

# Appendix-A LTE Band 48

## Effective (Isotropic) Radiated Power Output Data

### Test Result

Ant8 Main:

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | EIRP (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|--------------|------------|---------|
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#0            | 17.52        | 22.12      | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#12           | 17.58        | 22.18      | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#24           | 17.47        | 22.07      | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 1RB#0            | 17.32        | 21.92      | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 1RB#12           | 17.17        | 21.77      | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 1RB#24           | 17.09        | 21.69      | PASS    |
| Band48 | 5MHz      | 64QAM      | 55265   | 1RB#0            | 15.72        | 20.32      | PASS    |
| Band48 | 5MHz      | 64QAM      | 55265   | 1RB#12           | 16.14        | 20.74      | PASS    |
| Band48 | 5MHz      | 64QAM      | 55265   | 1RB#24           | 15.84        | 20.44      | PASS    |
| Band48 | 5MHz      | 256QAM     | 55265   | 1RB#0            | 12.76        | 17.36      | PASS    |
| Band48 | 5MHz      | 256QAM     | 55265   | 1RB#12           | 13.15        | 17.75      | PASS    |
| Band48 | 5MHz      | 256QAM     | 55265   | 1RB#24           | 12.59        | 17.19      | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#0            | 17.41        | 22.01      | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#12           | 17.47        | 22.07      | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#24           | 17.45        | 22.05      | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 1RB#0            | 16.86        | 21.46      | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 1RB#12           | 16.96        | 21.56      | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 1RB#24           | 17.07        | 21.67      | PASS    |
| Band48 | 5MHz      | 64QAM      | 55990   | 1RB#0            | 15.88        | 20.48      | PASS    |
| Band48 | 5MHz      | 64QAM      | 55990   | 1RB#12           | 16.04        | 20.64      | PASS    |
| Band48 | 5MHz      | 64QAM      | 55990   | 1RB#24           | 15.83        | 20.43      | PASS    |
| Band48 | 5MHz      | 256QAM     | 55990   | 1RB#0            | 12.25        | 16.85      | PASS    |
| Band48 | 5MHz      | 256QAM     | 55990   | 1RB#12           | 12.66        | 17.26      | PASS    |
| Band48 | 5MHz      | 256QAM     | 55990   | 1RB#24           | 12.7         | 17.3       | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#0            | 17.05        | 21.65      | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#12           | 17.10        | 21.7       | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#24           | 17.04        | 21.64      | PASS    |
| Band48 | 5MHz      | 64QAM      | 56715   | 1RB#12           | 15.56        | 20.16      | PASS    |
| Band48 | 5MHz      | 64QAM      | 56715   | 1RB#24           | 15.41        | 20.01      | PASS    |
| Band48 | 5MHz      | 256QAM     | 56715   | 1RB#0            | 12.3         | 16.9       | PASS    |
| Band48 | 5MHz      | 256QAM     | 56715   | 1RB#12           | 12.35        | 16.95      | PASS    |
| Band48 | 5MHz      | 256QAM     | 56715   | 1RB#24           | 12.19        | 16.79      | PASS    |
| Band48 | 5MHz      | 64QAM      | 56715   | 1RB#12           | 15.56        | 20.16      | PASS    |
| Band48 | 5MHz      | 64QAM      | 56715   | 1RB#24           | 15.41        | 20.01      | PASS    |
| Band48 | 5MHz      | 256QAM     | 56715   | 1RB#0            | 12.3         | 16.9       | PASS    |

|        |       |        |       |        |       |       |      |
|--------|-------|--------|-------|--------|-------|-------|------|
| Band48 | 5MHz  | 256QAM | 56715 | 1RB#12 | 12.35 | 16.95 | PASS |
| Band48 | 10MHz | QPSK   | 55290 | 1RB#0  | 17.50 | 22.1  | PASS |
| Band48 | 10MHz | QPSK   | 55290 | 1RB#24 | 17.57 | 22.17 | PASS |
| Band48 | 10MHz | QPSK   | 55290 | 1RB#49 | 17.45 | 22.05 | PASS |
| Band48 | 10MHz | 16QAM  | 55290 | 1RB#0  | 16.84 | 21.44 | PASS |
| Band48 | 10MHz | 16QAM  | 55290 | 1RB#24 | 17.26 | 21.86 | PASS |
| Band48 | 10MHz | 16QAM  | 55290 | 1RB#49 | 17.01 | 21.61 | PASS |
| Band48 | 10MHz | 64QAM  | 55290 | 1RB#0  | 16.23 | 20.83 | PASS |
| Band48 | 10MHz | 64QAM  | 55290 | 1RB#24 | 16.17 | 20.77 | PASS |
| Band48 | 10MHz | 64QAM  | 55290 | 1RB#49 | 16.03 | 20.63 | PASS |
| Band48 | 10MHz | 256QAM | 55290 | 1RB#0  | 12.86 | 17.46 | PASS |
| Band48 | 10MHz | 256QAM | 55290 | 1RB#24 | 12.79 | 17.39 | PASS |
| Band48 | 10MHz | 256QAM | 55290 | 1RB#49 | 12.88 | 17.48 | PASS |
| Band48 | 10MHz | QPSK   | 55990 | 1RB#0  | 17.41 | 22.01 | PASS |
| Band48 | 10MHz | QPSK   | 55990 | 1RB#24 | 17.49 | 22.09 | PASS |
| Band48 | 10MHz | QPSK   | 55990 | 1RB#49 | 17.49 | 22.09 | PASS |
| Band48 | 10MHz | 16QAM  | 55990 | 1RB#0  | 17.01 | 21.61 | PASS |
| Band48 | 10MHz | 16QAM  | 55990 | 1RB#24 | 17.04 | 21.64 | PASS |
| Band48 | 10MHz | 16QAM  | 55990 | 1RB#49 | 17.13 | 21.73 | PASS |
| Band48 | 10MHz | 64QAM  | 55990 | 1RB#0  | 15.89 | 20.49 | PASS |
| Band48 | 10MHz | 64QAM  | 55990 | 1RB#24 | 16.01 | 20.61 | PASS |
| Band48 | 10MHz | 64QAM  | 55990 | 1RB#49 | 15.96 | 20.56 | PASS |
| Band48 | 10MHz | 256QAM | 55990 | 1RB#0  | 12.19 | 16.79 | PASS |
| Band48 | 10MHz | 256QAM | 55990 | 1RB#24 | 12.8  | 17.4  | PASS |
| Band48 | 10MHz | 256QAM | 55990 | 1RB#49 | 13.04 | 17.64 | PASS |
| Band48 | 10MHz | QPSK   | 56690 | 1RB#0  | 17.13 | 21.73 | PASS |
| Band48 | 10MHz | QPSK   | 56690 | 1RB#24 | 17.14 | 21.74 | PASS |
| Band48 | 10MHz | QPSK   | 56690 | 1RB#49 | 17.11 | 21.71 | PASS |
| Band48 | 10MHz | 16QAM  | 56690 | 1RB#0  | 16.43 | 21.03 | PASS |
| Band48 | 10MHz | 16QAM  | 56690 | 1RB#24 | 16.3  | 20.9  | PASS |
| Band48 | 10MHz | 16QAM  | 56690 | 1RB#49 | 16.58 | 21.18 | PASS |
| Band48 | 10MHz | 64QAM  | 56690 | 1RB#0  | 15.51 | 20.11 | PASS |
| Band48 | 10MHz | 64QAM  | 56690 | 1RB#24 | 15.53 | 20.13 | PASS |
| Band48 | 10MHz | 64QAM  | 56690 | 1RB#49 | 15.6  | 20.2  | PASS |
| Band48 | 10MHz | 256QAM | 56690 | 1RB#0  | 12.32 | 16.92 | PASS |
| Band48 | 10MHz | 256QAM | 56690 | 1RB#24 | 12.69 | 17.29 | PASS |
| Band48 | 10MHz | 256QAM | 56690 | 1RB#49 | 12.52 | 17.12 | PASS |
| Band48 | 15MHz | QPSK   | 55315 | 1RB#0  | 17.44 | 22.04 | PASS |
| Band48 | 15MHz | QPSK   | 55315 | 1RB#38 | 17.46 | 22.06 | PASS |
| Band48 | 15MHz | QPSK   | 55315 | 1RB#74 | 17.48 | 22.08 | PASS |
| Band48 | 15MHz | 16QAM  | 55315 | 1RB#0  | 16.89 | 21.49 | PASS |
| Band48 | 15MHz | 16QAM  | 55315 | 1RB#38 | 17.03 | 21.63 | PASS |
| Band48 | 15MHz | 16QAM  | 55315 | 1RB#74 | 16.79 | 21.39 | PASS |
| Band48 | 15MHz | 64QAM  | 55315 | 1RB#0  | 15.81 | 20.41 | PASS |
| Band48 | 15MHz | 64QAM  | 55315 | 1RB#38 | 15.98 | 20.58 | PASS |

|        |       |        |       |        |       |       |      |
|--------|-------|--------|-------|--------|-------|-------|------|
| Band48 | 15MHz | 64QAM  | 55315 | 1RB#74 | 15.79 | 20.39 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 1RB#0  | 12.81 | 17.41 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 1RB#38 | 13.11 | 17.71 | PASS |
| Band48 | 15MHz | 256QAM | 55315 | 1RB#74 | 12.76 | 17.36 | PASS |
| Band48 | 15MHz | QPSK   | 55990 | 1RB#0  | 17.32 | 21.92 | PASS |
| Band48 | 15MHz | QPSK   | 55990 | 1RB#38 | 17.54 | 22.14 | PASS |
| Band48 | 15MHz | QPSK   | 55990 | 1RB#74 | 17.60 | 22.2  | PASS |
| Band48 | 15MHz | 16QAM  | 55990 | 1RB#0  | 16.72 | 21.32 | PASS |
| Band48 | 15MHz | 16QAM  | 55990 | 1RB#38 | 17.28 | 21.88 | PASS |
| Band48 | 15MHz | 16QAM  | 55990 | 1RB#74 | 17.22 | 21.82 | PASS |
| Band48 | 15MHz | 64QAM  | 55990 | 1RB#0  | 15.92 | 20.52 | PASS |
| Band48 | 15MHz | 64QAM  | 55990 | 1RB#38 | 15.8  | 20.4  | PASS |
| Band48 | 15MHz | 64QAM  | 55990 | 1RB#74 | 15.81 | 20.41 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 1RB#0  | 12.23 | 16.83 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 1RB#38 | 12.88 | 17.48 | PASS |
| Band48 | 15MHz | 256QAM | 55990 | 1RB#74 | 12.58 | 17.18 | PASS |
| Band48 | 15MHz | QPSK   | 56665 | 1RB#0  | 17.19 | 21.79 | PASS |
| Band48 | 15MHz | QPSK   | 56665 | 1RB#38 | 17.13 | 21.73 | PASS |
| Band48 | 15MHz | QPSK   | 56665 | 1RB#74 | 17.15 | 21.75 | PASS |
| Band48 | 15MHz | 16QAM  | 56665 | 1RB#0  | 16.58 | 21.18 | PASS |
| Band48 | 15MHz | 16QAM  | 56665 | 1RB#38 | 16.58 | 21.18 | PASS |
| Band48 | 15MHz | 16QAM  | 56665 | 1RB#74 | 16.48 | 21.08 | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 1RB#0  | 15.7  | 20.3  | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 1RB#38 | 15.65 | 20.25 | PASS |
| Band48 | 15MHz | 64QAM  | 56665 | 1RB#74 | 15.43 | 20.03 | PASS |
| Band48 | 15MHz | 256QAM | 56665 | 1RB#0  | 12.19 | 16.79 | PASS |
| Band48 | 15MHz | 256QAM | 56665 | 1RB#38 | 12.36 | 16.96 | PASS |
| Band48 | 15MHz | 256QAM | 56665 | 1RB#74 | 12.47 | 17.07 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 1RB#0  | 17.48 | 22.08 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 1RB#49 | 17.54 | 22.14 | PASS |
| Band48 | 20MHz | QPSK   | 55340 | 1RB#99 | 17.42 | 22.02 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 1RB#0  | 16.76 | 21.36 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 1RB#49 | 16.95 | 21.55 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 1RB#99 | 16.78 | 21.38 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 1RB#0  | 15.89 | 20.49 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 1RB#49 | 16.07 | 20.67 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 1RB#99 | 15.81 | 20.41 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 1RB#0  | 12.52 | 17.12 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 1RB#49 | 12.4  | 17    | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 1RB#99 | 12.47 | 17.07 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 1RB#0  | 17.43 | 22.03 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 1RB#49 | 17.47 | 22.07 | PASS |
| Band48 | 20MHz | QPSK   | 55990 | 1RB#99 | 17.55 | 22.15 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 1RB#0  | 16.87 | 21.47 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 1RB#49 | 16.97 | 21.57 | PASS |

|        |       |        |       |        |       |       |      |
|--------|-------|--------|-------|--------|-------|-------|------|
| Band48 | 20MHz | 16QAM  | 55990 | 1RB#99 | 17.06 | 21.66 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 1RB#0  | 15.88 | 20.48 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 1RB#49 | 15.68 | 20.28 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 1RB#99 | 15.8  | 20.4  | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 1RB#0  | 12.3  | 16.9  | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 1RB#49 | 12.83 | 17.43 | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 1RB#99 | 12.88 | 17.48 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 1RB#0  | 17.24 | 21.84 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 1RB#49 | 17.30 | 21.9  | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 1RB#99 | 17.19 | 21.79 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 1RB#0  | 16.8  | 21.4  | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 1RB#49 | 16.66 | 21.26 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 1RB#99 | 16.7  | 21.3  | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 1RB#0  | 15.85 | 20.45 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 1RB#49 | 15.76 | 20.36 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 1RB#99 | 15.58 | 20.18 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 1RB#0  | 12.18 | 16.78 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 1RB#49 | 12.59 | 17.19 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 1RB#99 | 12.42 | 17.02 | PASS |

## Maximum EIRP and Maximum PSD

## Test Result

Ant8 Main:

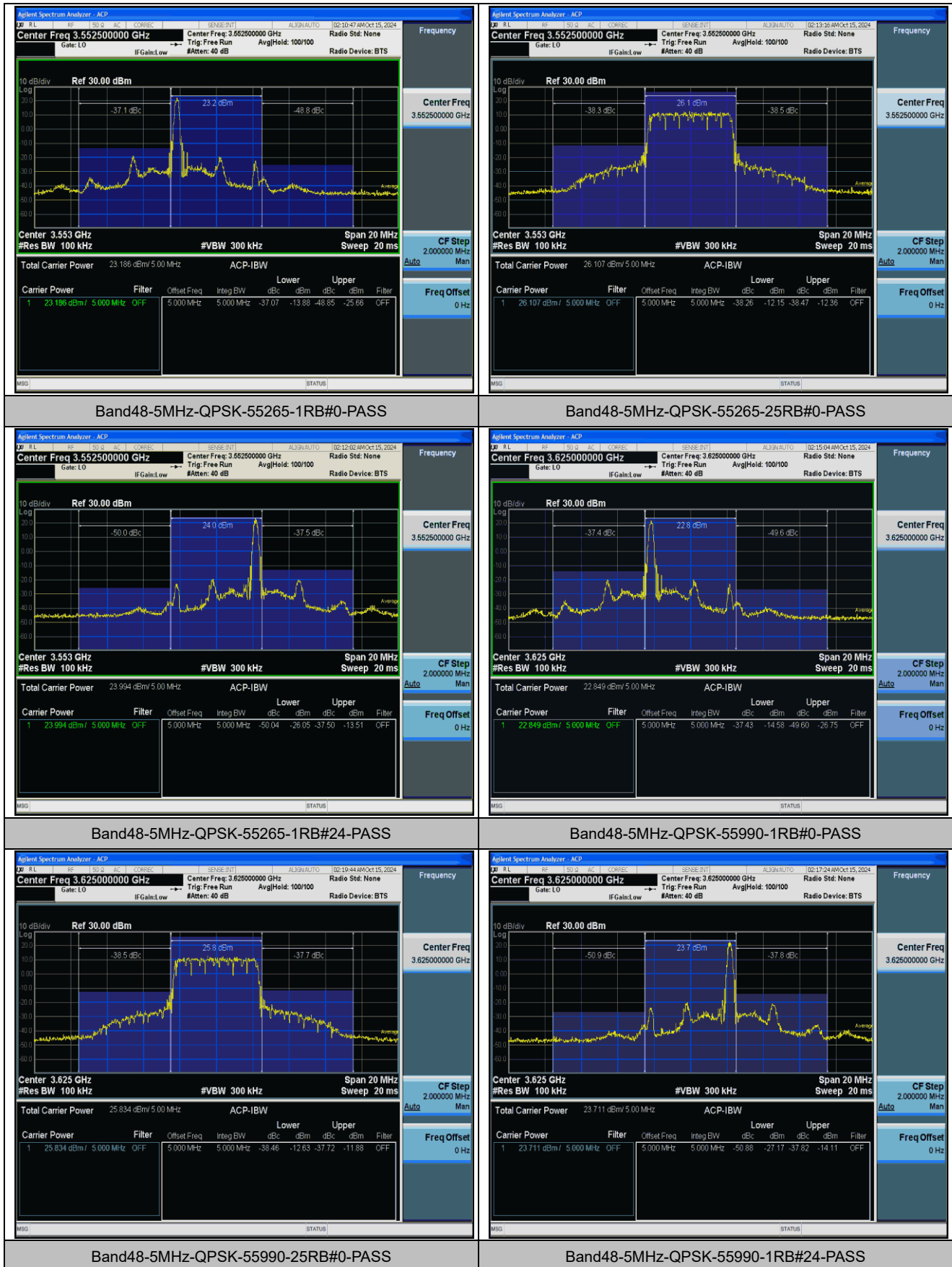
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm/10MHz) | EIRP (dBm/10MHz) | Limit (dBm/10MHz) | PSD Limit | Verdict |
|--------|-----------|------------|---------|------------------|--------------------|------------------|-------------------|-----------|---------|
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#0            | 17.84              | 22.44            | 23                | N/A       | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#12           | 17.88              | 22.48            | 23                | N/A       | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#24           | 17.87              | 22.47            | 23                | N/A       | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#0            | 17.41              | 22.01            | 23                | N/A       | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#12           | 17.32              | 21.92            | 23                | N/A       | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#24           | 17.32              | 21.92            | 23                | N/A       | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#0            | 16.86              | 21.46            | 23                | N/A       | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#12           | 16.88              | 21.48            | 23                | N/A       | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#24           | 16.75              | 21.35            | 23                | N/A       | PASS    |
| Band48 | 10MHz     | QPSK       | 55290   | 1RB#0            | 17.84              | 22.44            | 23                | N/A       | PASS    |
| Band48 | 10MHz     | QPSK       | 55290   | 1RB#24           | 17.96              | 22.56            | 23                | N/A       | PASS    |
| Band48 | 10MHz     | QPSK       | 55290   | 1RB#49           | 17.83              | 22.43            | 23                | N/A       | PASS    |
| Band48 | 10MHz     | QPSK       | 55990   | 1RB#0            | 17.42              | 22.02            | 23                | N/A       | PASS    |
| Band48 | 10MHz     | QPSK       | 55990   | 1RB#24           | 17.42              | 22.02            | 23                | N/A       | PASS    |
| Band48 | 10MHz     | QPSK       | 55990   | 1RB#49           | 17.35              | 21.95            | 23                | N/A       | PASS    |
| Band48 | 10MHz     | QPSK       | 56690   | 1RB#0            | 17.03              | 21.63            | 23                | N/A       | PASS    |
| Band48 | 10MHz     | QPSK       | 56690   | 1RB#24           | 16.95              | 21.55            | 23                | N/A       | PASS    |
| Band48 | 10MHz     | QPSK       | 56690   | 1RB#49           | 16.91              | 21.51            | 23                | N/A       | PASS    |
| Band48 | 15MHz     | QPSK       | 55315   | 1RB#0            | 17.88              | 22.48            | 23                | N/A       | PASS    |
| Band48 | 15MHz     | QPSK       | 55315   | 1RB#38           | 17.93              | 22.53            | 23                | N/A       | PASS    |
| Band48 | 15MHz     | QPSK       | 55315   | 1RB#74           | 17.82              | 22.42            | 23                | N/A       | PASS    |
| Band48 | 15MHz     | QPSK       | 55990   | 1RB#0            | 17.36              | 21.96            | 23                | N/A       | PASS    |
| Band48 | 15MHz     | QPSK       | 55990   | 1RB#38           | 17.52              | 22.12            | 23                | N/A       | PASS    |
| Band48 | 15MHz     | QPSK       | 55990   | 1RB#74           | 17.36              | 21.96            | 23                | N/A       | PASS    |
| Band48 | 15MHz     | QPSK       | 56665   | 1RB#0            | 17.16              | 21.76            | 23                | N/A       | PASS    |
| Band48 | 15MHz     | QPSK       | 56665   | 1RB#38           | 16.97              | 21.57            | 23                | N/A       | PASS    |
| Band48 | 15MHz     | QPSK       | 56665   | 1RB#74           | 16.93              | 21.53            | 23                | N/A       | PASS    |
| Band48 | 20MHz     | QPSK       | 55340   | 1RB#0            | 17.89              | 22.49            | 23                | N/A       | PASS    |
| Band48 | 20MHz     | QPSK       | 55340   | 1RB#49           | 17.96              | 22.56            | 23                | N/A       | PASS    |
| Band48 | 20MHz     | QPSK       | 55340   | 1RB#99           | 17.89              | 22.49            | 23                | N/A       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 1RB#0            | 17.37              | 21.97            | 23                | N/A       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 1RB#49           | 17.42              | 22.02            | 23                | N/A       | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 1RB#99           | 17.36              | 21.96            | 23                | N/A       | PASS    |
| Band48 | 20MHz     | QPSK       | 56640   | 1RB#0            | 17.32              | 21.92            | 23                | N/A       | PASS    |
| Band48 | 20MHz     | QPSK       | 56640   | 1RB#49           | 17.05              | 21.65            | 23                | N/A       | PASS    |
| Band48 | 20MHz     | QPSK       | 56640   | 1RB#99           | 17.04              | 21.64            | 23                | N/A       | PASS    |

## Adjacent Channel Leakage Ratio

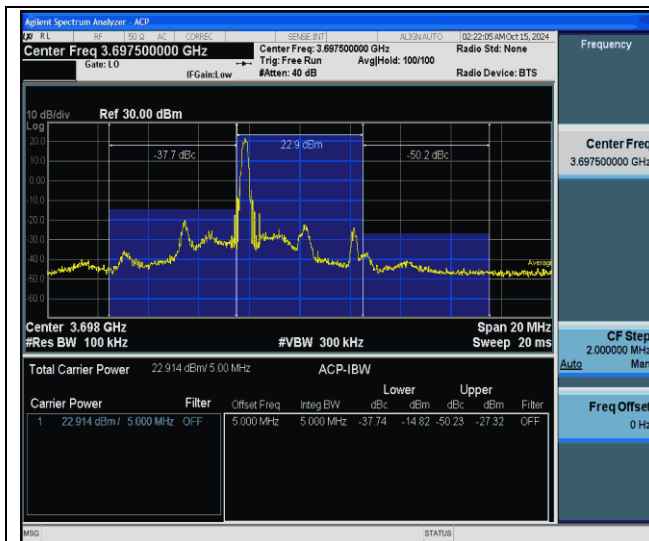
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | ACLR_Lower (dBm) | ACLR_Upper (dBm) | ACLR_Limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|------------------|------------------|------------------|---------|
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#0            | 37.07            | 48.85            | ≥30              | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 25RB#0           | 38.26            | 38.47            | ≥30              | PASS    |
| Band48 | 5MHz      | QPSK       | 55265   | 1RB#24           | 50.04            | 37.5             | ≥30              | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#0            | 37.43            | 49.6             | ≥30              | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 25RB#0           | 38.46            | 37.72            | ≥30              | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 1RB#24           | 50.88            | 37.82            | ≥30              | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#0            | 37.74            | 50.23            | ≥30              | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 25RB#0           | 37.43            | 37.26            | ≥30              | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 1RB#24           | 51.03            | 38.27            | ≥30              | PASS    |
| Band48 | 10MHz     | QPSK       | 55290   | 1RB#0            | 38.5             | 49.28            | ≥30              | PASS    |
| Band48 | 10MHz     | QPSK       | 55290   | 50RB#0           | 38.58            | 38.76            | ≥30              | PASS    |
| Band48 | 10MHz     | QPSK       | 55290   | 1RB#49           | 49.3             | 37.32            | ≥30              | PASS    |
| Band48 | 10MHz     | QPSK       | 55990   | 1RB#0            | 39.01            | 50.46            | ≥30              | PASS    |
| Band48 | 10MHz     | QPSK       | 55990   | 50RB#0           | 38.83            | 38.74            | ≥30              | PASS    |
| Band48 | 10MHz     | QPSK       | 55990   | 1RB#49           | 50.35            | 37.78            | ≥30              | PASS    |
| Band48 | 10MHz     | QPSK       | 56690   | 1RB#0            | 39.17            | 50.71            | ≥30              | PASS    |
| Band48 | 10MHz     | QPSK       | 56690   | 50RB#0           | 37.86            | 38.05            | ≥30              | PASS    |
| Band48 | 10MHz     | QPSK       | 56690   | 1RB#49           | 50.17            | 38.25            | ≥30              | PASS    |
| Band48 | 15MHz     | QPSK       | 55315   | 1RB#0            | 38.85            | 49.01            | ≥30              | PASS    |
| Band48 | 15MHz     | QPSK       | 55315   | 75RB#0           | 40.24            | 39.71            | ≥30              | PASS    |
| Band48 | 15MHz     | QPSK       | 55315   | 1RB#74           | 48.63            | 37.57            | ≥30              | PASS    |
| Band48 | 15MHz     | QPSK       | 55990   | 1RB#0            | 39.19            | 50.11            | ≥30              | PASS    |
| Band48 | 15MHz     | QPSK       | 55990   | 75RB#0           | 39.35            | 39.2             | ≥30              | PASS    |
| Band48 | 15MHz     | QPSK       | 55990   | 1RB#74           | 49.39            | 38.05            | ≥30              | PASS    |
| Band48 | 15MHz     | QPSK       | 56665   | 1RB#0            | 39.29            | 50.1             | ≥30              | PASS    |
| Band48 | 15MHz     | QPSK       | 56665   | 75RB#0           | 38.32            | 38.99            | ≥30              | PASS    |
| Band48 | 15MHz     | QPSK       | 56665   | 1RB#74           | 48.86            | 38.21            | ≥30              | PASS    |
| Band48 | 20MHz     | QPSK       | 55340   | 1RB#0            | 37.96            | 47.01            | ≥30              | PASS    |
| Band48 | 20MHz     | QPSK       | 55340   | 100RB#0          | 40.84            | 40.27            | ≥30              | PASS    |
| Band48 | 20MHz     | QPSK       | 55340   | 1RB#99           | 46.93            | 37.18            | ≥30              | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 1RB#0            | 38               | 48.33            | ≥30              | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0          | 39.56            | 40.05            | ≥30              | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 1RB#99           | 47.68            | 37.59            | ≥30              | PASS    |
| Band48 | 20MHz     | QPSK       | 56640   | 1RB#0            | 38.69            | 48.71            | ≥30              | PASS    |
| Band48 | 20MHz     | QPSK       | 56640   | 100RB#0          | 38.3             | 39.72            | ≥30              | PASS    |
| Band48 | 20MHz     | QPSK       | 56640   | 1RB#99           | 47.74            | 37.82            | ≥30              | PASS    |

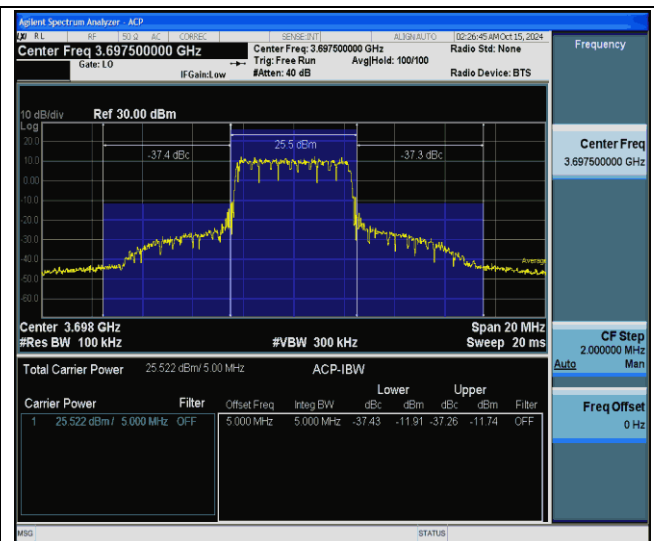
## Test Graphs



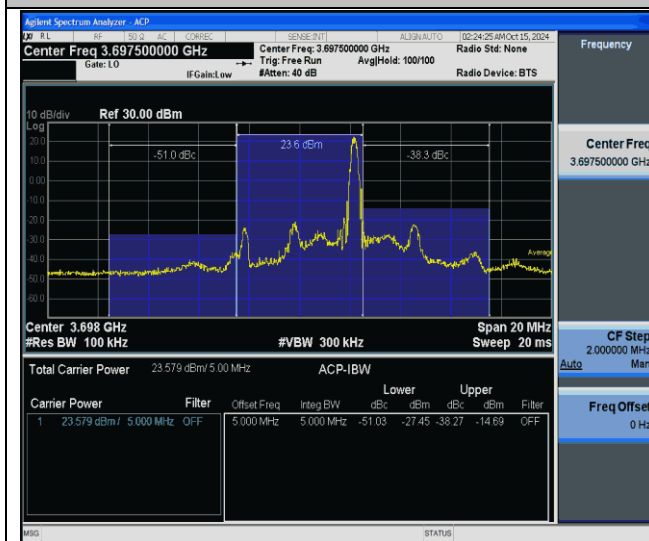




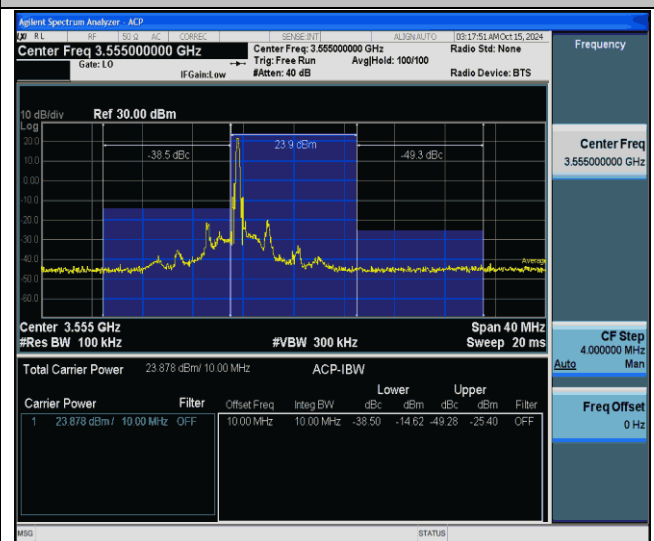
Band48-5MHz-QPSK-56715-1RB#0-PASS



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



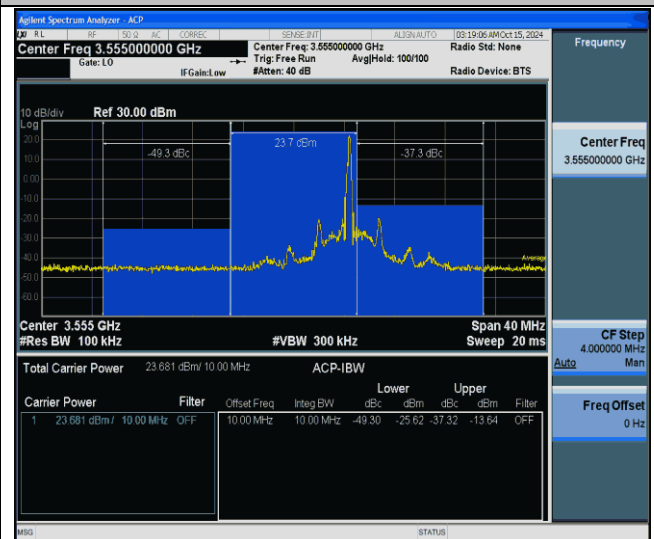
Band48-5MHz-QPSK-56715-1RB#24-PASS



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

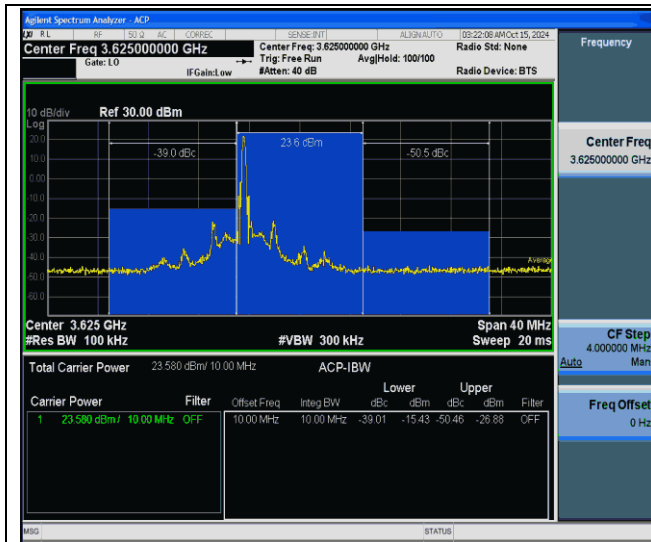


Band48-10MHz-QPSK-55290-50RB#0-PASS



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

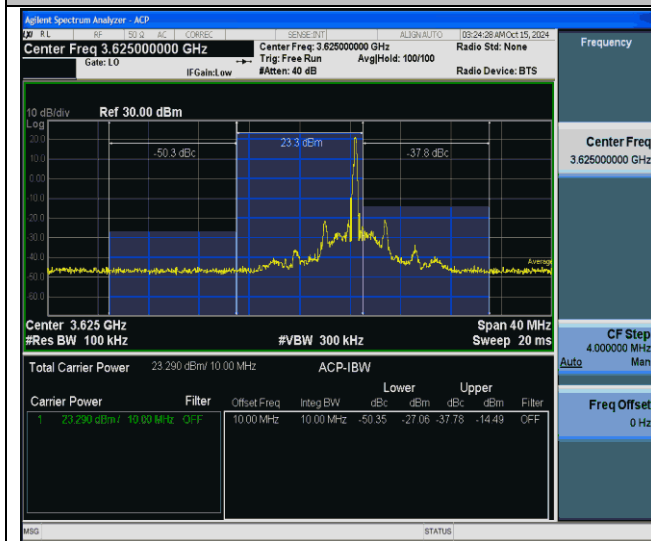




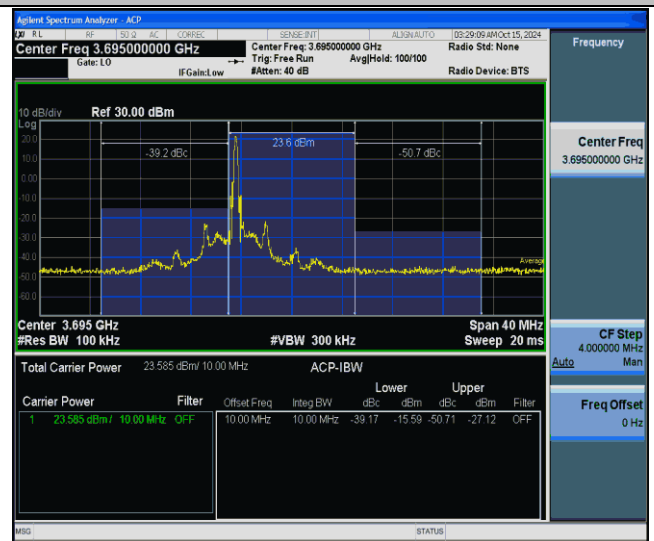
Band48-10MHz-QPSK-55990-1RB#0-PASS



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



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



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



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



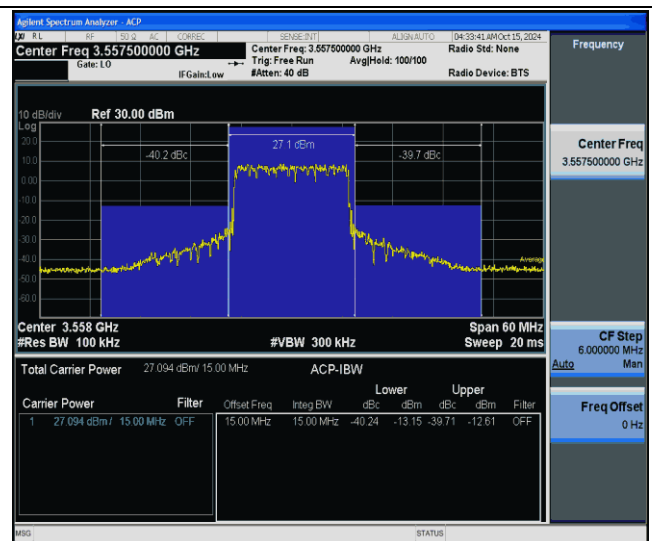
Band48-10MHz-QPSK-56690-1RB#49-PASS

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

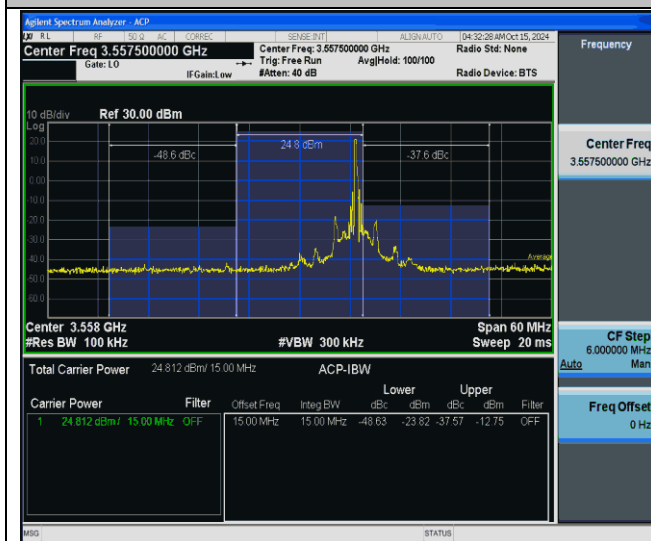
Band48-10MHz-16QAM-56690-1RB#49-PASS



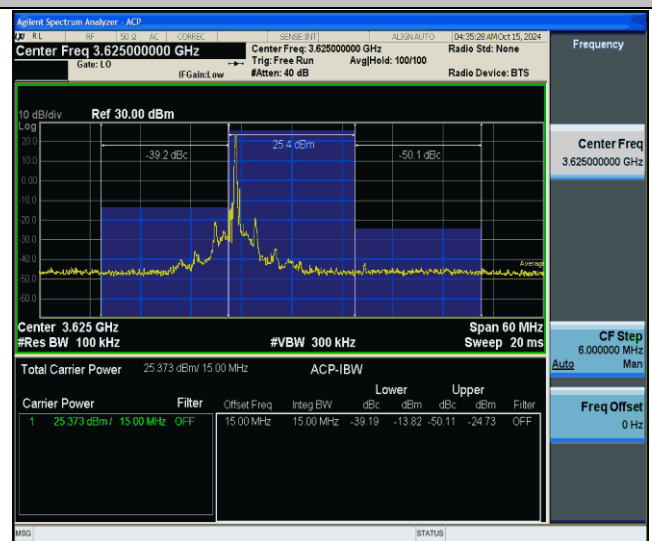
Band48-15MHz-QPSK-55315-1RB#0-PASS



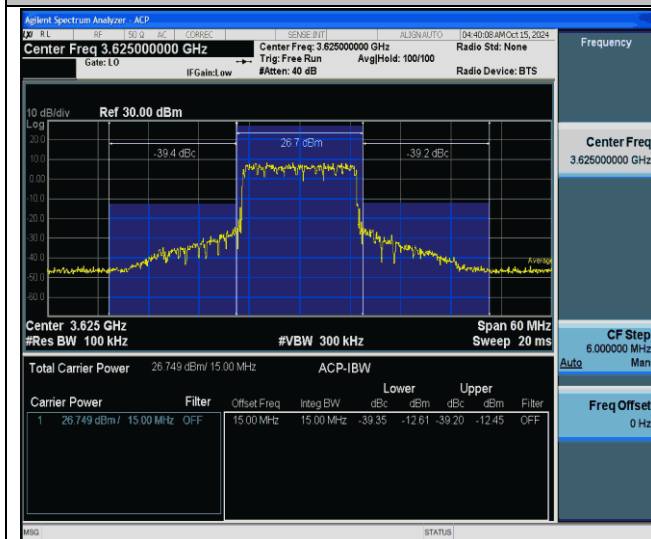
Band48-15MHz-QPSK-55315-75RB#0-PASS



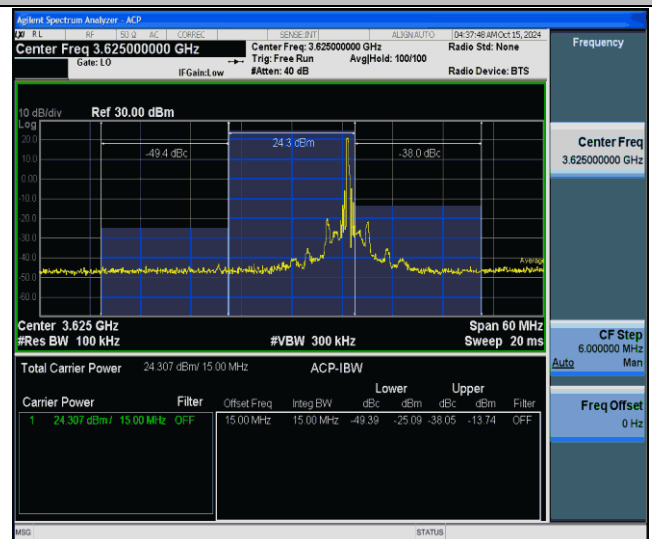
Band48-15MHz-QPSK-55315-1RB#74-PASS



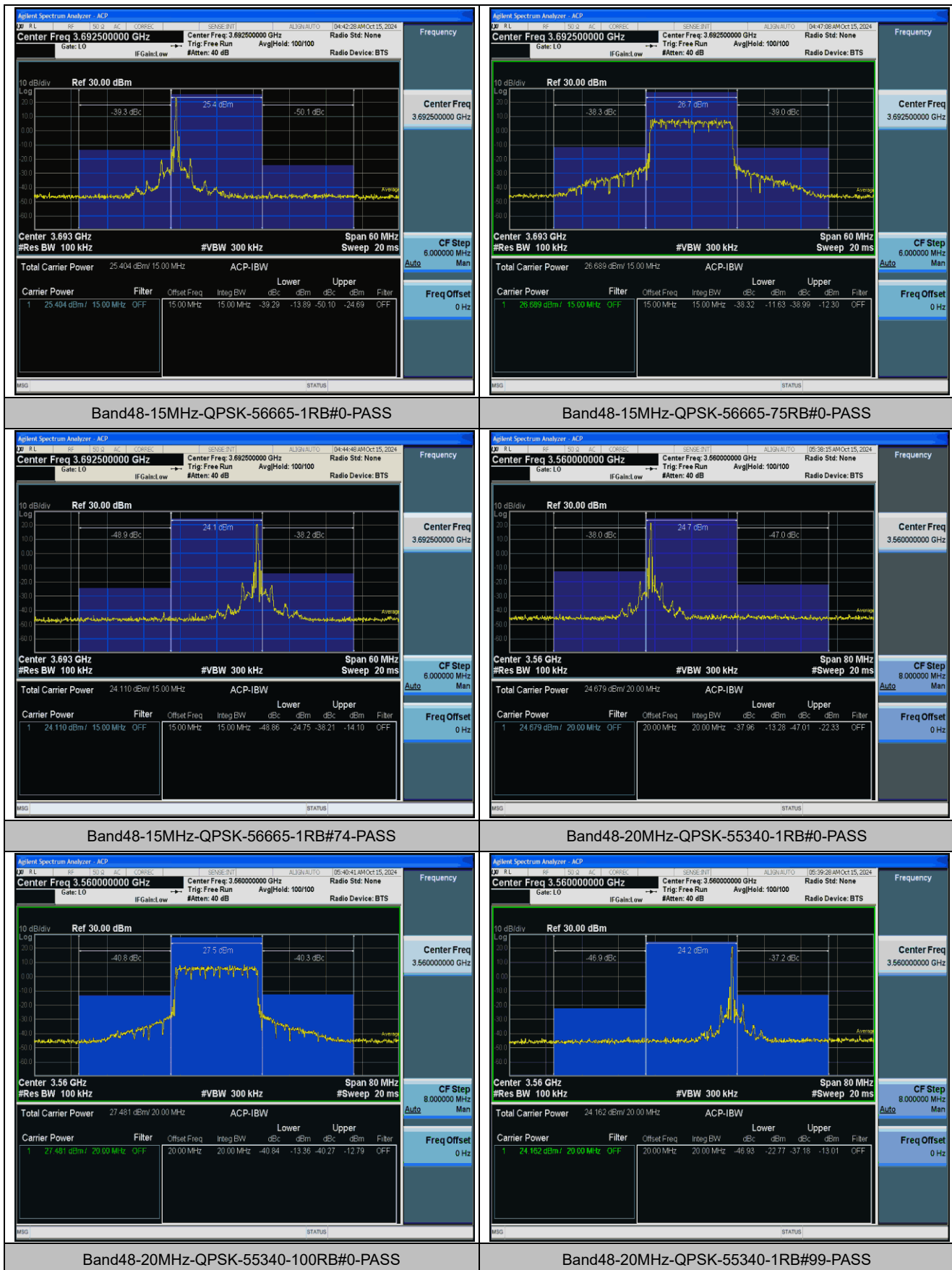
Band48-15MHz-QPSK-55990-1RB#0-PASS

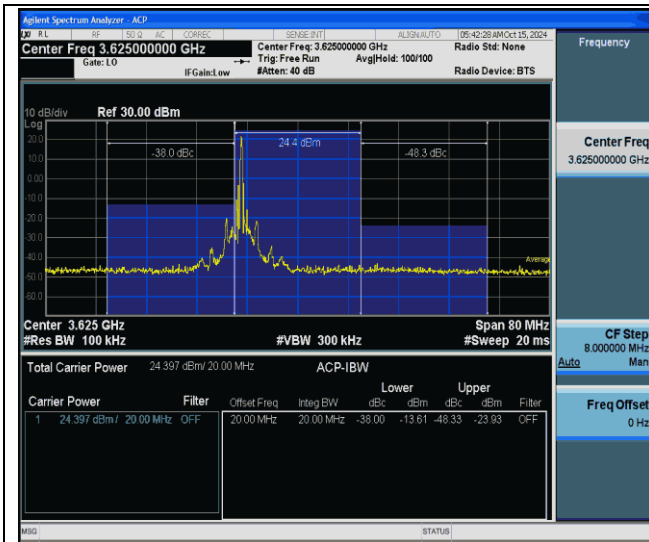


Band48-15MHz-QPSK-55990-75RB#0-PASS



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

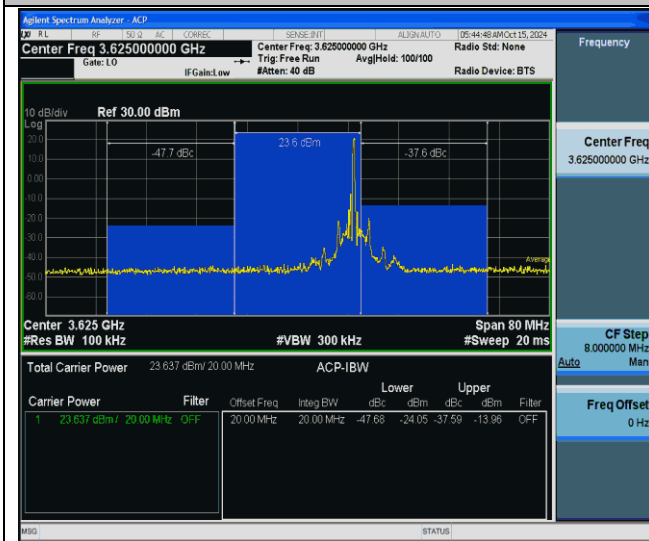




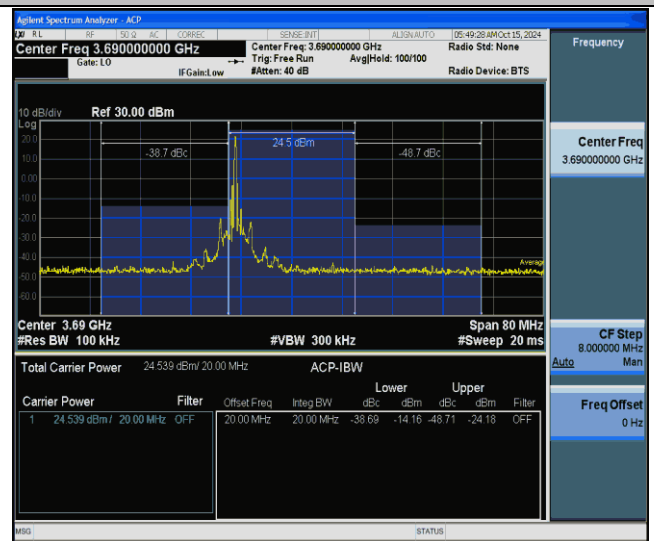
Band48-20MHz-QPSK-55990-1RB#0-PASS



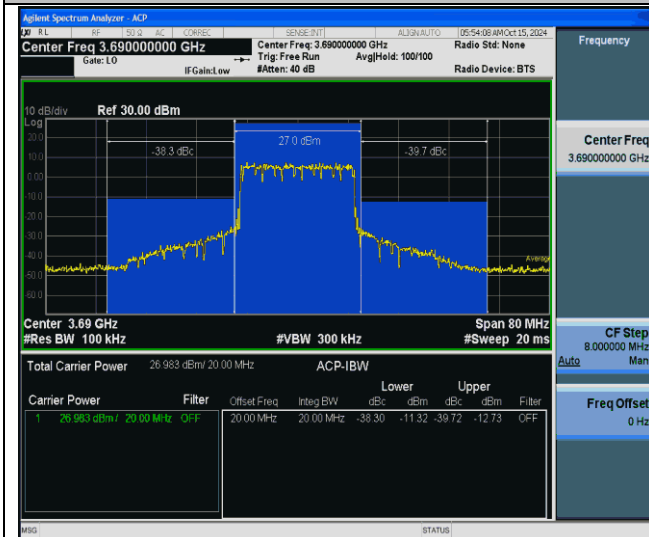
Band48-20MHz-QPSK-55990-100RB#0-PASS



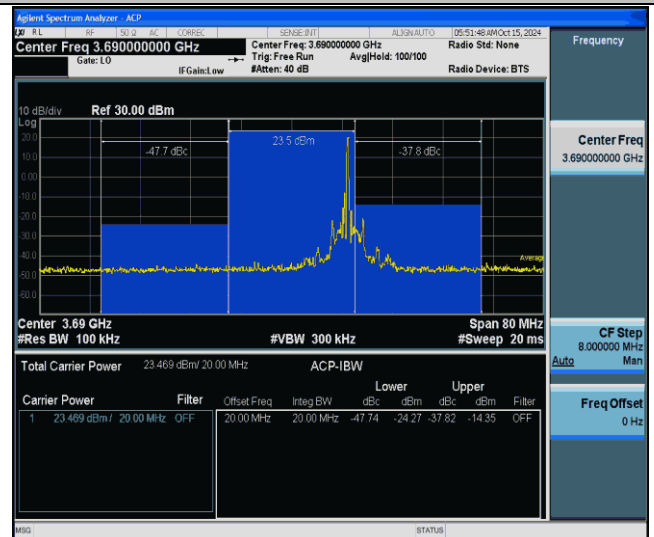
Band48-20MHz-QPSK-55990-1RB#99-PASS



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



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



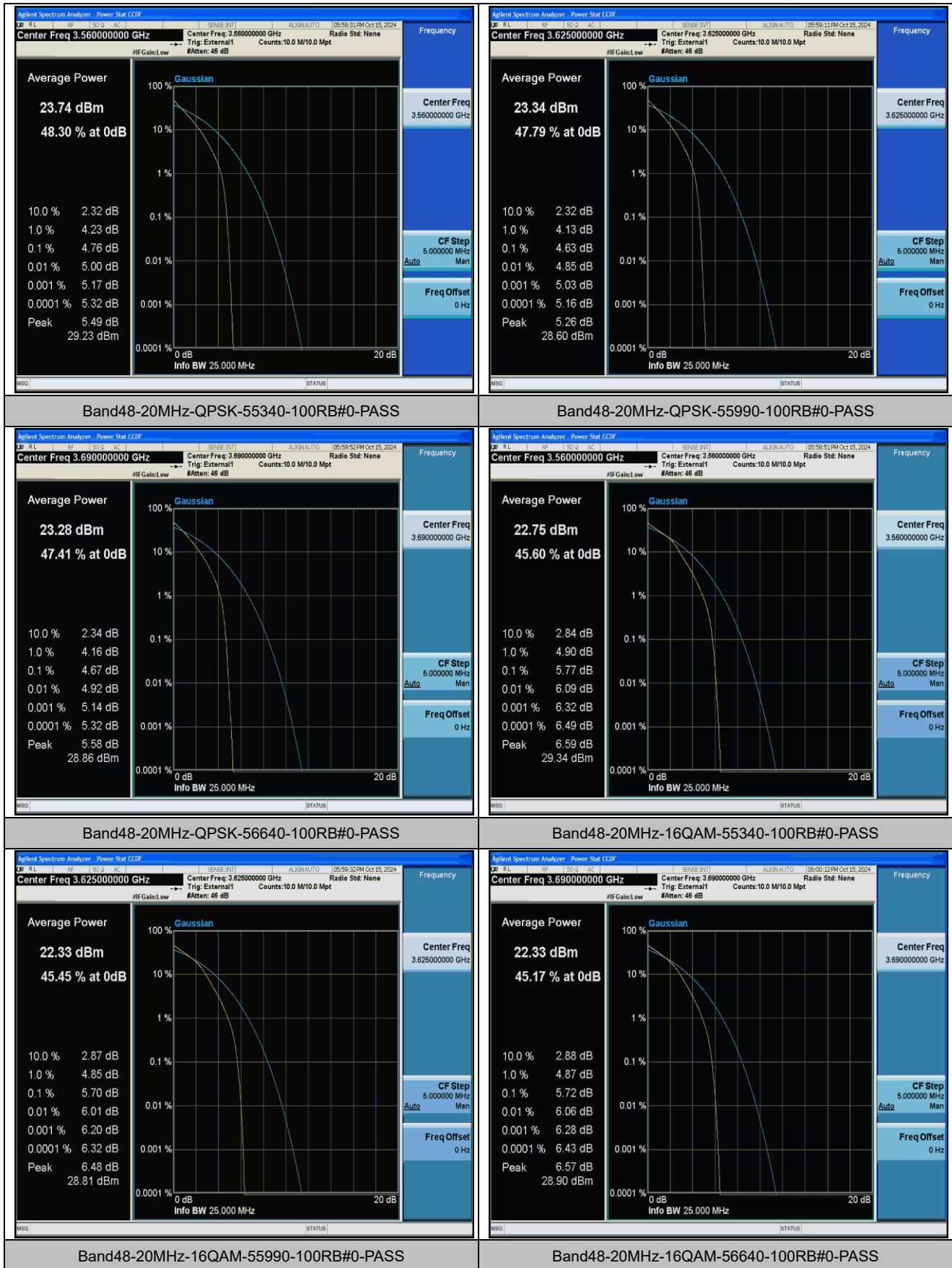
Band48-20MHz-QPSK-56640-1RB#99-PASS

## Peak-to-Average Ratio(CCDF)

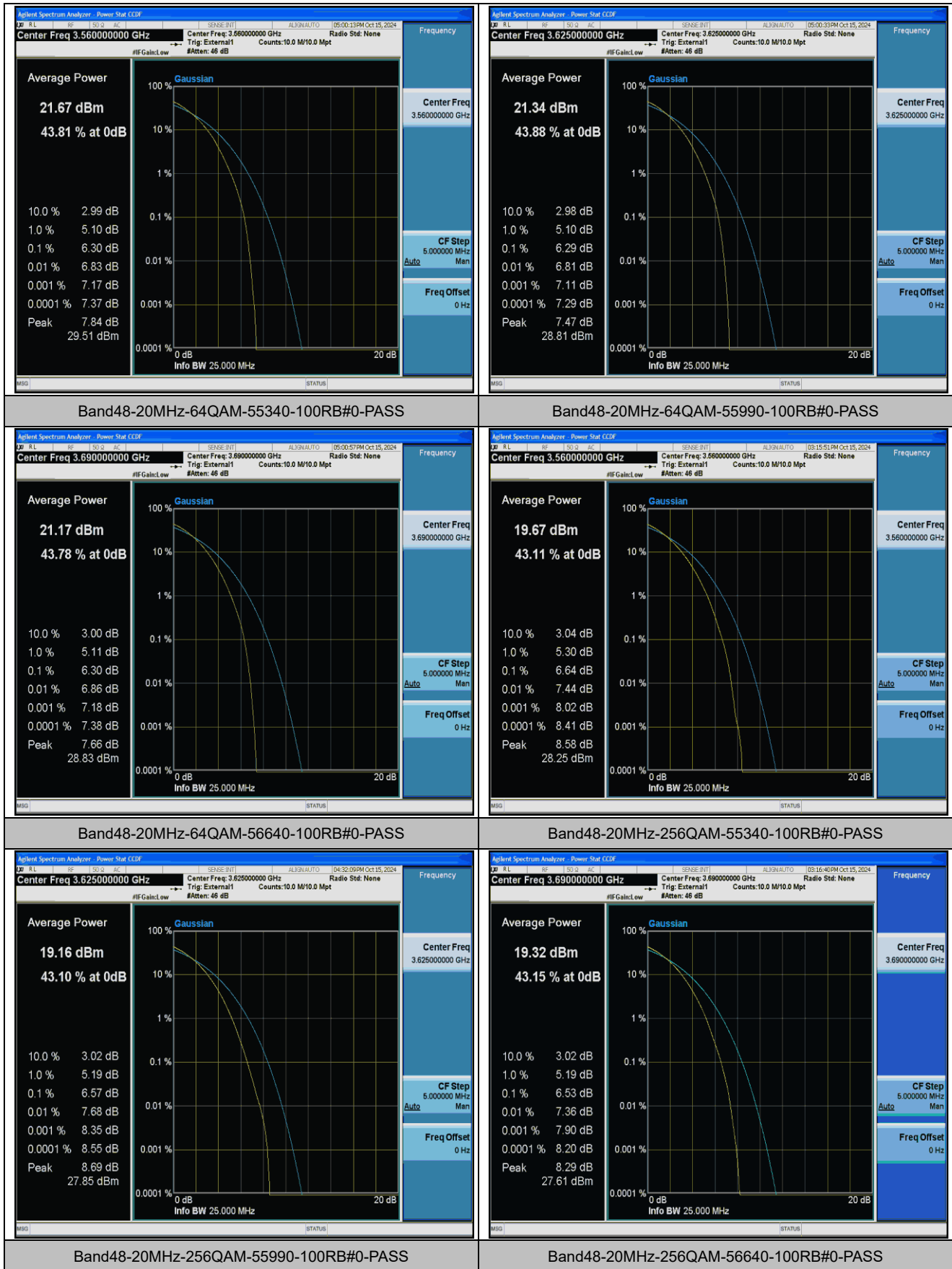
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result (dB) | Limit (dB) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|------------|---------|
| Band48 | 20MHz     | QPSK       | 55340   | 100RB#0          | 4.76        | 13         | PASS    |
| Band48 | 20MHz     | QPSK       | 55990   | 100RB#0          | 4.63        | 13         | PASS    |
| Band48 | 20MHz     | QPSK       | 56640   | 100RB#0          | 4.67        | 13         | PASS    |
| Band48 | 20MHz     | 16QAM      | 55340   | 100RB#0          | 5.77        | 13         | PASS    |
| Band48 | 20MHz     | 16QAM      | 55990   | 100RB#0          | 5.70        | 13         | PASS    |
| Band48 | 20MHz     | 16QAM      | 56640   | 100RB#0          | 5.72        | 13         | PASS    |
| Band48 | 20MHz     | 64QAM      | 55340   | 100RB#0          | 6.30        | 13         | PASS    |
| Band48 | 20MHz     | 64QAM      | 55990   | 100RB#0          | 6.29        | 13         | PASS    |
| Band48 | 20MHz     | 64QAM      | 56640   | 100RB#0          | 6.30        | 13         | PASS    |
| Band48 | 20MHz     | 256QAM     | 55340   | 100RB#0          | 6.64        | 13         | PASS    |
| Band48 | 20MHz     | 256QAM     | 55990   | 100RB#0          | 6.57        | 13         | PASS    |
| Band48 | 20MHz     | 256QAM     | 56640   | 100RB#0          | 6.53        | 13         | PASS    |

## Test Graphs









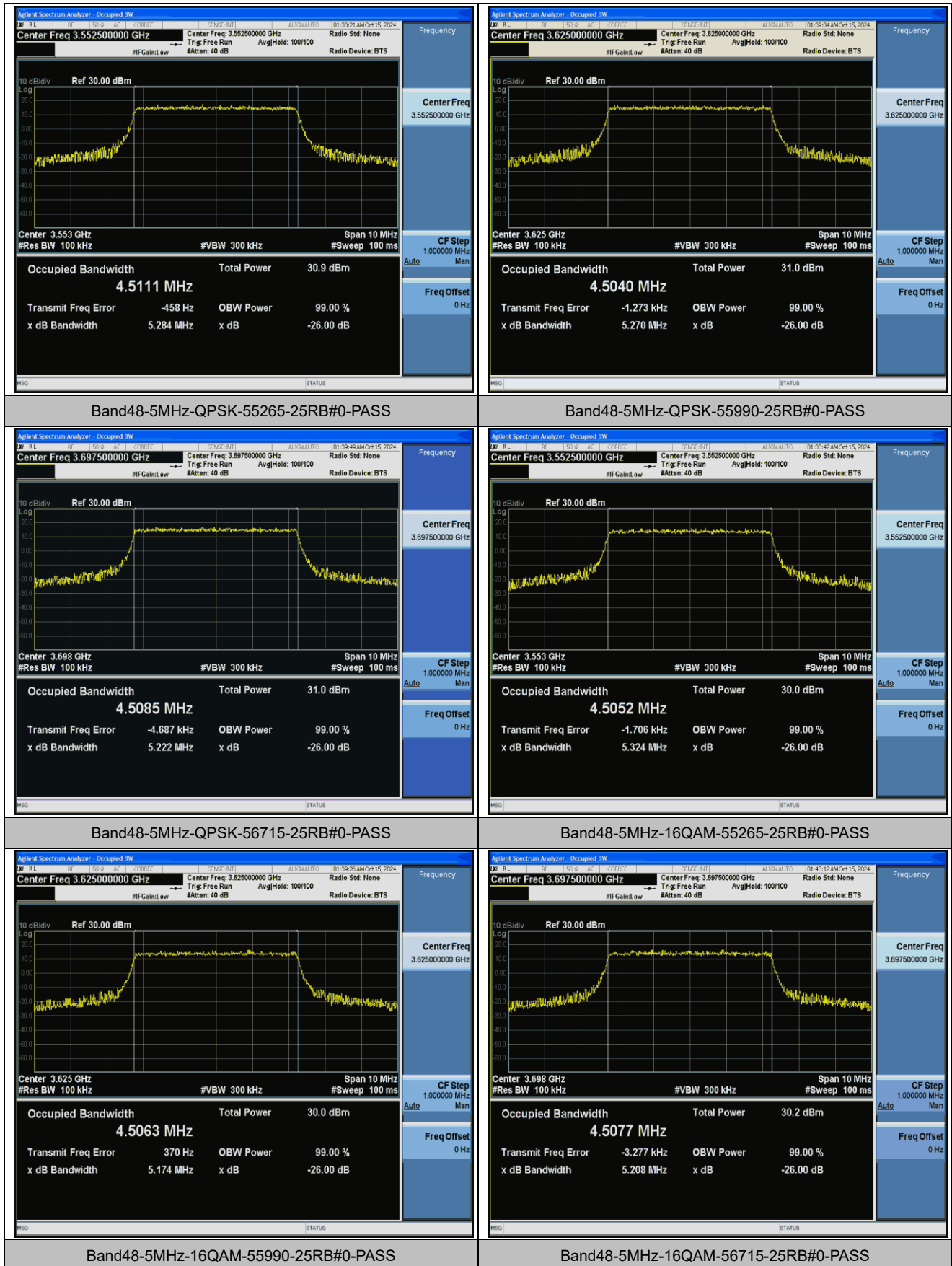
## 26dB Bandwidth and Occupied Bandwidth

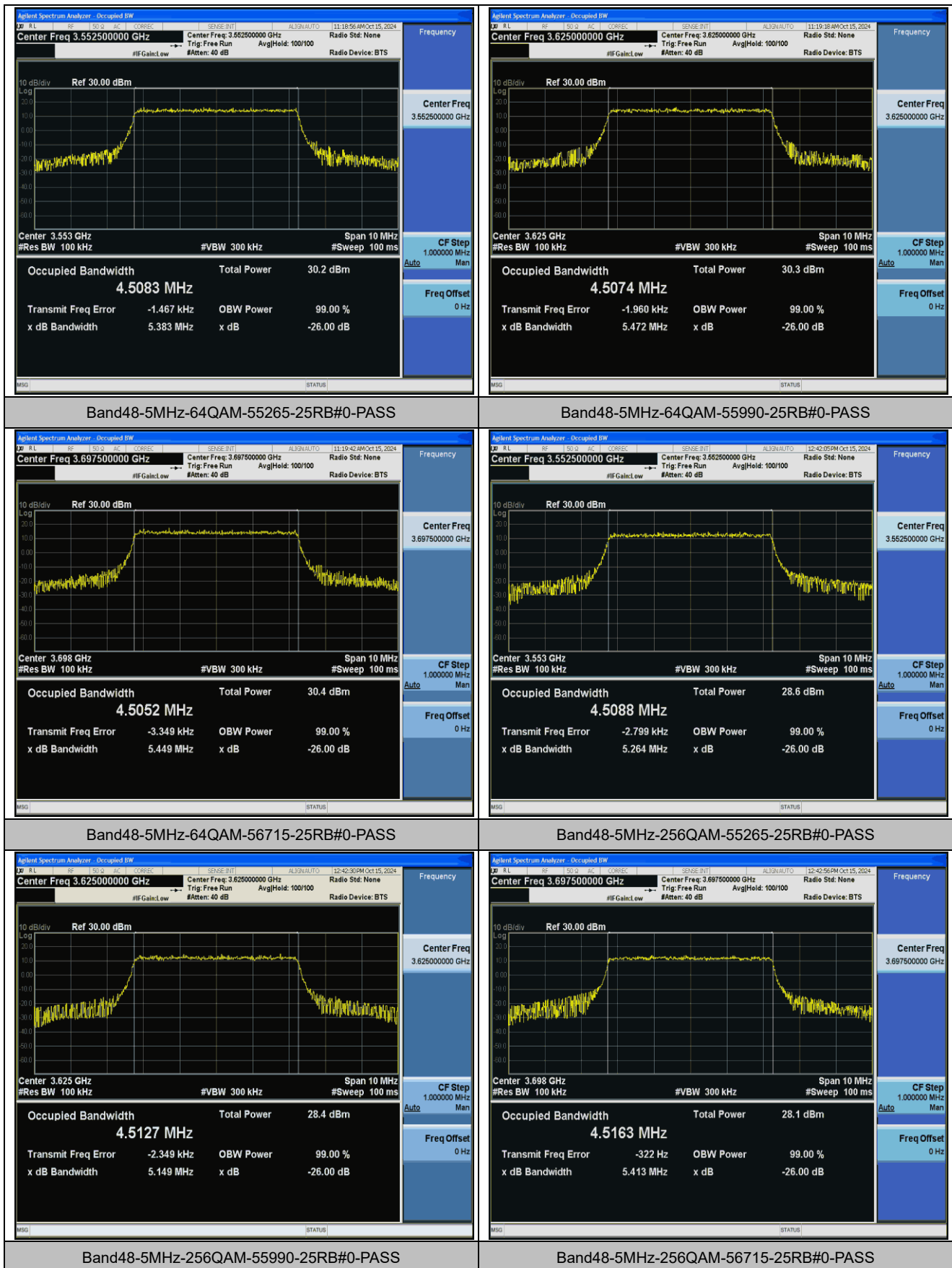
### Test Result

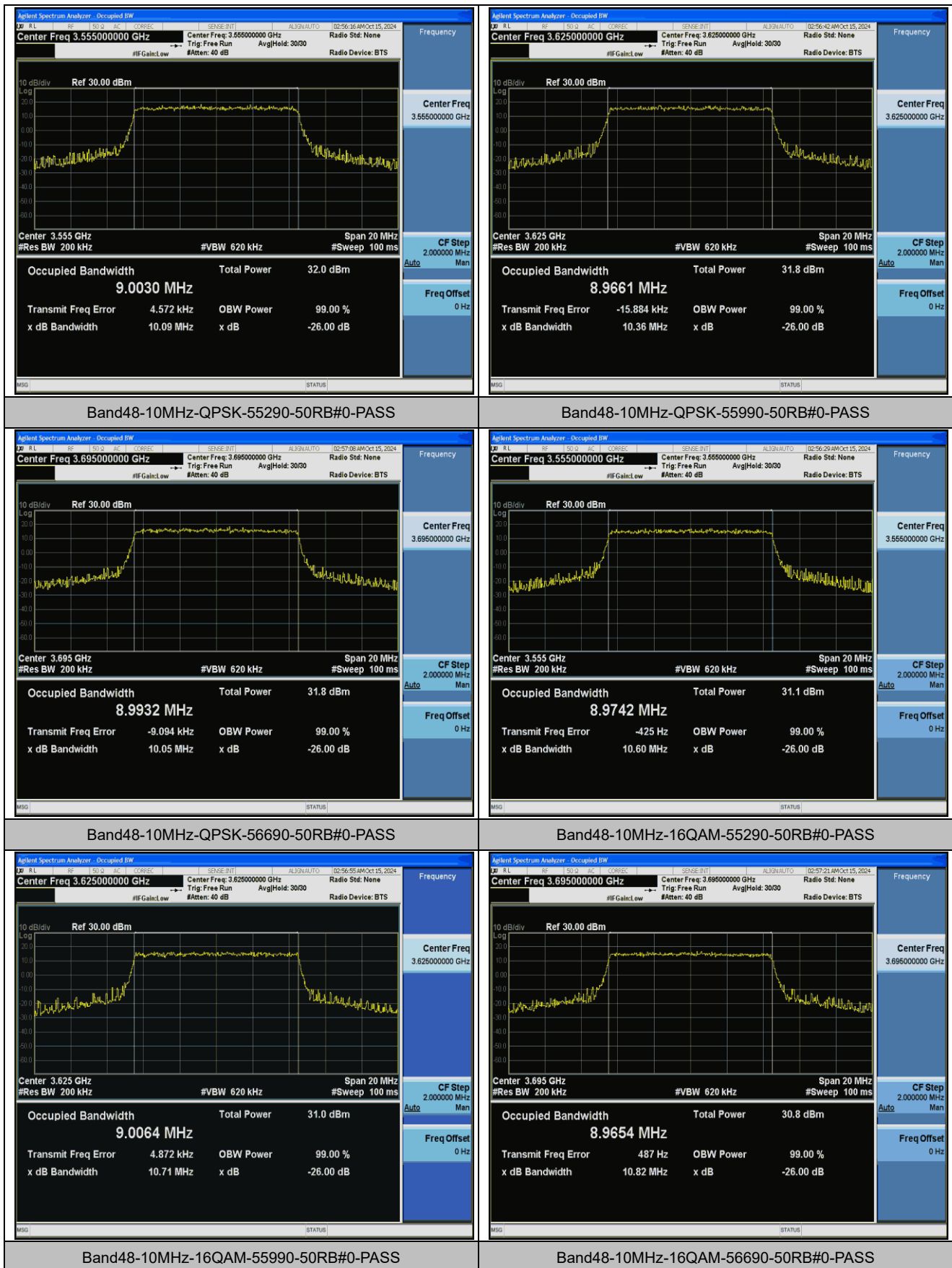
| Band   | Bandwidth | Modulation | Channel | RB Configuration | OBW (MHz) | 26dB EBW (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|-----------|----------------|---------|
| Band48 | 5MHz      | QPSK       | 55265   | 25RB#0           | 4.5111    | 5.284          | PASS    |
| Band48 | 5MHz      | QPSK       | 55990   | 25RB#0           | 4.5040    | 5.270          | PASS    |
| Band48 | 5MHz      | QPSK       | 56715   | 25RB#0           | 4.5085    | 5.222          | PASS    |
| Band48 | 5MHz      | 16QAM      | 55265   | 25RB#0           | 4.5052    | 5.324          | PASS    |
| Band48 | 5MHz      | 16QAM      | 55990   | 25RB#0           | 4.5063    | 5.174          | PASS    |
| Band48 | 5MHz      | 16QAM      | 56715   | 25RB#0           | 4.5077    | 5.208          | PASS    |
| Band48 | 5MHz      | 64QAM      | 55265   | 25RB#0           | 4.5083    | 5.383          | PASS    |
| Band48 | 5MHz      | 64QAM      | 55990   | 25RB#0           | 4.5074    | 5.472          | PASS    |
| Band48 | 5MHz      | 64QAM      | 56715   | 25RB#0           | 4.5052    | 5.449          | PASS    |
| Band48 | 5MHz      | 256QAM     | 55265   | 25RB#0           | 4.5088    | 5.264          | PASS    |
| Band48 | 5MHz      | 256QAM     | 55990   | 25RB#0           | 4.5127    | 5.149          | PASS    |
| Band48 | 5MHz      | 256QAM     | 56715   | 25RB#0           | 4.5163    | 5.413          | PASS    |
| Band48 | 10MHz     | QPSK       | 55290   | 50RB#0           | 9.0030    | 10.09          | PASS    |
| Band48 | 10MHz     | QPSK       | 55990   | 50RB#0           | 8.9661    | 10.36          | PASS    |
| Band48 | 10MHz     | QPSK       | 56690   | 50RB#0           | 8.9932    | 10.05          | PASS    |
| Band48 | 10MHz     | 16QAM      | 55290   | 50RB#0           | 8.9742    | 10.60          | PASS    |
| Band48 | 10MHz     | 16QAM      | 55990   | 50RB#0           | 9.0064    | 10.71          | PASS    |
| Band48 | 10MHz     | 16QAM      | 56690   | 50RB#0           | 8.9654    | 10.82          | PASS    |
| Band48 | 10MHz     | 64QAM      | 55290   | 50RB#0           | 9.0049    | 10.71          | PASS    |
| Band48 | 10MHz     | 64QAM      | 55990   | 50RB#0           | 8.9991    | 10.68          | PASS    |
| Band48 | 10MHz     | 64QAM      | 56690   | 50RB#0           | 9.0091    | 10.64          | PASS    |
| Band48 | 10MHz     | 256QAM     | 55290   | 50RB#0           | 8.9969    | 10.10          | PASS    |
| Band48 | 10MHz     | 256QAM     | 55990   | 50RB#0           | 8.9927    | 10.35          | PASS    |
| Band48 | 10MHz     | 256QAM     | 56690   | 50RB#0           | 9.0017    | 10.41          | PASS    |
| Band48 | 15MHz     | QPSK       | 55315   | 75RB#0           | 13.488    | 14.99          | PASS    |
| Band48 | 15MHz     | QPSK       | 55990   | 75RB#0           | 13.489    | 14.75          | PASS    |
| Band48 | 15MHz     | QPSK       | 56665   | 75RB#0           | 13.489    | 14.92          | PASS    |
| Band48 | 15MHz     | 16QAM      | 55315   | 75RB#0           | 13.456    | 15.34          | PASS    |
| Band48 | 15MHz     | 16QAM      | 55990   | 75RB#0           | 13.537    | 14.91          | PASS    |
| Band48 | 15MHz     | 16QAM      | 56665   | 75RB#0           | 13.496    | 15.36          | PASS    |
| Band48 | 15MHz     | 64QAM      | 55315   | 75RB#0           | 13.502    | 15.02          | PASS    |
| Band48 | 15MHz     | 64QAM      | 55990   | 75RB#0           | 13.452    | 15.15          | PASS    |
| Band48 | 15MHz     | 64QAM      | 56665   | 75RB#0           | 13.509    | 15.52          | PASS    |
| Band48 | 15MHz     | 256QAM     | 55315   | 75RB#0           | 13.509    | 15.25          | PASS    |
| Band48 | 15MHz     | 256QAM     | 55990   | 75RB#0           | 13.494    | 15.10          | PASS    |
| Band48 | 15MHz     | 256QAM     | 56665   | 75RB#0           | 13.516    | 15.45          | PASS    |
| Band48 | 20MHz     | QPSK       | 55340   | 100RB#0          | 17.984    | 20.06          | PASS    |

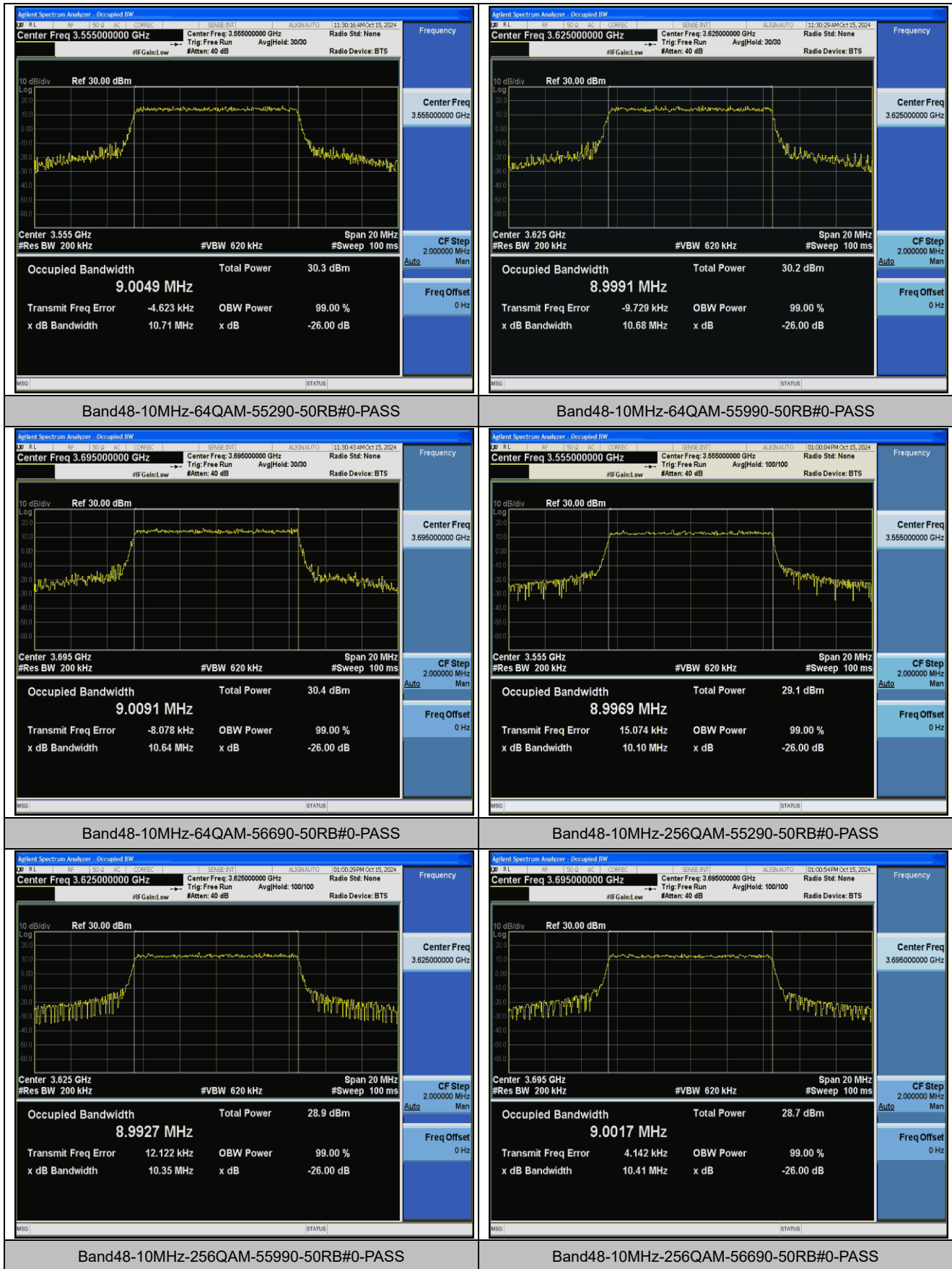
|        |       |        |       |         |        |       |      |
|--------|-------|--------|-------|---------|--------|-------|------|
| Band48 | 20MHz | QPSK   | 55990 | 100RB#0 | 17.941 | 19.84 | PASS |
| Band48 | 20MHz | QPSK   | 56640 | 100RB#0 | 18.061 | 20.44 | PASS |
| Band48 | 20MHz | 16QAM  | 55340 | 100RB#0 | 17.952 | 19.63 | PASS |
| Band48 | 20MHz | 16QAM  | 55990 | 100RB#0 | 17.957 | 19.95 | PASS |
| Band48 | 20MHz | 16QAM  | 56640 | 100RB#0 | 17.988 | 19.92 | PASS |
| Band48 | 20MHz | 64QAM  | 55340 | 100RB#0 | 17.974 | 20.76 | PASS |
| Band48 | 20MHz | 64QAM  | 55990 | 100RB#0 | 18.020 | 19.91 | PASS |
| Band48 | 20MHz | 64QAM  | 56640 | 100RB#0 | 17.909 | 20.59 | PASS |
| Band48 | 20MHz | 256QAM | 55340 | 100RB#0 | 17.970 | 19.98 | PASS |
| Band48 | 20MHz | 256QAM | 55990 | 100RB#0 | 17.996 | 19.96 | PASS |
| Band48 | 20MHz | 256QAM | 56640 | 100RB#0 | 17.989 | 19.93 | PASS |

## Test Graphs

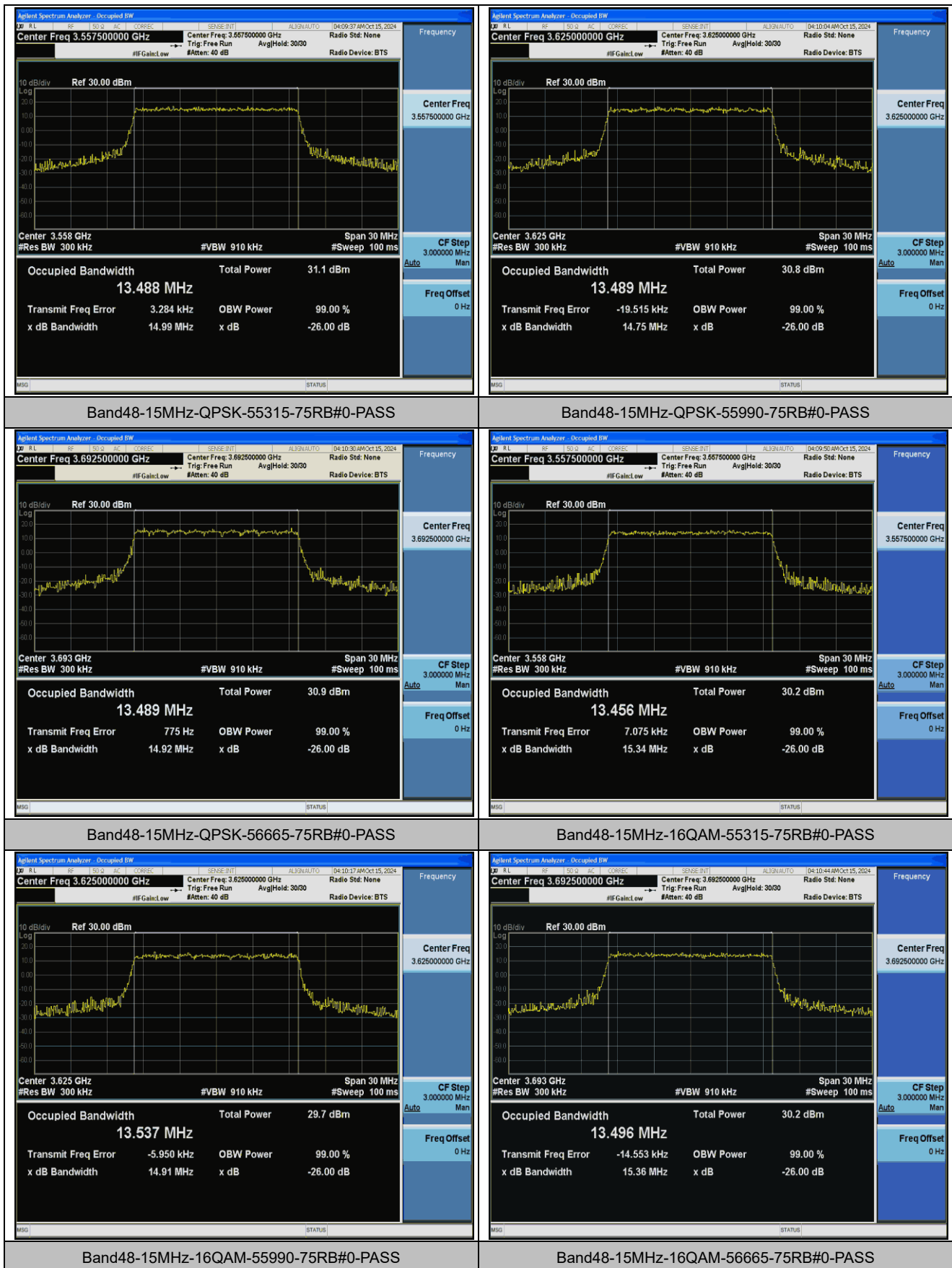


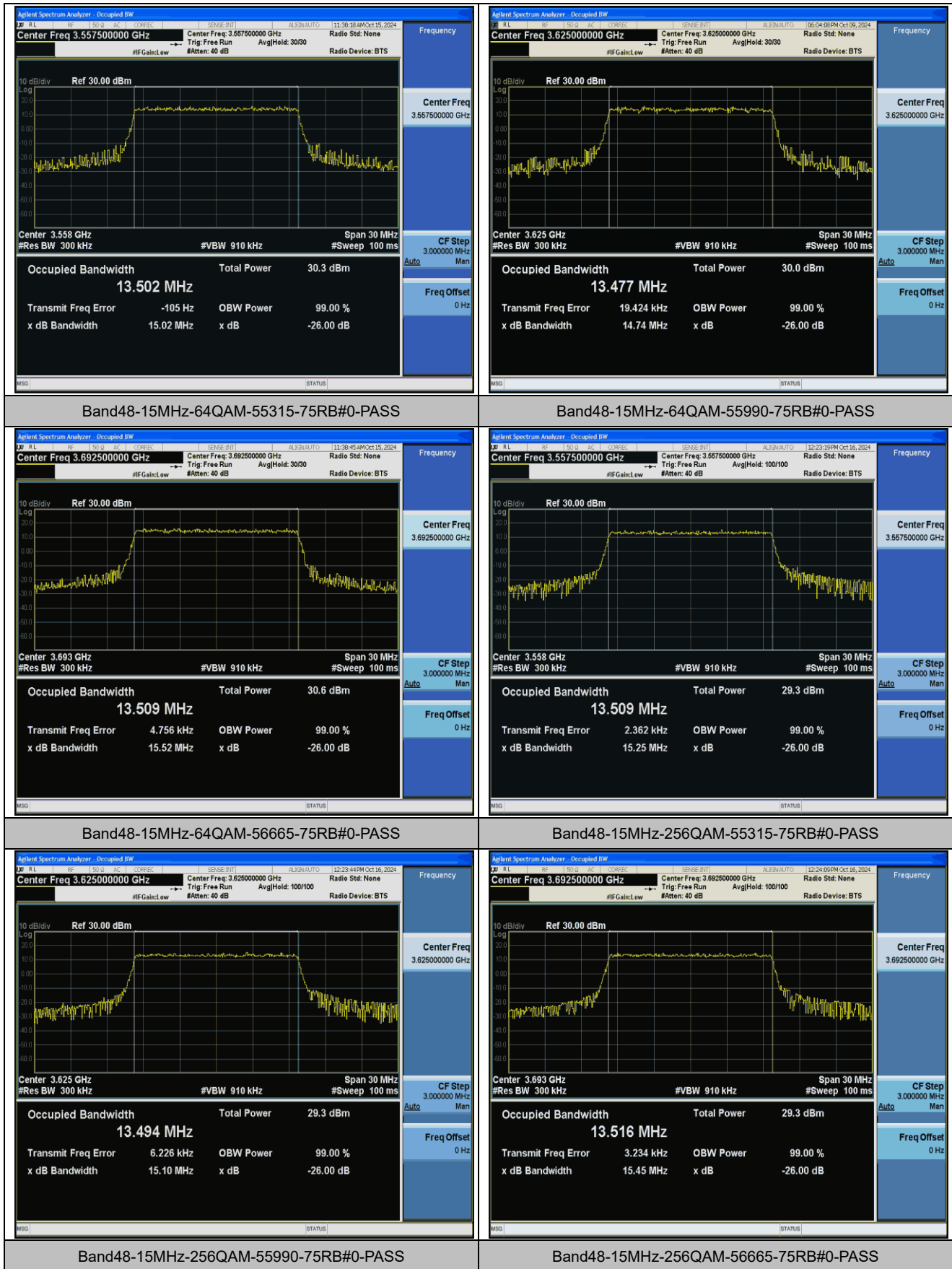


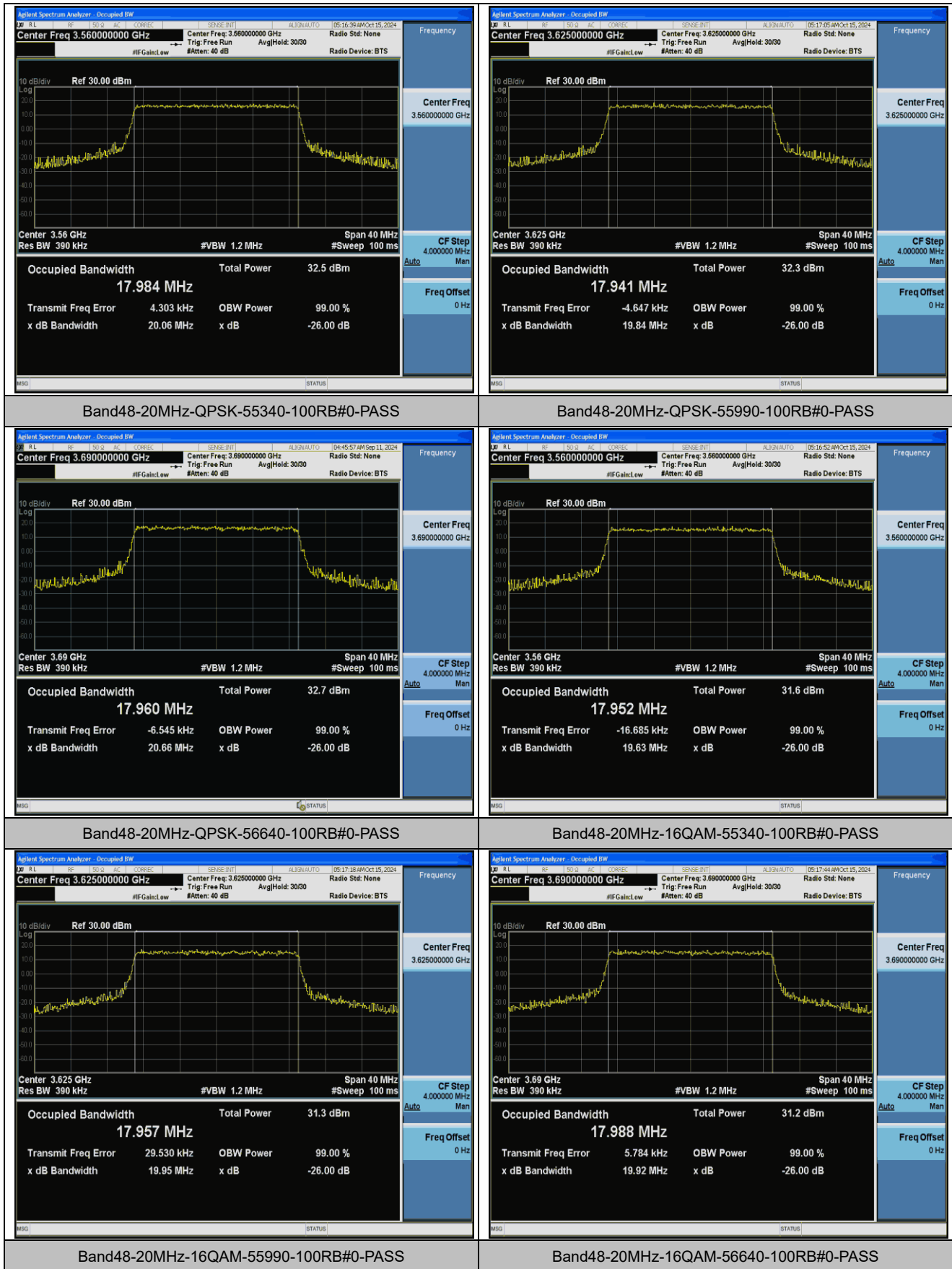


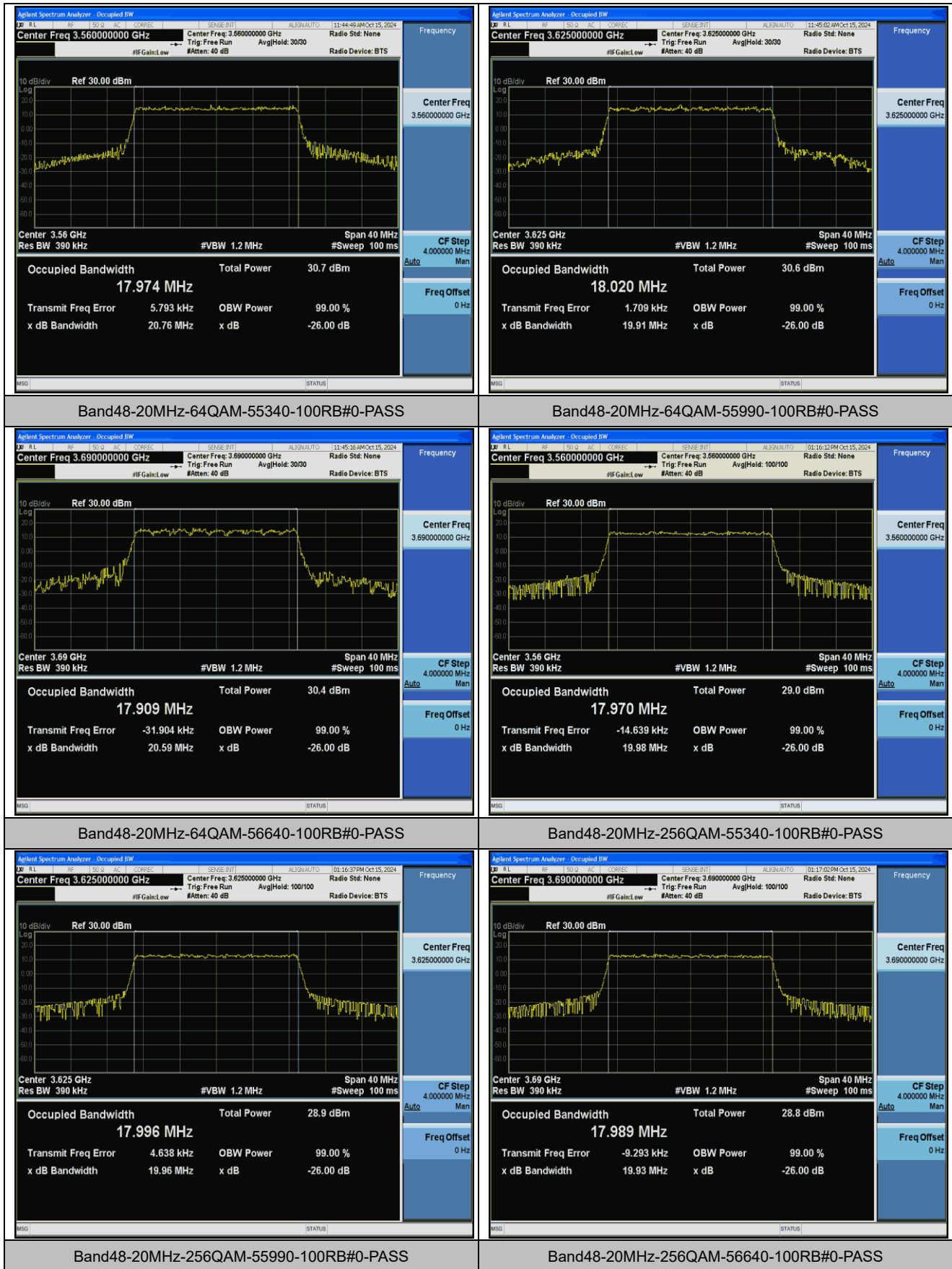






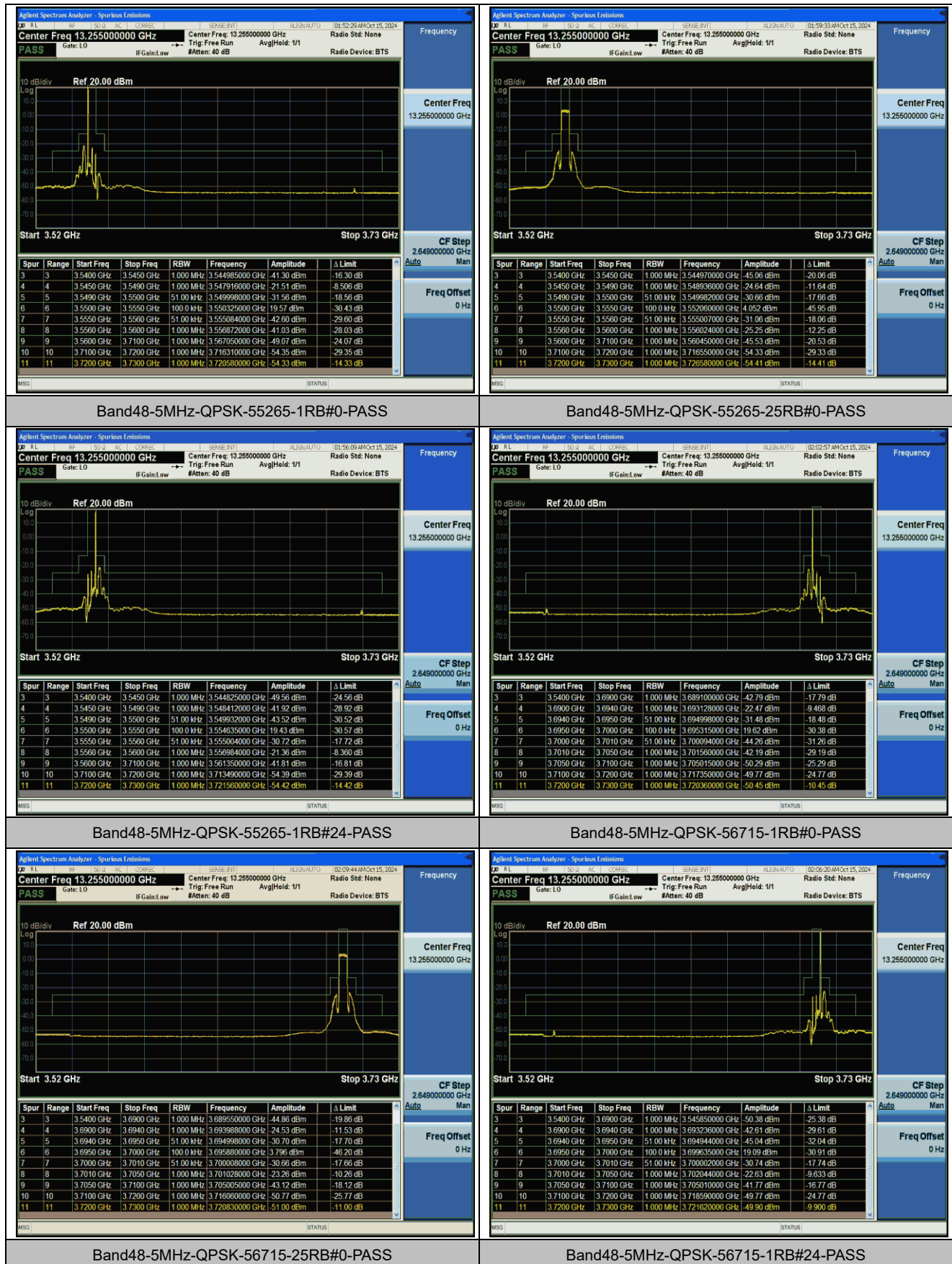




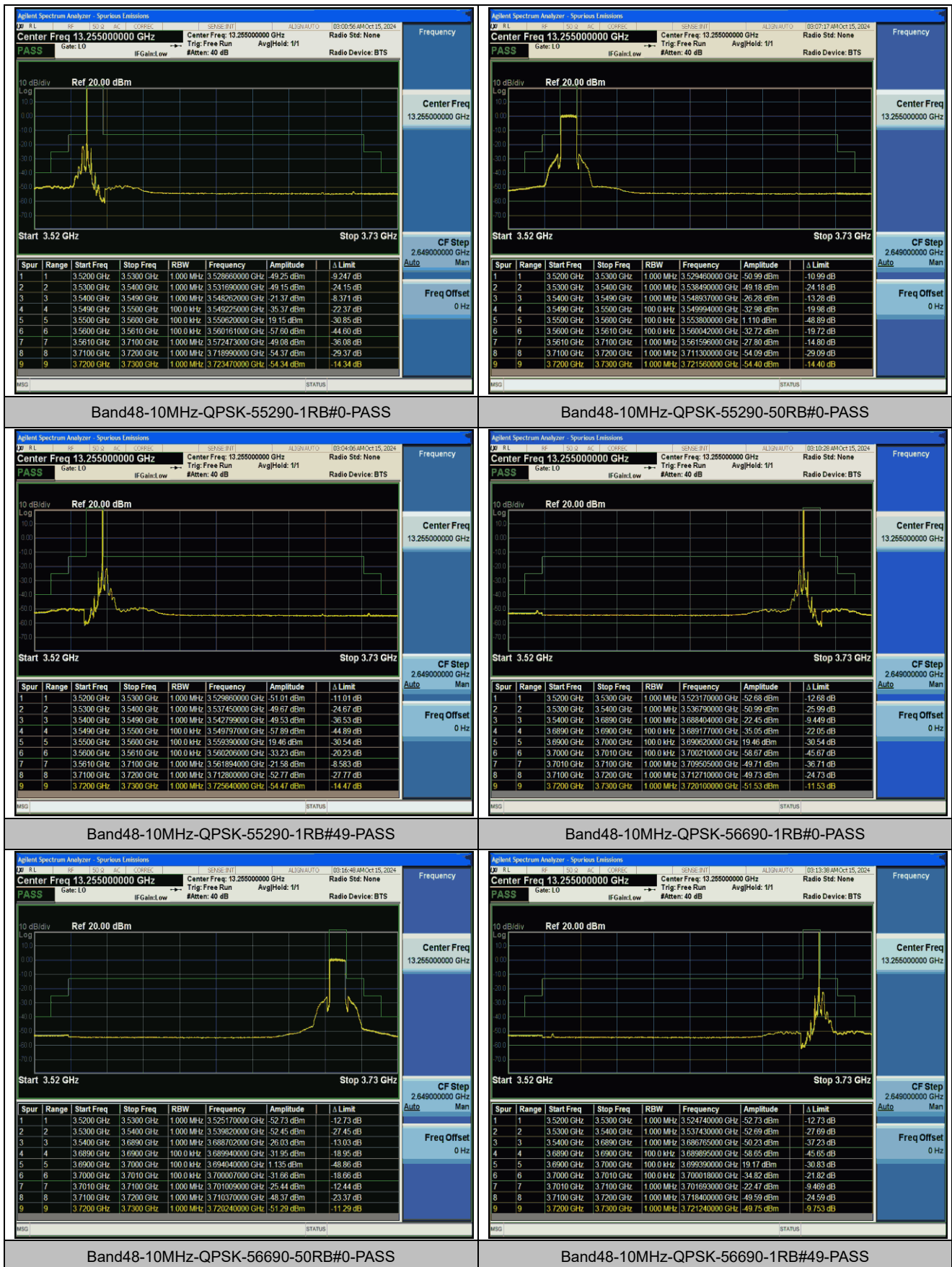


## Band Edge

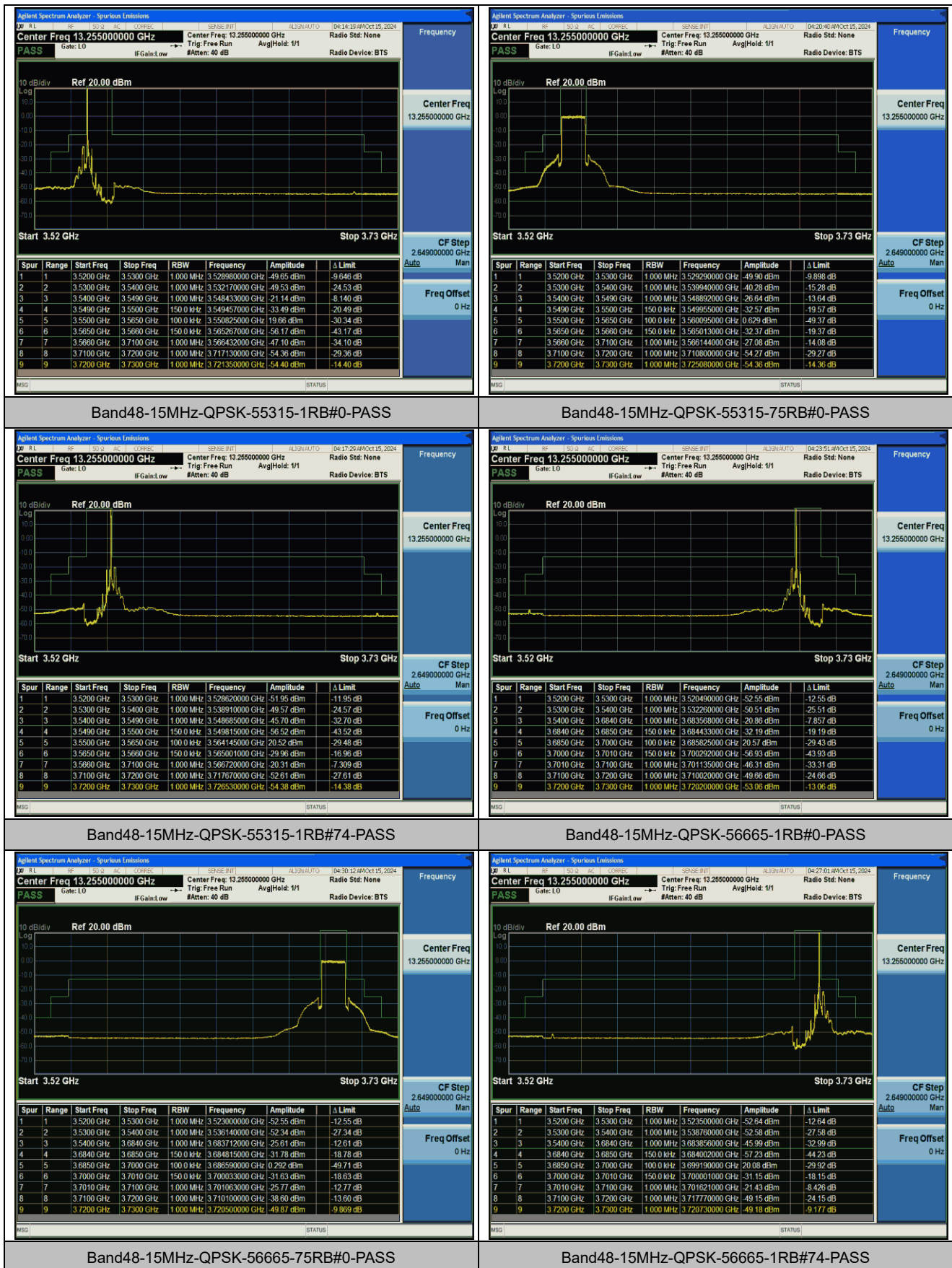
## Test Graphs

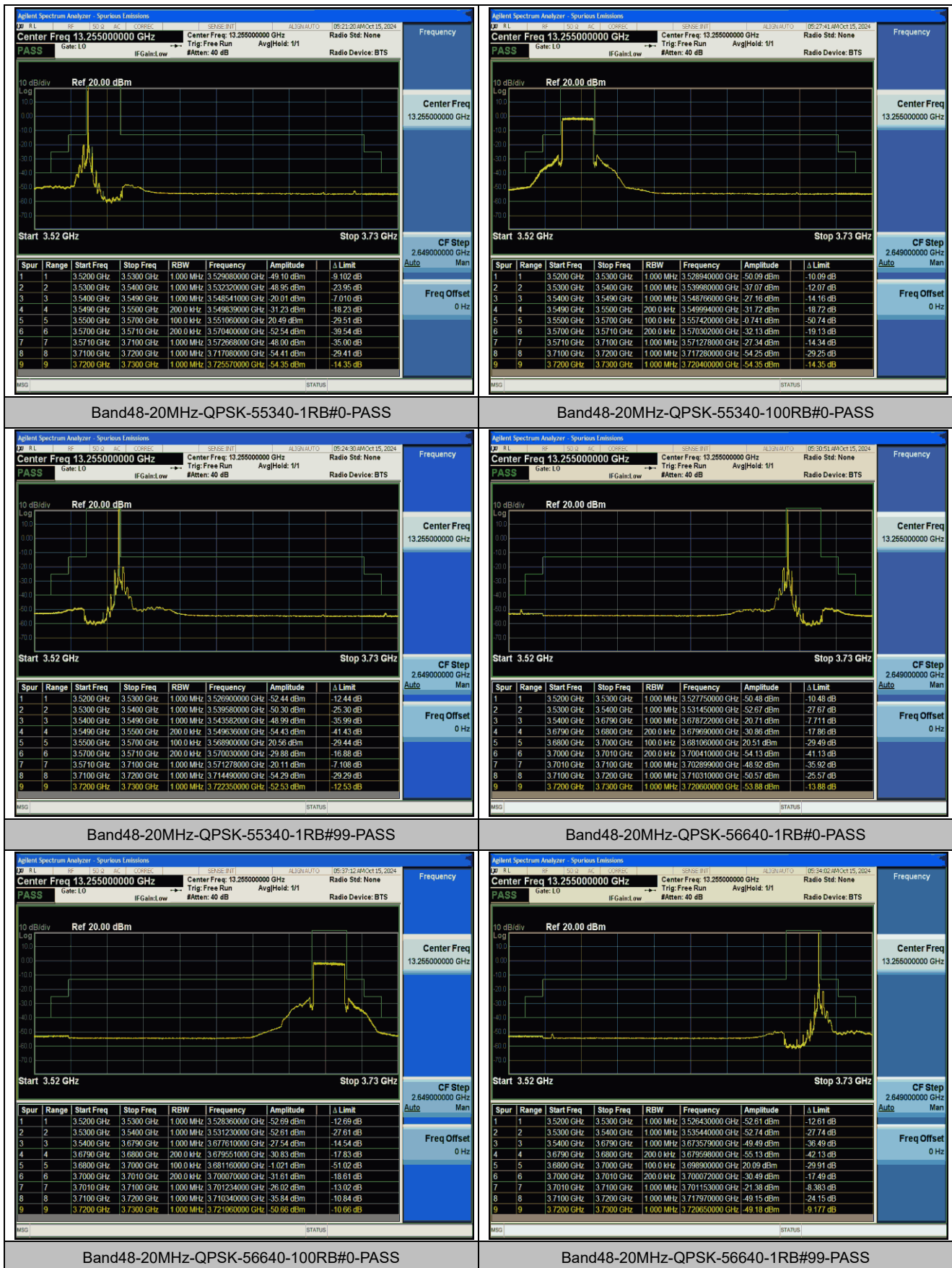






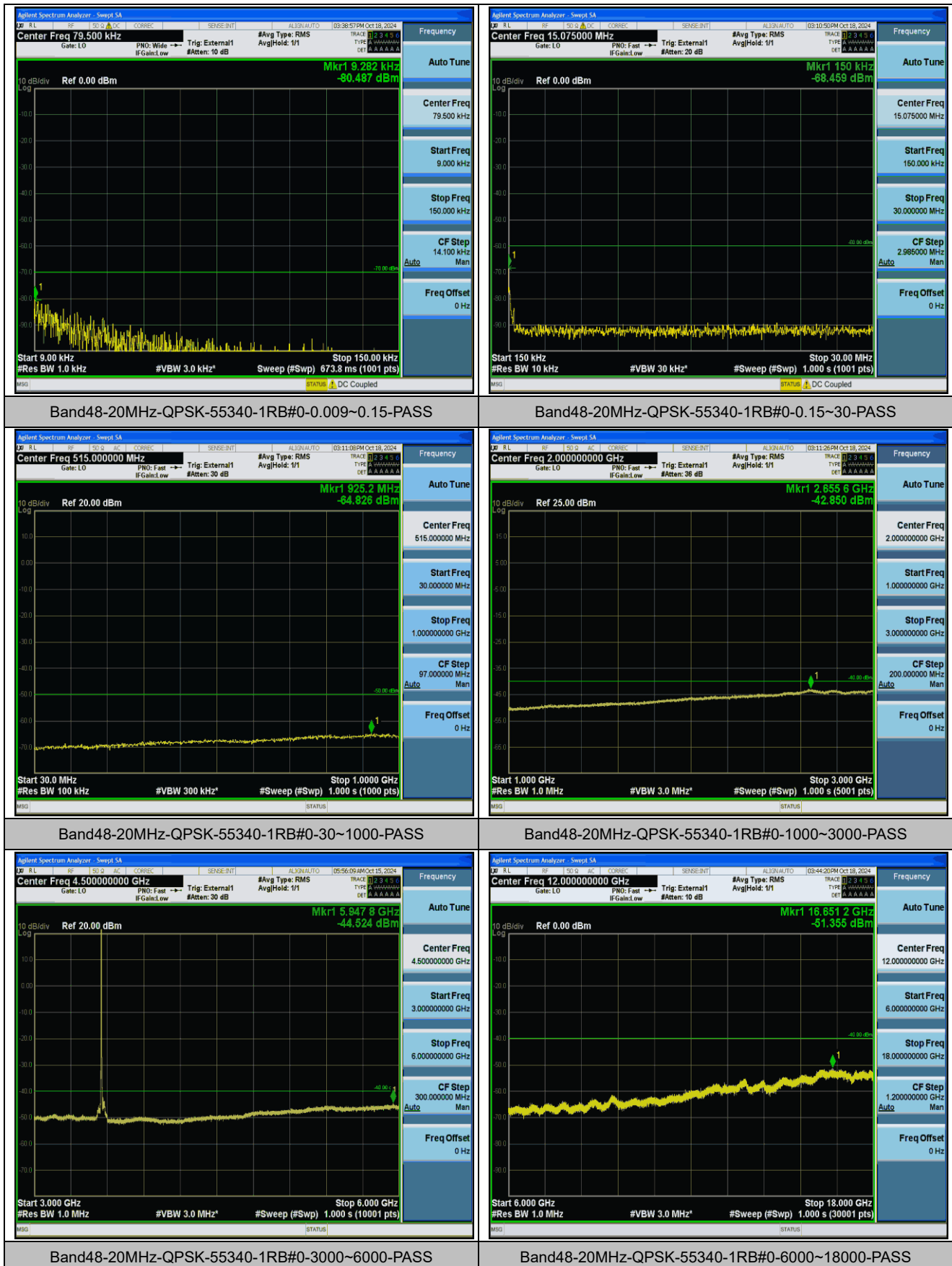


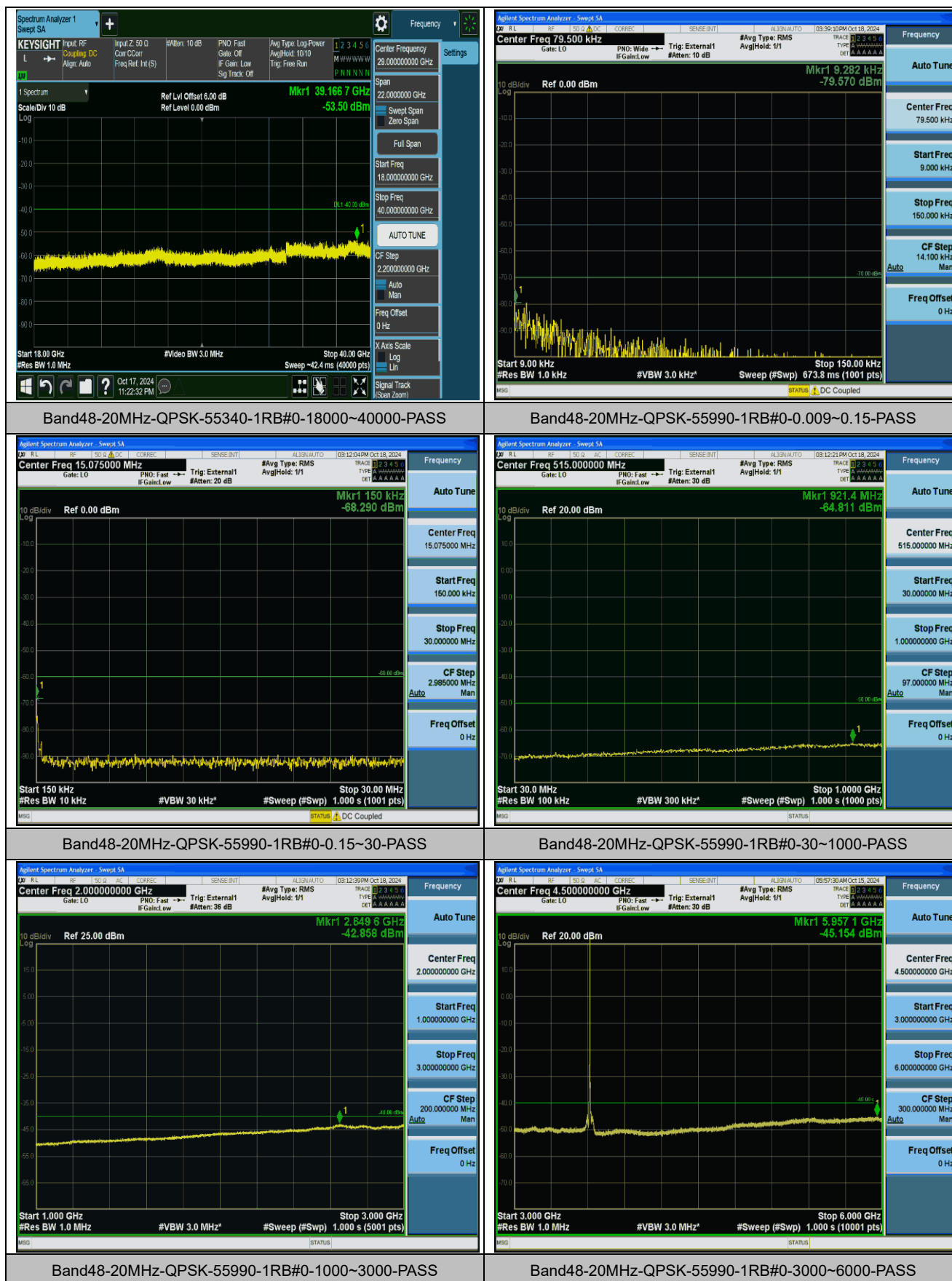




## Conducted Spurious Emission

## Test Graphs

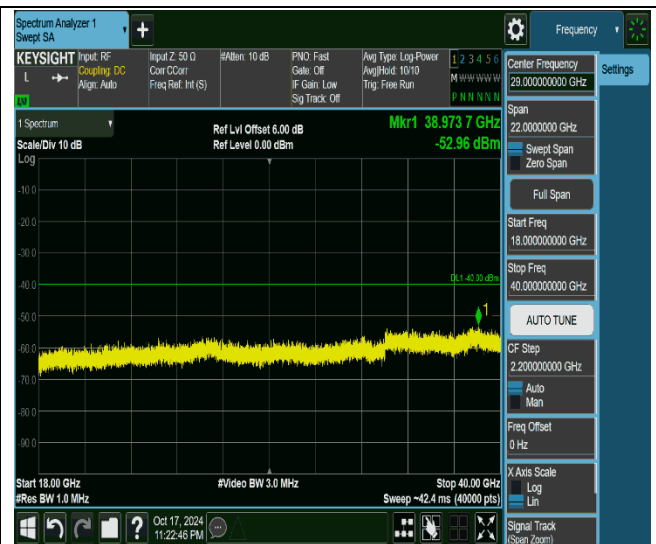




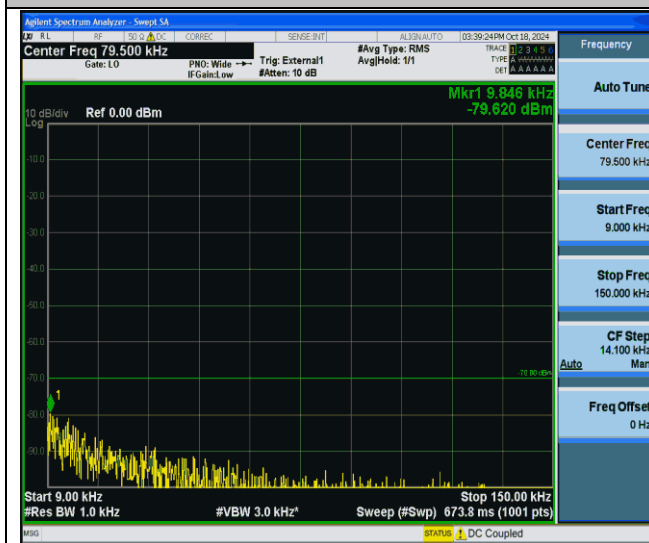




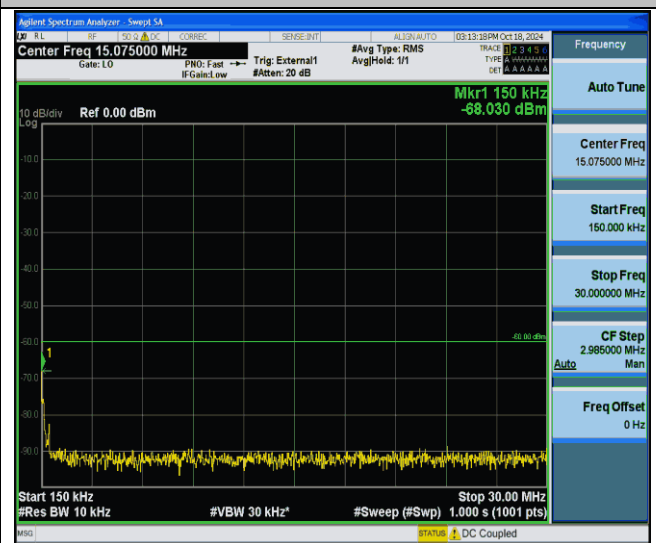
Band48-20MHz-QPSK-55990-1RB#0-6000~18000-PASS



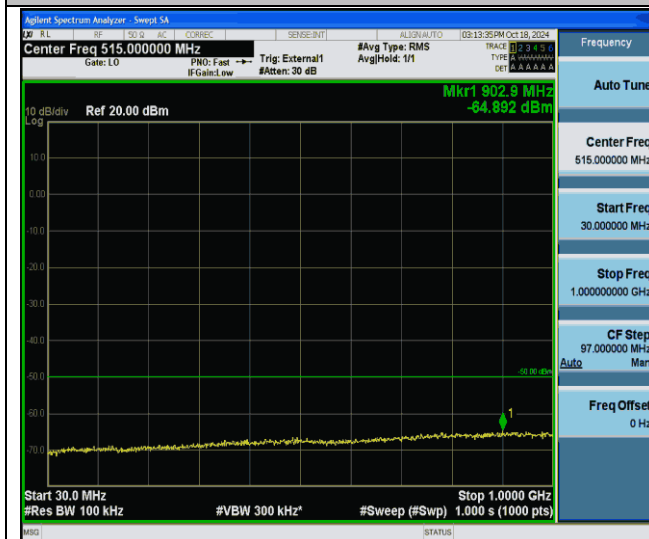
Band48-20MHz-QPSK-55990-1RB#0-18000~40000-PASS



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



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



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



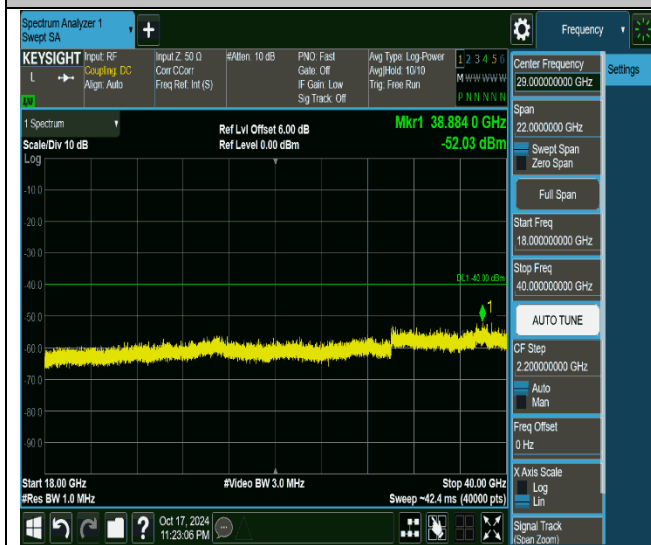
Band48-20MHz-QPSK-56640-1RB#0-1000~3000-PASS



Band48-20MHz-QPSK-56640-1RB#0-3000~6000-PASS



Band48-20MHz-QPSK-56640-1RB#0-6000~18000-PASS



Band48-20MHz-QPSK-56640-1RB#0-18000~40000-PASS



## Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band48  | 20MHz     | QPSK       | 55990   | 100RB#0      | VN            | NT               | 2.40           | 0.000662        | PASS    |
| Band48  | 20MHz     | QPSK       | 55990   | 100RB#0      | VL            | NT               | 2.80           | 0.000772        | PASS    |
| Band48  | 20MHz     | QPSK       | 55990   | 100RB#0      | VH            | NT               | 3.10           | 0.000855        | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band48      | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | -30              | 3.50           | 0.000966        | PASS    |
| Band48      | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | -20              | 4.70           | 0.001297        | PASS    |
| Band48      | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | -10              | 4.30           | 0.001186        | PASS    |
| Band48      | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 0                | 2.00           | 0.000552        | PASS    |
| Band48      | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 10               | 2.80           | 0.000772        | PASS    |
| Band48      | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 20               | 0.80           | 0.000221        | PASS    |
| Band48      | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 30               | 1.80           | 0.000497        | PASS    |
| Band48      | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 40               | 2.70           | 0.000745        | PASS    |
| Band48      | 20MHz     | QPSK       | 55990   | 100RB#0      | NV            | 50               | 4.90           | 0.001352        | PASS    |

~The End~