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# Appendix B.17

## LTE Band 48



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## 1. Effective (Isotropic) Radiated Power Output Data Test Result ANT1

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm/10MHz) | EIRP (dBm/10MHz) | Limit (dBm/10MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------|------------------|-------------------|---------|
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#0            | 23.72              | 17.6             | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#12           | 23.80              | 17.68            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#24           | 23.67              | 17.55            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 25RB#0           | 22.85              | 16.73            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#0            | 23.65              | 17.53            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#12           | 23.81              | 17.69            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#24           | 23.74              | 17.62            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 25RB#0           | 22.85              | 16.73            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#0            | 24.19              | 18.07            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#12           | 24.15              | 18.03            | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#24           | 24.12              | 18               | 23                | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 25RB#0           | 23.21              | 17.09            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 1RB#0            | 22.90              | 16.78            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 1RB#12           | 22.92              | 16.8             | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 1RB#24           | 22.84              | 16.72            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 25RB#0           | 21.84              | 15.72            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 1RB#0            | 22.87              | 16.75            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 1RB#12           | 22.96              | 16.84            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 1RB#24           | 22.83              | 16.71            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 25RB#0           | 21.82              | 15.7             | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 56715   | 1RB#0            | 23.31              | 17.19            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 56715   | 1RB#12           | 23.26              | 17.14            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 56715   | 1RB#24           | 23.23              | 17.11            | 23                | PASS    |
| Band48 | 5MHz      | 16QAM      | 56715   | 25RB#0           | 22.19              | 16.07            | 23                | PASS    |
| Band48 | 5MHz      | 64QAM      | 55265   | 1RB#0            | 22.14              | 16.02            | 23                | PASS    |



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|--------|-------|--------|-------|--------|-------|-------|----|------|
| Band48 | 5MHz  | 64QAM  | 55265 | 1RB#12 | 22.28 | 16.16 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 55265 | 1RB#24 | 21.96 | 15.84 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 55265 | 25RB#0 | 20.82 | 14.7  | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 55990 | 1RB#0  | 22.03 | 15.91 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 55990 | 1RB#12 | 22.21 | 16.09 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 55990 | 1RB#24 | 22.11 | 15.99 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 55990 | 25RB#0 | 20.85 | 14.73 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 56715 | 1RB#0  | 22.44 | 16.32 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 56715 | 1RB#12 | 22.47 | 16.35 | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 56715 | 1RB#24 | 22.52 | 16.4  | 23 | PASS |
| Band48 | 5MHz  | 64QAM  | 56715 | 25RB#0 | 21.24 | 15.12 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55265 | 1RB#0  | 18.90 | 12.78 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55265 | 1RB#12 | 18.94 | 12.82 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55265 | 1RB#24 | 18.81 | 12.69 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55265 | 25RB#0 | 17.81 | 11.69 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55990 | 1RB#0  | 18.74 | 12.62 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55990 | 1RB#12 | 19.03 | 12.91 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55990 | 1RB#24 | 18.91 | 12.79 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 55990 | 25RB#0 | 17.84 | 11.72 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 56715 | 1RB#0  | 19.24 | 13.12 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 56715 | 1RB#12 | 19.31 | 13.19 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 56715 | 1RB#24 | 19.36 | 13.24 | 23 | PASS |
| Band48 | 5MHz  | 256QAM | 56715 | 25RB#0 | 18.19 | 12.07 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55290 | 1RB#0  | 23.60 | 17.48 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55290 | 1RB#24 | 23.65 | 17.53 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55290 | 1RB#49 | 23.60 | 17.48 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55290 | 50RB#0 | 22.77 | 16.65 | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55990 | 1RB#0  | 23.72 | 17.6  | 23 | PASS |
| Band48 | 10MHz | QPSK   | 55990 | 1RB#24 | 23.61 | 17.49 | 23 | PASS |



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| Band48 | 10MHz | QPSK  | 55990 | 1RB#49 | 23.67 | 17.55 | 23 | PASS |
| Band48 | 10MHz | QPSK  | 55990 | 50RB#0 | 22.83 | 16.71 | 23 | PASS |
| Band48 | 10MHz | QPSK  | 56690 | 1RB#0  | 24.13 | 18.01 | 23 | PASS |
| Band48 | 10MHz | QPSK  | 56690 | 1RB#24 | 24.01 | 17.89 | 23 | PASS |
| Band48 | 10MHz | QPSK  | 56690 | 1RB#49 | 23.99 | 17.87 | 23 | PASS |
| Band48 | 10MHz | QPSK  | 56690 | 50RB#0 | 23.08 | 16.96 | 23 | PASS |
| Band48 | 10MHz | 16QAM | 55290 | 1RB#0  | 22.87 | 16.75 | 23 | PASS |
| Band48 | 10MHz | 16QAM | 55290 | 1RB#24 | 22.73 | 16.61 | 23 | PASS |
| Band48 | 10MHz | 16QAM | 55290 | 1RB#49 | 22.85 | 16.73 | 23 | PASS |
| Band48 | 10MHz | 16QAM | 55290 | 50RB#0 | 21.72 | 15.6  | 23 | PASS |
| Band48 | 10MHz | 16QAM | 55990 | 1RB#0  | 22.71 | 16.59 | 23 | PASS |
| Band48 | 10MHz | 16QAM | 55990 | 1RB#24 | 22.74 | 16.62 | 23 | PASS |
| Band48 | 10MHz | 16QAM | 55990 | 1RB#49 | 22.90 | 16.78 | 23 | PASS |
| Band48 | 10MHz | 16QAM | 55990 | 50RB#0 | 21.86 | 15.74 | 23 | PASS |
| Band48 | 10MHz | 16QAM | 56690 | 1RB#0  | 23.10 | 16.98 | 23 | PASS |
| Band48 | 10MHz | 16QAM | 56690 | 1RB#24 | 23.26 | 17.14 | 23 | PASS |
| Band48 | 10MHz | 16QAM | 56690 | 1RB#49 | 23.25 | 17.13 | 23 | PASS |
| Band48 | 10MHz | 16QAM | 56690 | 50RB#0 | 22.06 | 15.94 | 23 | PASS |
| Band48 | 10MHz | 64QAM | 55290 | 1RB#0  | 21.89 | 15.77 | 23 | PASS |
| Band48 | 10MHz | 64QAM | 55290 | 1RB#24 | 21.99 | 15.87 | 23 | PASS |
| Band48 | 10MHz | 64QAM | 55290 | 1RB#49 | 22.08 | 15.96 | 23 | PASS |
| Band48 | 10MHz | 64QAM | 55290 | 50RB#0 | 20.78 | 14.66 | 23 | PASS |
| Band48 | 10MHz | 64QAM | 55990 | 1RB#0  | 22.05 | 15.93 | 23 | PASS |
| Band48 | 10MHz | 64QAM | 55990 | 1RB#24 | 22.06 | 15.94 | 23 | PASS |
| Band48 | 10MHz | 64QAM | 55990 | 1RB#49 | 21.94 | 15.82 | 23 | PASS |
| Band48 | 10MHz | 64QAM | 55990 | 50RB#0 | 20.86 | 14.74 | 23 | PASS |
| Band48 | 10MHz | 64QAM | 56690 | 1RB#0  | 22.25 | 16.13 | 23 | PASS |
| Band48 | 10MHz | 64QAM | 56690 | 1RB#24 | 22.44 | 16.32 | 23 | PASS |
| Band48 | 10MHz | 64QAM | 56690 | 1RB#49 | 22.40 | 16.28 | 23 | PASS |



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| Band48 | 10MHz | 64QAM  | 56690 | 50RB#0 | 21.09 | 14.97 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55290 | 1RB#0  | 18.68 | 12.56 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55290 | 1RB#24 | 18.86 | 12.74 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55290 | 1RB#49 | 18.86 | 12.74 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55290 | 50RB#0 | 17.73 | 11.61 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55990 | 1RB#0  | 18.75 | 12.63 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55990 | 1RB#24 | 18.85 | 12.73 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55990 | 1RB#49 | 18.95 | 12.83 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 55990 | 50RB#0 | 17.87 | 11.75 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 56690 | 1RB#0  | 19.02 | 12.9  | 23 | PASS |
| Band48 | 10MHz | 256QAM | 56690 | 1RB#24 | 19.29 | 13.17 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 56690 | 1RB#49 | 19.21 | 13.09 | 23 | PASS |
| Band48 | 10MHz | 256QAM | 56690 | 50RB#0 | 18.06 | 11.94 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55315 | 1RB#0  | 23.59 | 17.47 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55315 | 1RB#38 | 23.55 | 17.43 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55315 | 1RB#74 | 23.64 | 17.52 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55315 | 75RB#0 | 22.71 | 16.59 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55990 | 1RB#0  | 23.69 | 17.57 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55990 | 1RB#38 | 23.59 | 17.47 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55990 | 1RB#74 | 23.66 | 17.54 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 55990 | 75RB#0 | 22.70 | 16.58 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 56665 | 1RB#0  | 24.06 | 17.94 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 56665 | 1RB#38 | 23.91 | 17.79 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 56665 | 1RB#74 | 23.98 | 17.86 | 23 | PASS |
| Band48 | 15MHz | QPSK   | 56665 | 75RB#0 | 22.99 | 16.87 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55315 | 1RB#0  | 22.62 | 16.5  | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55315 | 1RB#38 | 22.74 | 16.62 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55315 | 1RB#74 | 22.71 | 16.59 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55315 | 75RB#0 | 21.72 | 15.6  | 23 | PASS |



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| Band48 | 15MHz | 16QAM  | 55990 | 1RB#0  | 22.62 | 16.5  | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55990 | 1RB#38 | 22.82 | 16.7  | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55990 | 1RB#74 | 22.81 | 16.69 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 55990 | 75RB#0 | 21.72 | 15.6  | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 56665 | 1RB#0  | 22.99 | 16.87 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 56665 | 1RB#38 | 23.13 | 17.01 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 56665 | 1RB#74 | 23.11 | 16.99 | 23 | PASS |
| Band48 | 15MHz | 16QAM  | 56665 | 75RB#0 | 22.00 | 15.88 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55315 | 1RB#0  | 21.86 | 15.74 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55315 | 1RB#38 | 22.05 | 15.93 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55315 | 1RB#74 | 22.07 | 15.95 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55315 | 75RB#0 | 20.71 | 14.59 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55990 | 1RB#0  | 21.85 | 15.73 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55990 | 1RB#38 | 22.06 | 15.94 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55990 | 1RB#74 | 22.02 | 15.9  | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 55990 | 75RB#0 | 20.74 | 14.62 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 1RB#0  | 22.32 | 16.2  | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 1RB#38 | 22.35 | 16.23 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 1RB#74 | 22.37 | 16.25 | 23 | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 75RB#0 | 21.00 | 14.88 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 1RB#0  | 18.59 | 12.47 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 1RB#38 | 18.79 | 12.67 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 1RB#74 | 18.79 | 12.67 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 75RB#0 | 17.71 | 11.59 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 1RB#0  | 18.55 | 12.43 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 1RB#38 | 18.95 | 12.83 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 1RB#74 | 18.90 | 12.78 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 75RB#0 | 17.70 | 11.58 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 56665 | 1RB#0  | 19.02 | 12.9  | 23 | PASS |



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|--------|-------|--------|-------|---------|-------|-------|----|------|
| Band48 | 15MHz | 256QAM | 56665 | 1RB#38  | 19.26 | 13.14 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 56665 | 1RB#74  | 19.14 | 13.02 | 23 | PASS |
| Band48 | 15MHz | 256QAM | 56665 | 75RB#0  | 17.96 | 11.84 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 1RB#0   | 23.54 | 17.42 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 1RB#49  | 23.63 | 17.51 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 1RB#99  | 23.66 | 17.54 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 100RB#0 | 22.75 | 16.63 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 1RB#0   | 23.76 | 17.64 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 1RB#49  | 23.63 | 17.51 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 1RB#99  | 23.71 | 17.59 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 100RB#0 | 22.76 | 16.64 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 1RB#0   | 24.13 | 18.01 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 1RB#49  | 24.03 | 17.91 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 1RB#99  | 24.04 | 17.92 | 23 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 100RB#0 | 23.03 | 16.91 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 1RB#0   | 22.70 | 16.58 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 1RB#49  | 22.88 | 16.76 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 1RB#99  | 22.87 | 16.75 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 100RB#0 | 21.76 | 15.64 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 1RB#0   | 22.74 | 16.62 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 1RB#49  | 22.82 | 16.7  | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 1RB#99  | 22.89 | 16.77 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 100RB#0 | 21.77 | 15.65 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 1RB#0   | 22.99 | 16.87 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 1RB#49  | 23.30 | 17.18 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 1RB#99  | 23.20 | 17.08 | 23 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 100RB#0 | 22.03 | 15.91 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 1RB#0   | 22.04 | 15.92 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 1RB#49  | 22.09 | 15.97 | 23 | PASS |



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|--------|-------|--------|-------|---------|-------|-------|----|------|
| Band48 | 20MHz | 64QAM  | 55340 | 1RB#99  | 22.06 | 15.94 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 100RB#0 | 20.75 | 14.63 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 1RB#0   | 21.90 | 15.78 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 1RB#49  | 22.08 | 15.96 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 1RB#99  | 22.13 | 16.01 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 100RB#0 | 20.75 | 14.63 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 1RB#0   | 22.21 | 16.09 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 1RB#49  | 22.50 | 16.38 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 1RB#99  | 22.44 | 16.32 | 23 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 100RB#0 | 21.03 | 14.91 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 1RB#0   | 18.68 | 12.56 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 1RB#49  | 18.84 | 12.72 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 1RB#99  | 18.80 | 12.68 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 100RB#0 | 17.73 | 11.61 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 1RB#0   | 18.65 | 12.53 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 1RB#49  | 18.94 | 12.82 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 1RB#99  | 18.95 | 12.83 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 100RB#0 | 17.75 | 11.63 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 1RB#0   | 19.10 | 12.98 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 1RB#49  | 19.31 | 13.19 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 1RB#99  | 19.29 | 13.17 | 23 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 100RB#0 | 17.99 | 11.87 | 23 | PASS |



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## 2. Frequency Stability

### 2.1 B48\_5MHz

#### 2.1.1 Test Result

| Band: 48 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |       |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |       | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit |         |
| QPSK                       | 3552.5          | 25            | 0      | 20         | 3.3           | 5.300            | 0.0015                | /     | Pass    |
|                            |                 |               |        |            | 3.8           | 4.400            | 0.0012                | /     | Pass    |
|                            |                 |               |        |            | 4.4           | 1.300            | 0.0004                | /     | Pass    |
|                            |                 |               |        | -30        | 3.8           | -1.300           | -0.0004               | /     | Pass    |
|                            |                 |               |        | -20        | 3.8           | 0.800            | 0.0002                | /     | Pass    |
|                            |                 |               |        | -10        | 3.8           | -0.800           | -0.0002               | /     | Pass    |
|                            |                 |               |        | 0          | 3.8           | -2.000           | -0.0006               | /     | Pass    |
|                            |                 |               |        | 10         | 3.8           | 4.300            | 0.0012                | /     | Pass    |
|                            |                 |               |        | 30         | 3.8           | 2.300            | 0.0006                | /     | Pass    |
|                            |                 |               |        | 40         | 3.8           | 0.600            | 0.0002                | /     | Pass    |
|                            |                 |               |        | 50         | 3.8           | -2.000           | -0.0006               | /     | Pass    |
|                            | 3625            | 25            | 0      | 20         | 3.3           | 4.400            | 0.0012                | /     | Pass    |
|                            |                 |               |        |            | 3.8           | 4.000            | 0.0011                | /     | Pass    |
|                            |                 |               |        |            | 4.4           | 6.200            | 0.0017                | /     | Pass    |
|                            |                 |               |        | -30        | 3.8           | 2.600            | 0.0007                | /     | Pass    |
|                            |                 |               |        | -20        | 3.8           | 5.900            | 0.0016                | /     | Pass    |
|                            |                 |               |        | -10        | 3.8           | 2.800            | 0.0008                | /     | Pass    |
|                            |                 |               |        | 0          | 3.8           | 2.300            | 0.0006                | /     | Pass    |
|                            |                 |               |        | 10         | 3.8           | 2.200            | 0.0006                | /     | Pass    |
|                            |                 |               |        | 30         | 3.8           | 2.400            | 0.0007                | /     | Pass    |
|                            |                 |               |        | 40         | 3.8           | 3.400            | 0.0009                | /     | Pass    |
|                            |                 |               |        | 50         | 3.8           | 3.900            | 0.0011                | /     | Pass    |
|                            | 3697.5          | 25            | 0      | 20         | 3.3           | 4.500            | 0.0012                | /     | Pass    |
|                            |                 |               |        |            | 3.8           | 2.200            | 0.0006                | /     | Pass    |
|                            |                 |               |        |            | 4.4           | 1.100            | 0.0003                | /     | Pass    |
|                            |                 |               |        | -30        | 3.8           | -1.300           | -0.0004               | /     | Pass    |
|                            |                 |               |        | -20        | 3.8           | -2.000           | -0.0005               | /     | Pass    |
|                            |                 |               |        | -10        | 3.8           | 1.000            | 0.0003                | /     | Pass    |
|                            |                 |               |        | 0          | 3.8           | -0.600           | -0.0002               | /     | Pass    |
|                            |                 |               |        | 10         | 3.8           | 1.500            | 0.0004                | /     | Pass    |
|                            |                 |               |        | 30         | 3.8           | 0.500            | 0.0001                | /     | Pass    |
|                            |                 |               |        | 40         | 3.8           | -1.400           | -0.0004               | /     | Pass    |
|                            |                 |               |        | 50         | 3.8           | 3.500            | 0.0009                | /     | Pass    |
| 16QAM                      | 3552.5          | 25            | 0      | 20         | 3.3           | -0.800           | -0.0002               | /     | Pass    |
|                            |                 |               |        |            | 3.8           | -0.800           | -0.0002               | /     | Pass    |
|                            |                 |               |        |            | 4.4           | -0.300           | -0.0001               | /     | Pass    |
|                            |                 |               |        | -30        | 3.8           | 0.900            | 0.0003                | /     | Pass    |
|                            |                 |               |        | -20        | 3.8           | 1.700            | 0.0005                | /     | Pass    |
|                            |                 |               |        | -10        | 3.8           | 0.500            | 0.0001                | /     | Pass    |
|                            |                 |               |        | 0          | 3.8           | -0.200           | -0.0001               | /     | Pass    |



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|-------|--------|----|---|-----|-----|---------|---------|---|------|
| 64QAM | 3625   | 25 | 0 | 10  | 3.8 | 0.000   | 0.0000  | / | Pass |
|       |        |    |   | 30  | 3.8 | 4.400   | 0.0012  | / | Pass |
|       |        |    |   | 40  | 3.8 | 2.800   | 0.0008  | / | Pass |
|       |        |    |   | 50  | 3.8 | 0.100   | 0.0000  | / | Pass |
|       |        |    |   | 20  | 3.3 | 1.900   | 0.0005  | / | Pass |
|       |        |    |   |     | 3.8 | 4.200   | 0.0012  | / | Pass |
|       |        |    |   |     | 4.4 | 2.500   | 0.0007  | / | Pass |
|       |        |    |   | -30 | 3.8 | 6.500   | 0.0018  | / | Pass |
|       |        |    |   | -20 | 3.8 | 6.200   | 0.0017  | / | Pass |
|       |        |    |   | -10 | 3.8 | 6.300   | 0.0017  | / | Pass |
|       |        |    |   | 0   | 3.8 | 3.100   | 0.0009  | / | Pass |
|       |        |    |   | 10  | 3.8 | 5.600   | 0.0015  | / | Pass |
|       |        |    |   | 30  | 3.8 | 4.700   | 0.0013  | / | Pass |
|       |        |    |   | 40  | 3.8 | 2.500   | 0.0007  | / | Pass |
|       |        |    |   | 50  | 3.8 | 1.800   | 0.0005  | / | Pass |
|       | 3697.5 | 25 | 0 | 20  | 3.3 | 3.500   | 0.0009  | / | Pass |
|       |        |    |   |     | 3.8 | 2.600   | 0.0007  | / | Pass |
|       |        |    |   |     | 4.4 | 2.400   | 0.0006  | / | Pass |
|       |        |    |   | -30 | 3.8 | 2.000   | 0.0005  | / | Pass |
|       |        |    |   | -20 | 3.8 | 0.100   | 0.0000  | / | Pass |
|       |        |    |   | -10 | 3.8 | 0.700   | 0.0002  | / | Pass |
|       |        |    |   | 0   | 3.8 | 2.400   | 0.0006  | / | Pass |
|       |        |    |   | 10  | 3.8 | 0.900   | 0.0002  | / | Pass |
|       |        |    |   | 30  | 3.8 | -1.100  | -0.0003 | / | Pass |
|       |        |    |   | 40  | 3.8 | 1.800   | 0.0005  | / | Pass |
|       |        |    |   | 50  | 3.8 | -0.200  | -0.0001 | / | Pass |
|       | 3552.5 | 25 | 0 | 20  | 3.3 | -20.900 | -0.0059 | / | Pass |
|       |        |    |   |     | 3.8 | 23.700  | 0.0067  | / | Pass |
|       |        |    |   |     | 4.4 | 21.500  | 0.0061  | / | Pass |
|       |        |    |   | -30 | 3.8 | -6.800  | -0.0019 | / | Pass |
|       |        |    |   | -20 | 3.8 | 3.000   | 0.0008  | / | Pass |
|       |        |    |   | -10 | 3.8 | -17.900 | -0.0050 | / | Pass |
|       |        |    |   | 0   | 3.8 | -34.200 | -0.0096 | / | Pass |
|       |        |    |   | 10  | 3.8 | 40.900  | 0.0115  | / | Pass |
|       |        |    |   | 30  | 3.8 | 41.600  | 0.0117  | / | Pass |
|       |        |    |   | 40  | 3.8 | -49.700 | -0.0140 | / | Pass |
|       |        |    |   | 50  | 3.8 | -16.800 | -0.0047 | / | Pass |
|       | 3625   | 25 | 0 | 20  | 3.3 | -24.600 | -0.0068 | / | Pass |
|       |        |    |   |     | 3.8 | -0.600  | -0.0002 | / | Pass |
|       |        |    |   |     | 4.4 | -20.300 | -0.0056 | / | Pass |
|       |        |    |   | -30 | 3.8 | 36.400  | 0.0100  | / | Pass |
|       |        |    |   | -20 | 3.8 | 5.500   | 0.0015  | / | Pass |
|       |        |    |   | -10 | 3.8 | -30.300 | -0.0084 | / | Pass |
|       |        |    |   | 0   | 3.8 | -12.400 | -0.0034 | / | Pass |
|       |        |    |   | 10  | 3.8 | 18.300  | 0.0050  | / | Pass |
|       |        |    |   | 30  | 3.8 | -3.400  | -0.0009 | / | Pass |
|       |        |    |   | 40  | 3.8 | -43.800 | -0.0121 | / | Pass |
|       |        |    |   | 50  | 3.8 | 17.900  | 0.0049  | / | Pass |
|       | 3697.5 | 25 | 0 | 20  | 3.3 | 38.400  | 0.0104  | / | Pass |



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|--------|--------|----|---|-----|-----|---------|---------|---|------|
|        |        |    |   |     | 3.8 | -25.200 | -0.0068 | / | Pass |
|        |        |    |   |     | 4.4 | -5.100  | -0.0014 | / | Pass |
|        |        |    |   | -30 | 3.8 | 0.100   | 0.0000  | / | Pass |
|        |        |    |   | -20 | 3.8 | -4.800  | -0.0013 | / | Pass |
|        |        |    |   | -10 | 3.8 | -4.300  | -0.0012 | / | Pass |
|        |        |    |   | 0   | 3.8 | 0.700   | 0.0002  | / | Pass |
|        |        |    |   | 10  | 3.8 | 7.800   | 0.0021  | / | Pass |
|        |        |    |   | 30  | 3.8 | -24.800 | -0.0067 | / | Pass |
|        |        |    |   | 40  | 3.8 | 19.500  | 0.0053  | / | Pass |
|        |        |    |   | 50  | 3.8 | 14.000  | 0.0038  | / | Pass |
| 256QAM | 3552.5 | 25 | 0 | 20  | 3.3 | 1.700   | 0.0005  | / | Pass |
|        |        |    |   |     | 3.8 | 1.600   | 0.0005  | / | Pass |
|        |        |    |   |     | 4.4 | 5.100   | 0.0014  | / | Pass |
|        |        |    |   | -30 | 3.8 | -0.300  | -0.0001 | / | Pass |
|        |        |    |   | -20 | 3.8 | -0.900  | -0.0003 | / | Pass |
|        |        |    |   | -10 | 3.8 | 1.200   | 0.0003  | / | Pass |
|        |        |    |   | 0   | 3.8 | 4.200   | 0.0012  | / | Pass |
|        |        |    |   | 10  | 3.8 | 1.000   | 0.0003  | / | Pass |
|        |        |    |   | 30  | 3.8 | 5.400   | 0.0015  | / | Pass |
|        |        |    |   | 40  | 3.8 | 3.700   | 0.0010  | / | Pass |
|        |        |    |   | 50  | 3.8 | 3.500   | 0.0010  | / | Pass |
|        | 3625   | 25 | 0 | 20  | 3.3 | 4.200   | 0.0012  | / | Pass |
|        |        |    |   |     | 3.8 | 3.700   | 0.0010  | / | Pass |
|        |        |    |   |     | 4.4 | 3.800   | 0.0010  | / | Pass |
|        |        |    |   | -30 | 3.8 | 3.700   | 0.0010  | / | Pass |
|        |        |    |   | -20 | 3.8 | 5.300   | 0.0015  | / | Pass |
|        |        |    |   | -10 | 3.8 | 0.600   | 0.0002  | / | Pass |
|        |        |    |   | 0   | 3.8 | 1.100   | 0.0003  | / | Pass |
|        |        |    |   | 10  | 3.8 | 3.100   | 0.0009  | / | Pass |
|        |        |    |   | 30  | 3.8 | 5.500   | 0.0015  | / | Pass |
|        |        |    |   | 40  | 3.8 | 3.300   | 0.0009  | / | Pass |
|        |        |    |   | 50  | 3.8 | 5.300   | 0.0015  | / | Pass |
|        | 3697.5 | 25 | 0 | 20  | 3.3 | 2.000   | 0.0005  | / | Pass |
|        |        |    |   |     | 3.8 | 0.300   | 0.0001  | / | Pass |
|        |        |    |   |     | 4.4 | 1.700   | 0.0005  | / | Pass |
|        |        |    |   | -30 | 3.8 | 1.000   | 0.0003  | / | Pass |
|        |        |    |   | -20 | 3.8 | -2.200  | -0.0006 | / | Pass |
|        |        |    |   | -10 | 3.8 | 2.400   | 0.0006  | / | Pass |
|        |        |    |   | 0   | 3.8 | -2.000  | -0.0005 | / | Pass |
|        |        |    |   | 10  | 3.8 | 1.200   | 0.0003  | / | Pass |
|        |        |    |   | 30  | 3.8 | -0.100  | 0.0000  | / | Pass |
|        |        |    |   | 40  | 3.8 | 1.600   | 0.0004  | / | Pass |
|        |        |    |   | 50  | 3.8 | 2.100   | 0.0006  | / | Pass |

## 2.2 B48\_10MHz

### 2.2.1 Test Result



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| Band: 48 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |       |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |       | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit |         |
| QPSK                        | 3555            | 50            | 0      | 20         | 3.3           | 0.800            | 0.0002                | /     | Pass    |
|                             |                 |               |        |            | 3.8           | -1.000           | -0.0003               | /     | Pass    |
|                             |                 |               |        |            | 4.4           | 0.800            | 0.0002                | /     | Pass    |
|                             |                 |               |        | -30        | 3.8           | 5.700            | 0.0016                | /     | Pass    |
|                             |                 |               |        | -20        | 3.8           | 1.600            | 0.0005                | /     | Pass    |
|                             |                 |               |        | -10        | 3.8           | 3.200            | 0.0009                | /     | Pass    |
|                             |                 |               |        | 0          | 3.8           | 3.500            | 0.0010                | /     | Pass    |
|                             |                 |               |        | 10         | 3.8           | 0.200            | 0.0001                | /     | Pass    |
|                             |                 |               |        | 30         | 3.8           | -0.500           | -0.0001               | /     | Pass    |
|                             |                 |               |        | 40         | 3.8           | 0.700            | 0.0002                | /     | Pass    |
|                             |                 |               |        | 50         | 3.8           | 2.700            | 0.0008                | /     | Pass    |
|                             | 3625            | 50            | 0      | 20         | 3.3           | 0.600            | 0.0002                | /     | Pass    |
|                             |                 |               |        |            | 3.8           | 0.000            | 0.0000                | /     | Pass    |
|                             |                 |               |        |            | 4.4           | -0.100           | 0.0000                | /     | Pass    |
|                             |                 |               |        | -30        | 3.8           | 1.700            | 0.0005                | /     | Pass    |
|                             |                 |               |        | -20        | 3.8           | 2.500            | 0.0007                | /     | Pass    |
|                             |                 |               |        | -10        | 3.8           | 2.200            | 0.0006                | /     | Pass    |
|                             |                 |               |        | 0          | 3.8           | -0.100           | 0.0000                | /     | Pass    |
|                             |                 |               |        | 10         | 3.8           | 1.800            | 0.0005                | /     | Pass    |
|                             |                 |               |        | 30         | 3.8           | 4.000            | 0.0011                | /     | Pass    |
|                             |                 |               |        | 40         | 3.8           | 2.600            | 0.0007                | /     | Pass    |
|                             |                 |               |        | 50         | 3.8           | 1.300            | 0.0004                | /     | Pass    |
|                             | 3695            | 50            | 0      | 20         | 3.3           | -0.100           | 0.0000                | /     | Pass    |
|                             |                 |               |        |            | 3.8           | 0.000            | 0.0000                | /     | Pass    |
|                             |                 |               |        |            | 4.4           | -0.300           | -0.0001               | /     | Pass    |
|                             |                 |               |        | -30        | 3.8           | 1.300            | 0.0004                | /     | Pass    |
|                             |                 |               |        | -20        | 3.8           | -0.300           | -0.0001               | /     | Pass    |
|                             |                 |               |        | -10        | 3.8           | -3.000           | -0.0008               | /     | Pass    |
|                             |                 |               |        | 0          | 3.8           | -0.900           | -0.0002               | /     | Pass    |
|                             |                 |               |        | 10         | 3.8           | 1.500            | 0.0004                | /     | Pass    |
|                             |                 |               |        | 30         | 3.8           | -2.600           | -0.0007               | /     | Pass    |
|                             |                 |               |        | 40         | 3.8           | -1.900           | -0.0005               | /     | Pass    |
| 16QAM                       | 3555            | 50            | 0      | 20         | 3.3           | 0.600            | 0.0002                | /     | Pass    |
|                             |                 |               |        |            | 3.8           | 1.600            | 0.0005                | /     | Pass    |
|                             |                 |               |        |            | 4.4           | 3.200            | 0.0009                | /     | Pass    |
|                             |                 |               |        | -30        | 3.8           | 3.900            | 0.0011                | /     | Pass    |
|                             |                 |               |        | -20        | 3.8           | -0.300           | -0.0001               | /     | Pass    |
|                             |                 |               |        | -10        | 3.8           | 2.700            | 0.0008                | /     | Pass    |
|                             |                 |               |        | 0          | 3.8           | 0.000            | 0.0000                | /     | Pass    |
|                             |                 |               |        | 10         | 3.8           | 1.100            | 0.0003                | /     | Pass    |
|                             |                 |               |        | 30         | 3.8           | 0.600            | 0.0002                | /     | Pass    |
|                             |                 |               |        | 40         | 3.8           | 0.700            | 0.0002                | /     | Pass    |
|                             |                 |               |        | 50         | 3.8           | -3.700           | -0.0010               | /     | Pass    |
|                             | 3625            | 50            | 0      | 20         | 3.3           | 2.800            | 0.0008                | /     | Pass    |
|                             |                 |               |        |            | 3.8           | 2.800            | 0.0008                | /     | Pass    |



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|       |      |       |        |         |      |         |         |   |      |
|-------|------|-------|--------|---------|------|---------|---------|---|------|
|       |      |       |        |         | 4.4  | 3.200   | 0.0009  | / | Pass |
|       |      |       |        | -30     | 3.8  | 2.100   | 0.0006  | / | Pass |
|       |      |       |        | -20     | 3.8  | 5.400   | 0.0015  | / | Pass |
|       |      |       |        | -10     | 3.8  | 6.600   | 0.0018  | / | Pass |
|       |      |       |        | 0       | 3.8  | -0.800  | -0.0002 | / | Pass |
|       |      |       |        | 10      | 3.8  | 5.000   | 0.0014  | / | Pass |
|       |      |       |        | 30      | 3.8  | 1.400   | 0.0004  | / | Pass |
|       |      |       |        | 40      | 3.8  | -0.100  | 0.0000  | / | Pass |
|       |      |       |        | 50      | 3.8  | 2.700   | 0.0007  | / | Pass |
|       | 3695 | 50    | 0      | 20      | 3.3  | -4.400  | -0.0012 | / | Pass |
|       |      |       |        |         | 3.8  | 1.100   | 0.0003  | / | Pass |
|       |      |       |        |         | 4.4  | 2.000   | 0.0005  | / | Pass |
|       |      |       |        | -30     | 3.8  | -2.100  | -0.0006 | / | Pass |
|       |      |       |        | -20     | 3.8  | -3.100  | -0.0008 | / | Pass |
|       |      |       |        | -10     | 3.8  | -2.200  | -0.0006 | / | Pass |
|       |      |       |        | 0       | 3.8  | -3.200  | -0.0009 | / | Pass |
|       |      |       |        | 10      | 3.8  | -0.500  | -0.0001 | / | Pass |
|       |      |       |        | 30      | 3.8  | 0.300   | 0.0001  | / | Pass |
|       | 40   | 3.8   | -0.600 | -0.0002 | /    | Pass    |         |   |      |
| 50    | 3.8  | 0.500 | 0.0001 | /       | Pass |         |         |   |      |
| 64QAM | 3555 | 50    | 0      | 20      | 3.3  | 21.100  | 0.0059  | / | Pass |
|       |      |       |        |         | 3.8  | -14.400 | -0.0041 | / | Pass |
|       |      |       |        |         | 4.4  | 20.500  | 0.0058  | / | Pass |
|       |      |       |        | -30     | 3.8  | 10.900  | 0.0031  | / | Pass |
|       |      |       |        | -20     | 3.8  | 7.600   | 0.0021  | / | Pass |
|       |      |       |        | -10     | 3.8  | 11.700  | 0.0033  | / | Pass |
|       |      |       |        | 0       | 3.8  | 10.900  | 0.0031  | / | Pass |
|       |      |       |        | 10      | 3.8  | 4.000   | 0.0011  | / | Pass |
|       |      |       |        | 30      | 3.8  | 13.200  | 0.0037  | / | Pass |
|       |      |       |        | 40      | 3.8  | -13.800 | -0.0039 | / | Pass |
|       | 50   | 3.8   | 3.900  | 0.0011  | /    | Pass    |         |   |      |
|       | 3625 | 50    | 0      | 20      | 3.3  | 3.700   | 0.0010  | / | Pass |
|       |      |       |        |         | 3.8  | 2.700   | 0.0007  | / | Pass |
|       |      |       |        |         | 4.4  | 18.800  | 0.0052  | / | Pass |
|       |      |       |        | -30     | 3.8  | 12.900  | 0.0036  | / | Pass |
|       |      |       |        | -20     | 3.8  | 6.200   | 0.0017  | / | Pass |
|       |      |       |        | -10     | 3.8  | 11.500  | 0.0032  | / | Pass |
|       |      |       |        | 0       | 3.8  | 15.300  | 0.0042  | / | Pass |
|       |      |       |        | 10      | 3.8  | 14.000  | 0.0039  | / | Pass |
|       |      |       |        | 30      | 3.8  | -22.900 | -0.0063 | / | Pass |
|       |      |       |        | 40      | 3.8  | -7.700  | -0.0021 | / | Pass |
|       | 50   | 3.8   | 12.000 | 0.0033  | /    | Pass    |         |   |      |
|       | 3695 | 50    | 0      | 20      | 3.3  | 9.900   | 0.0027  | / | Pass |
|       |      |       |        |         | 3.8  | -15.600 | -0.0042 | / | Pass |
|       |      |       |        |         | 4.4  | -2.500  | -0.0007 | / | Pass |
|       |      |       |        | -30     | 3.8  | -2.600  | -0.0007 | / | Pass |
|       |      |       |        | -20     | 3.8  | -4.100  | -0.0011 | / | Pass |
|       |      |       |        | -10     | 3.8  | -12.000 | -0.0032 | / | Pass |
|       |      |       |        | 0       | 3.8  | 6.500   | 0.0018  | / | Pass |



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|        |      |    |   |     |     |         |         |   |      |
|--------|------|----|---|-----|-----|---------|---------|---|------|
| 256QAM | 3555 | 50 | 0 | 10  | 3.8 | 3.100   | 0.0008  | / | Pass |
|        |      |    |   | 30  | 3.8 | 11.200  | 0.0030  | / | Pass |
|        |      |    |   | 40  | 3.8 | -25.700 | -0.0070 | / | Pass |
|        |      |    |   | 50  | 3.8 | -6.300  | -0.0017 | / | Pass |
|        |      |    |   | 20  | 3.3 | 3.000   | 0.0008  | / | Pass |
|        |      |    |   |     | 3.8 | 2.600   | 0.0007  | / | Pass |
|        |      |    |   |     | 4.4 | -0.900  | -0.0003 | / | Pass |
|        |      |    |   | -30 | 3.8 | 0.200   | 0.0001  | / | Pass |
|        |      |    |   | -20 | 3.8 | 1.700   | 0.0005  | / | Pass |
|        |      |    |   | -10 | 3.8 | -0.900  | -0.0003 | / | Pass |
|        |      |    |   | 0   | 3.8 | 2.700   | 0.0008  | / | Pass |
|        |      |    |   | 10  | 3.8 | 0.700   | 0.0002  | / | Pass |
|        |      |    |   | 30  | 3.8 | 2.100   | 0.0006  | / | Pass |
|        |      |    |   | 40  | 3.8 | 1.000   | 0.0003  | / | Pass |
|        |      |    |   | 50  | 3.8 | 1.200   | 0.0003  | / | Pass |
|        | 3625 | 50 | 0 | 20  | 3.3 | 5.900   | 0.0016  | / | Pass |
|        |      |    |   |     | 3.8 | 4.500   | 0.0012  | / | Pass |
|        |      |    |   |     | 4.4 | 3.500   | 0.0010  | / | Pass |
|        |      |    |   | -30 | 3.8 | 2.800   | 0.0008  | / | Pass |
|        |      |    |   | -20 | 3.8 | 2.900   | 0.0008  | / | Pass |
|        |      |    |   | -10 | 3.8 | 3.200   | 0.0009  | / | Pass |
|        |      |    |   | 0   | 3.8 | 2.000   | 0.0006  | / | Pass |
|        |      |    |   | 10  | 3.8 | 0.600   | 0.0002  | / | Pass |
|        |      |    |   | 30  | 3.8 | 3.900   | 0.0011  | / | Pass |
|        |      |    |   | 40  | 3.8 | 4.800   | 0.0013  | / | Pass |
|        |      |    |   | 50  | 3.8 | 4.000   | 0.0011  | / | Pass |
|        | 3695 | 50 | 0 | 20  | 3.3 | -2.400  | -0.0006 | / | Pass |
|        |      |    |   |     | 3.8 | 1.300   | 0.0004  | / | Pass |
|        |      |    |   |     | 4.4 | 0.700   | 0.0002  | / | Pass |
|        |      |    |   | -30 | 3.8 | 2.100   | 0.0006  | / | Pass |
|        |      |    |   | -20 | 3.8 | 1.200   | 0.0003  | / | Pass |
|        |      |    |   | -10 | 3.8 | -2.700  | -0.0007 | / | Pass |
|        |      |    |   | 0   | 3.8 | -0.500  | -0.0001 | / | Pass |
|        |      |    |   | 10  | 3.8 | -0.900  | -0.0002 | / | Pass |
|        |      |    |   | 30  | 3.8 | -0.700  | -0.0002 | / | Pass |
|        |      |    |   | 40  | 3.8 | 2.500   | 0.0007  | / | Pass |
|        |      |    |   | 50  | 3.8 | -2.000  | -0.0005 | / | Pass |

## 2.3 B48\_15MHz

### 2.3.1 Test Result

| Band: 48 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |       |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |       | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit |         |
| QPSK                        | 3557.5          | 75            | 0      | 20         | 3.3           | 3.000            | 0.0008                | /     | Pass    |
|                             |                 |               |        |            | 3.8           | 2.600            | 0.0007                | /     | Pass    |



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|       |        |    |   |     |     |        |         |   |      |
|-------|--------|----|---|-----|-----|--------|---------|---|------|
| 16QAM | 3625   | 75 | 0 |     | 4.4 | 3.700  | 0.0010  | / | Pass |
|       |        |    |   | -30 | 3.8 | 3.300  | 0.0009  | / | Pass |
|       |        |    |   | -20 | 3.8 | 0.600  | 0.0002  | / | Pass |
|       |        |    |   | -10 | 3.8 | 2.600  | 0.0007  | / | Pass |
|       |        |    |   | 0   | 3.8 | 1.800  | 0.0005  | / | Pass |
|       |        |    |   | 10  | 3.8 | 2.800  | 0.0008  | / | Pass |
|       |        |    |   | 30  | 3.8 | 2.000  | 0.0006  | / | Pass |
|       |        |    |   | 40  | 3.8 | 1.900  | 0.0005  | / | Pass |
|       |        |    |   | 50  | 3.8 | 0.000  | 0.0000  | / | Pass |
|       |        |    |   | 20  | 3.3 | 4.200  | 0.0012  | / | Pass |
|       |        |    |   |     | 3.8 | 6.000  | 0.0017  | / | Pass |
|       |        |    |   |     | 4.4 | -0.800 | -0.0002 | / | Pass |
|       |        |    |   | -30 | 3.8 | 1.800  | 0.0005  | / | Pass |
|       |        |    |   | -20 | 3.8 | 0.600  | 0.0002  | / | Pass |
|       |        |    |   | -10 | 3.8 | 2.900  | 0.0008  | / | Pass |
|       |        |    |   | 0   | 3.8 | 0.500  | 0.0001  | / | Pass |
|       |        |    |   | 10  | 3.8 | -1.100 | -0.0003 | / | Pass |
|       |        |    |   | 30  | 3.8 | 5.700  | 0.0016  | / | Pass |
|       |        |    |   | 40  | 3.8 | 0.000  | 0.0000  | / | Pass |
|       |        |    |   | 50  | 3.8 | -0.400 | -0.0001 | / | Pass |
|       | 3692.5 | 75 | 0 | 20  | 3.3 | 1.800  | 0.0005  | / | Pass |
|       |        |    |   |     | 3.8 | 0.600  | 0.0002  | / | Pass |
|       |        |    |   |     | 4.4 | 2.900  | 0.0008  | / | Pass |
|       |        |    |   | -30 | 3.8 | -0.800 | -0.0002 | / | Pass |
|       |        |    |   | -20 | 3.8 | 2.700  | 0.0007  | / | Pass |
|       |        |    |   | -10 | 3.8 | 3.300  | 0.0009  | / | Pass |
|       |        |    |   | 0   | 3.8 | 3.300  | 0.0009  | / | Pass |
|       |        |    |   | 10  | 3.8 | 4.000  | 0.0011  | / | Pass |
|       |        |    |   | 30  | 3.8 | 0.200  | 0.0001  | / | Pass |
|       |        |    |   | 40  | 3.8 | 0.300  | 0.0001  | / | Pass |
|       |        |    |   | 50  | 3.8 | 0.800  | 0.0002  | / | Pass |
|       | 3557.5 | 75 | 0 | 20  | 3.3 | 3.500  | 0.0010  | / | Pass |
|       |        |    |   |     | 3.8 | 0.400  | 0.0001  | / | Pass |
|       |        |    |   |     | 4.4 | 4.900  | 0.0014  | / | Pass |
|       |        |    |   | -30 | 3.8 | 5.000  | 0.0014  | / | Pass |
|       |        |    |   | -20 | 3.8 | 0.300  | 0.0001  | / | Pass |
|       |        |    |   | -10 | 3.8 | 0.200  | 0.0001  | / | Pass |
|       |        |    |   | 0   | 3.8 | -0.300 | -0.0001 | / | Pass |
|       |        |    |   | 10  | 3.8 | 2.600  | 0.0007  | / | Pass |
|       |        |    |   | 30  | 3.8 | 1.700  | 0.0005  | / | Pass |
|       |        |    |   | 40  | 3.8 | 4.600  | 0.0013  | / | Pass |
|       |        |    |   | 50  | 3.8 | -0.400 | -0.0001 | / | Pass |
|       | 3625   | 75 | 0 | 20  | 3.3 | 2.800  | 0.0008  | / | Pass |
|       |        |    |   |     | 3.8 | 2.500  | 0.0007  | / | Pass |
|       |        |    |   |     | 4.4 | 1.200  | 0.0003  | / | Pass |
|       |        |    |   | -30 | 3.8 | 5.600  | 0.0015  | / | Pass |
|       |        |    |   | -20 | 3.8 | 5.200  | 0.0014  | / | Pass |
|       |        |    |   | -10 | 3.8 | 2.900  | 0.0008  | / | Pass |
|       |        |    |   | 0   | 3.8 | 0.600  | 0.0002  | / | Pass |



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|        |        |    |   |     |     |         |         |   |      |
|--------|--------|----|---|-----|-----|---------|---------|---|------|
|        | 3692.5 | 75 | 0 | 10  | 3.8 | 2.400   | 0.0007  | / | Pass |
|        |        |    |   | 30  | 3.8 | 2.400   | 0.0007  | / | Pass |
|        |        |    |   | 40  | 3.8 | 2.200   | 0.0006  | / | Pass |
|        |        |    |   | 50  | 3.8 | 1.500   | 0.0004  | / | Pass |
|        |        |    |   | 20  | 3.3 | -1.300  | -0.0004 | / | Pass |
|        |        |    |   |     | 3.8 | 1.900   | 0.0005  | / | Pass |
|        |        |    |   |     | 4.4 | -0.700  | -0.0002 | / | Pass |
|        |        |    |   | -30 | 3.8 | 0.100   | 0.0000  | / | Pass |
|        |        |    |   | -20 | 3.8 | -2.200  | -0.0006 | / | Pass |
|        |        |    |   | -10 | 3.8 | 0.900   | 0.0002  | / | Pass |
|        |        |    |   | 0   | 3.8 | -1.300  | -0.0004 | / | Pass |
|        |        |    |   | 10  | 3.8 | 2.000   | 0.0005  | / | Pass |
|        |        |    |   | 30  | 3.8 | 2.000   | 0.0005  | / | Pass |
|        |        |    |   | 40  | 3.8 | 4.100   | 0.0011  | / | Pass |
|        |        |    |   | 50  | 3.8 | 3.800   | 0.0010  | / | Pass |
| 64QAM  | 3557.5 | 75 | 0 | 20  | 3.3 | 2.500   | 0.0007  | / | Pass |
|        |        |    |   |     | 3.8 | -13.400 | -0.0038 | / | Pass |
|        |        |    |   |     | 4.4 | 11.400  | 0.0032  | / | Pass |
|        |        |    |   | -30 | 3.8 | 0.400   | 0.0001  | / | Pass |
|        |        |    |   | -20 | 3.8 | 4.600   | 0.0013  | / | Pass |
|        |        |    |   | -10 | 3.8 | -8.300  | -0.0023 | / | Pass |
|        |        |    |   | 0   | 3.8 | -0.400  | -0.0001 | / | Pass |
|        |        |    |   | 10  | 3.8 | -19.700 | -0.0055 | / | Pass |
|        |        |    |   | 30  | 3.8 | 1.700   | 0.0005  | / | Pass |
|        |        |    |   | 40  | 3.8 | 6.800   | 0.0019  | / | Pass |
|        |        |    |   | 50  | 3.8 | -0.300  | -0.0001 | / | Pass |
|        | 3625   | 75 | 0 | 20  | 3.3 | -11.400 | -0.0031 | / | Pass |
|        |        |    |   |     | 3.8 | 4.200   | 0.0012  | / | Pass |
|        |        |    |   |     | 4.4 | 0.400   | 0.0001  | / | Pass |
|        |        |    |   | -30 | 3.8 | -9.100  | -0.0025 | / | Pass |
|        |        |    |   | -20 | 3.8 | 4.200   | 0.0012  | / | Pass |
|        |        |    |   | -10 | 3.8 | 11.800  | 0.0033  | / | Pass |
|        |        |    |   | 0   | 3.8 | 8.400   | 0.0023  | / | Pass |
|        |        |    |   | 10  | 3.8 | -0.800  | -0.0002 | / | Pass |
|        |        |    |   | 30  | 3.8 | 3.200   | 0.0009  | / | Pass |
|        |        |    |   | 40  | 3.8 | -2.400  | -0.0007 | / | Pass |
|        |        |    |   | 50  | 3.8 | 14.100  | 0.0039  | / | Pass |
|        | 3692.5 | 75 | 0 | 20  | 3.3 | -4.900  | -0.0013 | / | Pass |
|        |        |    |   |     | 3.8 | 1.800   | 0.0005  | / | Pass |
|        |        |    |   |     | 4.4 | 19.900  | 0.0054  | / | Pass |
|        |        |    |   | -30 | 3.8 | 0.400   | 0.0001  | / | Pass |
|        |        |    |   | -20 | 3.8 | -5.500  | -0.0015 | / | Pass |
|        |        |    |   | -10 | 3.8 | 5.600   | 0.0015  | / | Pass |
|        |        |    |   | 0   | 3.8 | 2.900   | 0.0008  | / | Pass |
|        |        |    |   | 10  | 3.8 | 1.400   | 0.0004  | / | Pass |
|        |        |    |   | 30  | 3.8 | 10.800  | 0.0029  | / | Pass |
|        |        |    |   | 40  | 3.8 | 15.900  | 0.0043  | / | Pass |
|        |        |    |   | 50  | 3.8 | 11.400  | 0.0031  | / | Pass |
| 256QAM | 3557.5 | 75 | 0 | 20  | 3.3 | -5.246  | -0.0015 | / | Pass |



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|  |        |    |   |     |     |        |         |   |      |
|--|--------|----|---|-----|-----|--------|---------|---|------|
|  |        |    |   |     | 3.8 | -0.667 | -0.0002 | / | Pass |
|  |        |    |   |     | 4.4 | 0.900  | 0.0003  | / | Pass |
|  |        |    |   | -30 | 3.8 | 0.000  | 0.0000  | / | Pass |
|  |        |    |   | -20 | 3.8 | -1.800 | -0.0005 | / | Pass |
|  |        |    |   | -10 | 3.8 | 1.800  | 0.0005  | / | Pass |
|  |        |    |   | 0   | 3.8 | 2.700  | 0.0008  | / | Pass |
|  |        |    |   | 10  | 3.8 | 2.700  | 0.0008  | / | Pass |
|  |        |    |   | 30  | 3.8 | 1.000  | 0.0003  | / | Pass |
|  |        |    |   | 40  | 3.8 | 0.400  | 0.0001  | / | Pass |
|  |        |    |   | 50  | 3.8 | 1.800  | 0.0005  | / | Pass |
|  | 3625   | 75 | 0 |     | 3.3 | -9.099 | -0.0025 | / | Pass |
|  |        |    |   | 20  | 3.8 | -2.369 | -0.0007 | / | Pass |
|  |        |    |   |     | 4.4 | 3.200  | 0.0009  | / | Pass |
|  |        |    |   | -30 | 3.8 | 0.200  | 0.0001  | / | Pass |
|  |        |    |   | -20 | 3.8 | 3.400  | 0.0009  | / | Pass |
|  |        |    |   | -10 | 3.8 | 3.600  | 0.0010  | / | Pass |
|  |        |    |   | 0   | 3.8 | 2.400  | 0.0007  | / | Pass |
|  |        |    |   | 10  | 3.8 | 2.300  | 0.0006  | / | Pass |
|  |        |    |   | 30  | 3.8 | -0.400 | -0.0001 | / | Pass |
|  |        |    |   | 40  | 3.8 | -0.200 | -0.0001 | / | Pass |
|  |        |    |   | 50  | 3.8 | 0.700  | 0.0002  | / | Pass |
|  | 3692.5 | 75 | 0 |     | 3.3 | -5.220 | -0.0014 | / | Pass |
|  |        |    |   | 20  | 3.8 | 2.483  | 0.0007  | / | Pass |
|  |        |    |   |     | 4.4 | -0.300 | -0.0001 | / | Pass |
|  |        |    |   | -30 | 3.8 | -3.000 | -0.0008 | / | Pass |
|  |        |    |   | -20 | 3.8 | 1.400  | 0.0004  | / | Pass |
|  |        |    |   | -10 | 3.8 | 0.400  | 0.0001  | / | Pass |
|  |        |    |   | 0   | 3.8 | -0.500 | -0.0001 | / | Pass |
|  |        |    |   | 10  | 3.8 | -1.100 | -0.0003 | / | Pass |
|  |        |    |   | 30  | 3.8 | 2.600  | 0.0007  | / | Pass |
|  |        |    |   | 40  | 3.8 | 0.900  | 0.0002  | / | Pass |
|  |        |    |   | 50  | 3.8 | -0.600 | -0.0002 | / | Pass |

## 2.4 B48\_20MHz

### 2.4.1 Test Result

| Band: 48 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |       |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |       | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit |         |
| QPSK                        | 3560            | 100           | 0      | 20         | 3.3           | 1.400            | 0.0004                | /     | Pass    |
|                             |                 |               |        |            | 3.8           | 0.000            | 0.0000                | /     | Pass    |
|                             |                 |               |        |            | 4.4           | 1.000            | 0.0003                | /     | Pass    |
|                             |                 |               |        | -30        | 3.8           | -5.200           | -0.0015               | /     | Pass    |
|                             |                 |               |        | -20        | 3.8           | 1.300            | 0.0004                | /     | Pass    |
|                             |                 |               |        | -10        | 3.8           | 3.100            | 0.0009                | /     | Pass    |
|                             |                 |               |        | 0          | 3.8           | -1.200           | -0.0003               | /     | Pass    |



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|-------|------|-----|---|-----|-----|--------|---------|---|------|
| 16QAM | 3625 | 100 | 0 | 10  | 3.8 | -1.500 | -0.0004 | / | Pass |
|       |      |     |   | 30  | 3.8 | -3.800 | -0.0011 | / | Pass |
|       |      |     |   | 40  | 3.8 | -3.100 | -0.0009 | / | Pass |
|       |      |     |   | 50  | 3.8 | -0.400 | -0.0001 | / | Pass |
|       |      |     |   | 20  | 3.3 | 3.800  | 0.0010  | / | Pass |
|       |      |     |   |     | 3.8 | 1.700  | 0.0005  | / | Pass |
|       |      |     |   |     | 4.4 | 2.800  | 0.0008  | / | Pass |
|       |      |     |   | -30 | 3.8 | 1.400  | 0.0004  | / | Pass |
|       |      |     |   | -20 | 3.8 | 1.200  | 0.0003  | / | Pass |
|       |      |     |   | -10 | 3.8 | 3.100  | 0.0009  | / | Pass |
|       |      |     |   | 0   | 3.8 | 0.700  | 0.0002  | / | Pass |
|       |      |     |   | 10  | 3.8 | 1.500  | 0.0004  | / | Pass |
|       |      |     |   | 30  | 3.8 | 1.500  | 0.0004  | / | Pass |
|       |      |     |   | 40  | 3.8 | 0.400  | 0.0001  | / | Pass |
|       |      |     |   | 50  | 3.8 | 2.500  | 0.0007  | / | Pass |
|       | 3690 | 100 | 0 | 20  | 3.3 | 2.000  | 0.0005  | / | Pass |
|       |      |     |   |     | 3.8 | -2.300 | -0.0006 | / | Pass |
|       |      |     |   |     | 4.4 | -0.200 | -0.0001 | / | Pass |
|       |      |     |   | -30 | 3.8 | 4.500  | 0.0012  | / | Pass |
|       |      |     |   | -20 | 3.8 | 2.300  | 0.0006  | / | Pass |
|       |      |     |   | -10 | 3.8 | 3.300  | 0.0009  | / | Pass |
|       |      |     |   | 0   | 3.8 | 1.000  | 0.0003  | / | Pass |
|       |      |     |   | 10  | 3.8 | -1.000 | -0.0003 | / | Pass |
|       |      |     |   | 30  | 3.8 | -0.300 | -0.0001 | / | Pass |
|       |      |     |   | 40  | 3.8 | -2.200 | -0.0006 | / | Pass |
|       |      |     |   | 50  | 3.8 | -1.400 | -0.0004 | / | Pass |
|       | 3560 | 100 | 0 | 20  | 3.3 | -2.800 | -0.0008 | / | Pass |
|       |      |     |   |     | 3.8 | 0.600  | 0.0002  | / | Pass |
|       |      |     |   |     | 4.4 | -1.200 | -0.0003 | / | Pass |
|       |      |     |   | -30 | 3.8 | -0.200 | -0.0001 | / | Pass |
|       |      |     |   | -20 | 3.8 | -0.700 | -0.0002 | / | Pass |
|       |      |     |   | -10 | 3.8 | -0.400 | -0.0001 | / | Pass |
|       |      |     |   | 0   | 3.8 | 1.100  | 0.0003  | / | Pass |
|       |      |     |   | 10  | 3.8 | -0.300 | -0.0001 | / | Pass |
|       |      |     |   | 30  | 3.8 | -2.900 | -0.0008 | / | Pass |
|       |      |     |   | 40  | 3.8 | -0.600 | -0.0002 | / | Pass |
|       |      |     |   | 50  | 3.8 | 1.600  | 0.0004  | / | Pass |
|       | 3625 | 100 | 0 | 20  | 3.3 | 2.200  | 0.0006  | / | Pass |
|       |      |     |   |     | 3.8 | -0.100 | 0.0000  | / | Pass |
|       |      |     |   |     | 4.4 | 5.100  | 0.0014  | / | Pass |
|       |      |     |   | -30 | 3.8 | 3.000  | 0.0008  | / | Pass |
|       |      |     |   | -20 | 3.8 | 4.200  | 0.0012  | / | Pass |
|       |      |     |   | -10 | 3.8 | 0.600  | 0.0002  | / | Pass |
|       |      |     |   | 0   | 3.8 | 3.800  | 0.0010  | / | Pass |
|       |      |     |   | 10  | 3.8 | 2.700  | 0.0007  | / | Pass |
|       |      |     |   | 30  | 3.8 | -1.700 | -0.0005 | / | Pass |
|       |      |     |   | 40  | 3.8 | 0.200  | 0.0001  | / | Pass |
|       |      |     |   | 50  | 3.8 | 1.700  | 0.0005  | / | Pass |
|       | 3690 | 100 | 0 | 20  | 3.3 | 0.400  | 0.0001  | / | Pass |



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|        |      |       |         |         |      |         |         |         |      |      |
|--------|------|-------|---------|---------|------|---------|---------|---------|------|------|
|        |      |       |         |         |      | 3.8     | -0.500  | -0.0001 | /    | Pass |
|        |      |       |         |         |      | 4.4     | -1.900  | -0.0005 | /    | Pass |
|        |      |       |         |         | -30  | 3.8     | -1.400  | -0.0004 | /    | Pass |
|        |      |       |         |         | -20  | 3.8     | 1.800   | 0.0005  | /    | Pass |
|        |      |       |         |         | -10  | 3.8     | -2.400  | -0.0007 | /    | Pass |
|        |      |       |         |         | 0    | 3.8     | 1.800   | 0.0005  | /    | Pass |
|        |      |       |         |         | 10   | 3.8     | -2.100  | -0.0006 | /    | Pass |
|        |      |       |         |         | 30   | 3.8     | -1.200  | -0.0003 | /    | Pass |
|        |      |       |         |         | 40   | 3.8     | -0.800  | -0.0002 | /    | Pass |
|        |      |       |         |         | 50   | 3.8     | 1.600   | 0.0004  | /    | Pass |
| 64QAM  | 3560 | 100   | 0       |         | 20   | 3.3     | 3.400   | 0.0010  | /    | Pass |
|        |      |       |         |         |      | 3.8     | 0.900   | 0.0003  | /    | Pass |
|        |      |       |         |         |      | 4.4     | 5.800   | 0.0016  | /    | Pass |
|        |      |       |         |         | -30  | 3.8     | -17.700 | -0.0050 | /    | Pass |
|        |      |       |         |         | -20  | 3.8     | 1.200   | 0.0003  | /    | Pass |
|        |      |       |         |         | -10  | 3.8     | -2.600  | -0.0007 | /    | Pass |
|        |      |       |         |         | 0    | 3.8     | -17.600 | -0.0049 | /    | Pass |
|        |      |       |         |         | 10   | 3.8     | 0.200   | 0.0001  | /    | Pass |
|        |      |       |         |         | 30   | 3.8     | 2.400   | 0.0007  | /    | Pass |
|        |      |       |         |         | 40   | 3.8     | -8.300  | -0.0023 | /    | Pass |
|        | 50   | 3.8   | -18.300 | -0.0051 | /    | Pass    |         |         |      |      |
|        | 3625 | 100   | 0       |         | 20   | 3.3     | -5.100  | -0.0014 | /    | Pass |
|        |      |       |         |         |      | 3.8     | 12.700  | 0.0035  | /    | Pass |
|        |      |       |         |         |      | 4.4     | 2.100   | 0.0006  | /    | Pass |
|        |      |       |         |         | -30  | 3.8     | 4.600   | 0.0013  | /    | Pass |
|        |      |       |         |         | -20  | 3.8     | 7.300   | 0.0020  | /    | Pass |
|        |      |       |         |         | -10  | 3.8     | -0.500  | -0.0001 | /    | Pass |
|        |      |       |         |         | 0    | 3.8     | 1.600   | 0.0004  | /    | Pass |
|        |      |       |         |         | 10   | 3.8     | 4.400   | 0.0012  | /    | Pass |
|        |      |       |         |         | 30   | 3.8     | -1.700  | -0.0005 | /    | Pass |
|        |      |       |         |         | 40   | 3.8     | 20.900  | 0.0058  | /    | Pass |
|        | 50   | 3.8   | -10.000 | -0.0028 | /    | Pass    |         |         |      |      |
|        | 3690 | 100   | 0       |         | 20   | 3.3     | 10.800  | 0.0029  | /    | Pass |
|        |      |       |         |         |      | 3.8     | 9.800   | 0.0027  | /    | Pass |
|        |      |       |         |         |      | 4.4     | -2.500  | -0.0007 | /    | Pass |
|        |      |       |         |         | -30  | 3.8     | -4.300  | -0.0012 | /    | Pass |
|        |      |       |         |         | -20  | 3.8     | -6.400  | -0.0017 | /    | Pass |
|        |      |       |         |         | -10  | 3.8     | -13.600 | -0.0037 | /    | Pass |
|        |      |       |         |         | 0    | 3.8     | -1.700  | -0.0005 | /    | Pass |
|        |      |       |         |         | 10   | 3.8     | 1.200   | 0.0003  | /    | Pass |
| 30     |      |       |         |         | 3.8  | 5.100   | 0.0014  | /       | Pass |      |
| 40     |      |       |         |         | 3.8  | -3.400  | -0.0009 | /       | Pass |      |
| 50     | 3.8  | 0.700 | 0.0002  | /       | Pass |         |         |         |      |      |
| 256QAM | 3560 | 100   | 0       | 20      | 3.3  | -10.480 | -0.0029 | /       | Pass |      |
|        |      |       |         |         | 3.8  | -4.024  | -0.0011 | /       | Pass |      |
|        |      |       |         |         | 4.4  | -2.152  | -0.0006 | /       | Pass |      |
|        |      |       |         | -30     | 3.8  | -0.300  | -0.0001 | /       | Pass |      |
|        |      |       |         | -20     | 3.8  | 0.200   | 0.0001  | /       | Pass |      |
|        |      |       |         | -10     | 3.8  | -0.100  | 0.0000  | /       | Pass |      |



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|  |      |     |   |     |     |         |         |   |      |
|--|------|-----|---|-----|-----|---------|---------|---|------|
|  |      |     |   | 0   | 3.8 | -1.400  | -0.0004 | / | Pass |
|  |      |     |   | 10  | 3.8 | -3.800  | -0.0011 | / | Pass |
|  |      |     |   | 30  | 3.8 | 1.100   | 0.0003  | / | Pass |
|  |      |     |   | 40  | 3.8 | -1.600  | -0.0004 | / | Pass |
|  |      |     |   | 50  | 3.8 | 0.000   | 0.0000  | / | Pass |
|  | 3625 | 100 | 0 | 20  | 3.3 | -12.954 | -0.0036 | / | Pass |
|  |      |     |   |     | 3.8 | -1.410  | -0.0004 | / | Pass |
|  |      |     |   |     | 4.4 | 1.900   | 0.0005  | / | Pass |
|  |      |     |   | -30 | 3.8 | 4.100   | 0.0011  | / | Pass |
|  |      |     |   | -20 | 3.8 | 3.000   | 0.0008  | / | Pass |
|  |      |     |   | -10 | 3.8 | 0.800   | 0.0002  | / | Pass |
|  |      |     |   | 0   | 3.8 | -1.400  | -0.0004 | / | Pass |
|  |      |     |   | 10  | 3.8 | 2.200   | 0.0006  | / | Pass |
|  |      |     |   | 30  | 3.8 | 4.400   | 0.0012  | / | Pass |
|  |      |     |   | 40  | 3.8 | -0.900  | -0.0002 | / | Pass |
|  |      |     |   | 50  | 3.8 | -1.300  | -0.0004 | / | Pass |
|  | 3690 | 100 | 0 | 20  | 3.3 | -3.363  | -0.0009 | / | Pass |
|  |      |     |   |     | 3.8 | 6.010   | 0.0016  | / | Pass |
|  |      |     |   |     | 4.4 | 3.100   | 0.0008  | / | Pass |
|  |      |     |   | -30 | 3.8 | 2.700   | 0.0007  | / | Pass |
|  |      |     |   | -20 | 3.8 | -0.400  | -0.0001 | / | Pass |
|  |      |     |   | -10 | 3.8 | -0.100  | 0.0000  | / | Pass |
|  |      |     |   | 0   | 3.8 | -0.400  | -0.0001 | / | Pass |
|  |      |     |   | 10  | 3.8 | 2.900   | 0.0008  | / | Pass |
|  |      |     |   | 30  | 3.8 | 0.900   | 0.0002  | / | Pass |
|  |      |     |   | 40  | 3.8 | -1.900  | -0.0005 | / | Pass |
|  |      |     |   | 50  | 3.8 | -1.800  | -0.0005 | / | Pass |



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## 3. 99% & 26dB Bandwidth

### 3.1 Band48\_OBW

#### 3.1.1 Test Result

| Band: 48 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 3552.5          | 25            | 0      | 4.525                        | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 4.538                        | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 4.530                        | /     | Pass    |
|                 | 16QAM      | 3552.5          | 25            | 0      | 4.530                        | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 4.524                        | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 4.529                        | /     | Pass    |
|                 | 64QAM      | 3552.5          | 25            | 0      | 4.489                        | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 4.467                        | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 4.473                        | /     | Pass    |
|                 | 256QAM     | 3552.5          | 25            | 0      | 4.530                        | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 4.518                        | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 4.531                        | /     | Pass    |
| 10              | QPSK       | 3555            | 50            | 0      | 9.004                        | /     | Pass    |
|                 |            | 3625            | 50            | 0      | 9.012                        | /     | Pass    |
|                 |            | 3695            | 50            | 0      | 9.010                        | /     | Pass    |
|                 | 16QAM      | 3555            | 50            | 0      | 9.011                        | /     | Pass    |
|                 |            | 3625            | 50            | 0      | 9.001                        | /     | Pass    |
|                 |            | 3695            | 50            | 0      | 9.013                        | /     | Pass    |
|                 | 64QAM      | 3555            | 50            | 0      | 8.998                        | /     | Pass    |
|                 |            | 3625            | 50            | 0      | 9.013                        | /     | Pass    |
|                 |            | 3695            | 50            | 0      | 8.999                        | /     | Pass    |
|                 | 256QAM     | 3555            | 50            | 0      | 8.994                        | /     | Pass    |
|                 |            | 3625            | 50            | 0      | 9.000                        | /     | Pass    |
|                 |            | 3695            | 50            | 0      | 9.015                        | /     | Pass    |
| 15              | QPSK       | 3557.5          | 75            | 0      | 13.501                       | /     | Pass    |
|                 |            | 3625            | 75            | 0      | 13.512                       | /     | Pass    |
|                 |            | 3692.5          | 75            | 0      | 13.477                       | /     | Pass    |
|                 | 16QAM      | 3557.5          | 75            | 0      | 13.511                       | /     | Pass    |
|                 |            | 3625            | 75            | 0      | 13.479                       | /     | Pass    |
|                 |            | 3692.5          | 75            | 0      | 13.496                       | /     | Pass    |
|                 | 64QAM      | 3557.5          | 75            | 0      | 13.464                       | /     | Pass    |
|                 |            | 3625            | 75            | 0      | 13.496                       | /     | Pass    |
|                 |            | 3692.5          | 75            | 0      | 13.490                       | /     | Pass    |
|                 | 256QAM     | 3557.5          | 75            | 0      | 13.463                       | /     | Pass    |
|                 |            | 3625            | 75            | 0      | 13.467                       | /     | Pass    |
|                 |            | 3692.5          | 75            | 0      | 13.572                       | /     | Pass    |
| 20              | QPSK       | 3560            | 100           | 0      | 17.942                       | /     | Pass    |
|                 |            | 3625            | 100           | 0      | 17.985                       | /     | Pass    |
|                 |            | 3690            | 100           | 0      | 18.003                       | /     | Pass    |
|                 | 16QAM      | 3560            | 100           | 0      | 18.047                       | /     | Pass    |



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|  |        |      |     |   |        |   |      |
|--|--------|------|-----|---|--------|---|------|
|  |        | 3625 | 100 | 0 | 18.053 | / | Pass |
|  |        | 3690 | 100 | 0 | 18.023 | / | Pass |
|  | 64QAM  | 3560 | 100 | 0 | 17.987 | / | Pass |
|  |        | 3625 | 100 | 0 | 17.939 | / | Pass |
|  |        | 3690 | 100 | 0 | 17.982 | / | Pass |
|  | 256QAM | 3560 | 100 | 0 | 17.954 | / | Pass |
|  |        | 3625 | 100 | 0 | 18.038 | / | Pass |
|  |        | 3690 | 100 | 0 | 17.978 | / | Pass |
|  |        | 3625 | 100 | 0 | 18.053 | / | Pass |
|  |        | 3690 | 100 | 0 | 18.023 | / | Pass |



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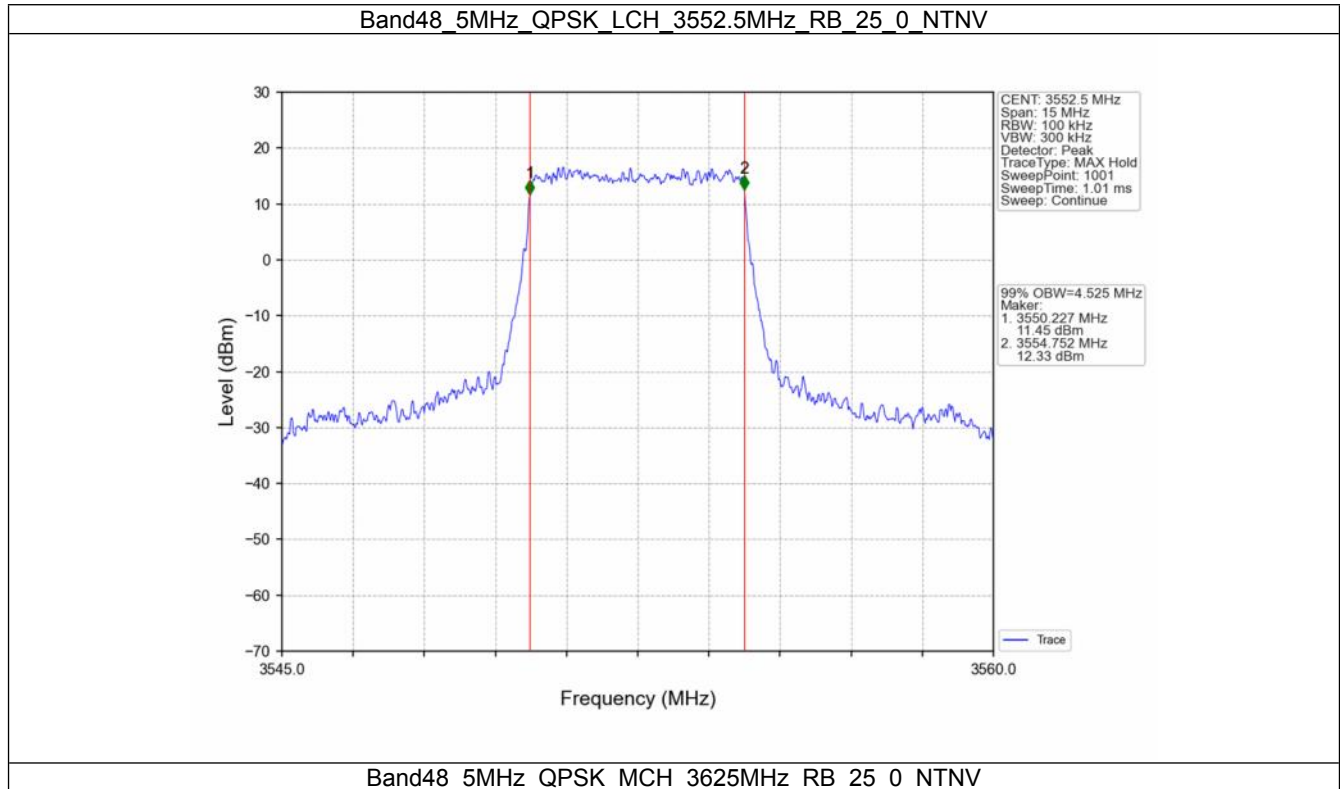
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### 3.1.2 Test Graph



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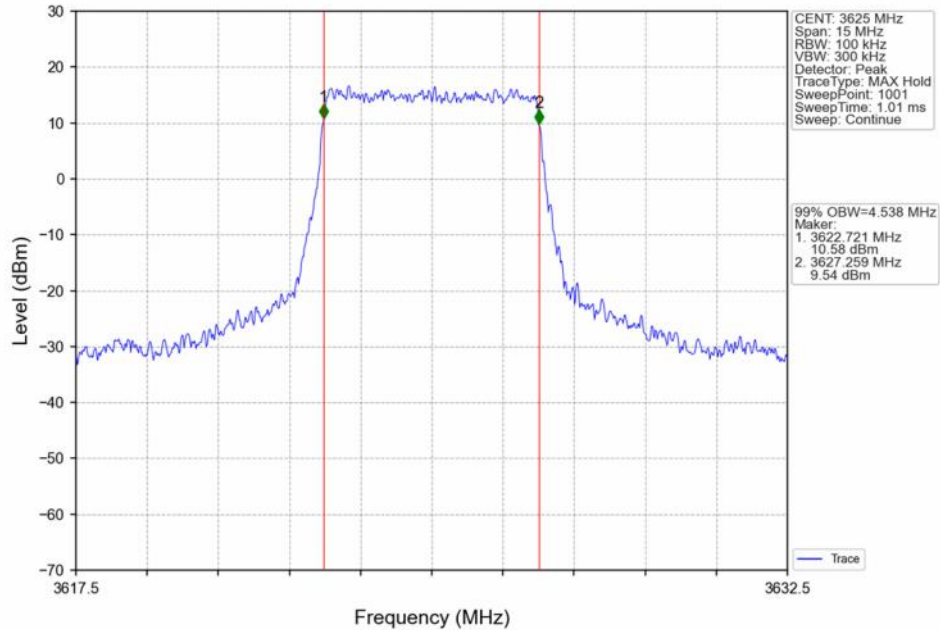
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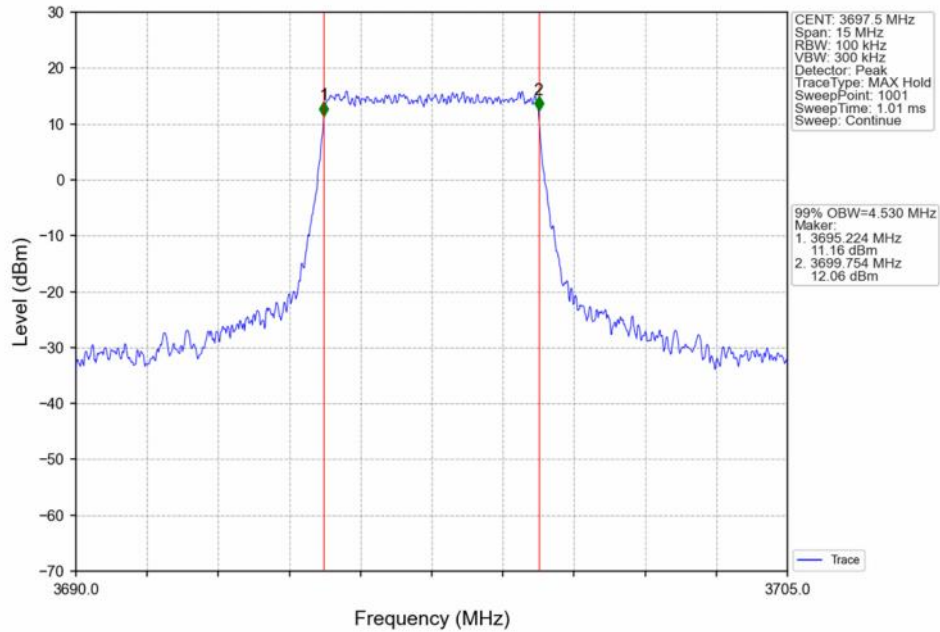
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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



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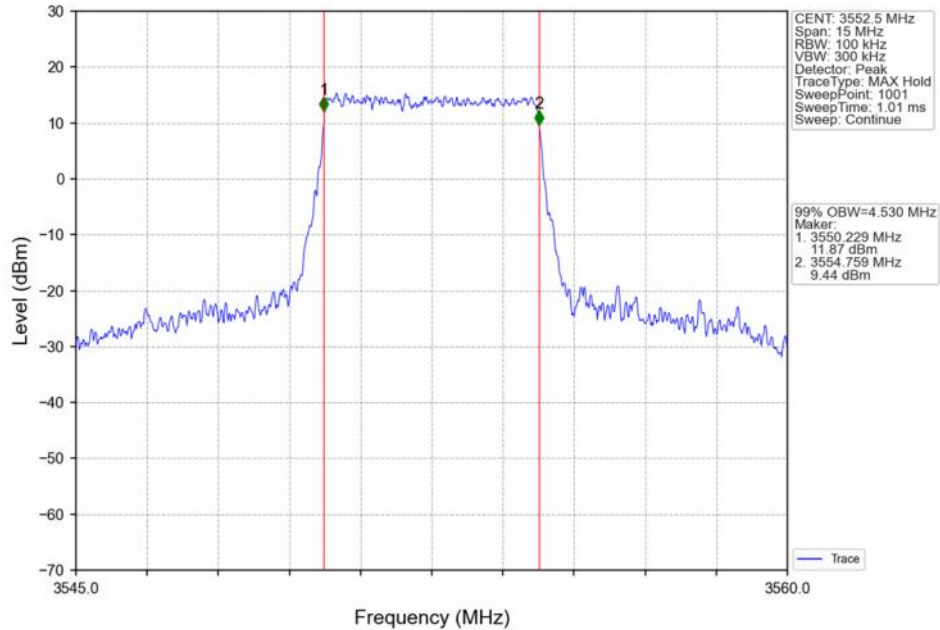
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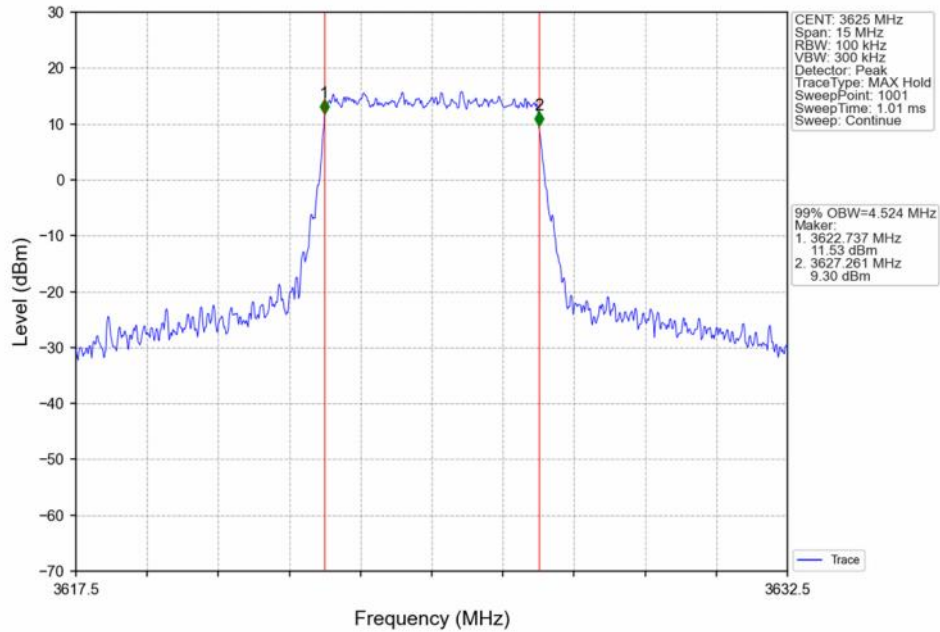
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Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



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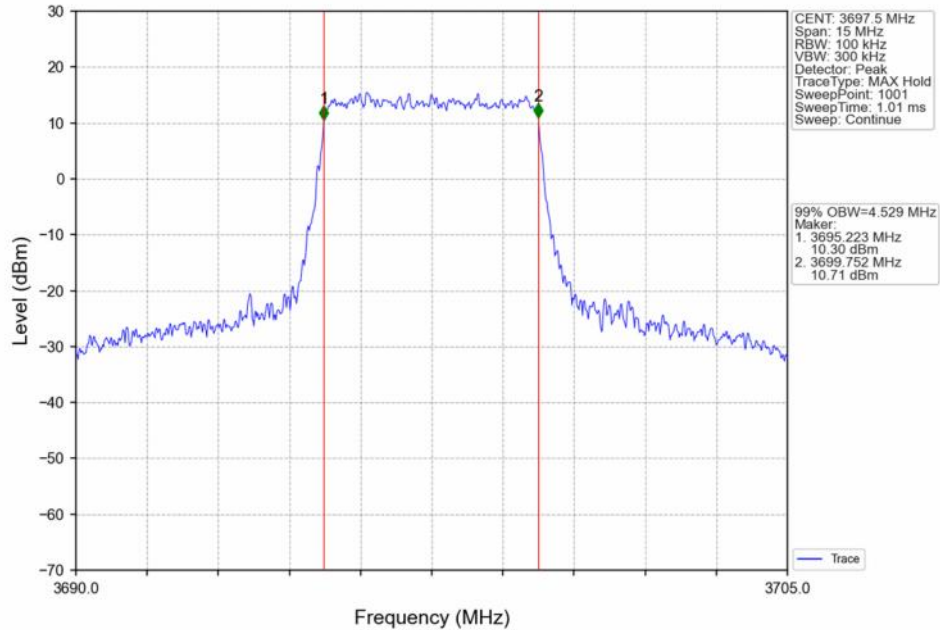
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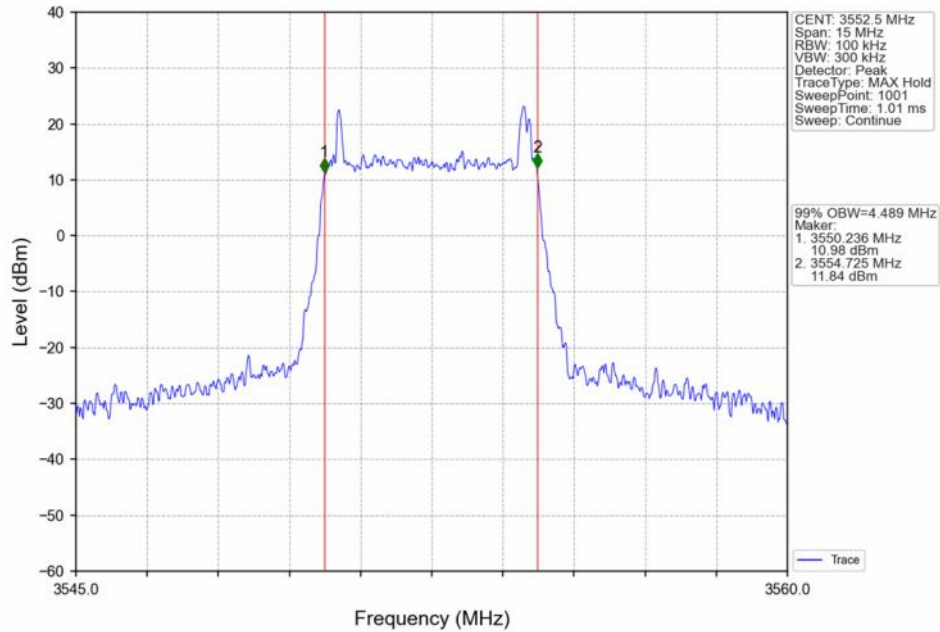
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Band48\_5MHz\_64QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



Band48\_5MHz\_64QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



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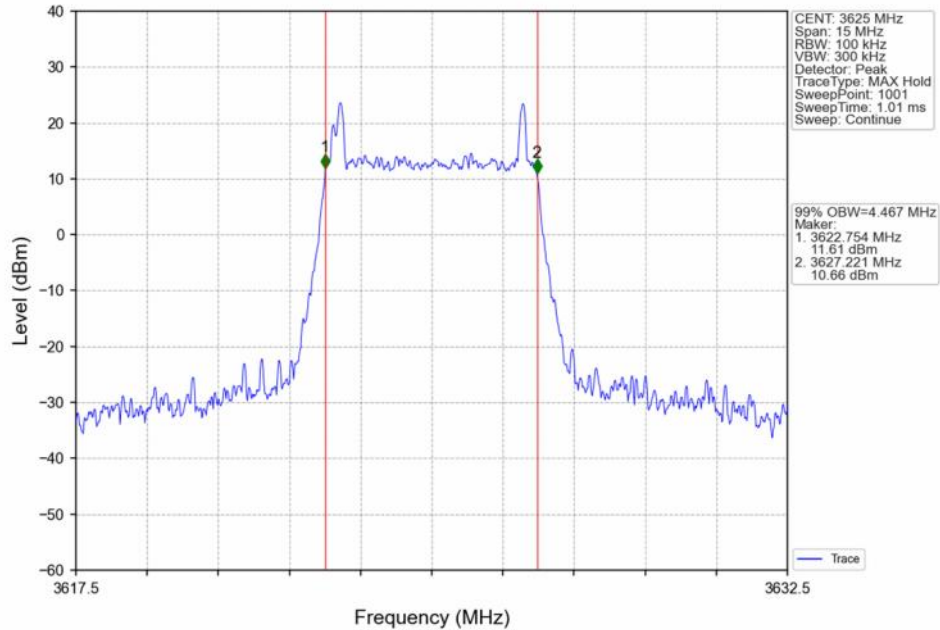
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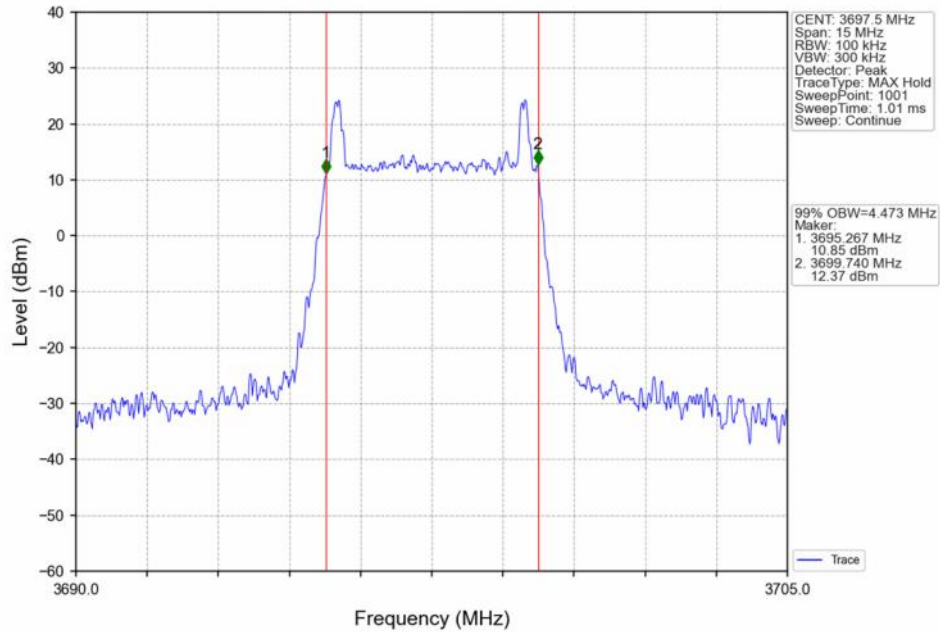
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Band48\_5MHz\_64QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



Band48\_5MHz\_256QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



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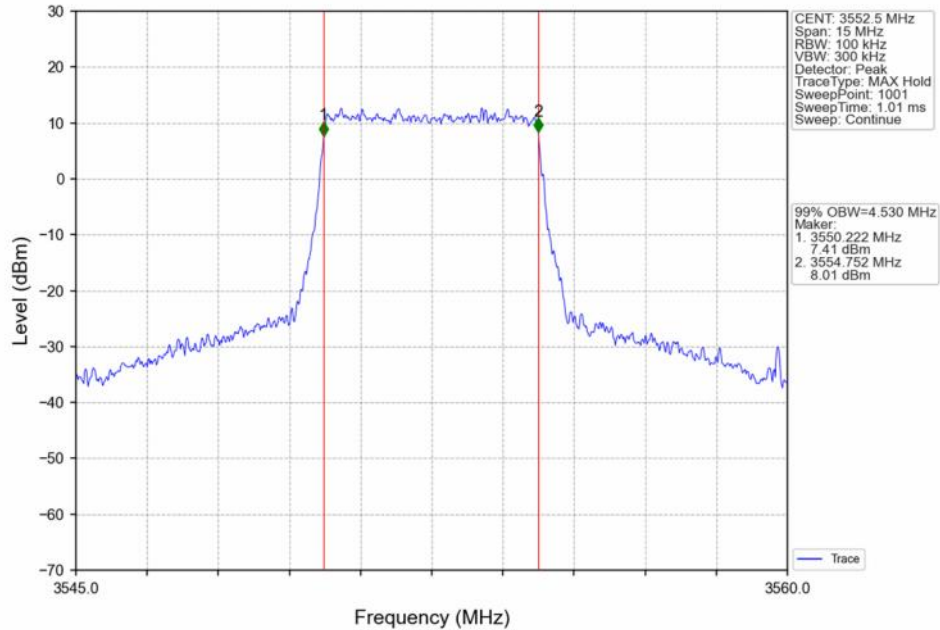
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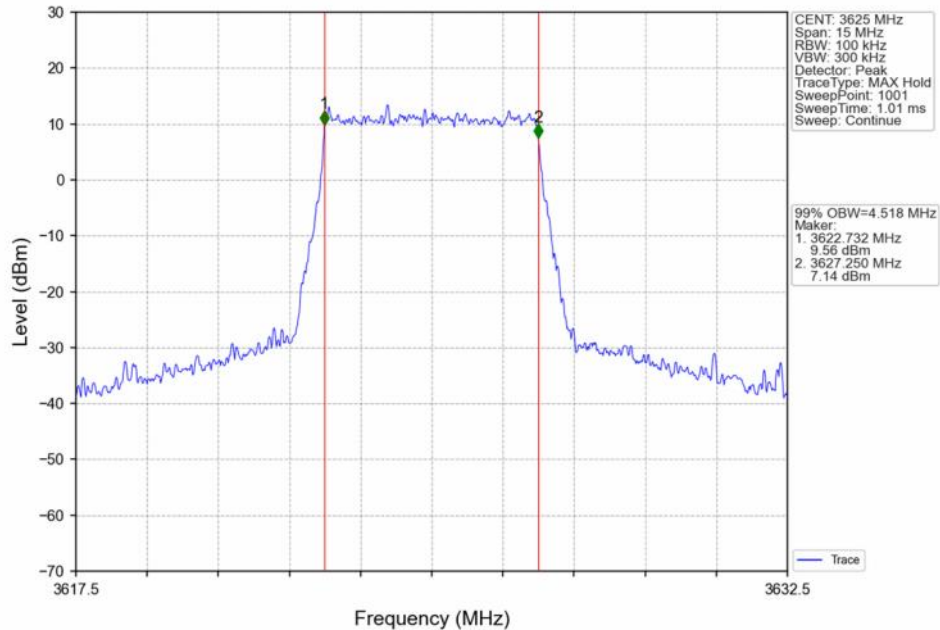
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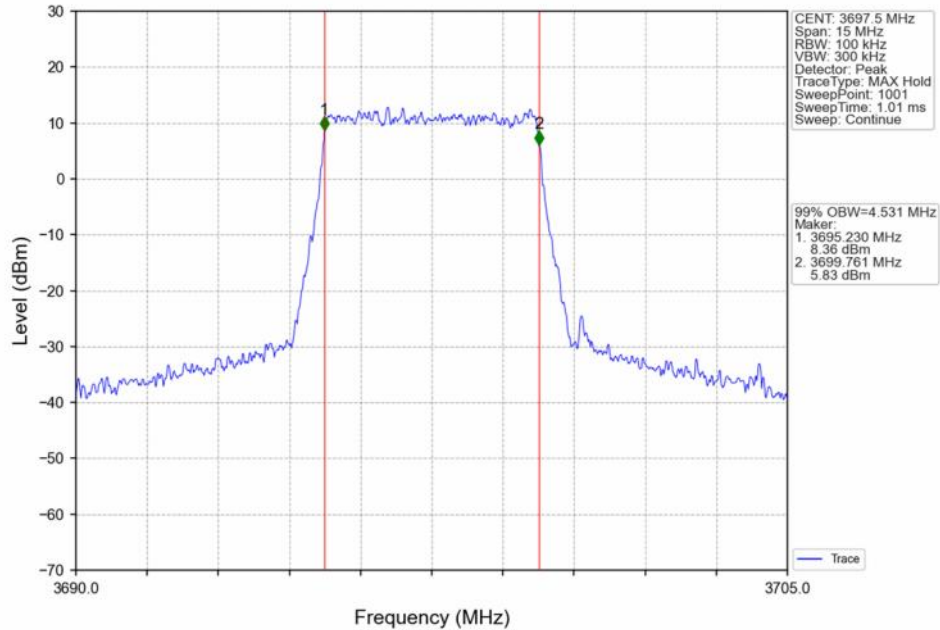
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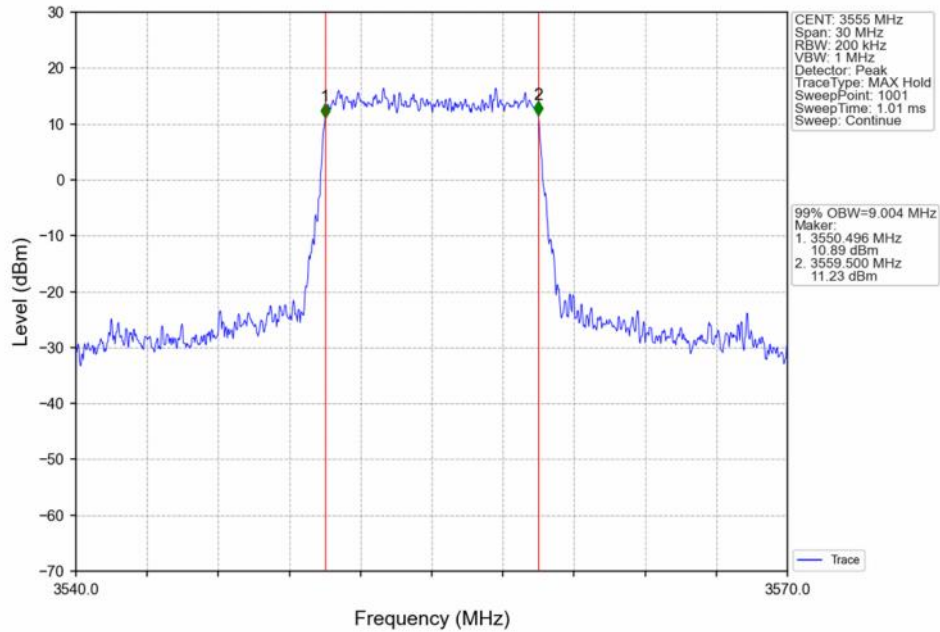
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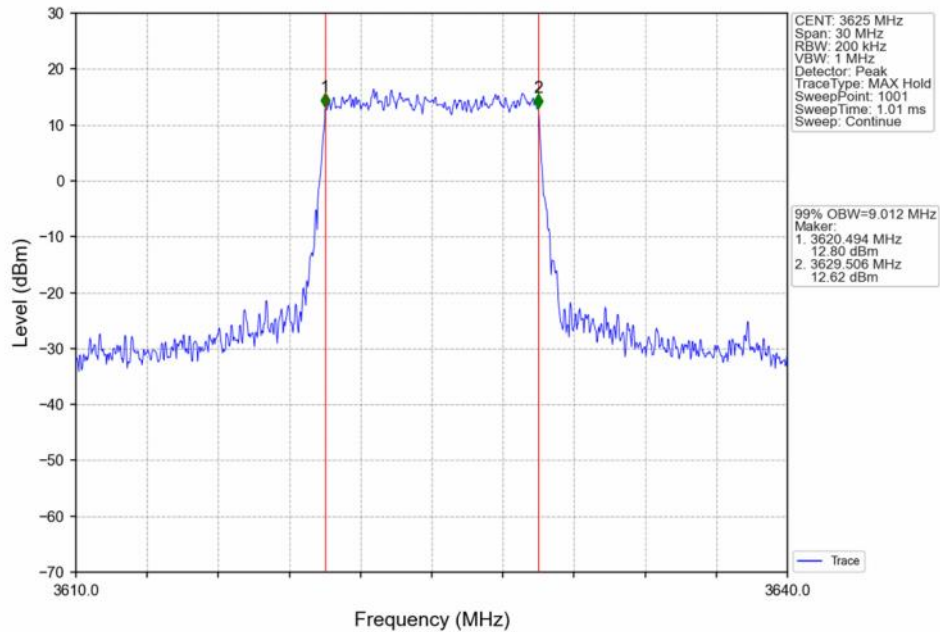
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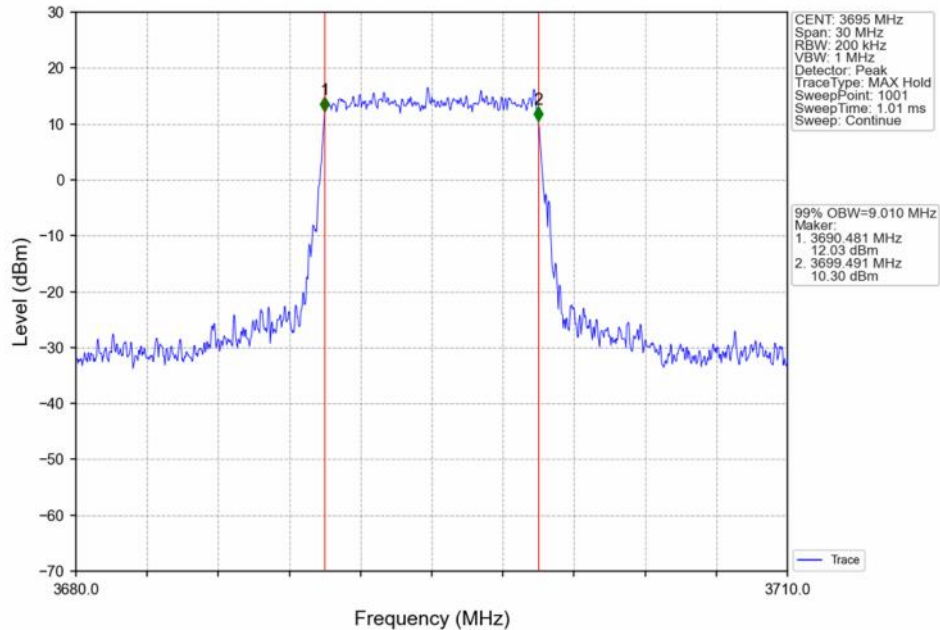
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Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



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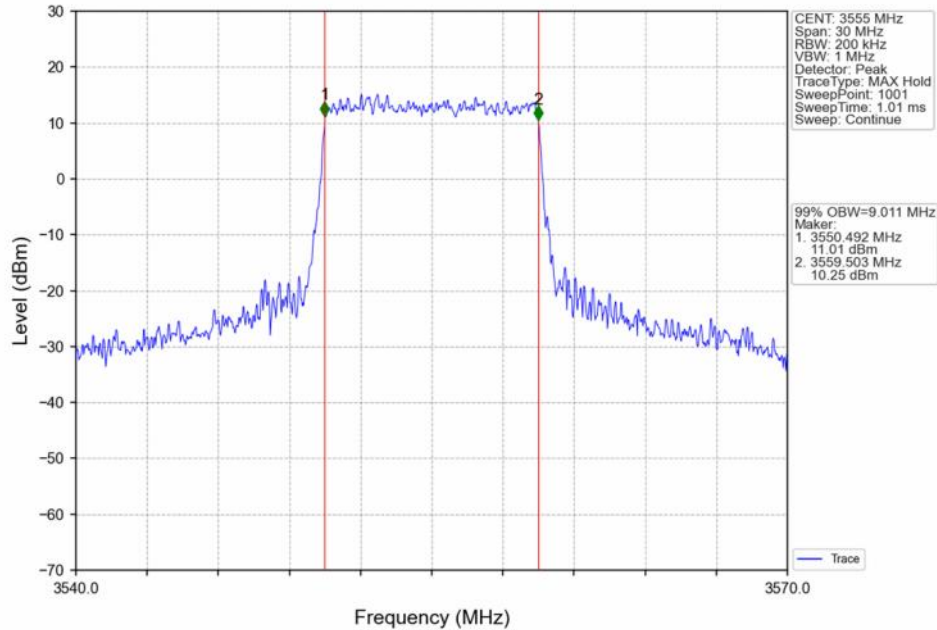
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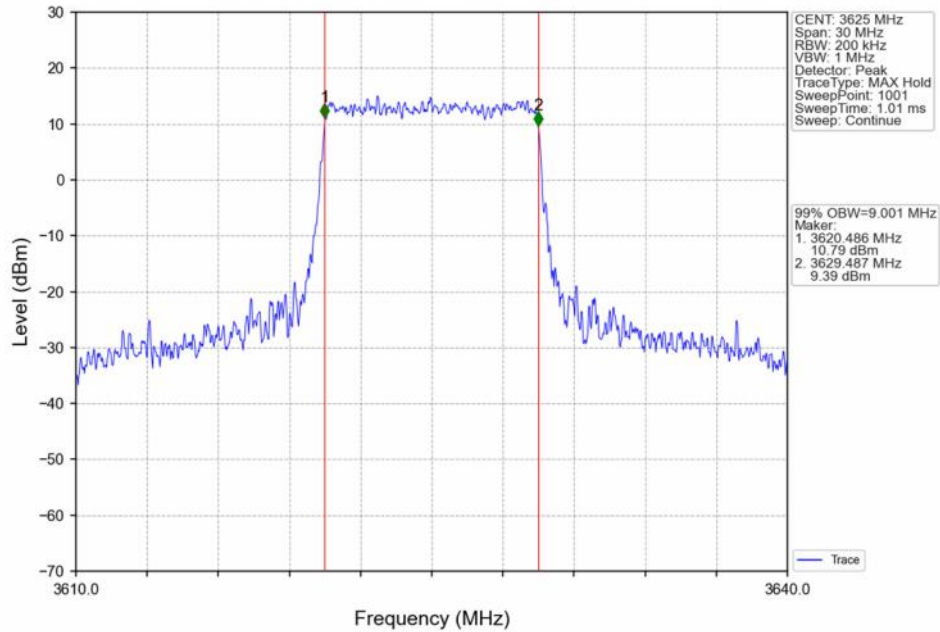
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Band48\_10MHz\_16QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV



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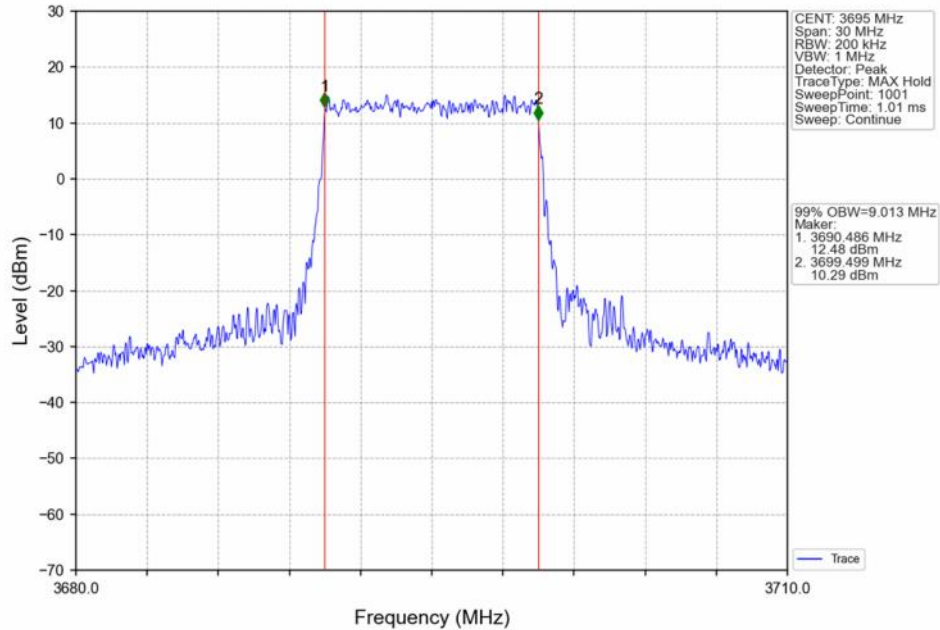
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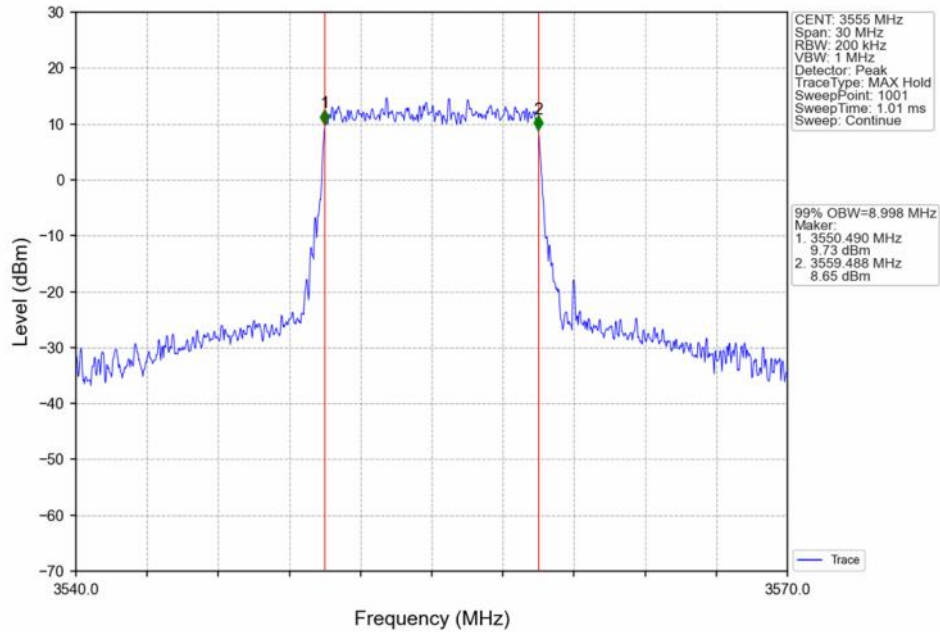
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Band48\_10MHz\_64QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV



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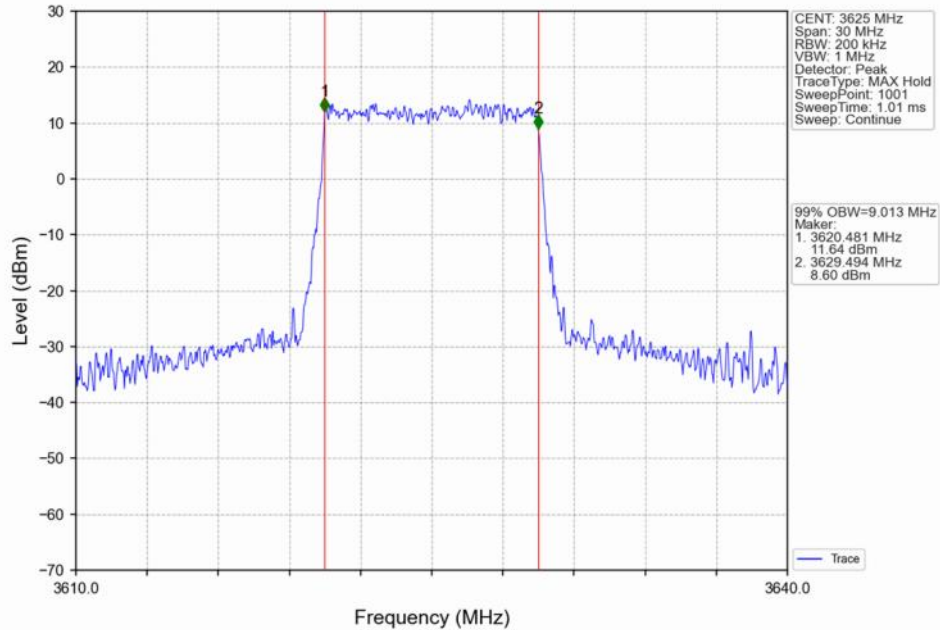
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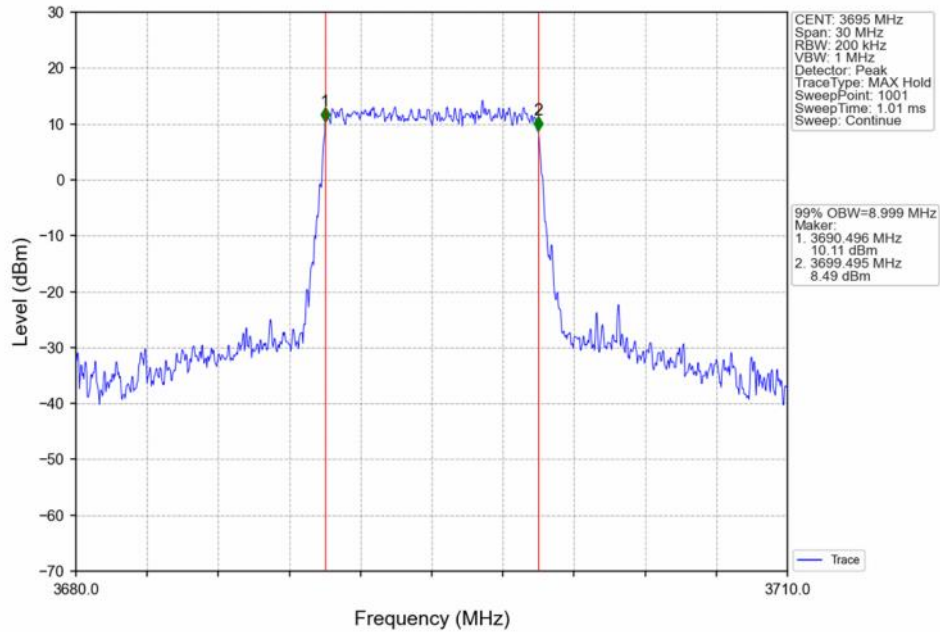
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Band48\_10MHz\_256QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



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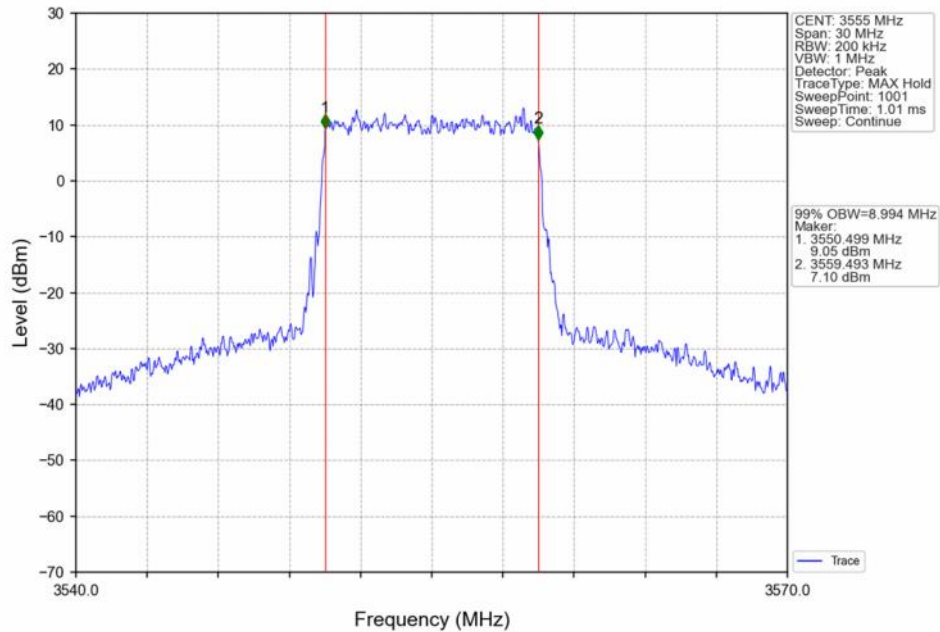
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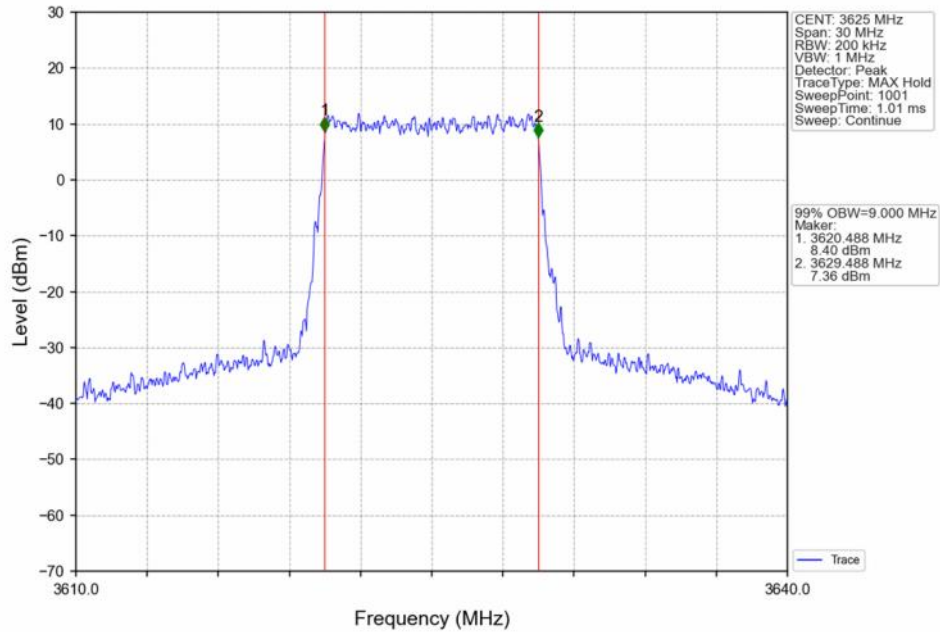
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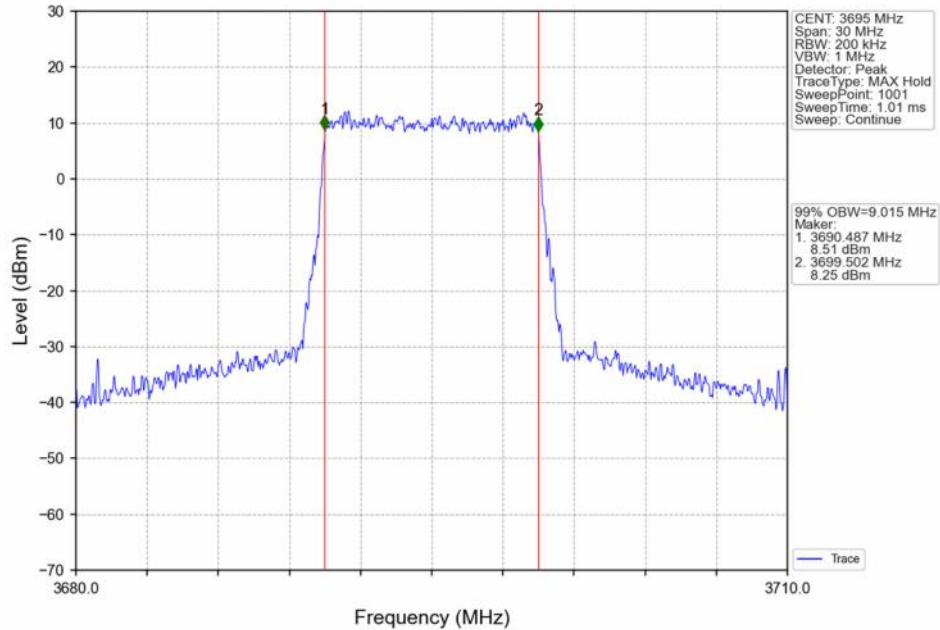
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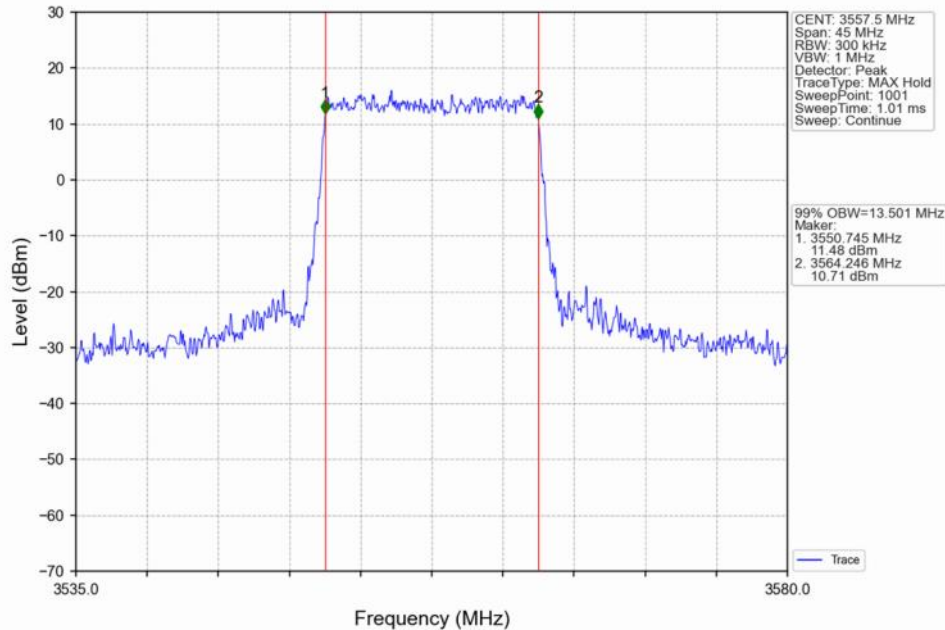
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Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV



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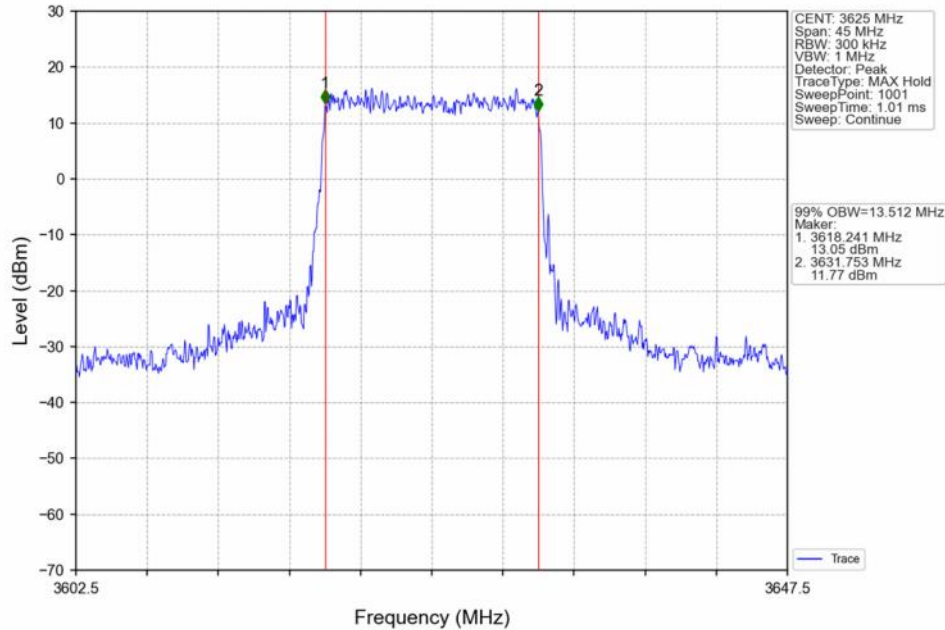
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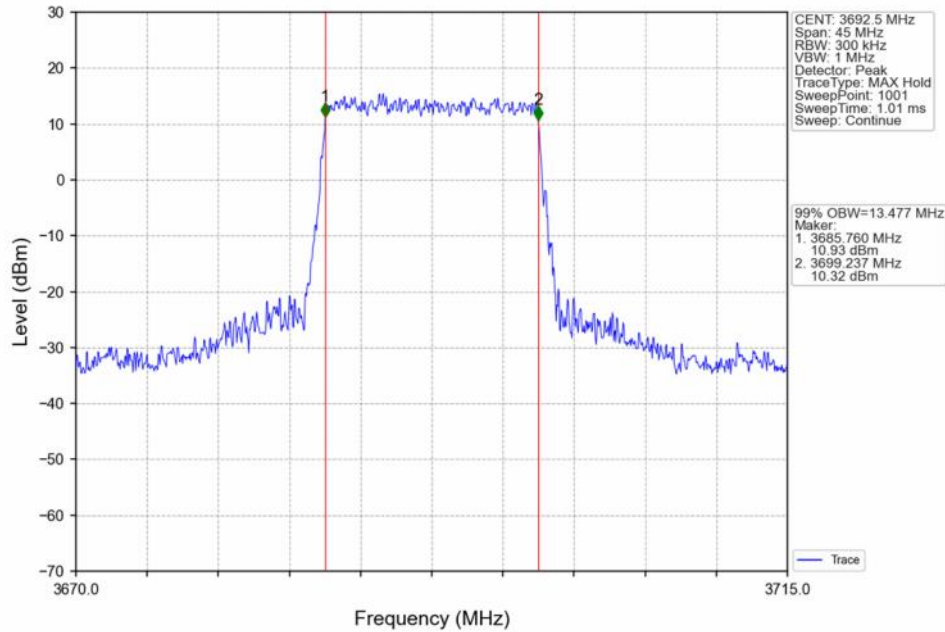
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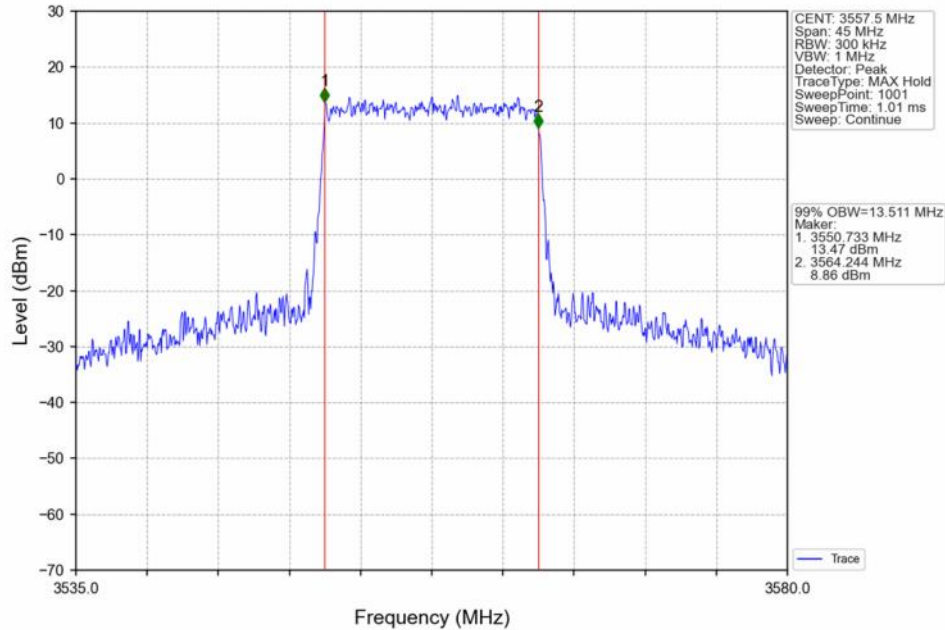
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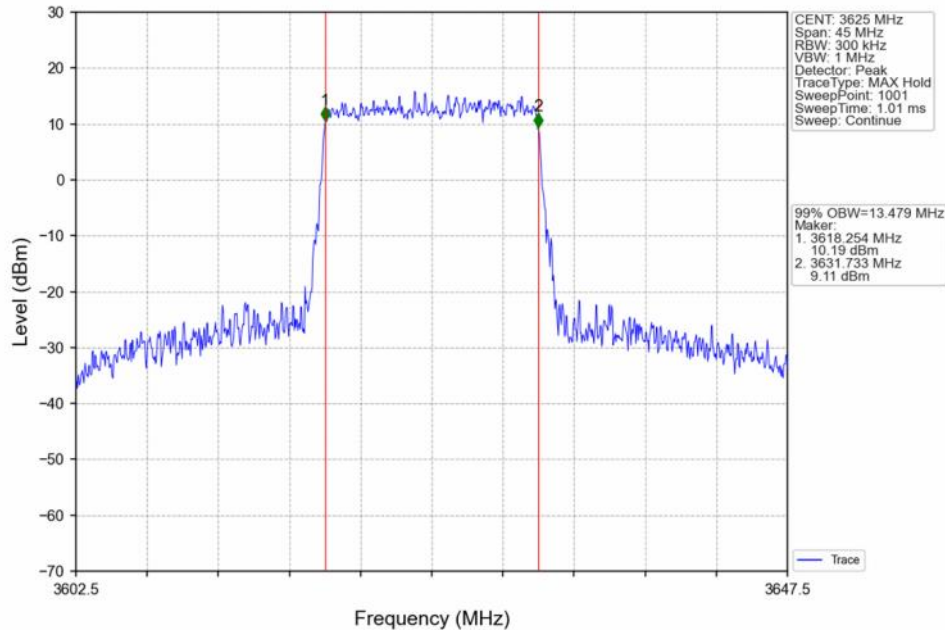
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Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



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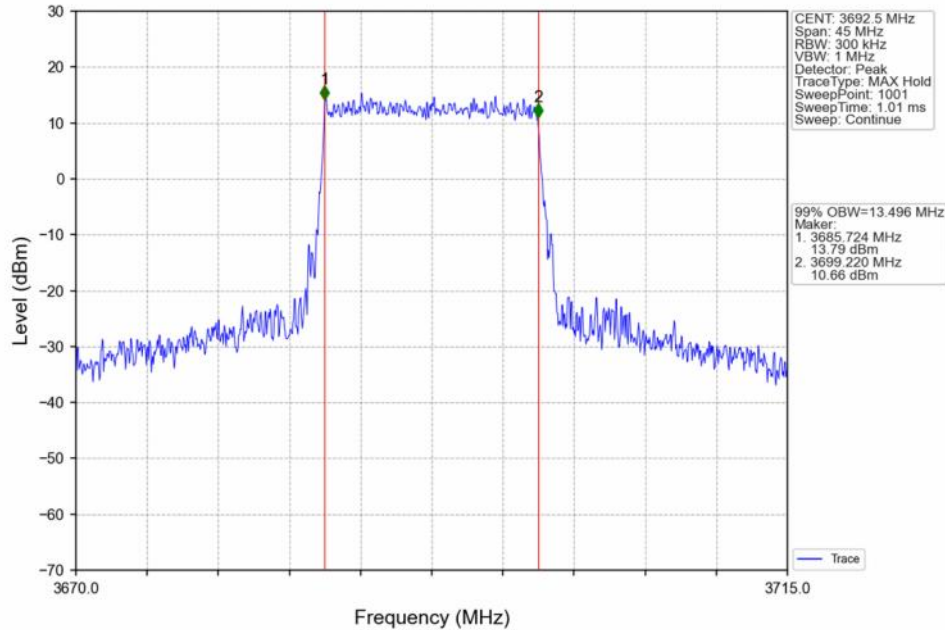
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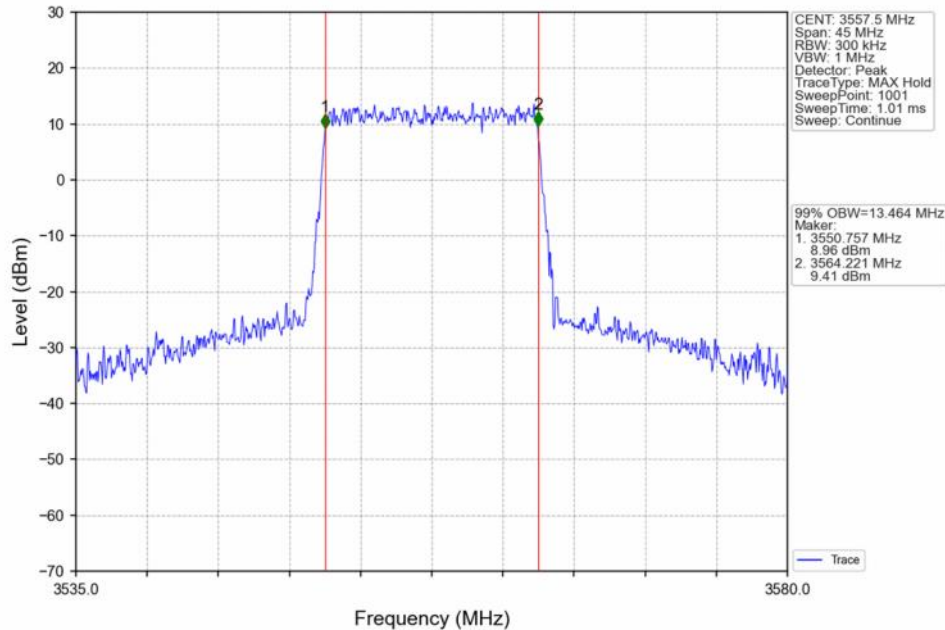
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Band48\_15MHz\_64QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV



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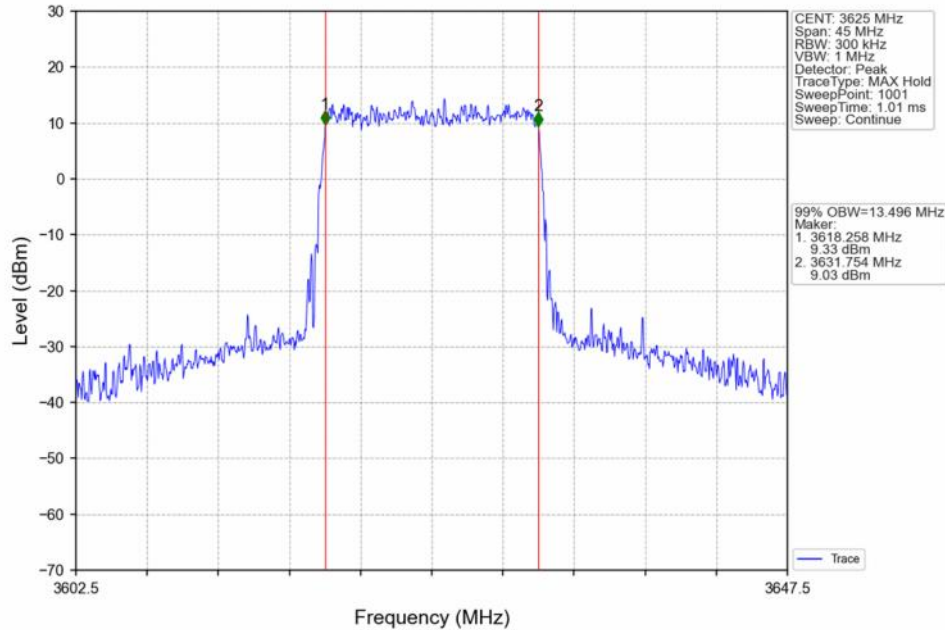
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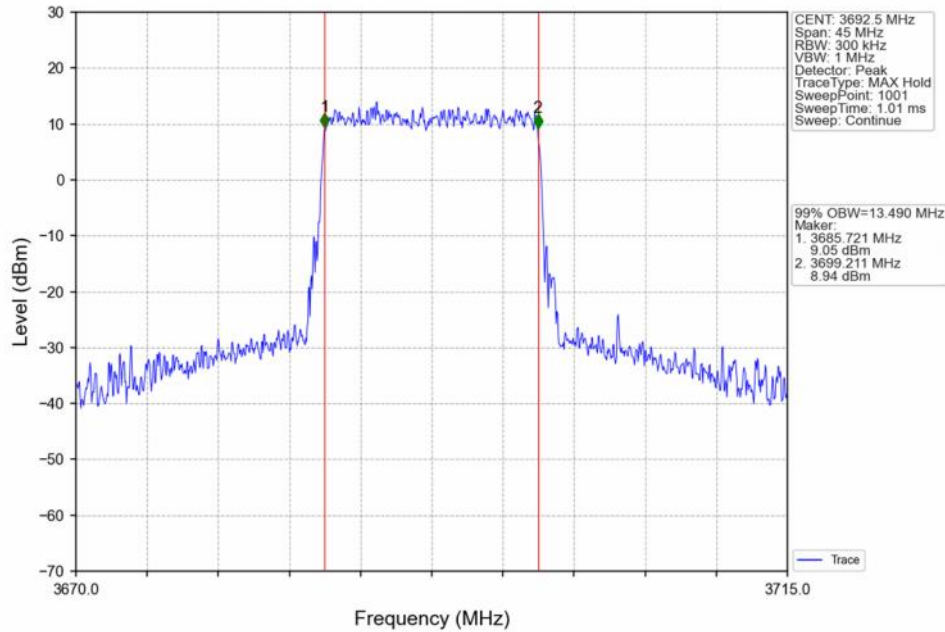
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Band48\_15MHz\_256QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



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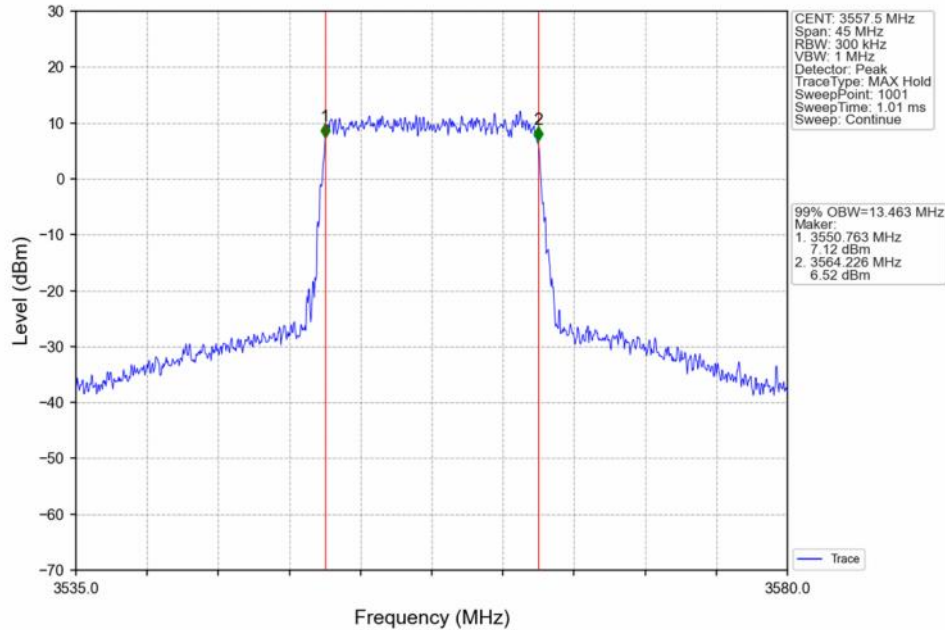
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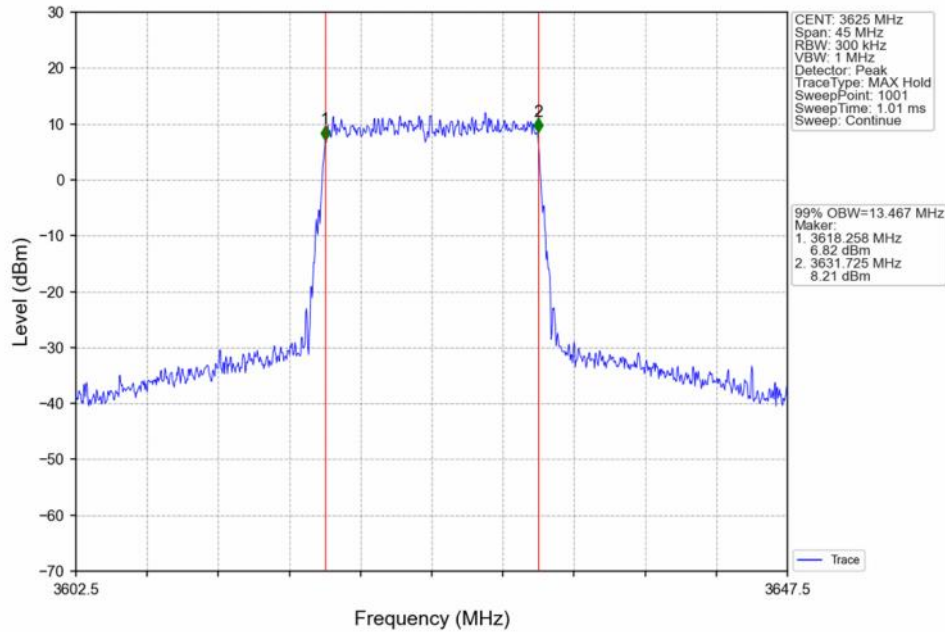
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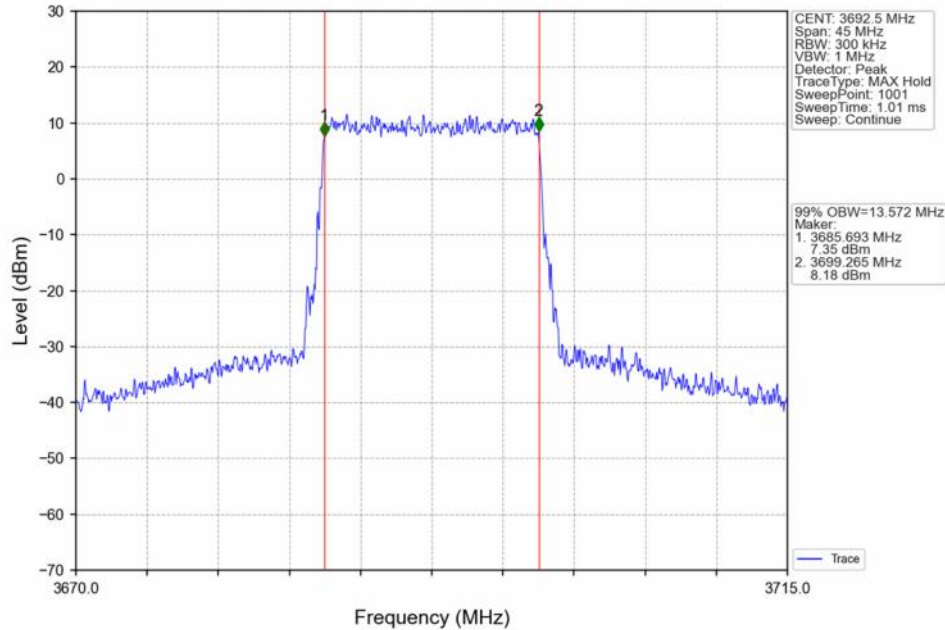
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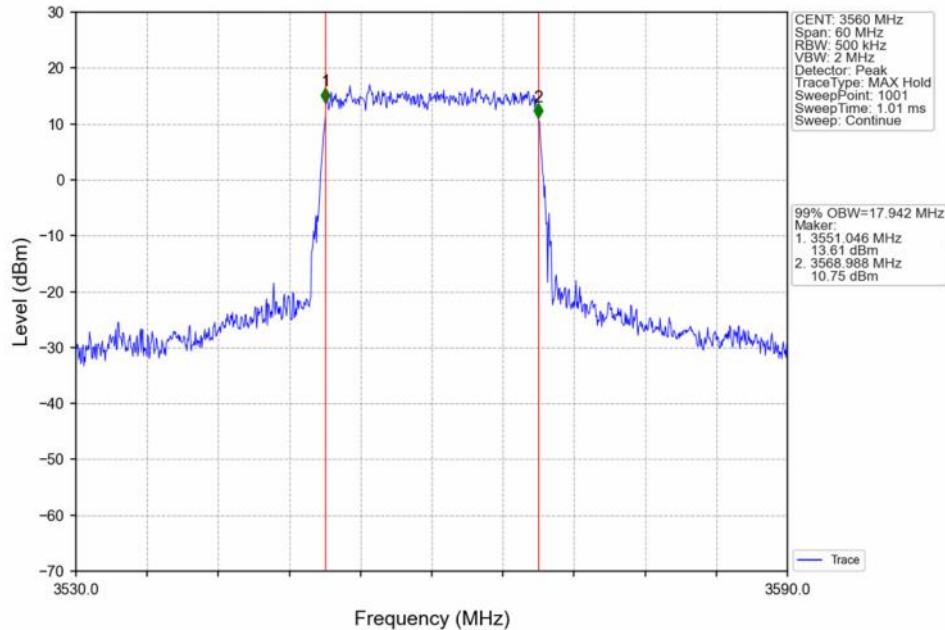
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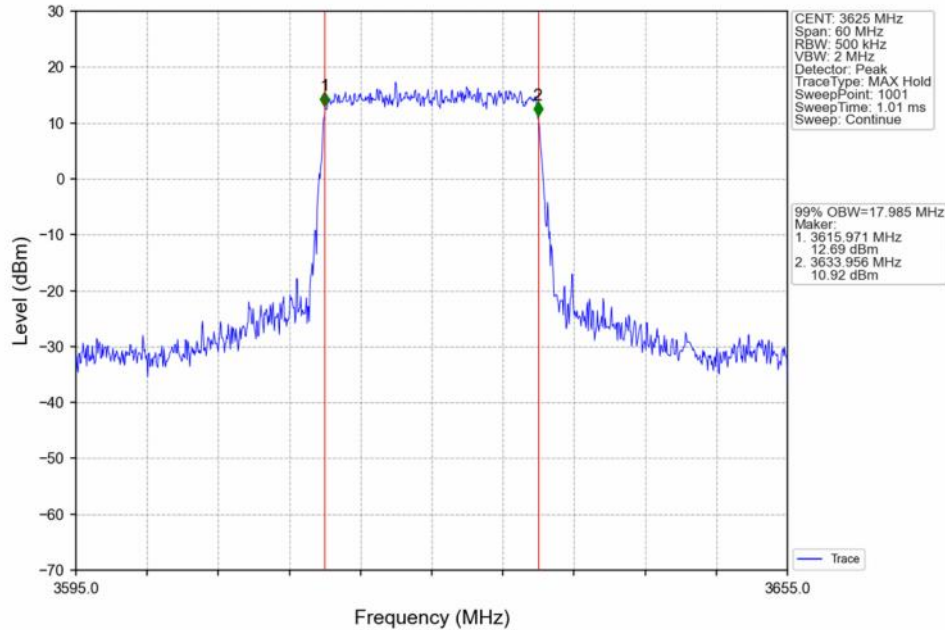
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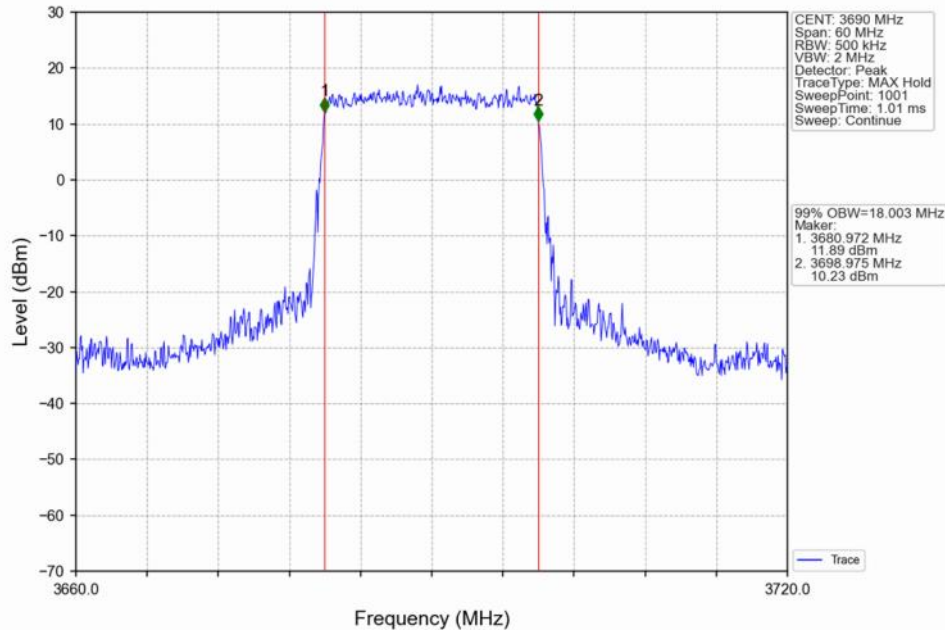
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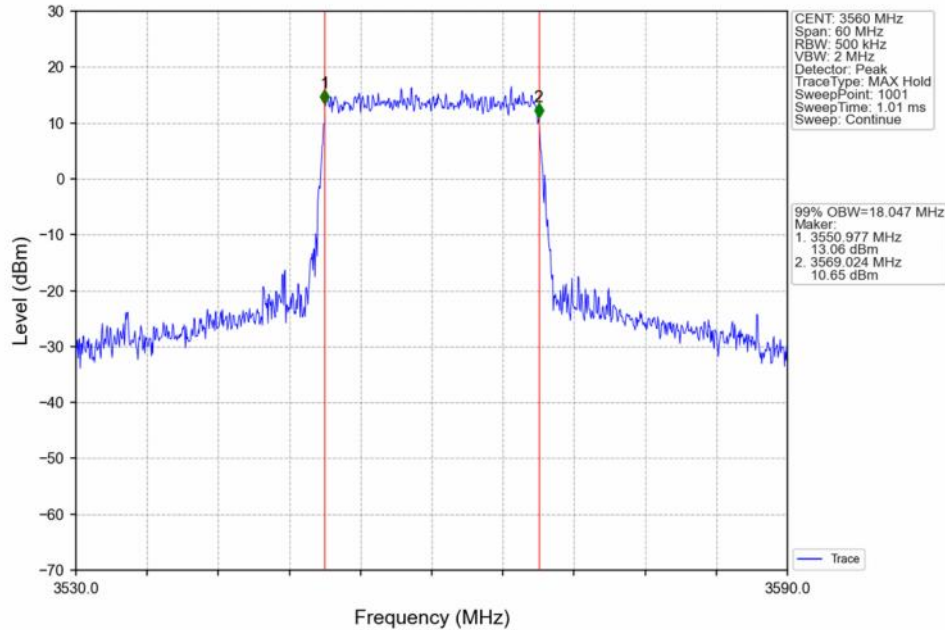
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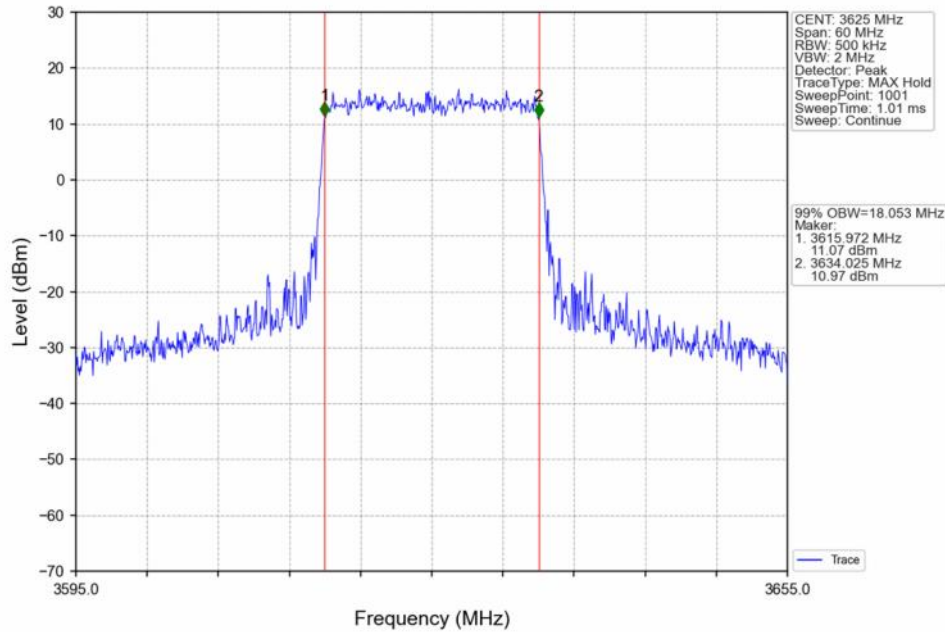
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Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



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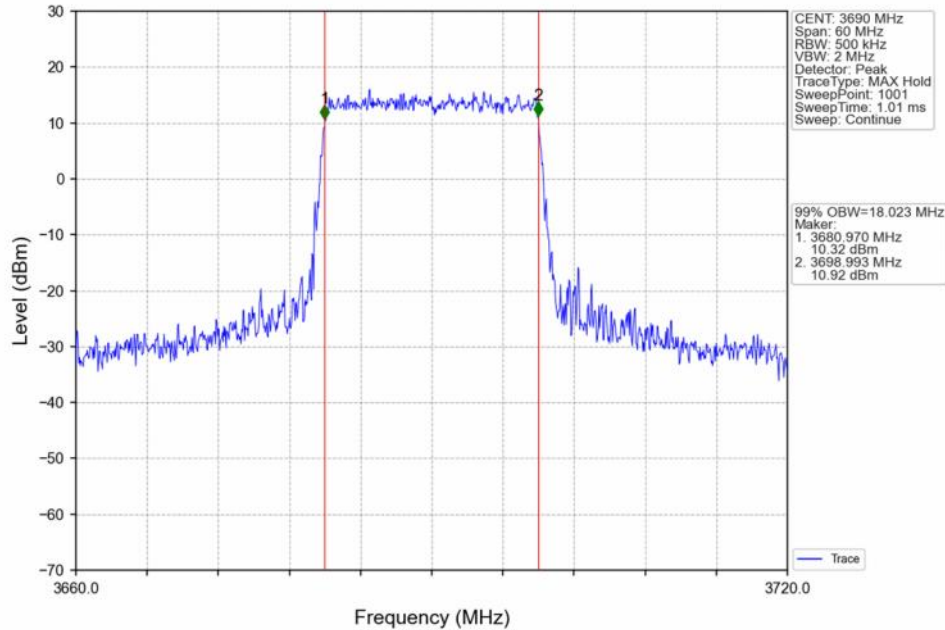
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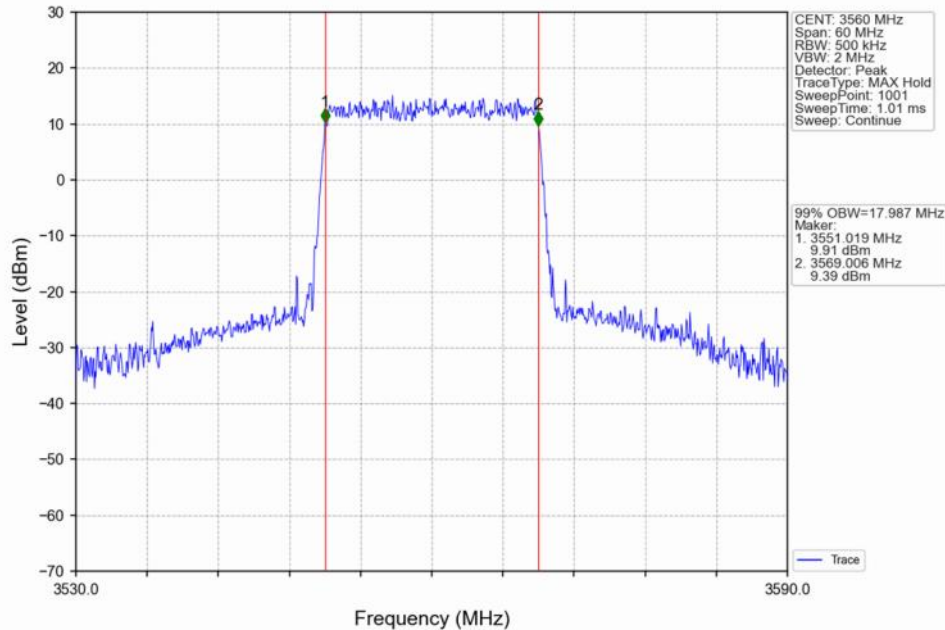
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Band48\_20MHz\_64QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



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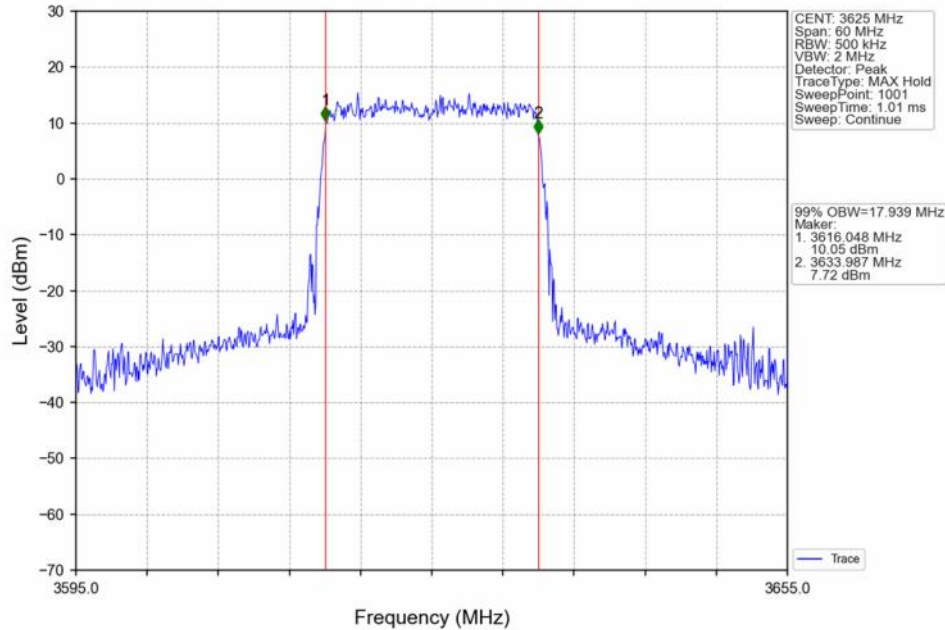
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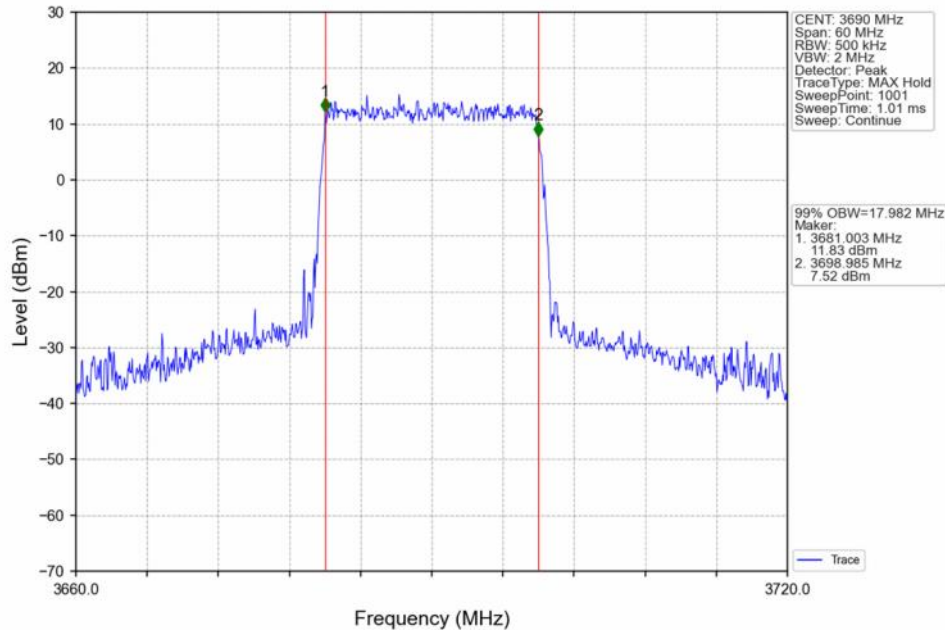
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Band48\_20MHz\_256QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



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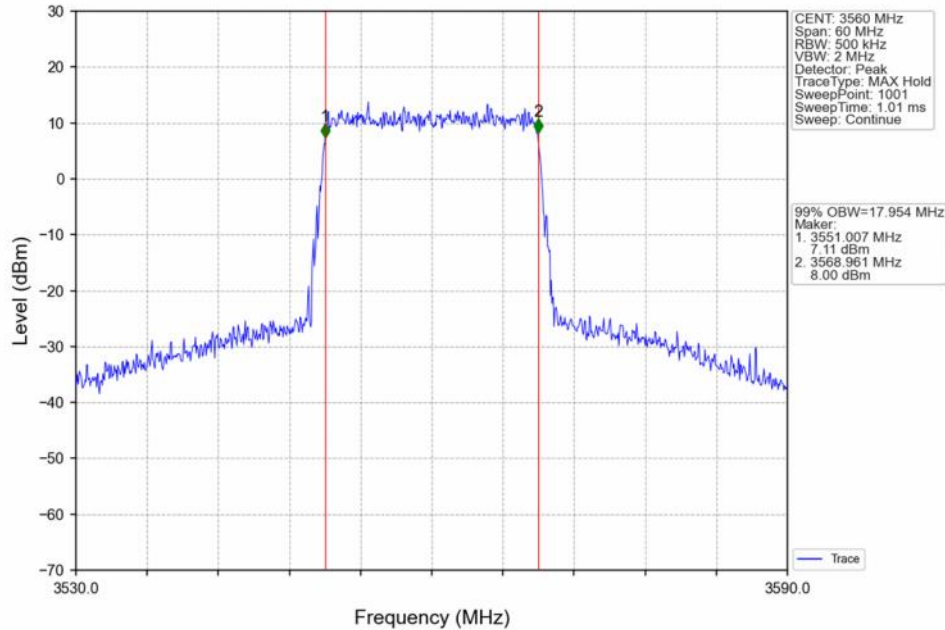
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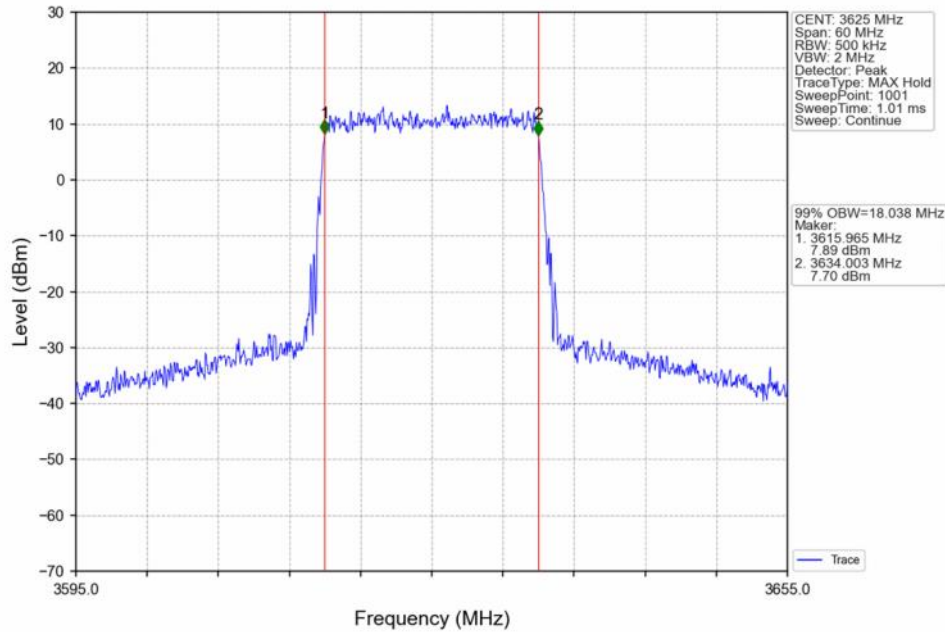
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Band48\_20MHz\_256QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



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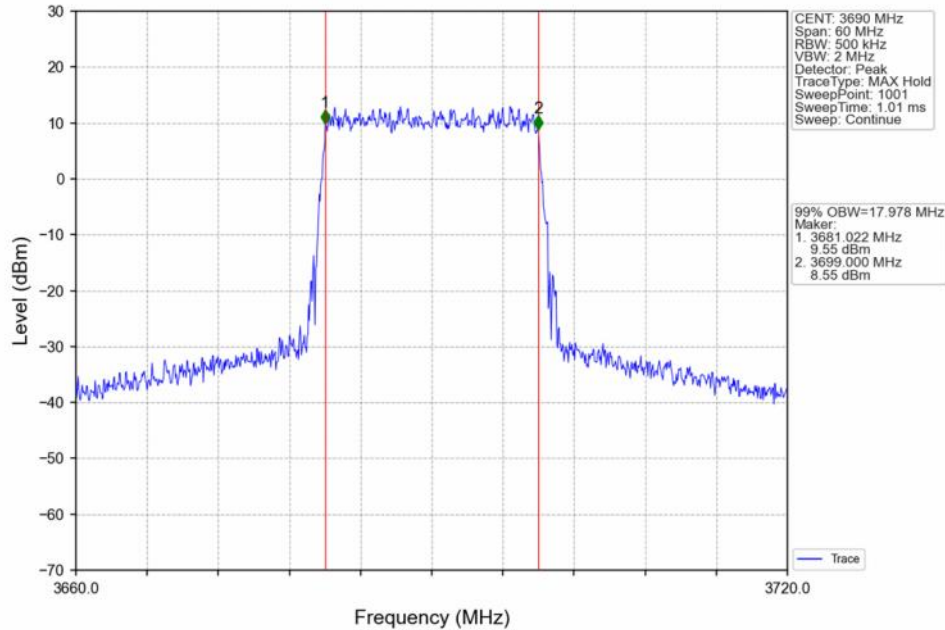
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## 3.2 Band48\_XDB

### 3.2.1 Test Result

| Band: 48 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 3552.5          | 25            | 0      | 5.157                | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 5.157                | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 5.201                | /     | Pass    |
|                 | 16QAM      | 3552.5          | 25            | 0      | 5.234                | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 5.180                | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 5.204                | /     | Pass    |
|                 | 64QAM      | 3552.5          | 25            | 0      | 4.842                | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 4.798                | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 4.820                | /     | Pass    |
|                 | 256QAM     | 3552.5          | 25            | 0      | 5.151                | /     | Pass    |
|                 |            | 3625            | 25            | 0      | 5.145                | /     | Pass    |
|                 |            | 3697.5          | 25            | 0      | 5.149                | /     | Pass    |
| 10              | QPSK       | 3555            | 50            | 0      | 9.853                | /     | Pass    |
|                 |            | 3625            | 50            | 0      | 9.919                | /     | Pass    |
|                 |            | 3695            | 50            | 0      | 10.035               | /     | Pass    |
|                 | 16QAM      | 3555            | 50            | 0      | 9.982                | /     | Pass    |
|                 |            | 3625            | 50            | 0      | 9.910                | /     | Pass    |
|                 |            | 3695            | 50            | 0      | 9.941                | /     | Pass    |
|                 | 64QAM      | 3555            | 50            | 0      | 9.853                | /     | Pass    |
|                 |            | 3625            | 50            | 0      | 9.890                | /     | Pass    |
|                 |            | 3695            | 50            | 0      | 10.033               | /     | Pass    |
|                 | 256QAM     | 3555            | 50            | 0      | 9.885                | /     | Pass    |
|                 |            | 3625            | 50            | 0      | 9.897                | /     | Pass    |
|                 |            | 3695            | 50            | 0      | 9.973                | /     | Pass    |
| 15              | QPSK       | 3557.5          | 75            | 0      | 14.692               | /     | Pass    |
|                 |            | 3625            | 75            | 0      | 14.871               | /     | Pass    |
|                 |            | 3692.5          | 75            | 0      | 14.796               | /     | Pass    |
|                 | 16QAM      | 3557.5          | 75            | 0      | 14.785               | /     | Pass    |
|                 |            | 3625            | 75            | 0      | 14.693               | /     | Pass    |
|                 |            | 3692.5          | 75            | 0      | 14.892               | /     | Pass    |
|                 | 64QAM      | 3557.5          | 75            | 0      | 14.792               | /     | Pass    |
|                 |            | 3625            | 75            | 0      | 14.468               | /     | Pass    |
|                 |            | 3692.5          | 75            | 0      | 14.784               | /     | Pass    |
|                 | 256QAM     | 3557.5          | 75            | 0      | 14.698               | /     | Pass    |
|                 |            | 3625            | 75            | 0      | 14.731               | /     | Pass    |
|                 |            | 3692.5          | 75            | 0      | 14.678               | /     | Pass    |
| 20              | QPSK       | 3560            | 100           | 0      | 19.771               | /     | Pass    |
|                 |            | 3625            | 100           | 0      | 19.572               | /     | Pass    |
|                 |            | 3690            | 100           | 0      | 19.714               | /     | Pass    |



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|  |        |      |     |   |        |   |      |
|--|--------|------|-----|---|--------|---|------|
|  | 16QAM  | 3560 | 100 | 0 | 19.476 | / | Pass |
|  |        | 3625 | 100 | 0 | 19.550 | / | Pass |
|  |        | 3690 | 100 | 0 | 19.748 | / | Pass |
|  | 64QAM  | 3560 | 100 | 0 | 19.403 | / | Pass |
|  |        | 3625 | 100 | 0 | 19.577 | / | Pass |
|  |        | 3690 | 100 | 0 | 19.369 | / | Pass |
|  | 256QAM | 3560 | 100 | 0 | 19.845 | / | Pass |
|  |        | 3625 | 100 | 0 | 19.629 | / | Pass |
|  |        | 3690 | 100 | 0 | 19.507 | / | Pass |
|  |        |      |     |   |        |   |      |



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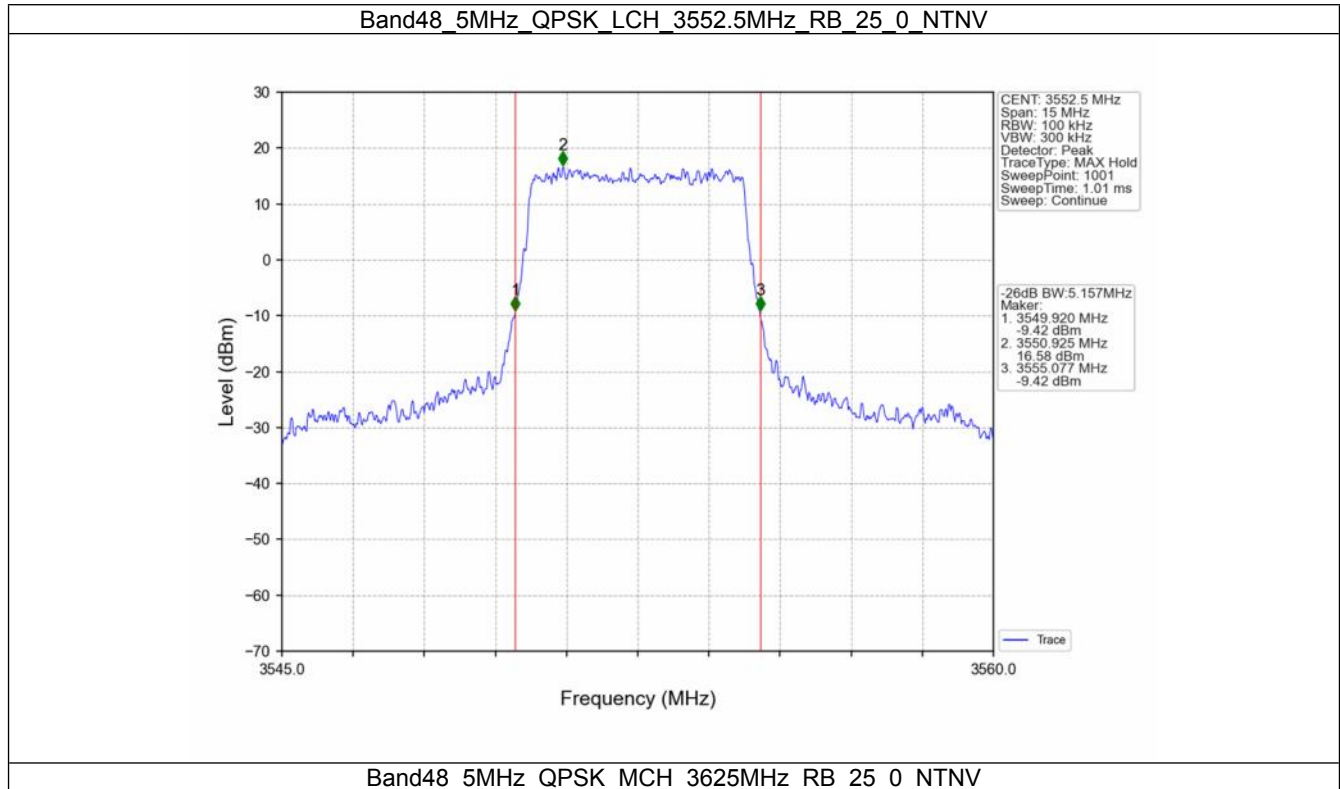
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### 3.2.2 Test Graph



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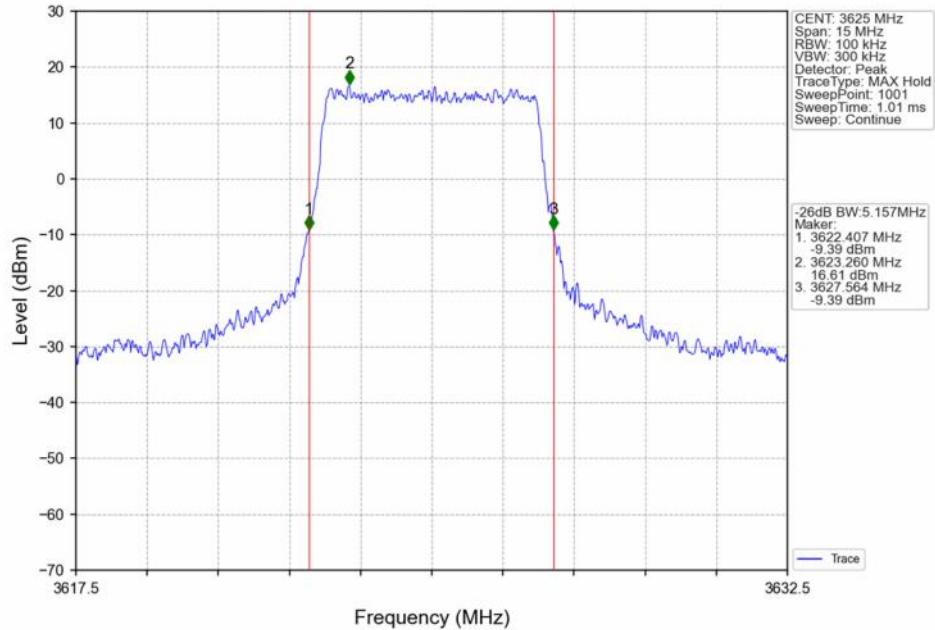
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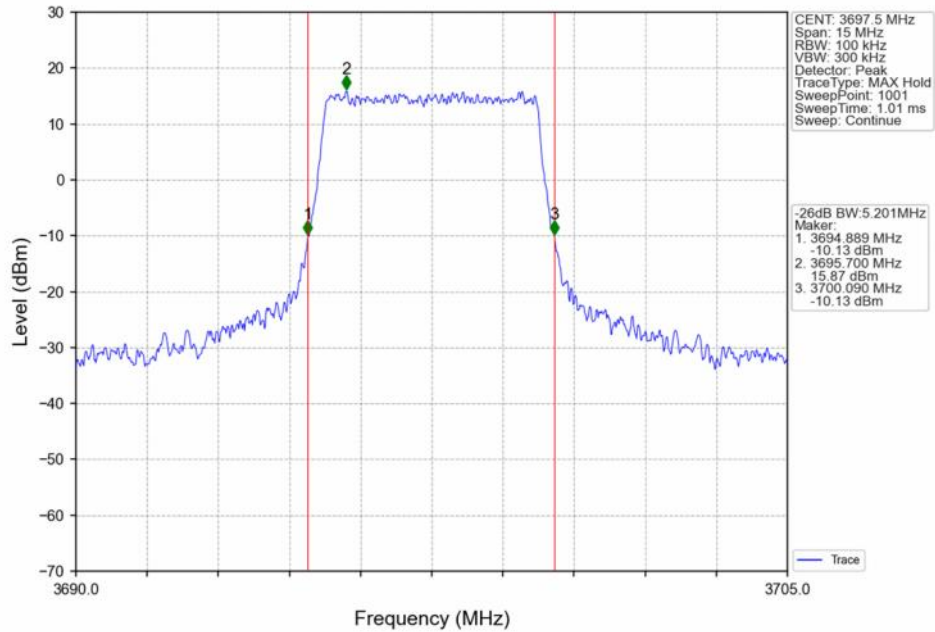
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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



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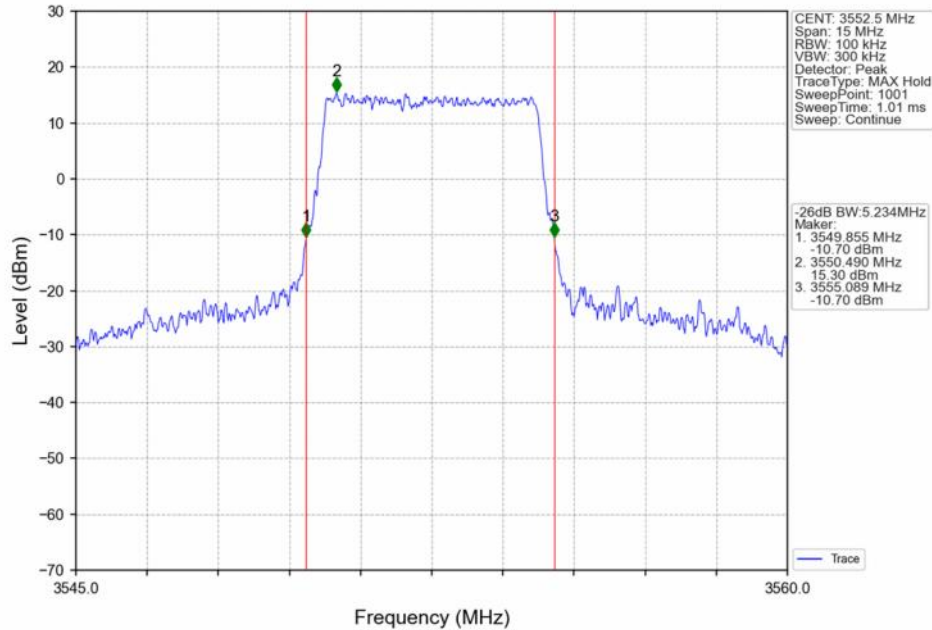
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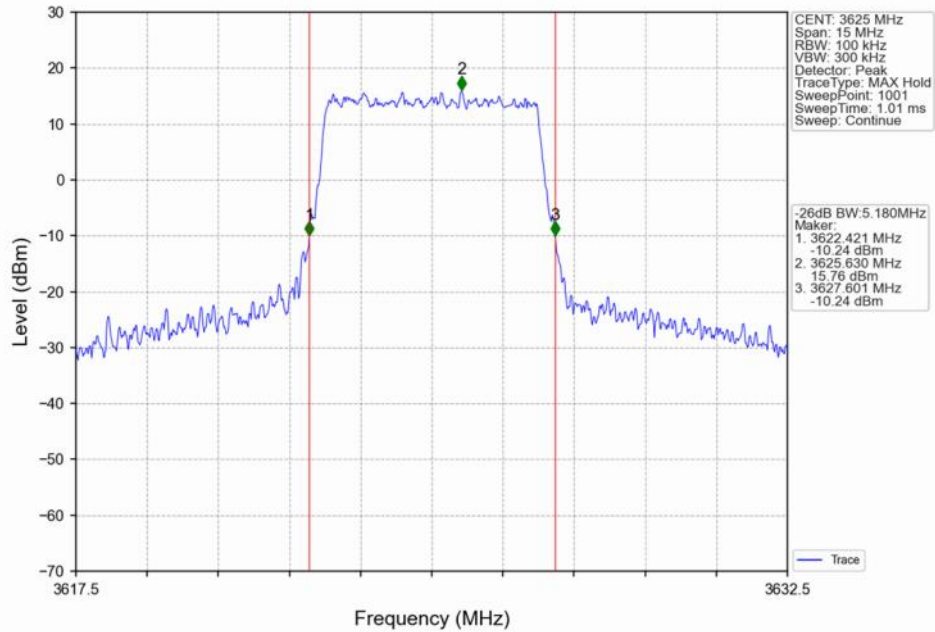
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Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



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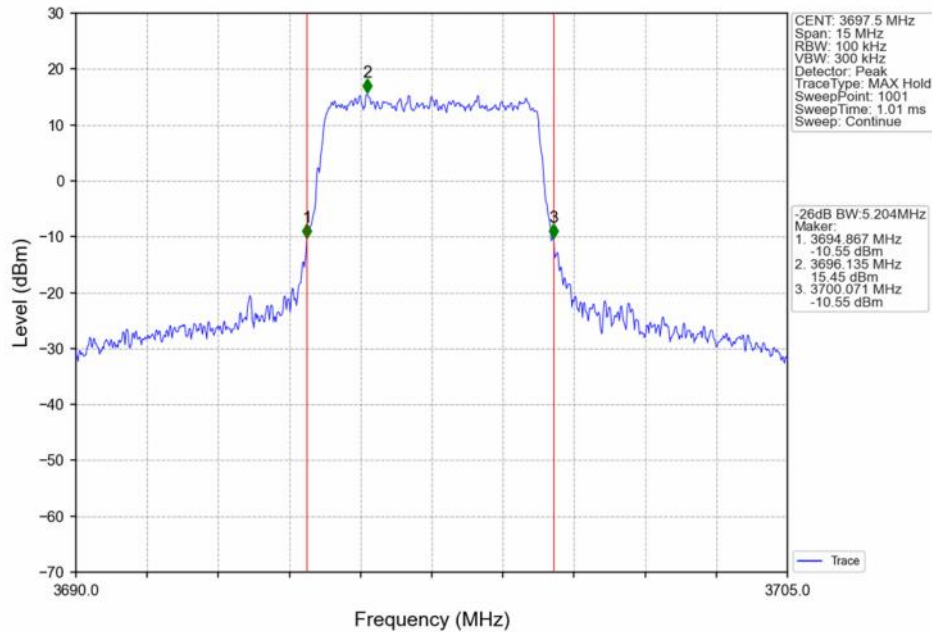
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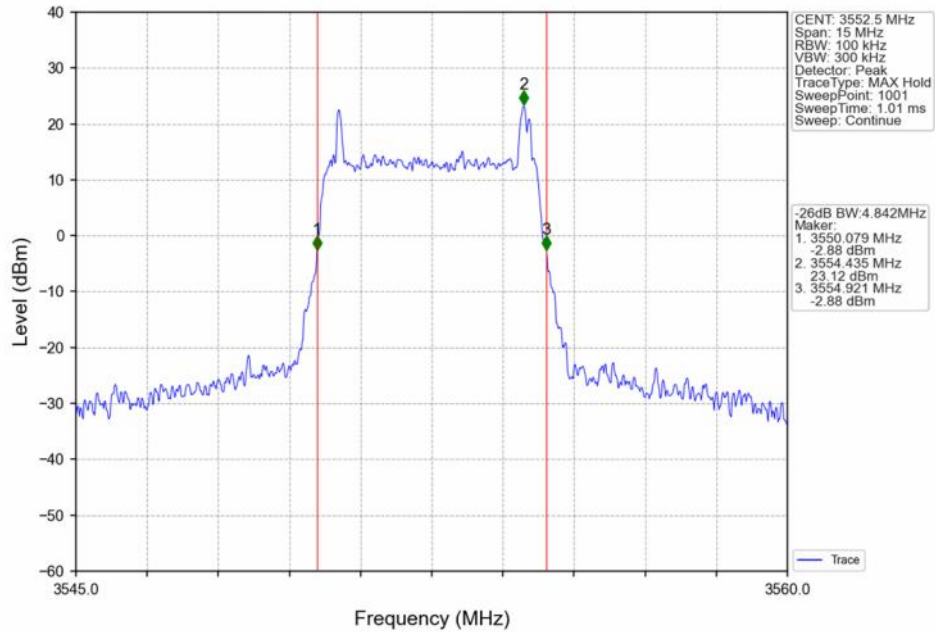
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Band48\_5MHz\_64QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



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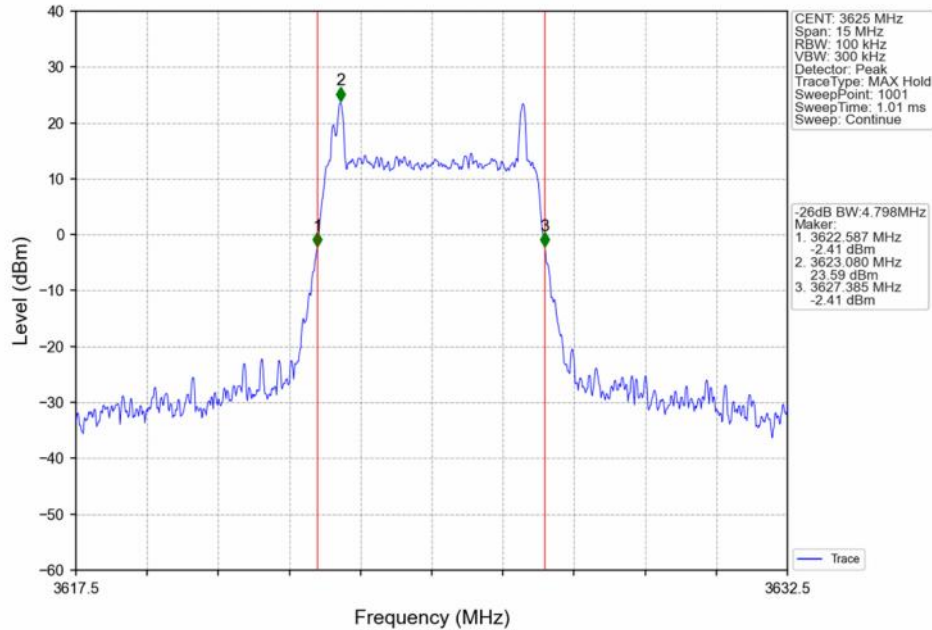
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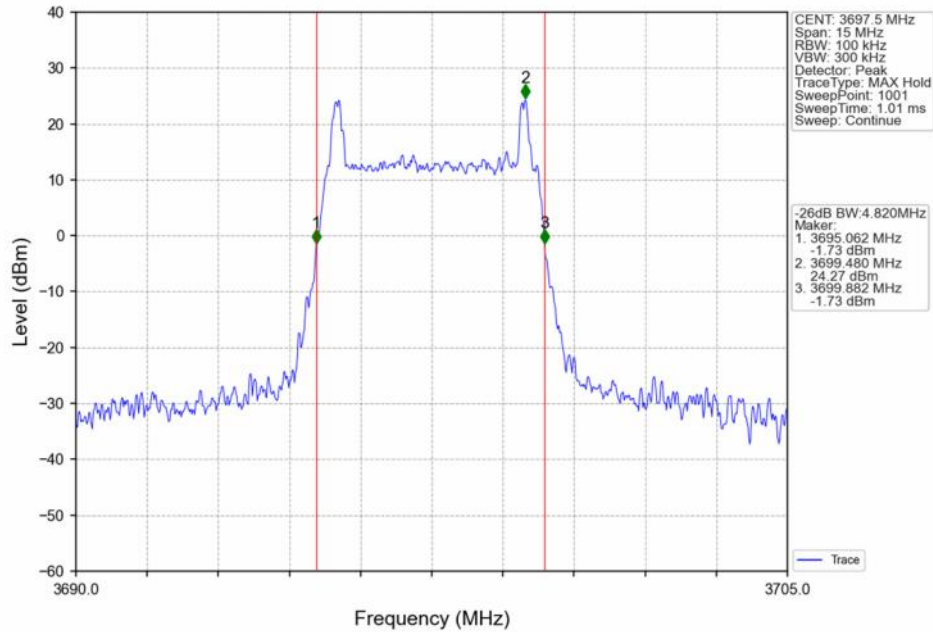
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Band48\_5MHz\_256QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



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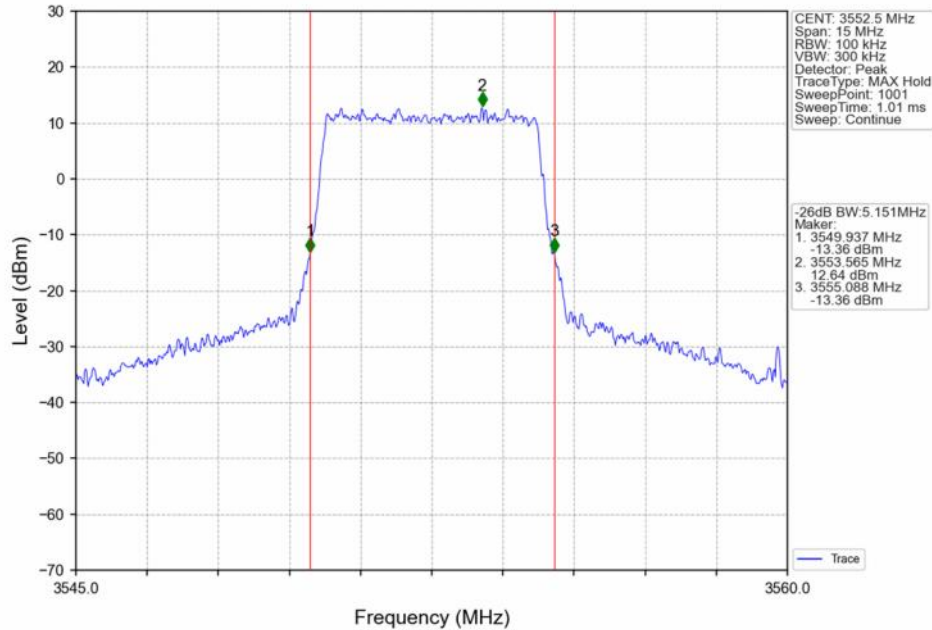
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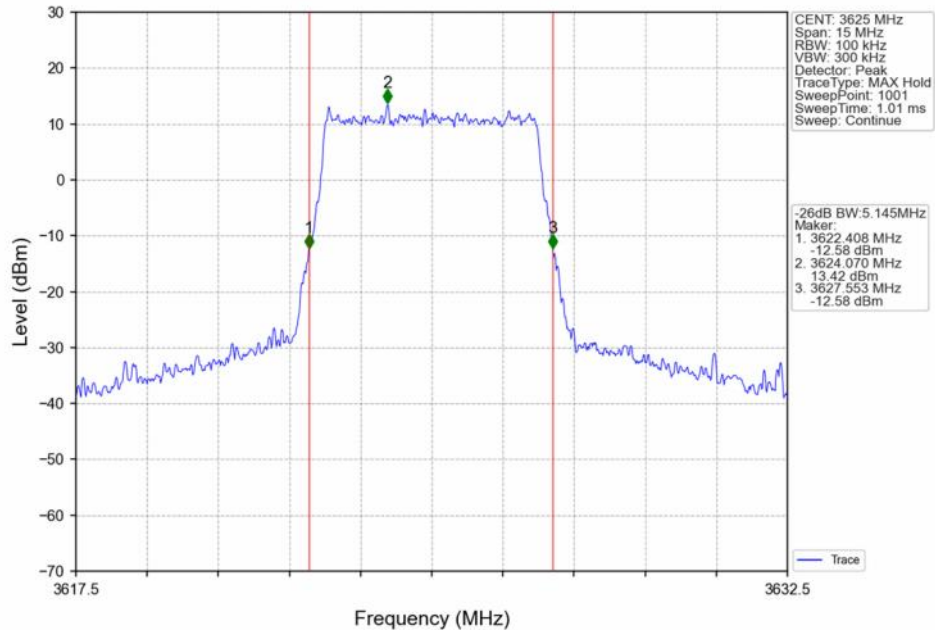
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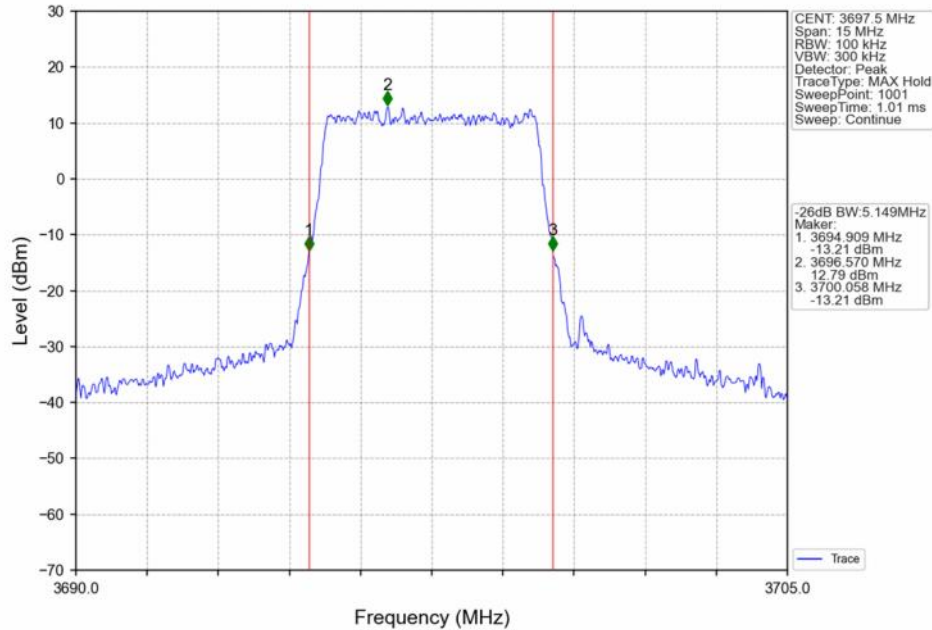
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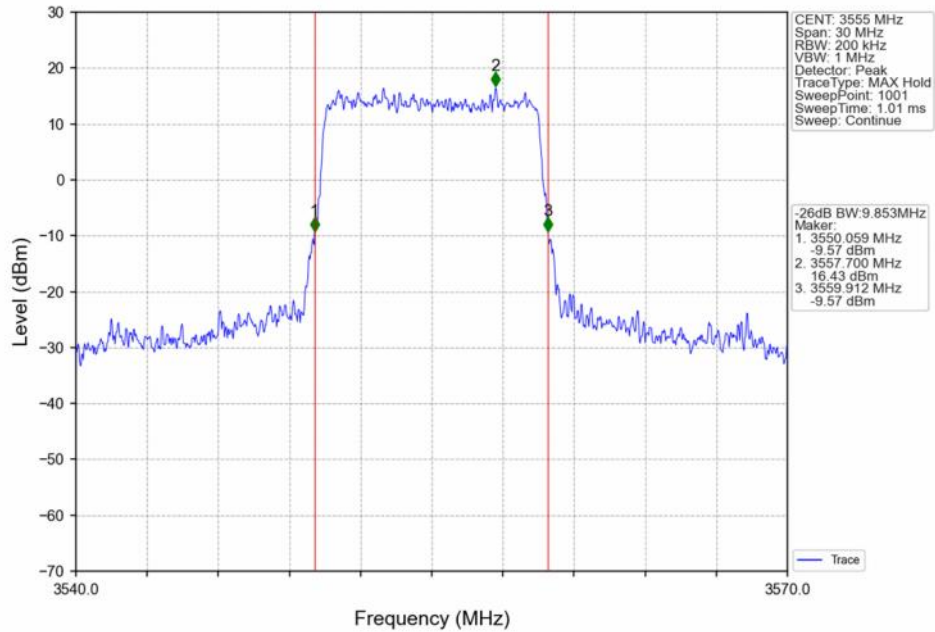
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Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



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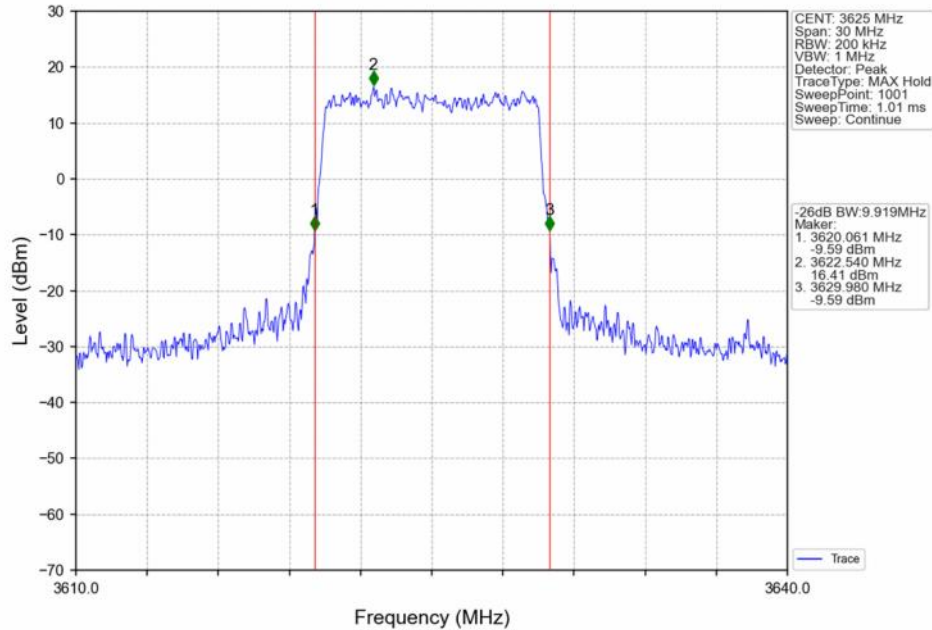
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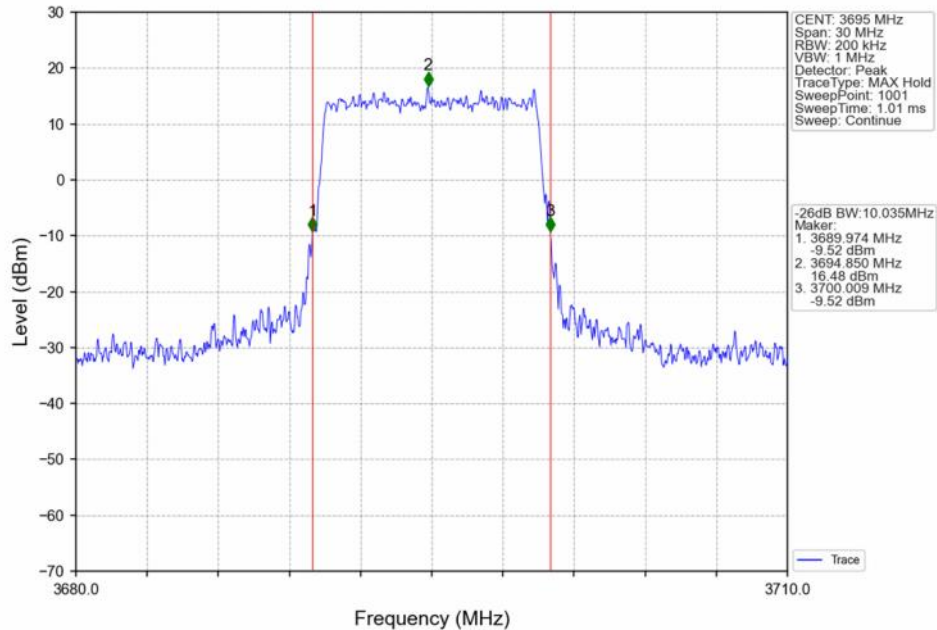
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Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



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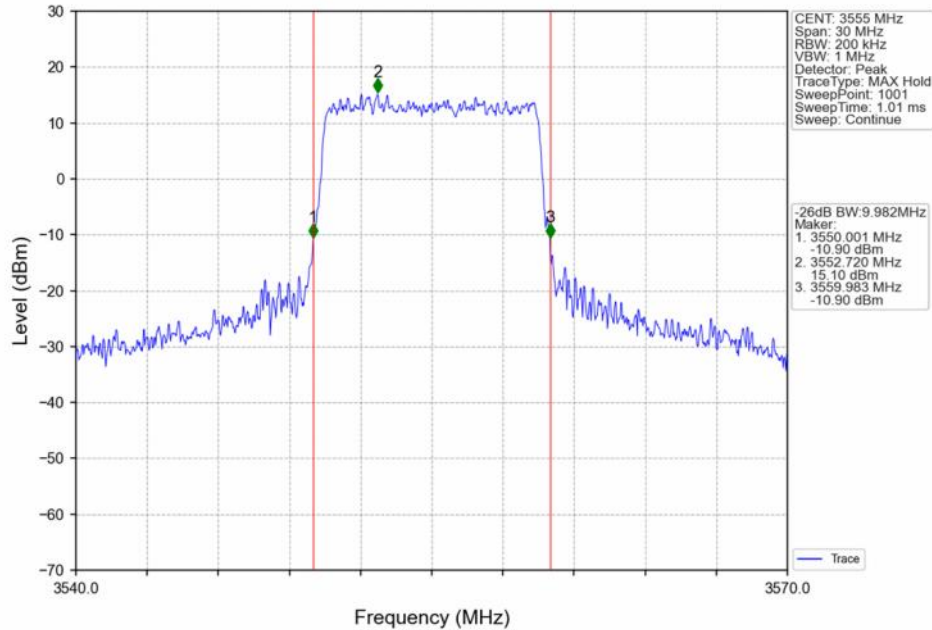
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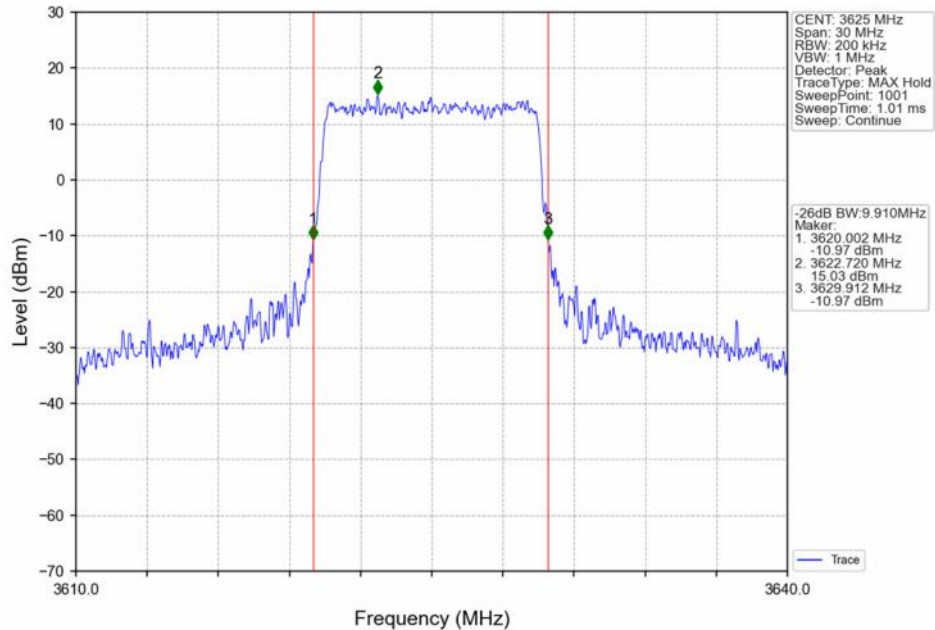
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Band48\_10MHz\_16QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV



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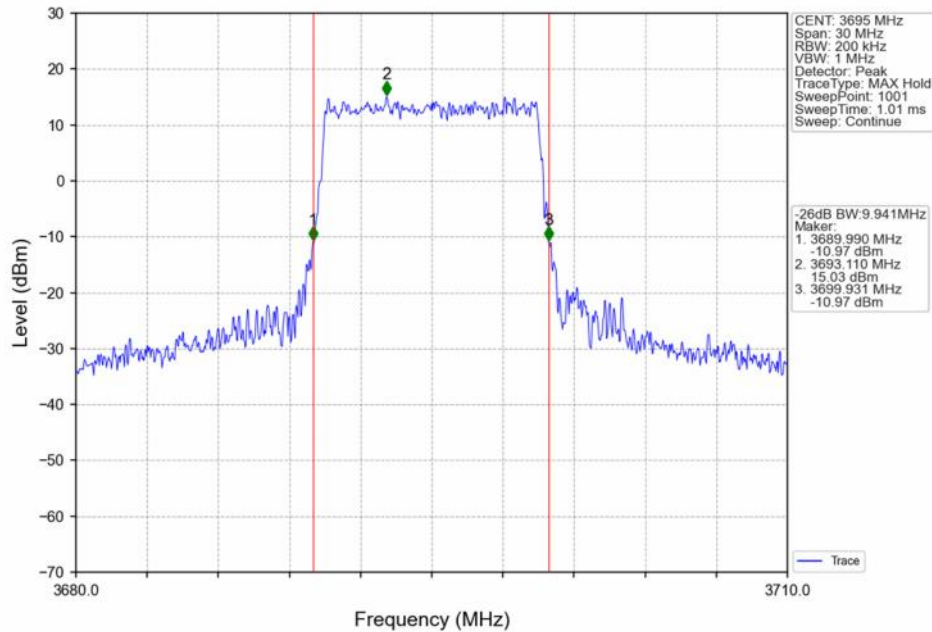
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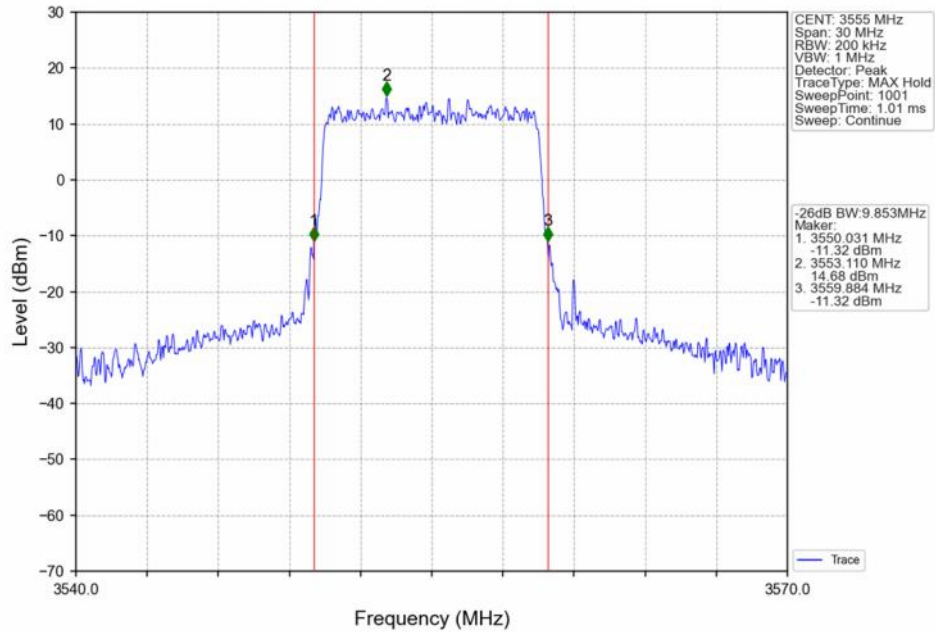
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Band48\_10MHz\_64QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_64QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV



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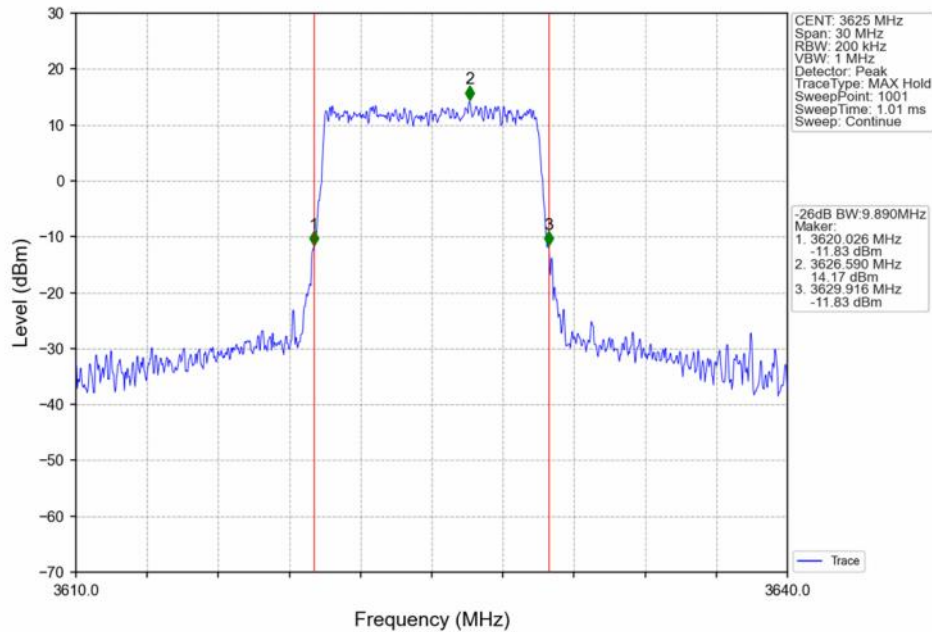
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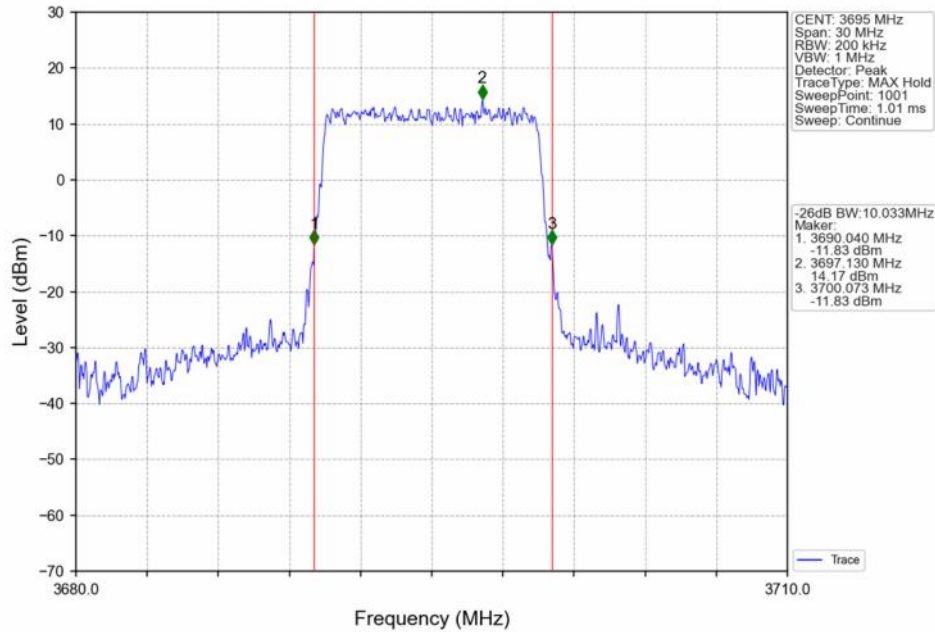
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Band48\_10MHz\_64QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_256QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



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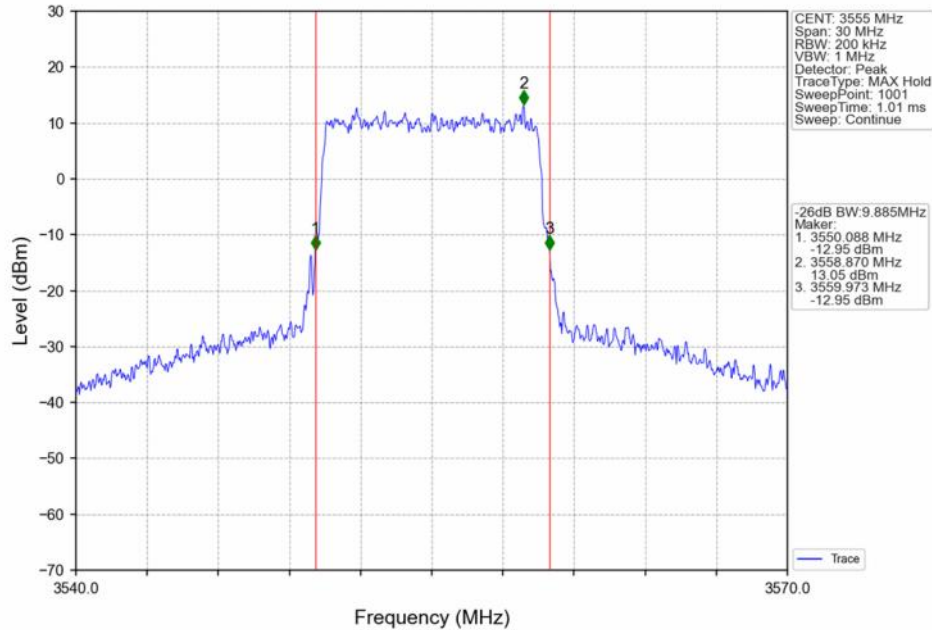
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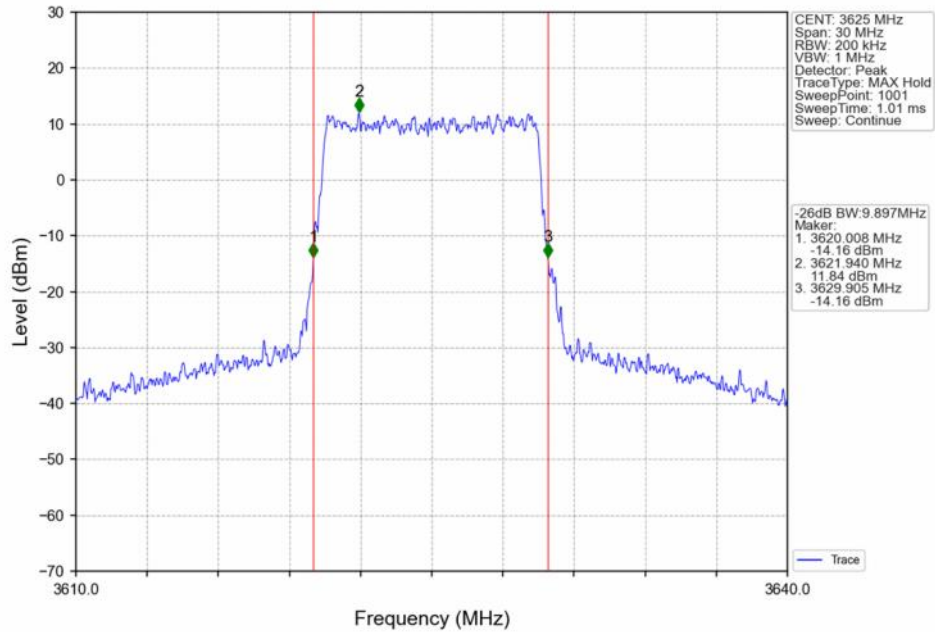
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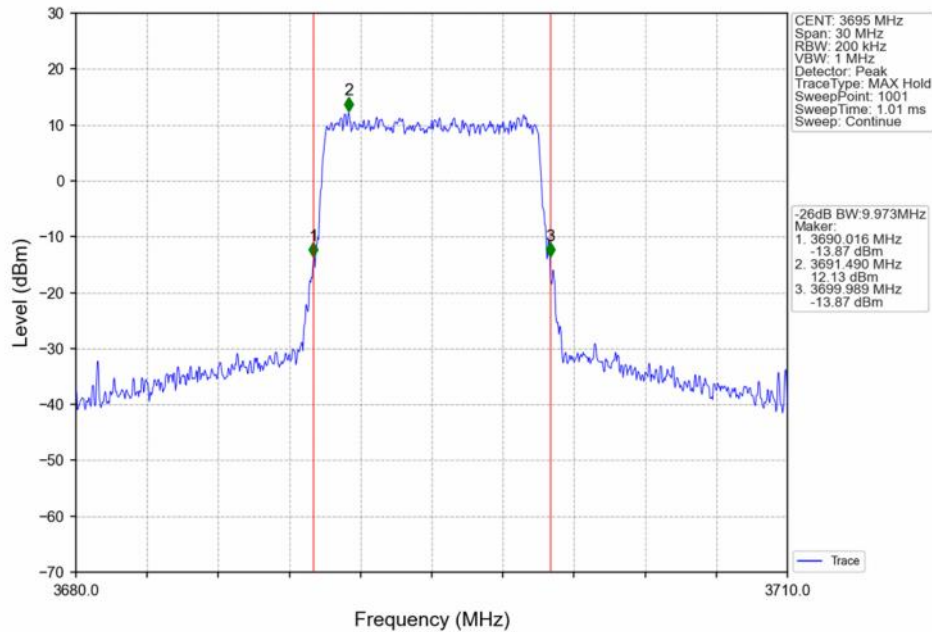
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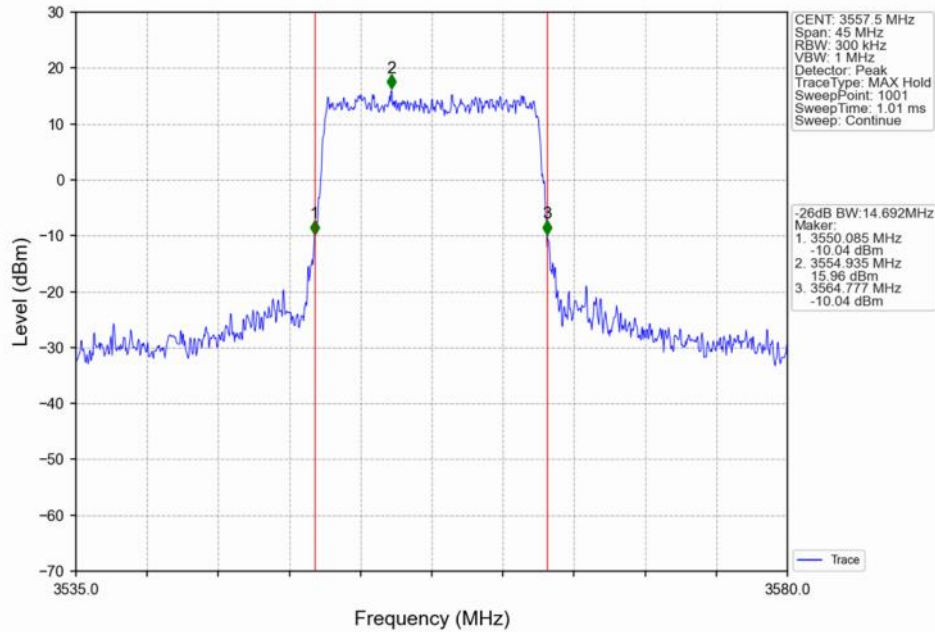
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Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV



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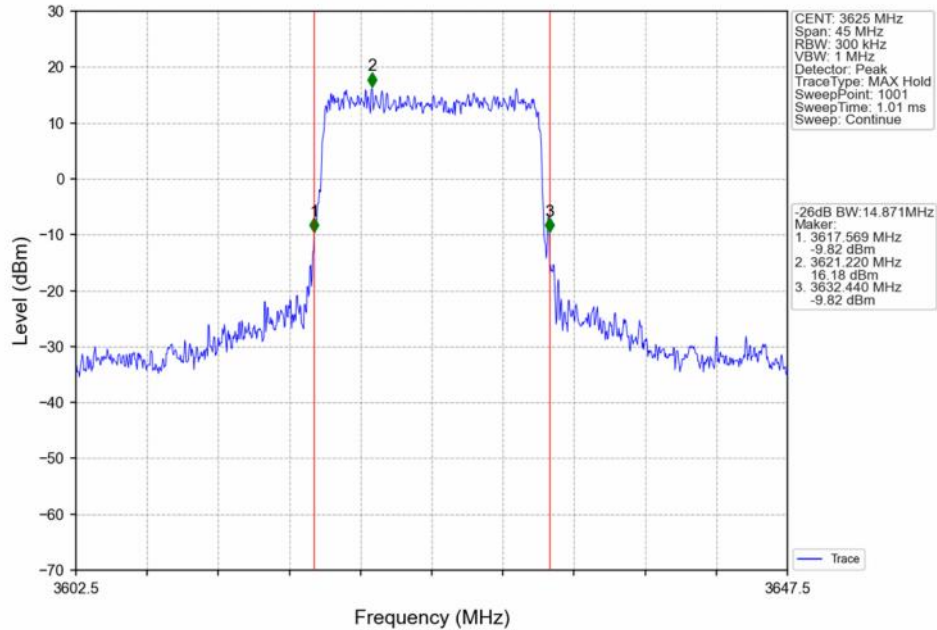
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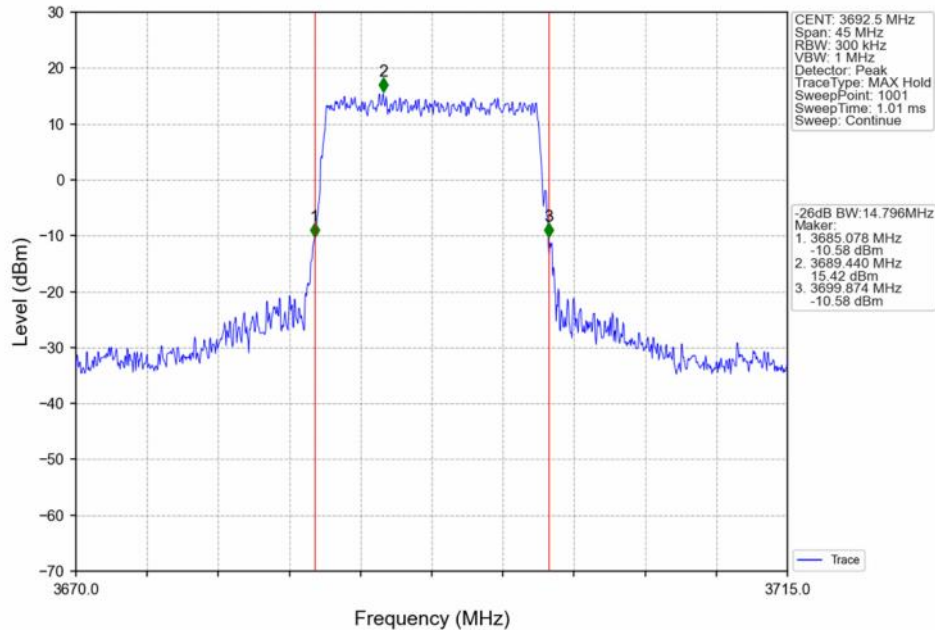
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Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



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