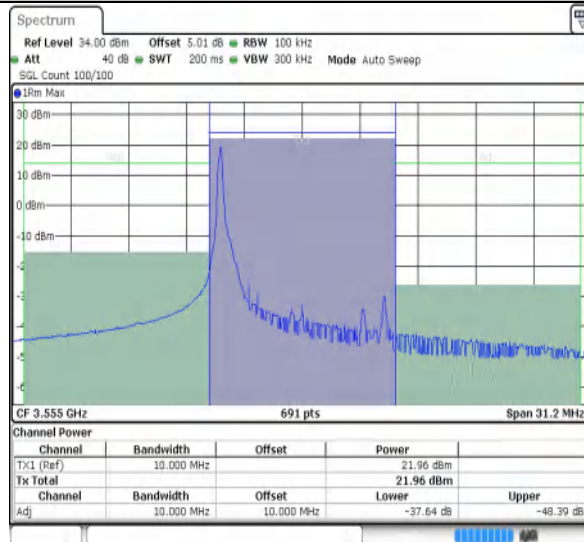
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### Band48-5MHz-QPSK-56715-25RB#0



Date: 8 NOV 2023 11:58:20

### Band48-10MHz-QPSK-55290-1RB#0



Date: 8 NOV 2023 11:59:20

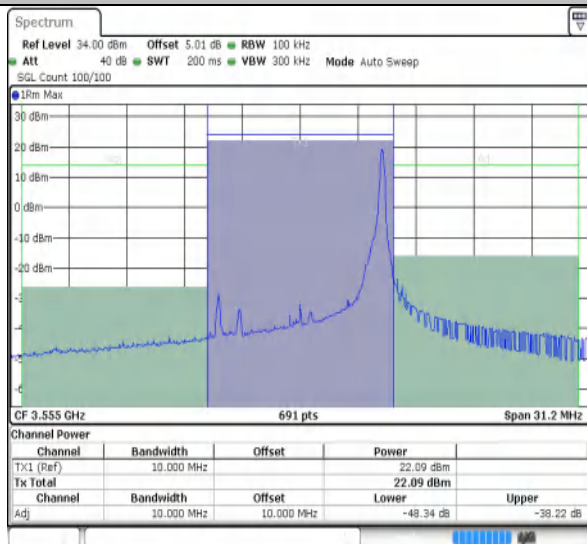


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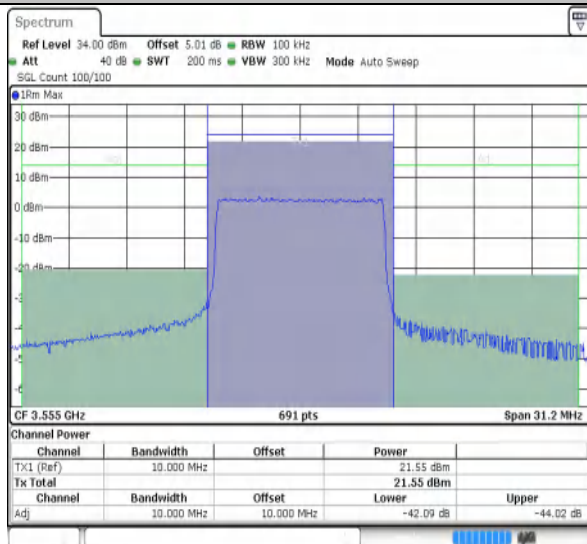
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### Band48-10MHz-QPSK-55290-1RB#49



Date: 8 NOV 2023 11:59:53

### Band48-10MHz-QPSK-55290-50RB#0



Date: 8 NOV 2023 12:00:26

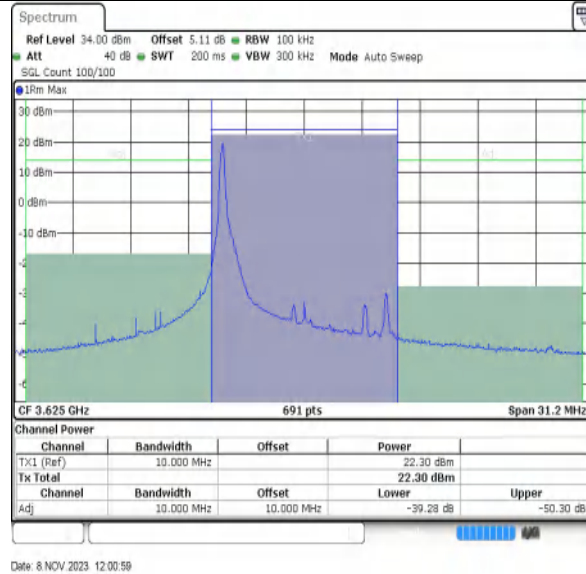


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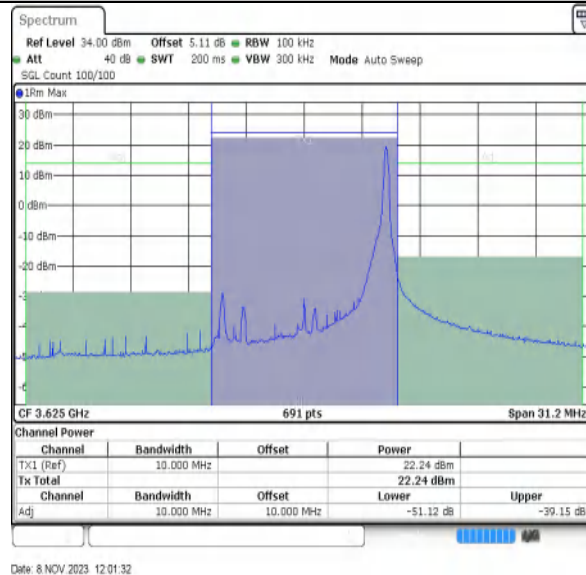
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### Band48-10MHz-QPSK-55990-1RB#0



### Band48-10MHz-QPSK-55990-1RB#49

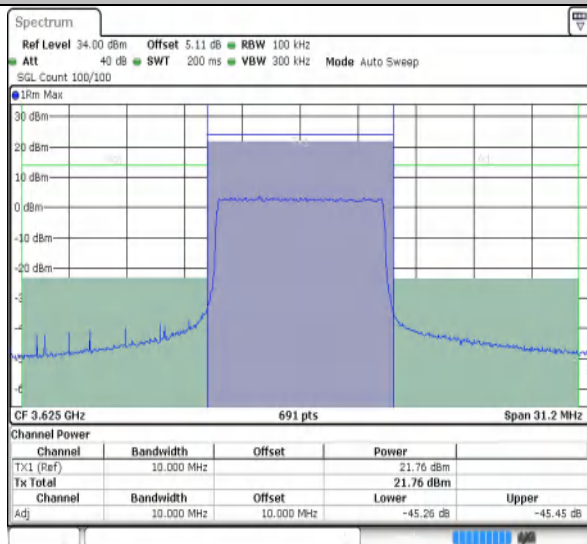


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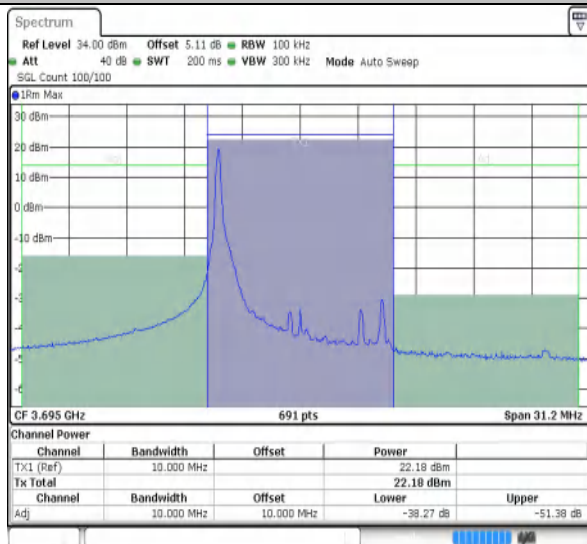
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### Band48-10MHz-QPSK-55990-50RB#0



Date: 8 NOV 2023 12:02:06

### Band48-10MHz-QPSK-56690-1RB#0



Date: 8 NOV 2023 12:02:40

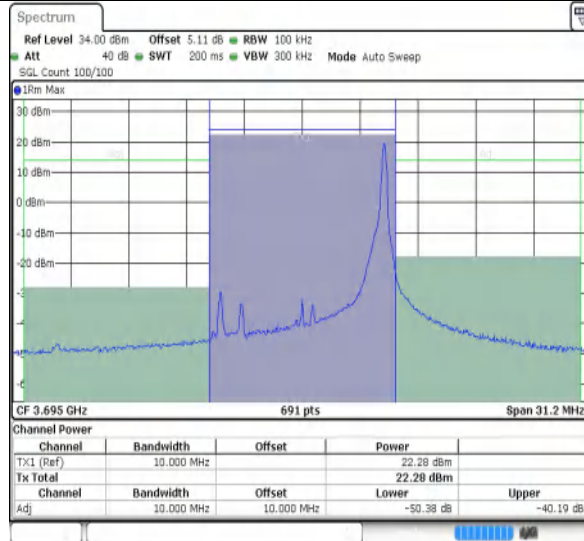


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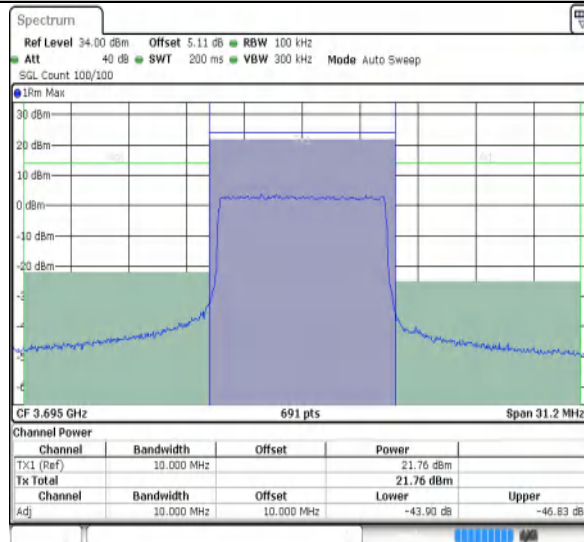
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### Band48-10MHz-QPSK-56690-1RB#49



Date: 8 NOV 2023 12:03:13

### Band48-10MHz-QPSK-56690-50RB#0



Date: 8 NOV 2023 12:03:47

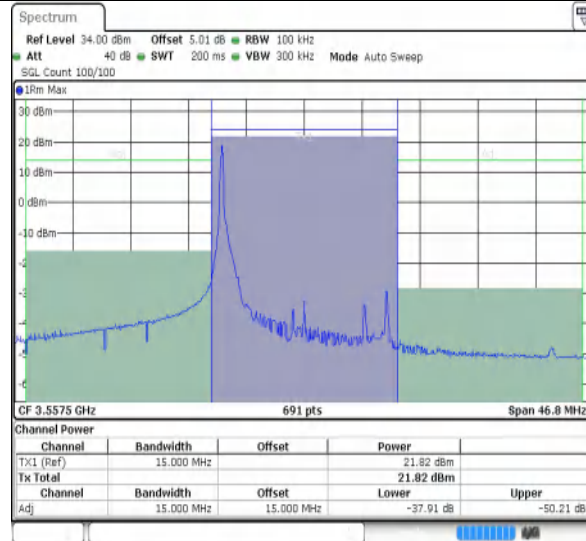


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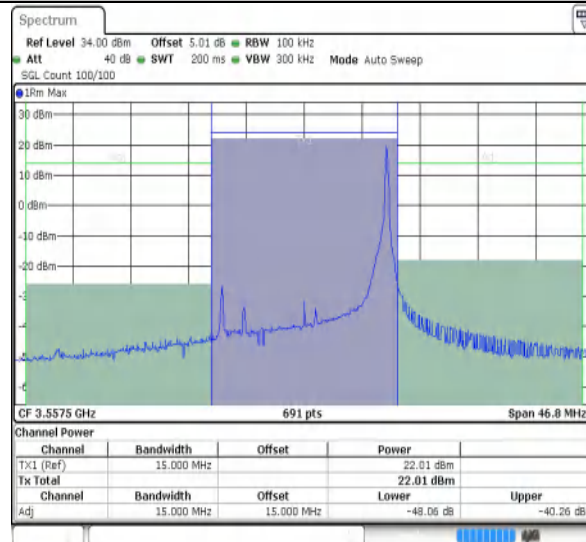
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### Band48-15MHz-QPSK-55315-1RB#0



Date: 8 NOV 2023 12:04:41

### Band48-15MHz-QPSK-55315-1RB#74



Date: 8 NOV 2023 12:05:14

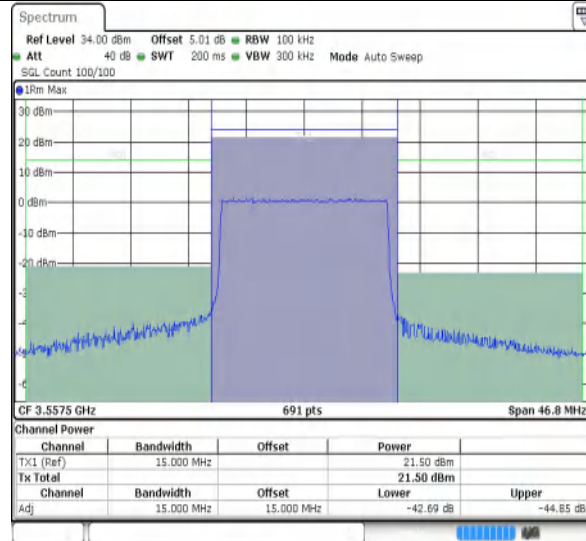


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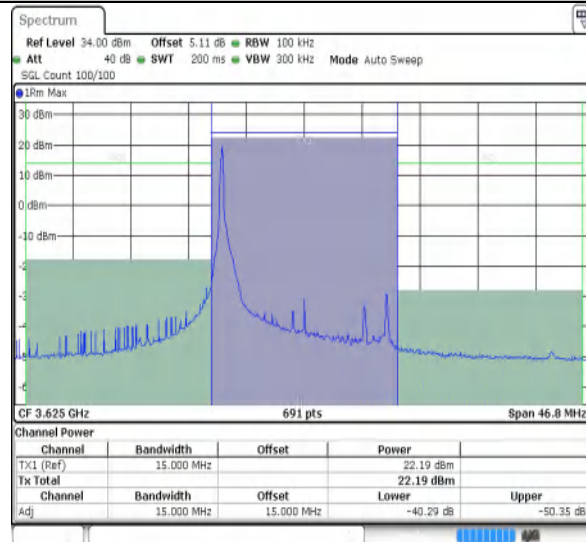
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### Band48-15MHz-QPSK-55315-75RB#0



Date: 8 NOV 2023 12:05:48

### Band48-15MHz-QPSK-55990-1RB#0



Date: 8 NOV 2023 12:06:22

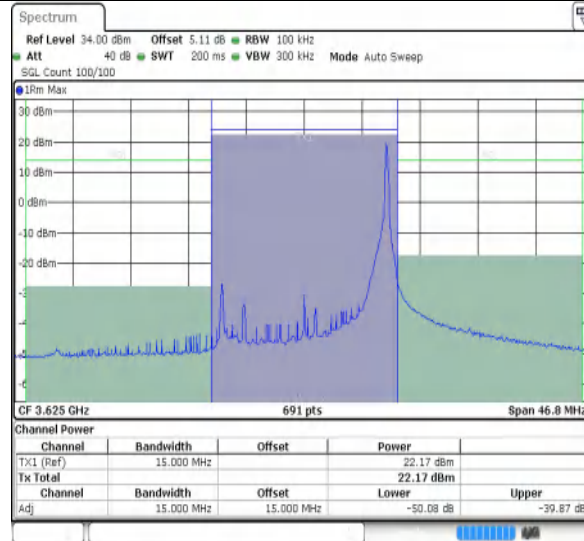


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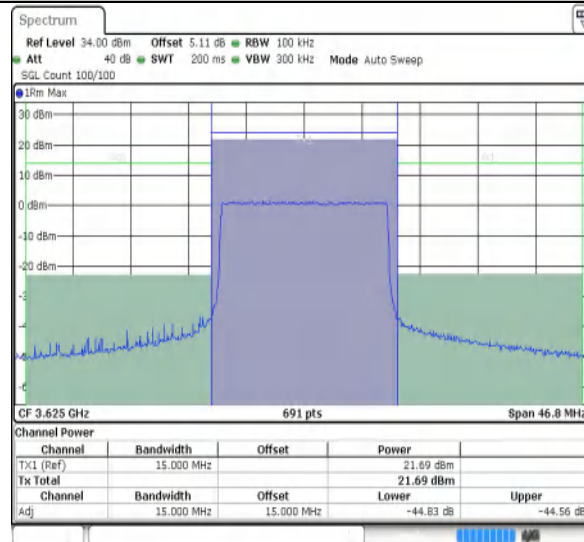
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### Band48-15MHz-QPSK-55990-1RB#74



Date: 8 NOV 2023 12:06:55

### Band48-15MHz-QPSK-55990-75RB#0



Date: 8 NOV 2023 12:07:29

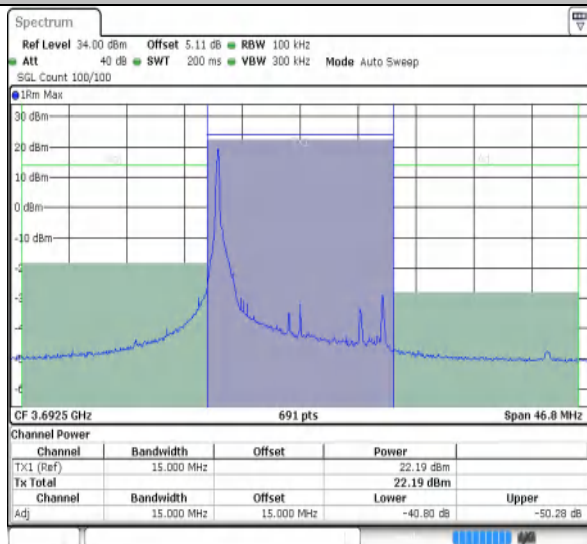


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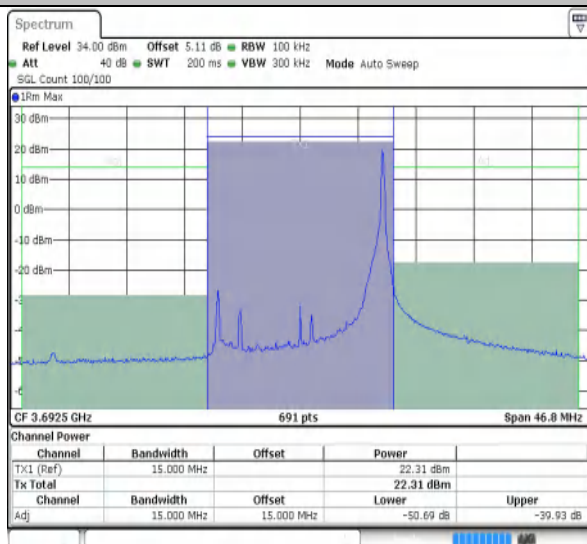
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### Band48-15MHz-QPSK-56665-1RB#0



Date: 8 NOV 2023 12:08:03

### Band48-15MHz-QPSK-56665-1RB#74



Date: 8 NOV 2023 12:08:37

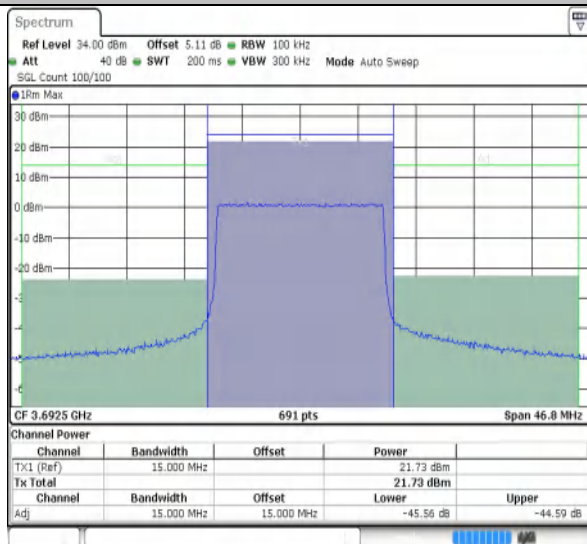


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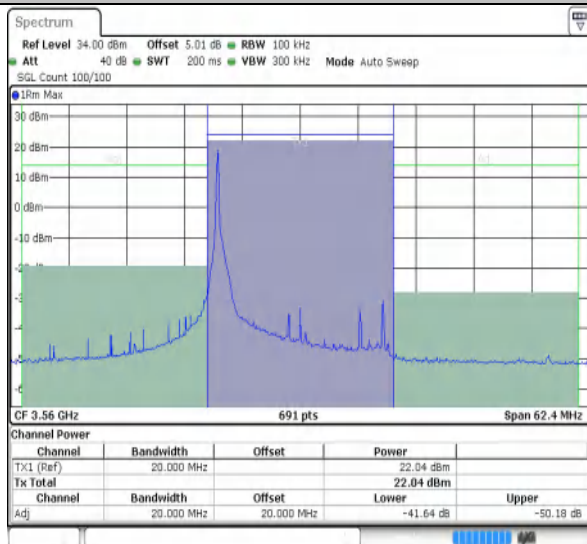
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### Band48-15MHz-QPSK-56665-75RB#0



Date: 8 NOV 2023 12:09:11

### Band48-20MHz-QPSK-55340-1RB#0



Date: 8 NOV 2023 12:10:04

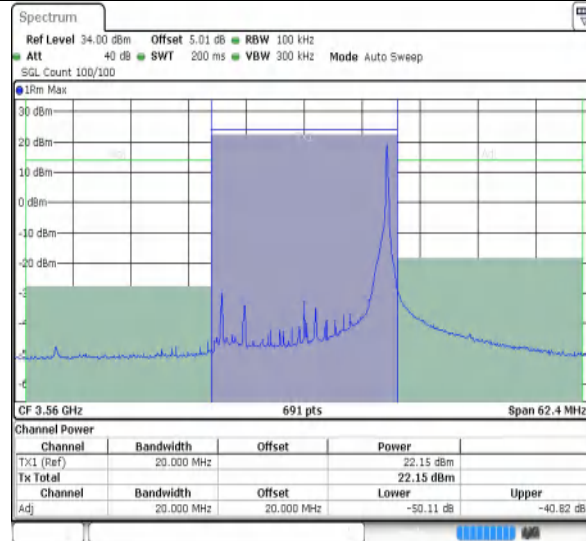


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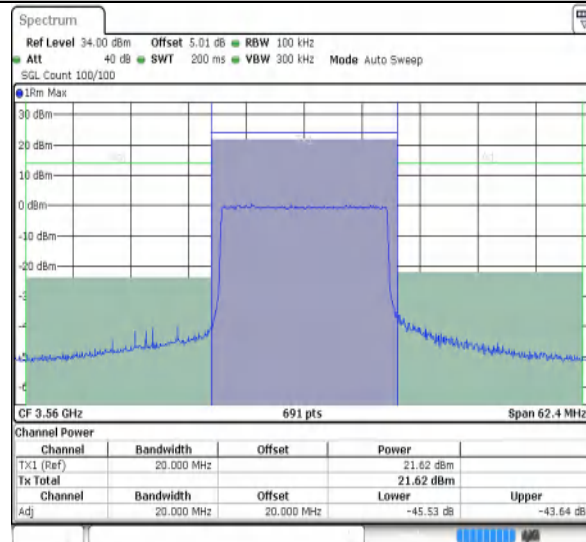
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### Band48-20MHz-QPSK-55340-1RB#99



Date: 8 NOV 2023 12:10:36

### Band48-20MHz-QPSK-55340-100RB#0



Date: 8 NOV 2023 12:11:09

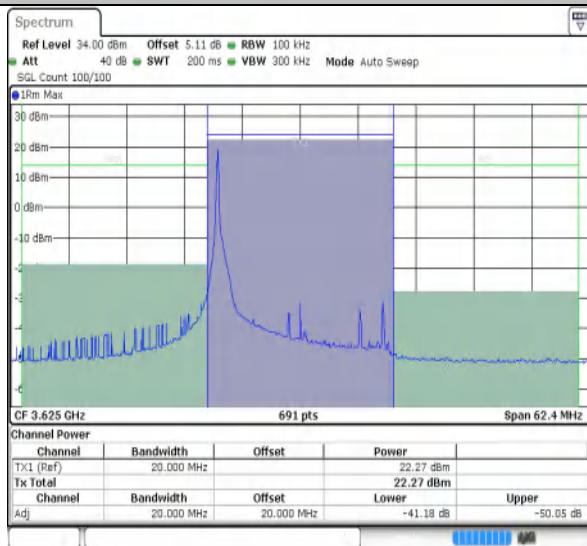


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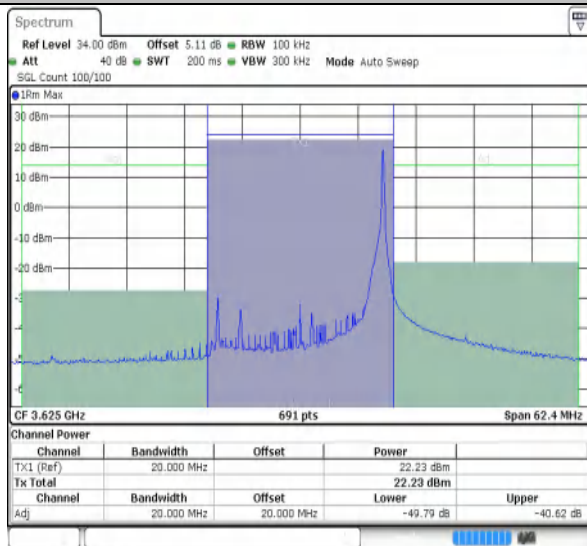
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### Band48-20MHz-QPSK-55990-1RB#0



Date: 8 NOV 2023 12:11:42

### Band48-20MHz-QPSK-55990-1RB#99



Date: 8 NOV 2023 12:12:14



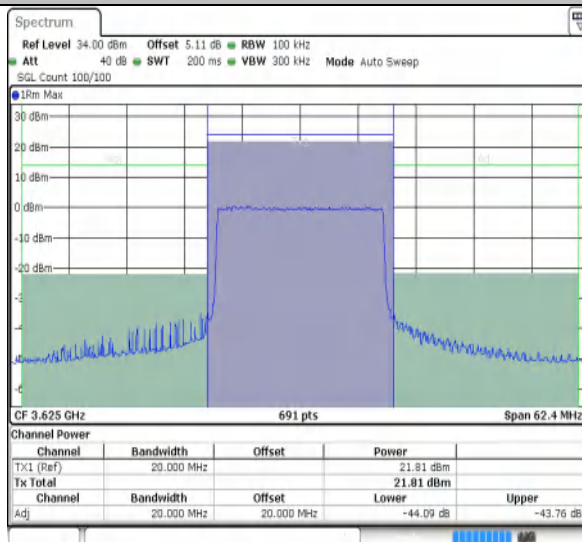
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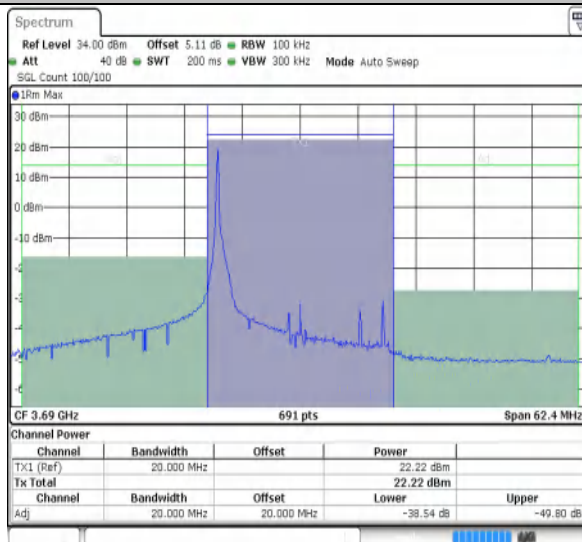


Band48-20MHz-QPSK-55990-100RB#0



Date: 8 NOV 2023 12:12:46

Band48-20MHz-QPSK-56640-1RB#0



Date: 8 NOV 2023 12:13:19



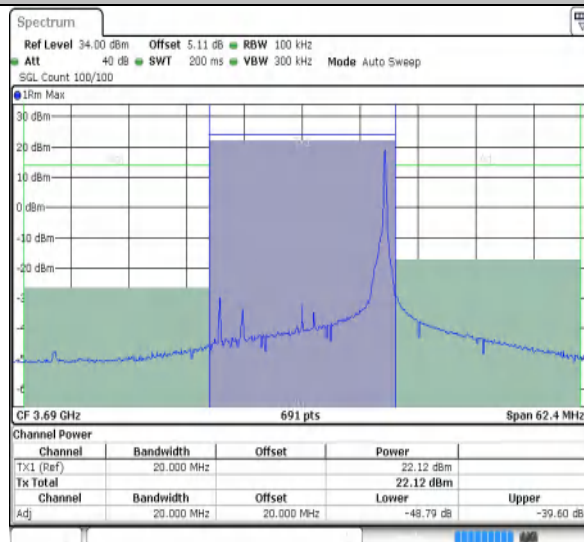
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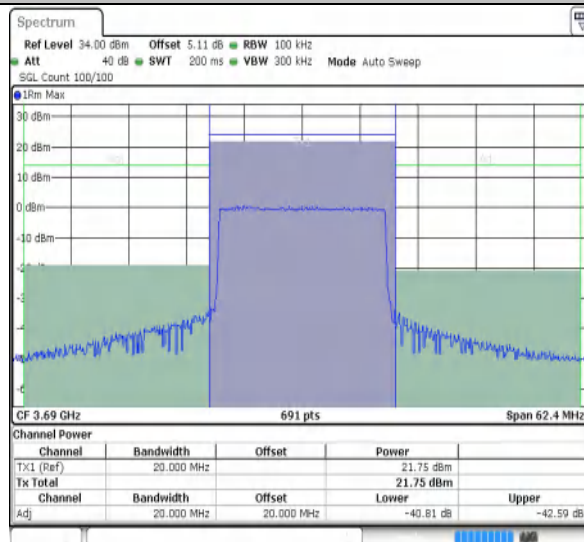


Band48-20MHz-QPSK-56640-1RB#99



Date: 8 NOV 2023 12:13:52

Band48-20MHz-QPSK-56640-100RB#0



Date: 8 NOV 2023 12:14:24



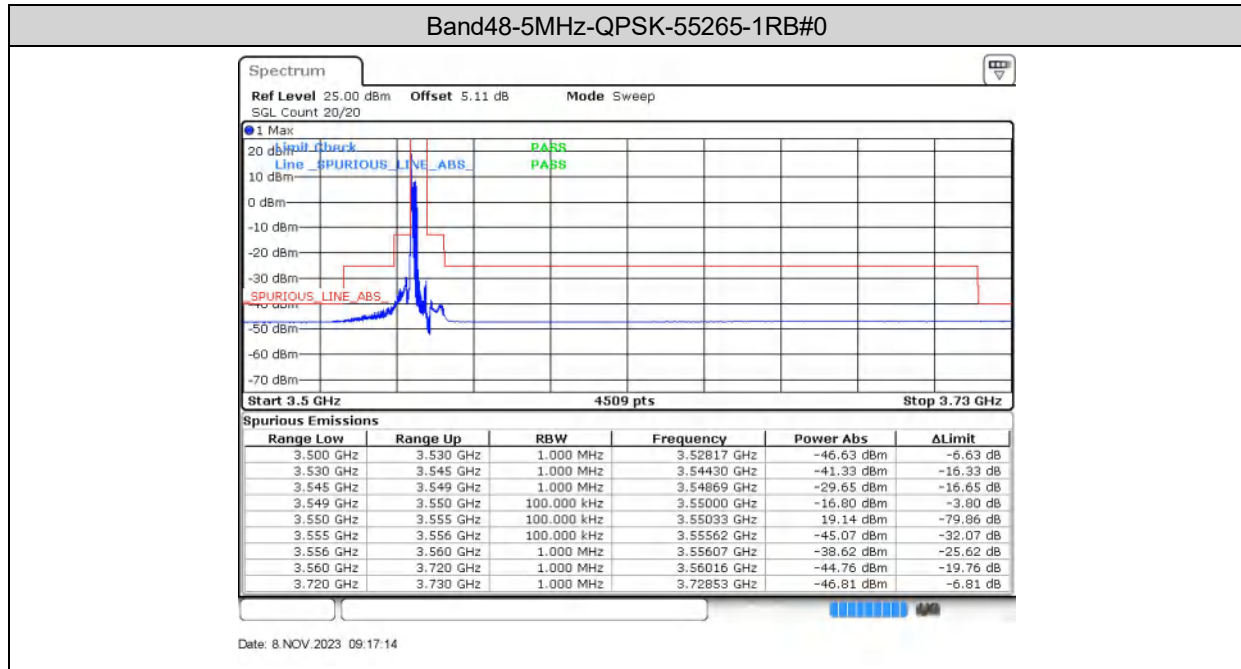
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### Band Edge

### Test Graphs



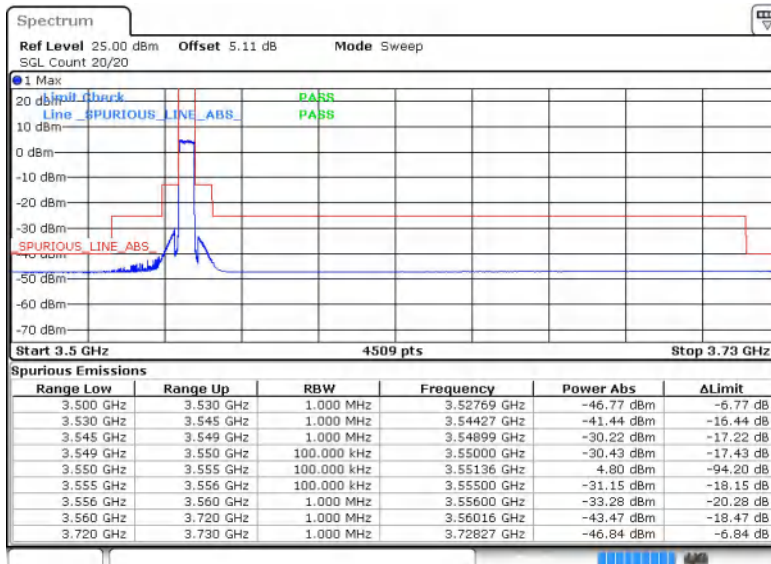
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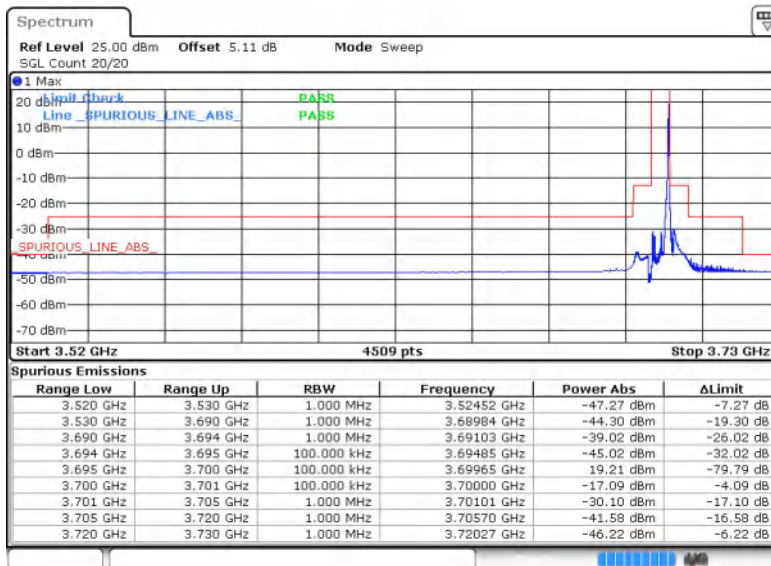


Band48-5MHz-QPSK-55265-25RB#0



Date: 8 NOV 2023 09:20:35

Band48-5MHz-QPSK-56715-1RB#24



Date: 8 NOV 2023 09:24:22

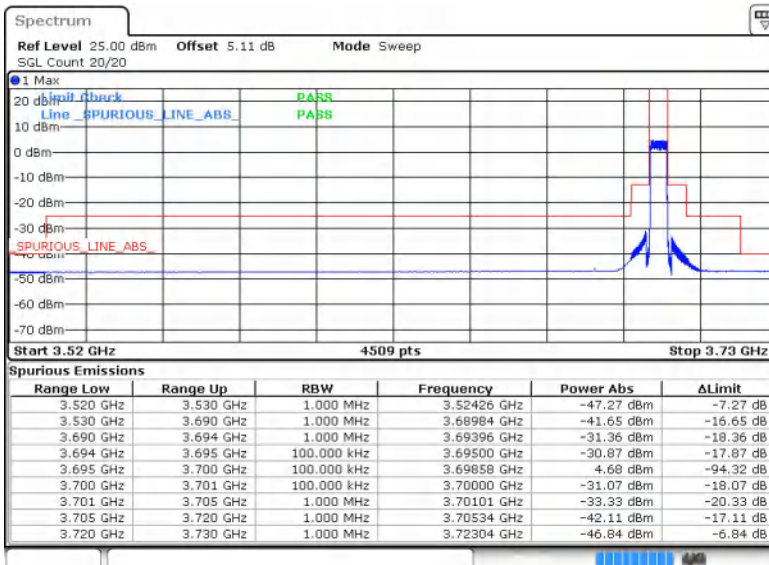


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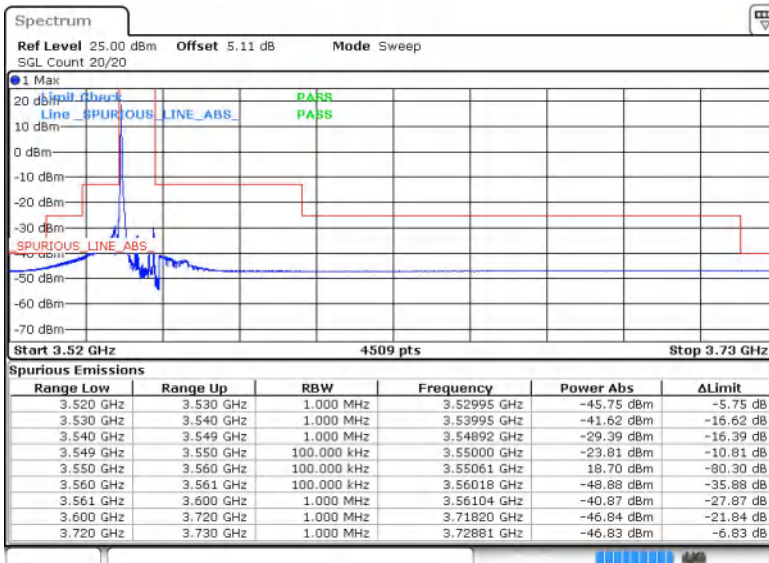
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### Band48-5MHz-QPSK-56715-25RB#0



Date: 8 NOV 2023 09:28:25

### Band48-10MHz-QPSK-55290-1RB#0



Date: 8 NOV 2023 09:32:06



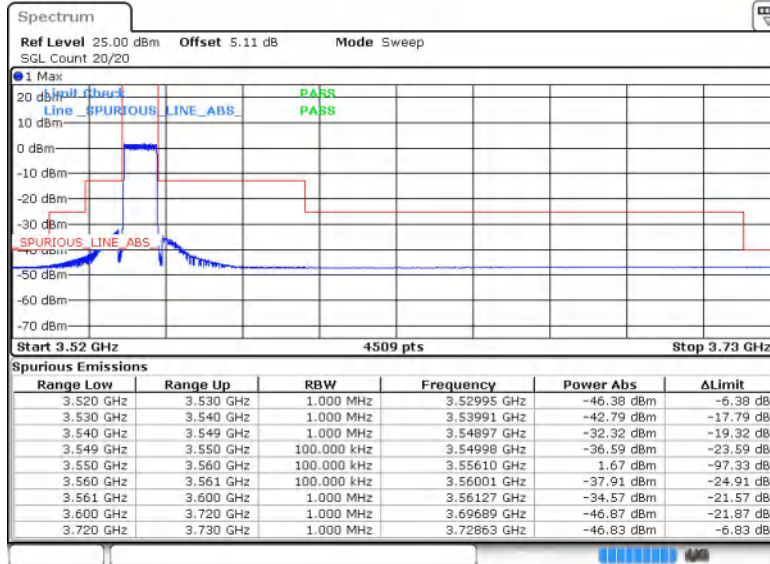
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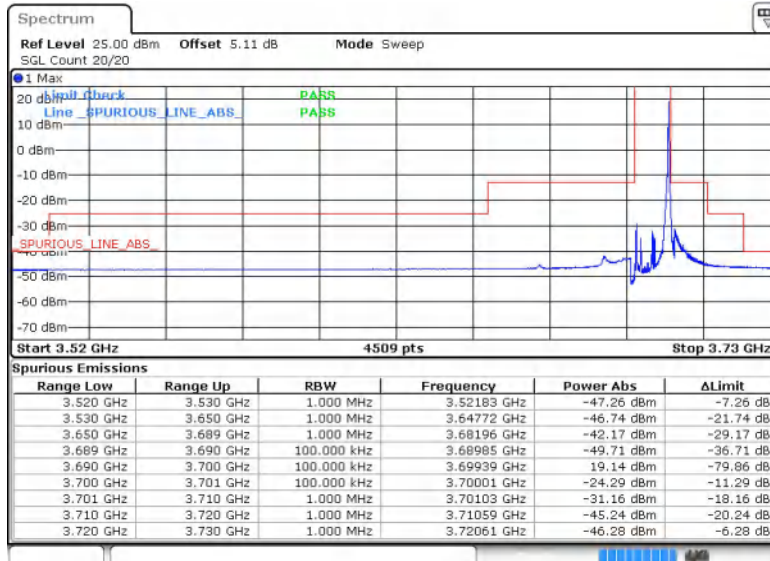


Band48-10MHz-QPSK-55290-50RB#0



Date: 8 NOV 2023 09:35:28

Band48-10MHz-QPSK-56690-1RB#49



Date: 8 NOV 2023 09:39:12



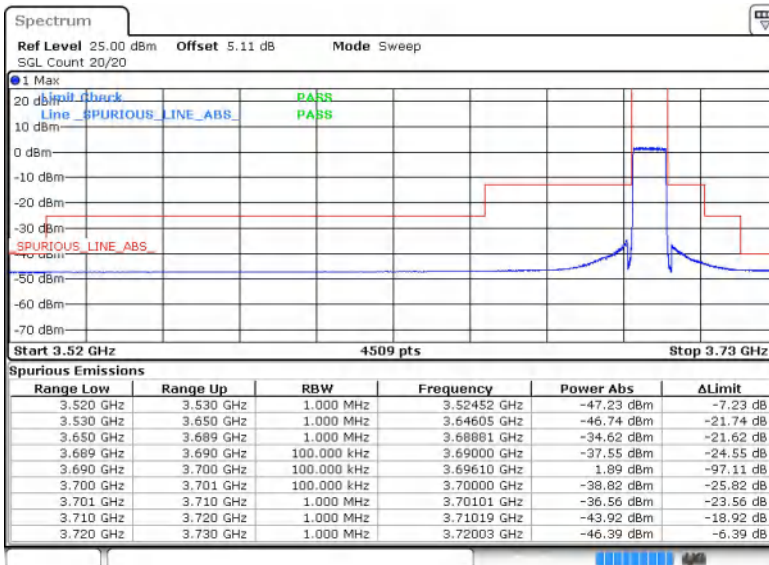
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Band48-10MHz-QPSK-56690-50RB#0



Date: 8 NOV 2023 09:42:36

Band48-15MHz-QPSK-55315-1RB#0



Date: 8 NOV 2023 09:46:20



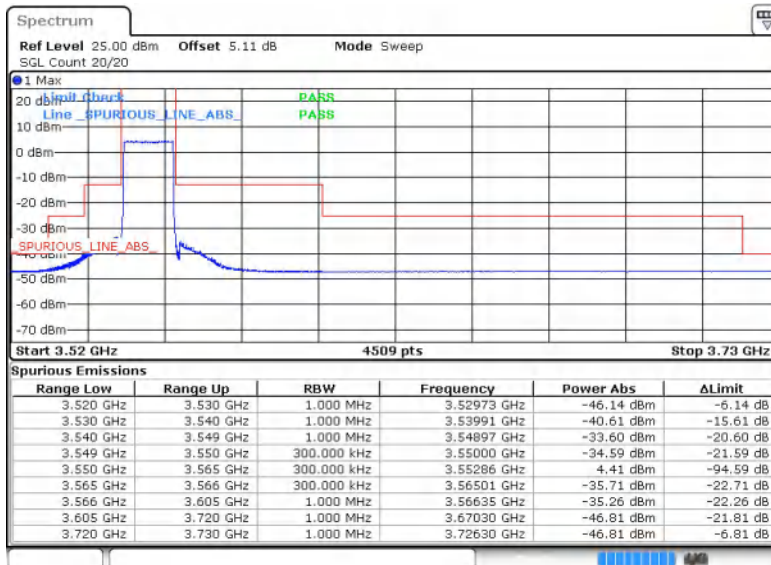
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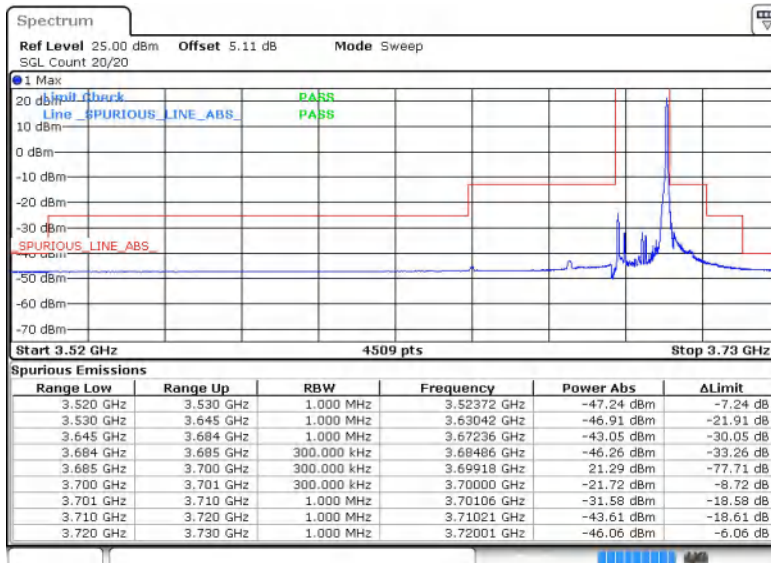


Band48-15MHz-QPSK-55315-75RB#0



Date: 8 NOV 2023 09:49:41

Band48-15MHz-QPSK-56665-1RB#74



Date: 8 NOV 2023 09:53:27



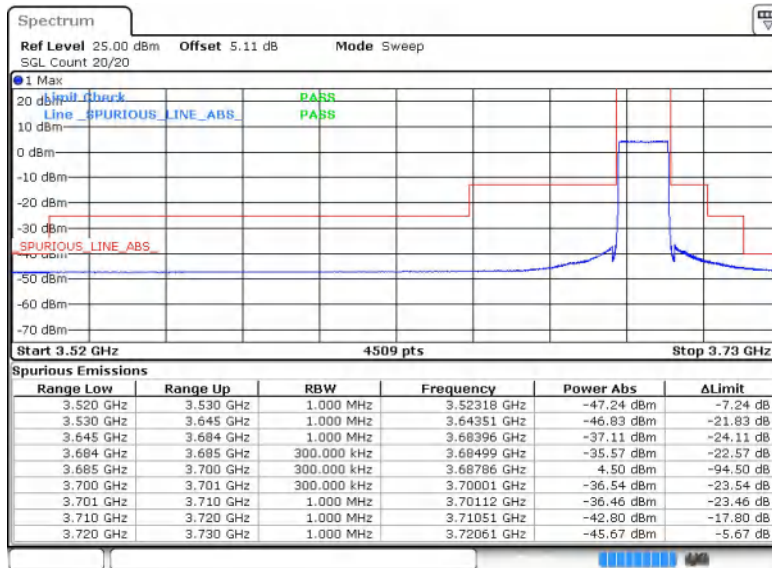
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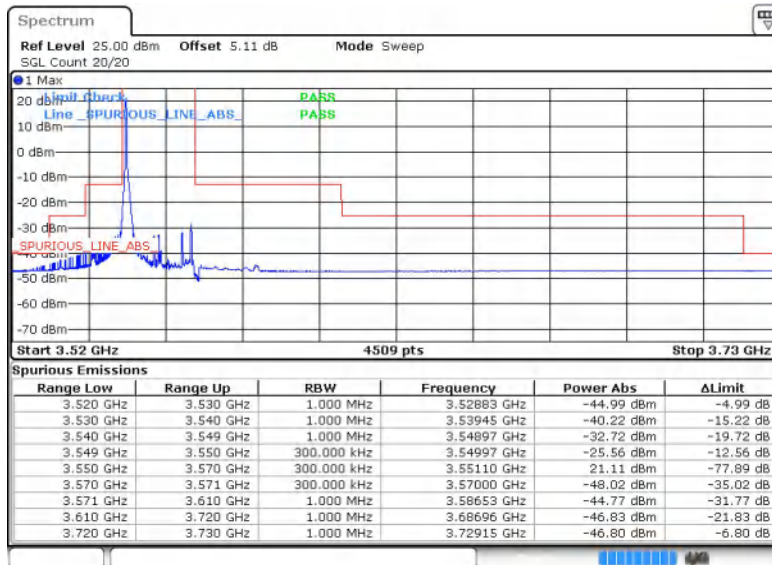


Band48-15MHz-QPSK-56665-75RB#0



Date: 8 NOV 2023 09:56:49

Band48-20MHz-QPSK-55340-1RB#0



Date: 8 NOV 2023 10:00:33

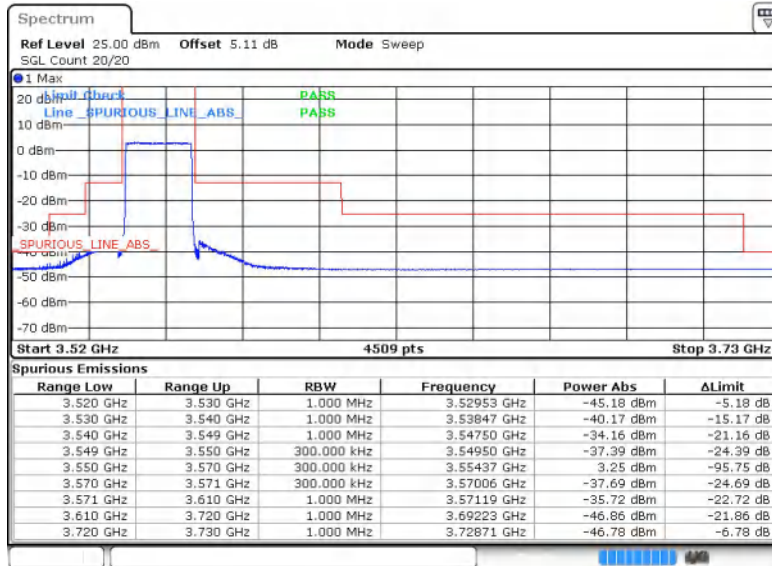


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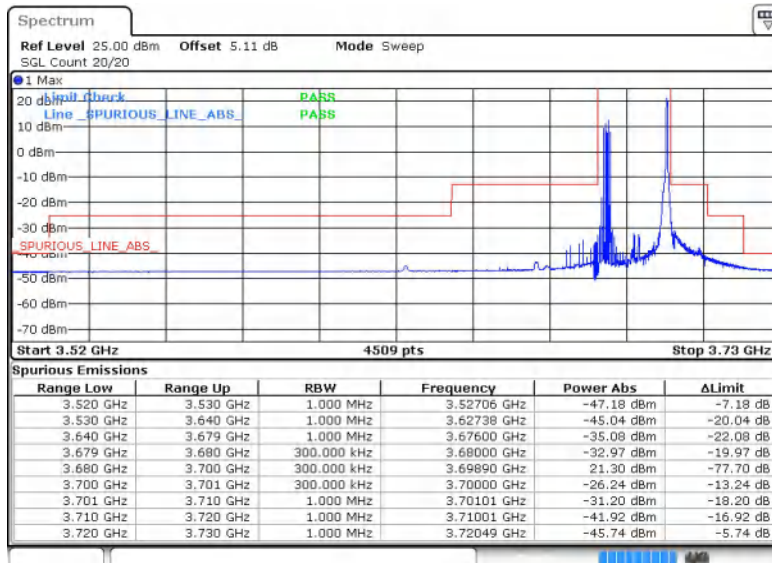
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### Band48-20MHz-QPSK-55340-100RB#0



Date: 8 NOV 2023 10:03:56

### Band48-20MHz-QPSK-56640-1RB#99



Date: 8 NOV 2023 10:07:25



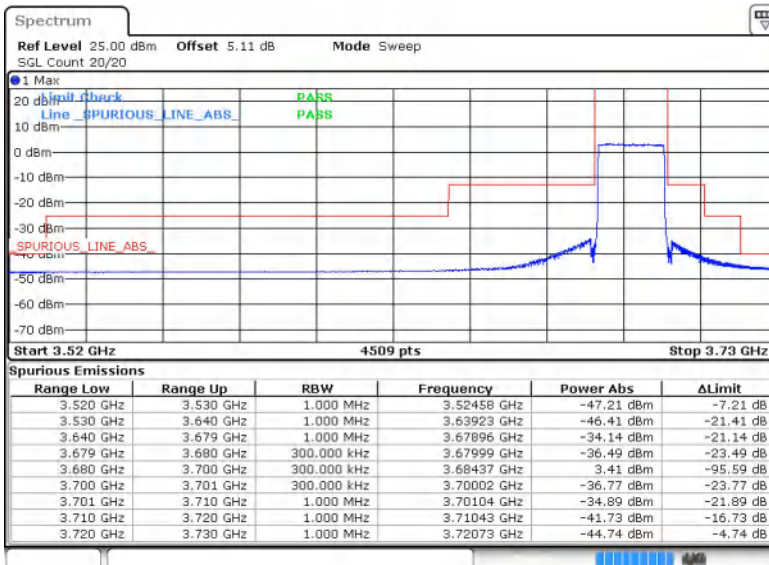
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Band48-20MHz-QPSK-56640-100RB#0



Date: 8 NOV 2023 10:10:48



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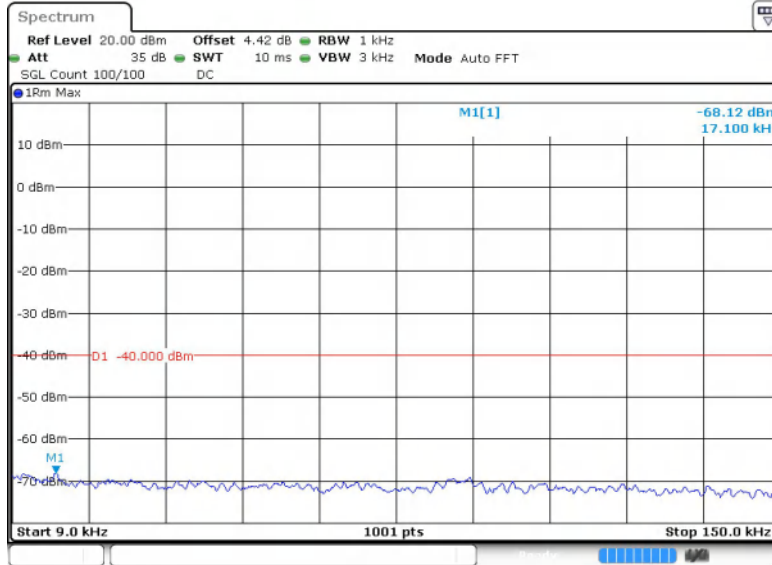
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### Conducted Spurious Emission

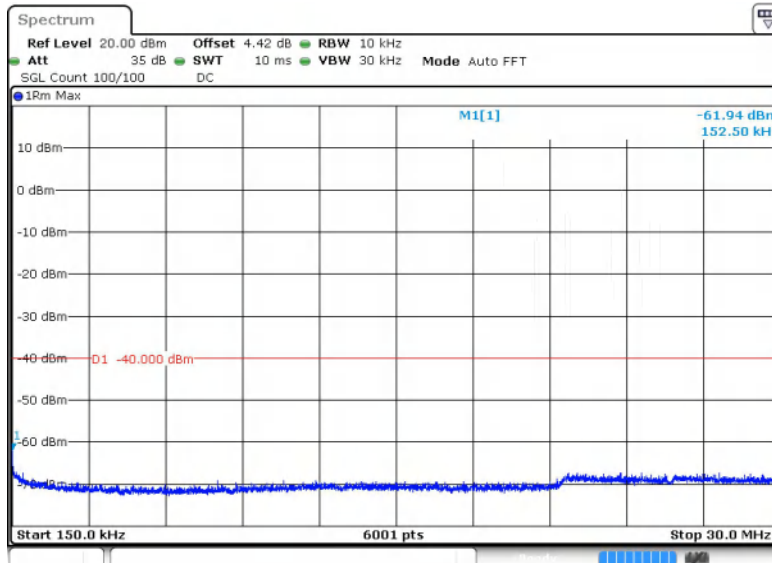
#### Test Graphs

Band48-20MHz-QPSK-55340-1RB#0-Range1:0.009~0.15MHz



Date: 14.NOV.2023 17:10:03

Band48-20MHz-QPSK-55340-1RB#0-Range2:0.15~30MHz



Date: 14.NOV.2023 17:10:10

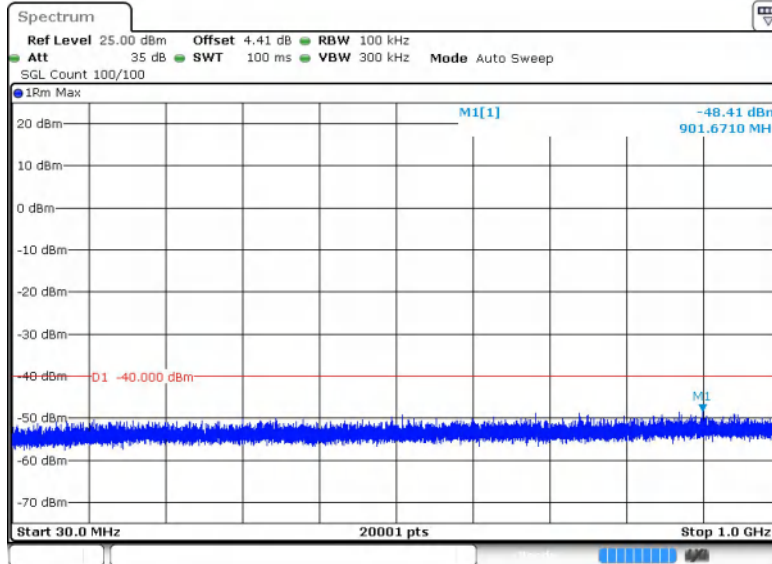


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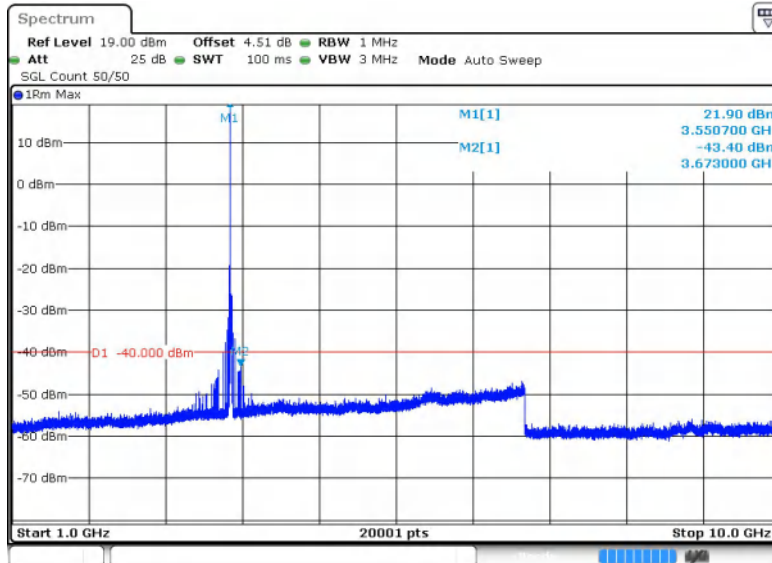
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### Band48-20MHz-QPSK-55340-1RB#0-Range3:30~1000MHz



Date: 14.NOV.2023 17:10:26

### Band48-20MHz-QPSK-55340-1RB#0-Range4:1000~10000MHz



Date: 14.NOV.2023 17:10:39



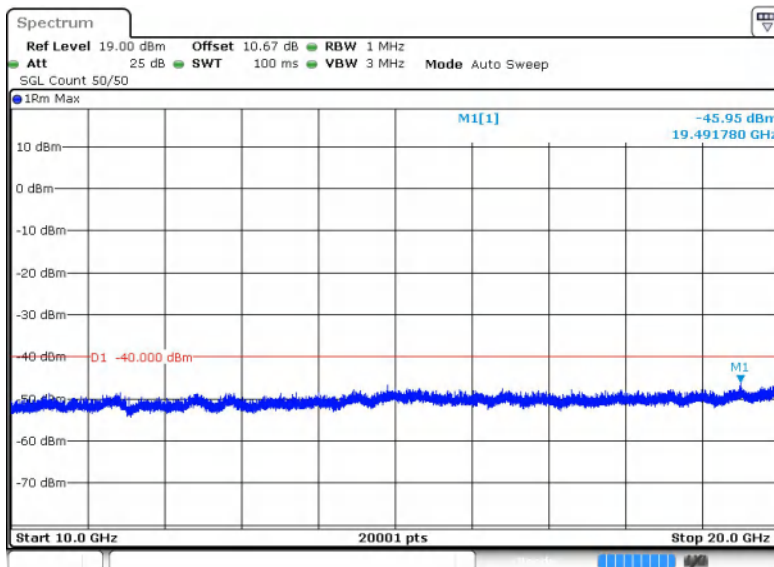
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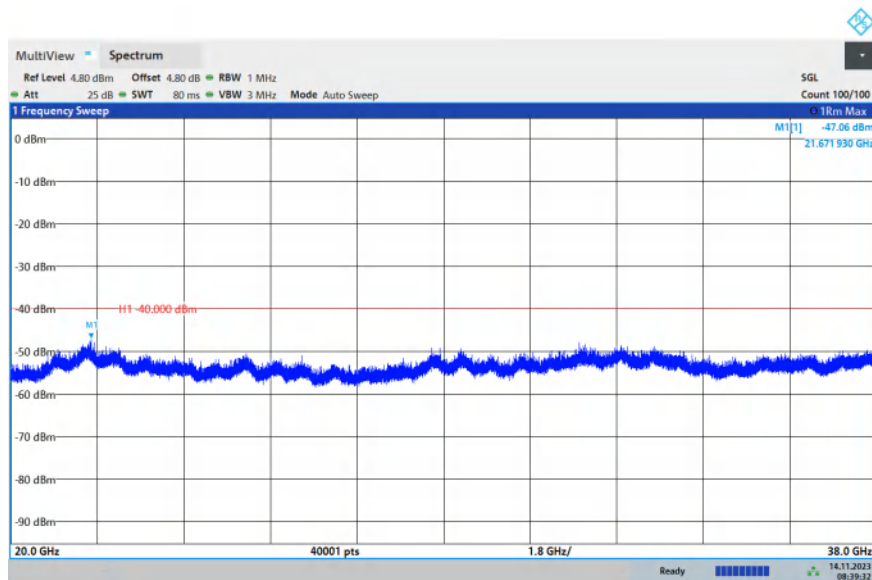


Band48-20MHz-QPSK-55340-1RB#0-Range5:10000~20000MHz



Date: 14.NOV.2023 17:10:52

Band48-20MHz-QPSK-55340-1RB#0-Range6:20000~38000MHz

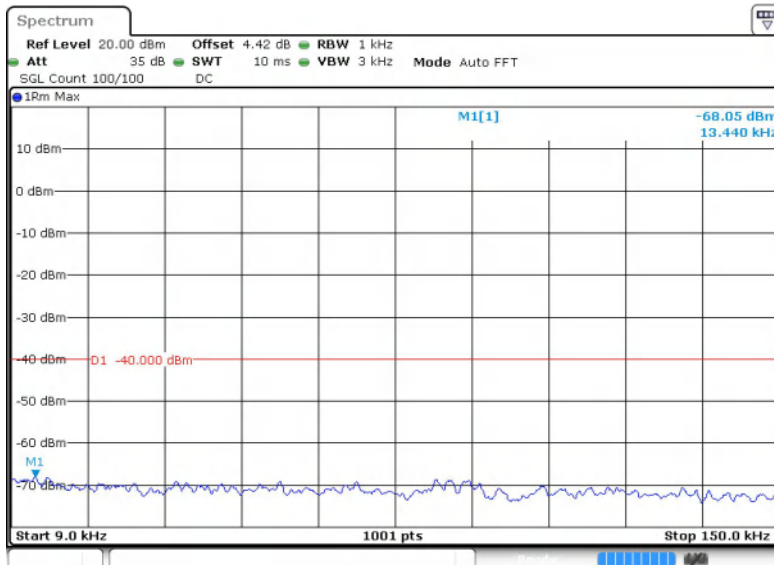


08:39:33 14.11.2023



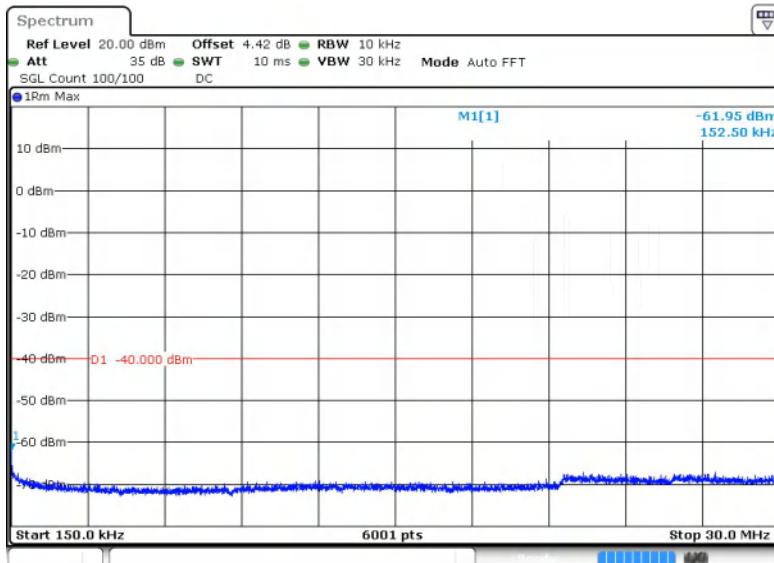
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### Band48-20MHz-QPSK-55990-1RB#0-Range1:0.009~0.15MHz



Date: 14.NOV.2023 17:11:20

### Band48-20MHz-QPSK-55990-1RB#0-Range2:0.15~30MHz



Date: 14.NOV.2023 17:11:27

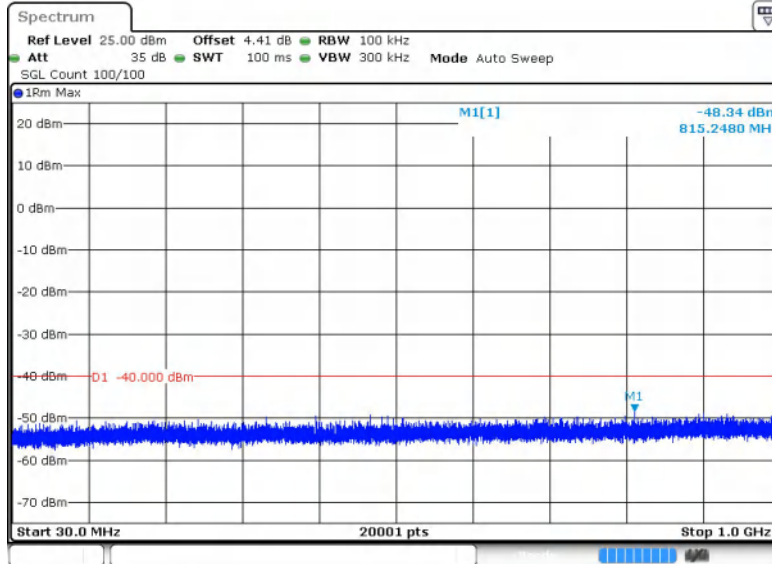


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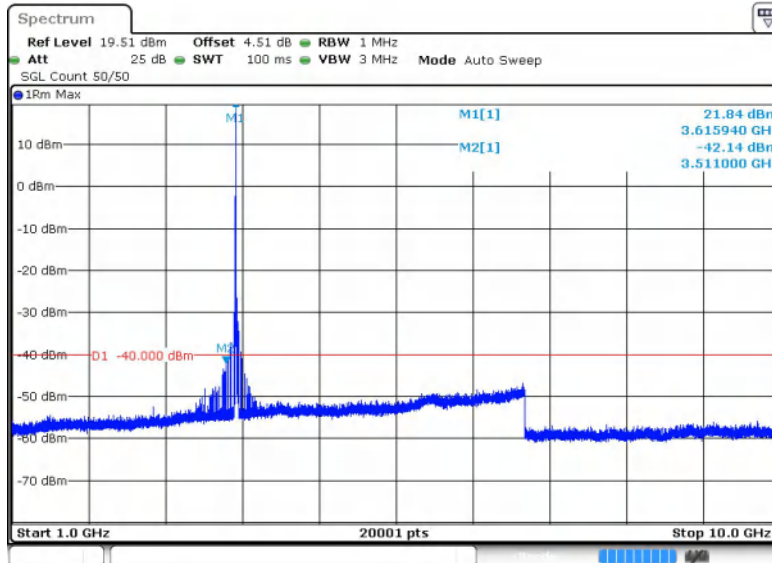
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### Band48-20MHz-QPSK-55990-1RB#0-Range3:30~1000MHz



Date: 14.NOV.2023 17:11:43

### Band48-20MHz-QPSK-55990-1RB#0-Range4:1000~10000MHz



Date: 14.NOV.2023 17:13:38



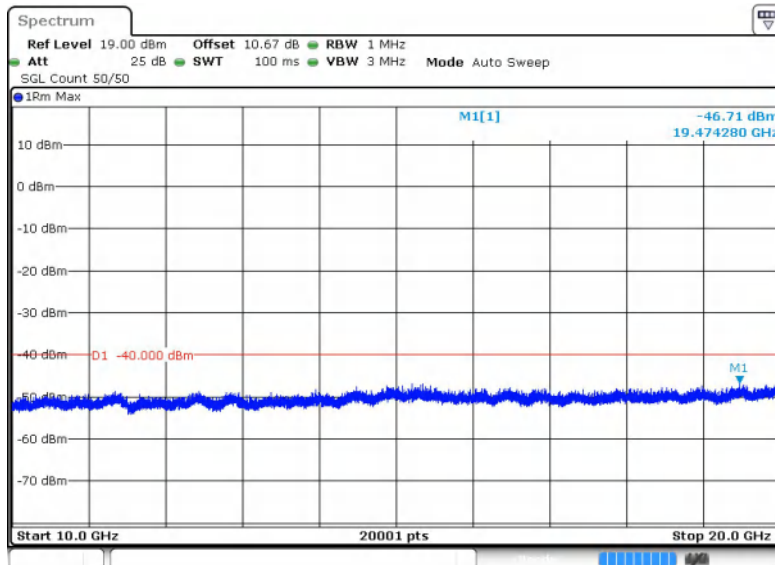
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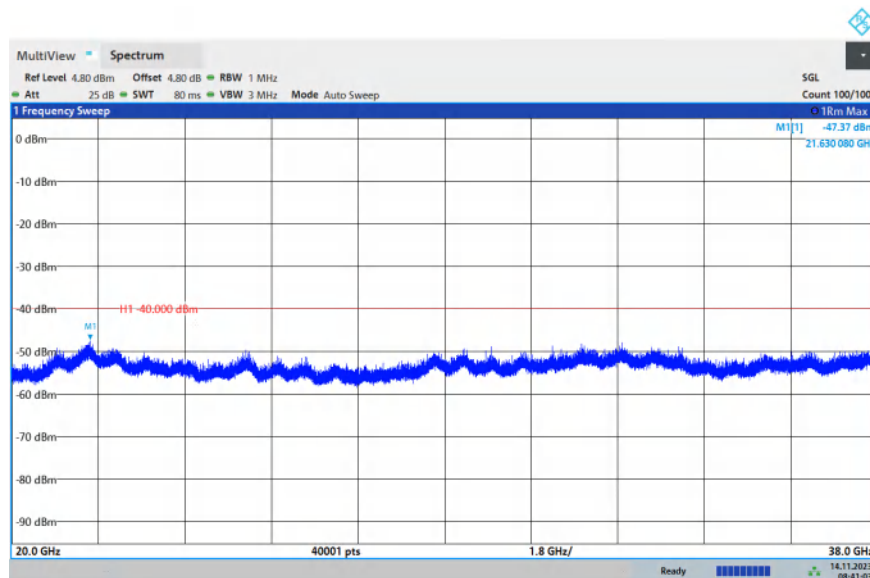


Band48-20MHz-QPSK-55990-1RB#0-Range5:10000~20000MHz



Date: 14.NOV.2023 17:13:51

Band48-20MHz-QPSK-55990-1RB#0-Range6:20000~38000MHz



08:41:03 14.11.2023

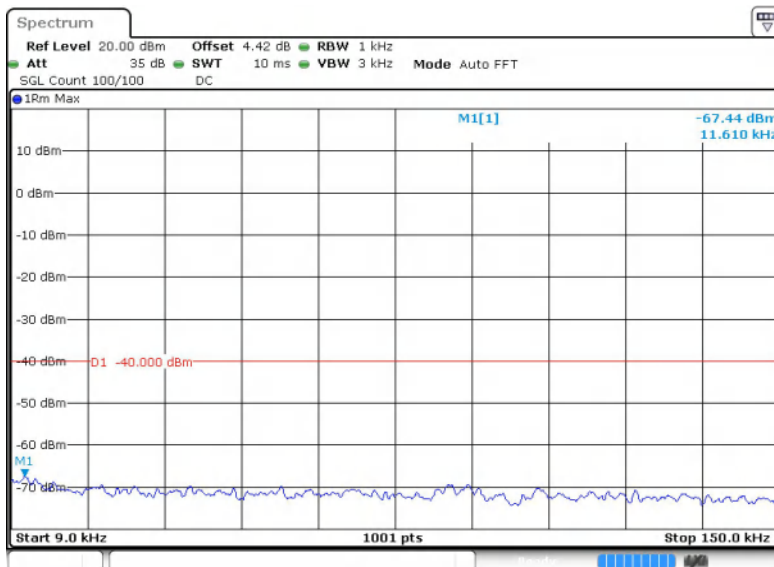


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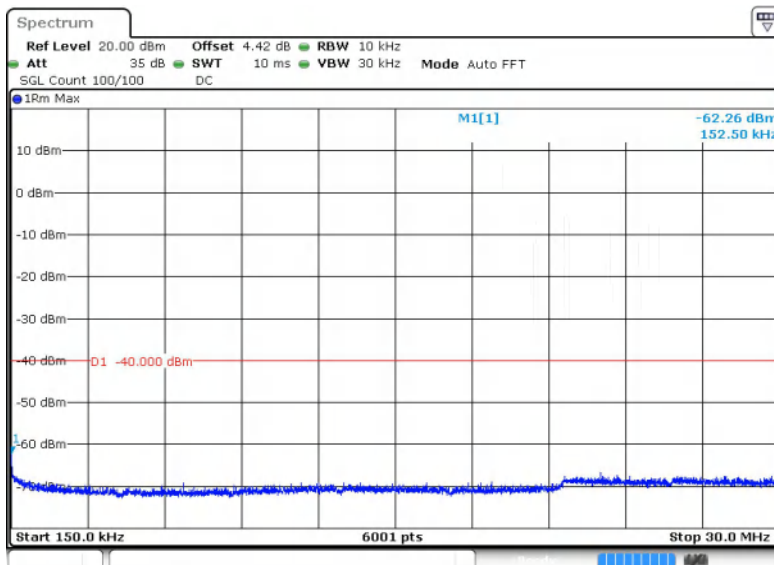
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### Band48-20MHz-QPSK-56640-1RB#0-Range1:0.009~0.15MHz



Date: 14.NOV.2023 17:14:09

### Band48-20MHz-QPSK-56640-1RB#0-Range2:0.15~30MHz



Date: 14.NOV.2023 17:14:16



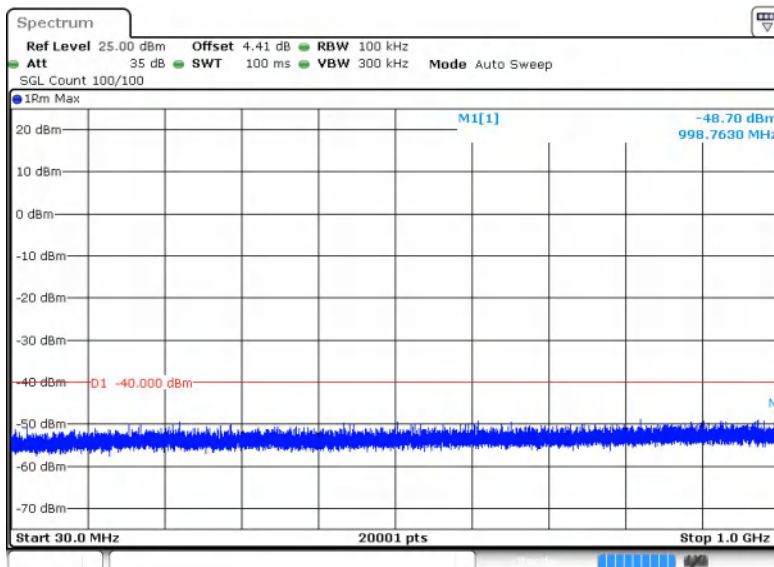
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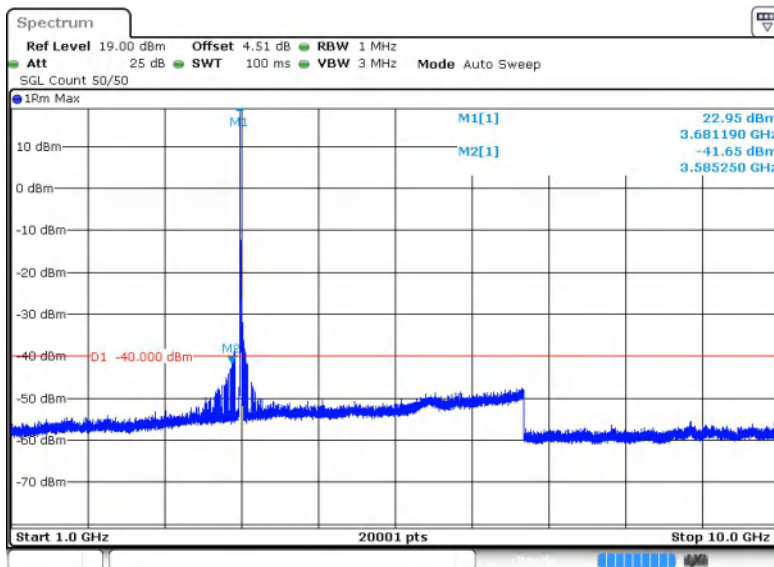


Band48-20MHz-QPSK-56640-1RB#0-Range3:30~1000MHz



Date: 14.NOV.2023 17:14:32

Band48-20MHz-QPSK-56640-1RB#0-Range4:1000~10000MHz



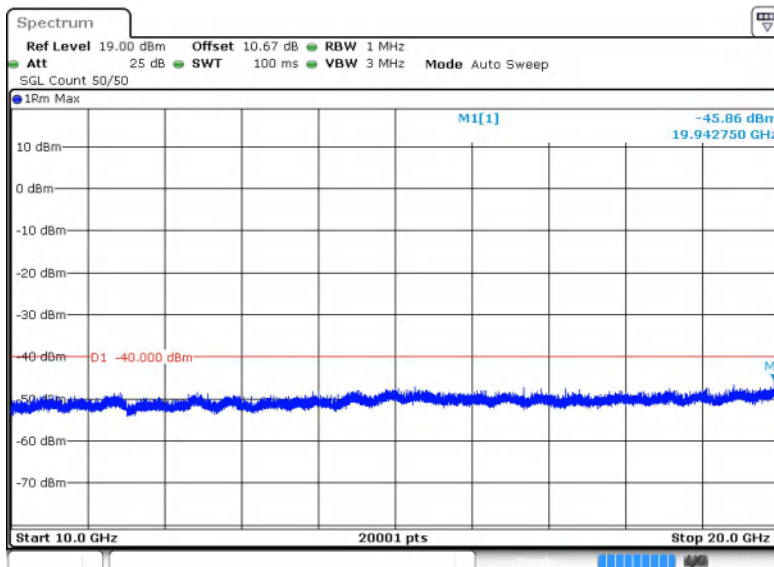
Date: 14.NOV.2023 17:14:44



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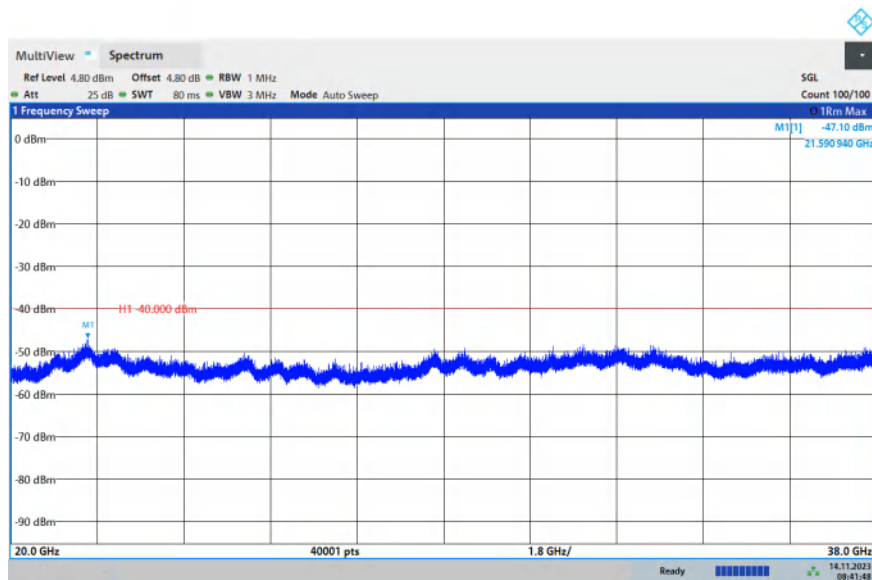


Band48-20MHz-QPSK-56640-1RB#0-Range5:10000~20000MHz



Date: 14.NOV.2023 17:14:57

Band48-20MHz-QPSK-56640-1RB#0-Range6:20000~38000MHz



08:41:49 14.11.2023



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## Field Strength of Spurious Radiation

Test Band = B48\_ TM1

Test Channel = Low channel

### Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | AF<br>[dB/m] | Factor<br>[dB] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
|-----|--------------------|-------------------|--------------|----------------|----------------|----------------|----------------|------------|
| 1   | 7109.5305          | 43.96             | 35.93        | -45.21         | -60.58         | -40.00         | 20.58          | Horizontal |
| 2   | 8448.1974          | 42.03             | 36.16        | -43.49         | -60.56         | -40.00         | 20.56          | Horizontal |
| 3   | 9960.523           | 39.71             | 38.31        | -40.91         | -58.15         | -40.00         | 18.15          | Horizontal |
| 4   | 10651.1326         | 37.95             | 39.18        | -39.83         | -57.96         | -40.00         | 17.96          | Horizontal |
| 5   | 14214.0107         | 36.91             | 41.52        | -37.98         | -54.81         | -40.00         | 14.81          | Horizontal |
| 6   | 17747.5624         | 35.16             | 45.56        | -35.83         | -50.37         | -40.00         | 10.37          | Horizontal |

### Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | AF<br>[dB/m] | Factor<br>[dB] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
|-----|--------------------|-------------------|--------------|----------------|----------------|----------------|----------------|----------|
| 1   | 7102.0551          | 47.69             | 35.92        | -45.26         | -56.91         | -40.00         | 16.91          | Vertical |
| 2   | 7968.6234          | 45.00             | 36.21        | -44.09         | -58.14         | -40.00         | 18.14          | Vertical |
| 3   | 9834.5917          | 39.56             | 38.02        | -41.05         | -58.73         | -40.00         | 18.73          | Vertical |
| 4   | 10655.1578         | 38.29             | 39.19        | -39.78         | -57.56         | -40.00         | 17.56          | Vertical |
| 5   | 14217.4609         | 36.54             | 41.52        | -37.95         | -55.15         | -40.00         | 15.15          | Vertical |
| 6   | 17738.3619         | 34.96             | 45.51        | -35.78         | -50.57         | -40.00         | 10.57          | Vertical |



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**Test Band = B48\_TM1**

**Test Channel = Mid channel**

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | AF<br>[dB/m] | Factor<br>[dB] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
|-----|--------------------|-------------------|--------------|----------------|----------------|----------------|----------------|------------|
| 1   | 7246.3873          | 43.67             | 36.10        | -45.04         | -60.53         | -40.00         | 20.53          | Horizontal |
| 2   | 8674.7587          | 42.10             | 36.13        | -43.07         | -60.10         | -40.00         | 20.10          | Horizontal |
| 3   | 9655.7578          | 40.03             | 37.61        | -41.72         | -59.34         | -40.00         | 19.34          | Horizontal |
| 4   | 10850.6675         | 36.94             | 39.42        | -39.41         | -58.31         | -40.00         | 18.31          | Horizontal |
| 5   | 14466.4483         | 36.77             | 41.55        | -37.90         | -54.84         | -40.00         | 14.84          | Horizontal |
| 6   | 17345.0423         | 34.28             | 43.43        | -36.53         | -54.08         | -40.00         | 14.08          | Horizontal |

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | AF<br>[dB/m] | Factor<br>[dB] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
|-----|--------------------|-------------------|--------------|----------------|----------------|----------------|----------------|----------|
| 1   | 7232.0116          | 46.90             | 36.08        | -44.92         | -57.20         | -40.00         | 17.20          | Vertical |
| 2   | 8436.6968          | 42.36             | 36.16        | -43.48         | -60.22         | -40.00         | 20.22          | Vertical |
| 3   | 9761.5631          | 39.80             | 37.85        | -41.39         | -59.00         | -40.00         | 19.00          | Vertical |
| 4   | 10863.3182         | 37.28             | 39.44        | -39.35         | -57.89         | -40.00         | 17.89          | Vertical |
| 5   | 14463.5732         | 37.74             | 41.55        | -37.87         | -53.84         | -40.00         | 13.84          | Vertical |
| 6   | 17384.7192         | 33.59             | 43.64        | -36.23         | -54.26         | -40.00         | 14.26          | Vertical |



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**Test Band = B48\_ TM1**

**Test Channel = High channel**

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | AF<br>[dB/m] | Factor<br>[dB] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
|-----|--------------------|-------------------|--------------|----------------|----------------|----------------|----------------|------------|
| 1   | 7345.8673          | 44.03             | 36.22        | -45.05         | -60.06         | -40.00         | 20.06          | Horizontal |
| 2   | 8340.667           | 42.42             | 36.17        | -43.59         | -60.26         | -40.00         | 20.26          | Horizontal |
| 3   | 9606.3053          | 40.26             | 37.49        | -41.87         | -59.38         | -40.00         | 19.38          | Horizontal |
| 4   | 11051.3526         | 37.45             | 39.61        | -39.25         | -57.45         | -40.00         | 17.45          | Horizontal |
| 5   | 14755.1128         | 36.20             | 41.58        | -37.27         | -54.75         | -40.00         | 14.75          | Horizontal |
| 6   | 17020.726          | 34.89             | 41.71        | -36.31         | -54.97         | -40.00         | 14.97          | Horizontal |

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | AF<br>[dB/m] | Factor<br>[dB] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
|-----|--------------------|-------------------|--------------|----------------|----------------|----------------|----------------|----------|
| 1   | 7342.9922          | 45.76             | 36.21        | -45.07         | -58.36         | -40.00         | 18.36          | Vertical |
| 2   | 8343.5422          | 42.43             | 36.17        | -43.59         | -60.25         | -40.00         | 20.25          | Vertical |
| 3   | 9247.4874          | 41.30             | 36.67        | -42.28         | -59.57         | -40.00         | 19.57          | Vertical |
| 4   | 11049.6275         | 37.44             | 39.61        | -39.26         | -57.47         | -40.00         | 17.47          | Vertical |
| 5   | 14719.461          | 36.30             | 41.57        | -37.29         | -54.68         | -40.00         | 14.68          | Vertical |
| 6   | 17030.5015         | 35.23             | 41.76        | -36.36         | -54.63         | -40.00         | 14.63          | 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 |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | VL            | NT               | 8.80           | 0.002428        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | VN            | NT               | 13.30          | 0.003669        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | VH            | NT               | 6.30           | 0.001738        | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | -30              | 9.10           | 0.002510        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | -20              | 3.80           | 0.001048        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | -10              | 3.40           | 0.000932        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 0                | 7.20           | 0.001986        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 10               | 4.20           | 0.001159        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 20               | 3.20           | 0.000883        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 30               | 2.10           | 0.000579        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 40               | 6.00           | 0.001655        | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 50               | 2.00           | 0.000552        | PASS    |

---End of Attachment---



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