

# Appendix-A LTE Band 4

## Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|--------------|------------|-------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#0            | 23.14        | 25.14      | 30.00       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#2            | 22.95        | 24.95      | 30.00       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#5            | 23           | 25         | 30.00       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 22.12        | 24.12      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | 22.69        | 24.69      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#2            | 22.58        | 24.58      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#5            | 22.47        | 24.47      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 21.25        | 23.25      | 30.00       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#0            | 23.25        | 25.25      | 30.00       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#2            | 23.34        | 25.34      | 30.00       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#5            | 23.33        | 25.33      | 30.00       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 22.43        | 24.43      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#0            | 22.61        | 24.61      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#2            | 22.62        | 24.62      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#5            | 22.64        | 24.64      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 21.3         | 23.3       | 30.00       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#0            | 23.47        | 25.47      | 30.00       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#2            | 23.46        | 25.46      | 30.00       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#5            | 23.48        | 25.48      | 30.00       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 22.56        | 24.56      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#0            | 22.77        | 24.77      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#2            | 22.87        | 24.87      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#5            | 22.86        | 24.86      | 30.00       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 21.55        | 23.55      | 30.00       | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 1RB#0            | 23.06        | 25.06      | 30.00       | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 1RB#8            | 23.07        | 25.07      | 30.00       | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 1RB#14           | 22.9         | 24.9       | 30.00       | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 22.1         | 24.1       | 30.00       | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 1RB#0            | 22.31        | 24.31      | 30.00       | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 1RB#8            | 22.4         | 24.4       | 30.00       | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 1RB#14           | 22.26        | 24.26      | 30.00       | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 21.21        | 23.21      | 30.00       | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 1RB#0            | 23.23        | 25.23      | 30.00       | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 1RB#8            | 23.33        | 25.33      | 30.00       | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 1RB#14           | 23.28        | 25.28      | 30.00       | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 22.38        | 24.38      | 30.00       | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 1RB#0            | 22.67        | 24.67      | 30.00       | PASS    |

|       |       |       |       |        |       |       |       |      |
|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band4 | 3MHz  | 16QAM | 20175 | 1RB#8  | 22.65 | 24.65 | 30.00 | PASS |
| Band4 | 3MHz  | 16QAM | 20175 | 1RB#14 | 22.34 | 24.34 | 30.00 | PASS |
| Band4 | 3MHz  | 16QAM | 20175 | 15RB#0 | 21.34 | 23.34 | 30.00 | PASS |
| Band4 | 3MHz  | QPSK  | 20385 | 1RB#0  | 23.3  | 25.3  | 30.00 | PASS |
| Band4 | 3MHz  | QPSK  | 20385 | 1RB#8  | 23.5  | 25.5  | 30.00 | PASS |
| Band4 | 3MHz  | QPSK  | 20385 | 1RB#14 | 23.43 | 25.43 | 30.00 | PASS |
| Band4 | 3MHz  | QPSK  | 20385 | 15RB#0 | 22.51 | 24.51 | 30.00 | PASS |
| Band4 | 3MHz  | 16QAM | 20385 | 1RB#0  | 22.68 | 24.68 | 30.00 | PASS |
| Band4 | 3MHz  | 16QAM | 20385 | 1RB#8  | 22.78 | 24.78 | 30.00 | PASS |
| Band4 | 3MHz  | 16QAM | 20385 | 1RB#14 | 22.74 | 24.74 | 30.00 | PASS |
| Band4 | 3MHz  | 16QAM | 20385 | 15RB#0 | 21.49 | 23.49 | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 19975 | 1RB#0  | 23.25 | 25.25 | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 19975 | 1RB#12 | 23.04 | 25.04 | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 19975 | 1RB#24 | 23.04 | 25.04 | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 19975 | 25RB#0 | 22.07 | 24.07 | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 19975 | 1RB#0  | 22.63 | 24.63 | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 19975 | 1RB#12 | 22.5  | 24.5  | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 19975 | 1RB#24 | 22.36 | 24.36 | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 19975 | 25RB#0 | 21.15 | 23.15 | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 20175 | 1RB#0  | 23.2  | 25.2  | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 20175 | 1RB#12 | 23.31 | 25.31 | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 20175 | 1RB#24 | 23.29 | 25.29 | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 20175 | 25RB#0 | 22.31 | 24.31 | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 1RB#0  | 22.44 | 24.44 | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 1RB#12 | 22.59 | 24.59 | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 1RB#24 | 22.59 | 24.59 | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 25RB#0 | 21.11 | 23.11 | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 20375 | 1RB#0  | 23.46 | 25.46 | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 20375 | 1RB#12 | 23.48 | 25.48 | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 20375 | 1RB#24 | 23.49 | 25.49 | 30.00 | PASS |
| Band4 | 5MHz  | QPSK  | 20375 | 25RB#0 | 22.47 | 24.47 | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#0  | 22.42 | 24.42 | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#12 | 22.7  | 24.7  | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#24 | 22.62 | 24.62 | 30.00 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0 | 21.37 | 23.37 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#0  | 23.42 | 25.42 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#24 | 22.85 | 24.85 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#49 | 23.06 | 25.06 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | 21.84 | 23.84 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0  | 22.5  | 24.5  | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24 | 22.27 | 24.27 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49 | 22.39 | 24.39 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 27RB#0 | 20.91 | 22.91 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#0  | 23.25 | 25.25 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#24 | 23.16 | 25.16 | 30.00 | PASS |

|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 10MHz | QPSK  | 20175 | 1RB#49  | 23.2  | 25.2  | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0  | 22.1  | 24.1  | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0   | 22.27 | 24.27 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24  | 22.52 | 24.52 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49  | 22.55 | 24.55 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 27RB#0  | 21.02 | 23.02 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#0   | 23.31 | 25.31 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#24  | 23.41 | 25.41 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#49  | 23.46 | 25.46 | 30.00 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0  | 22.3  | 24.3  | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0   | 22.57 | 24.57 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24  | 22.75 | 24.75 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49  | 22.7  | 24.7  | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 27RB#0  | 21.07 | 23.07 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#0   | 23.37 | 25.37 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#38  | 23.03 | 25.03 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#74  | 23.32 | 25.32 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0  | 22.13 | 24.13 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0   | 22.5  | 24.5  | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38  | 22.15 | 24.15 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74  | 22.71 | 24.71 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 27RB#0  | 21.04 | 23.04 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#0   | 23.16 | 25.16 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#38  | 23.35 | 25.35 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#74  | 23.18 | 25.18 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0  | 22.27 | 24.27 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0   | 22.26 | 24.26 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38  | 22.75 | 24.75 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74  | 22.62 | 24.62 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 27RB#0  | 21.08 | 23.08 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#0   | 23.28 | 25.28 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#38  | 23.34 | 25.34 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#74  | 23.41 | 25.41 | 30.00 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | 22.34 | 24.34 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0   | 22.4  | 24.4  | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38  | 22.76 | 24.76 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74  | 22.6  | 24.6  | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 27RB#0  | 21.15 | 23.15 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#0   | 23.32 | 25.32 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#49  | 23.1  | 25.1  | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#99  | 23.24 | 25.24 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 22.13 | 24.13 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0   | 22.24 | 24.24 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49  | 22.45 | 24.45 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99  | 22.25 | 24.25 | 30.00 | PASS |

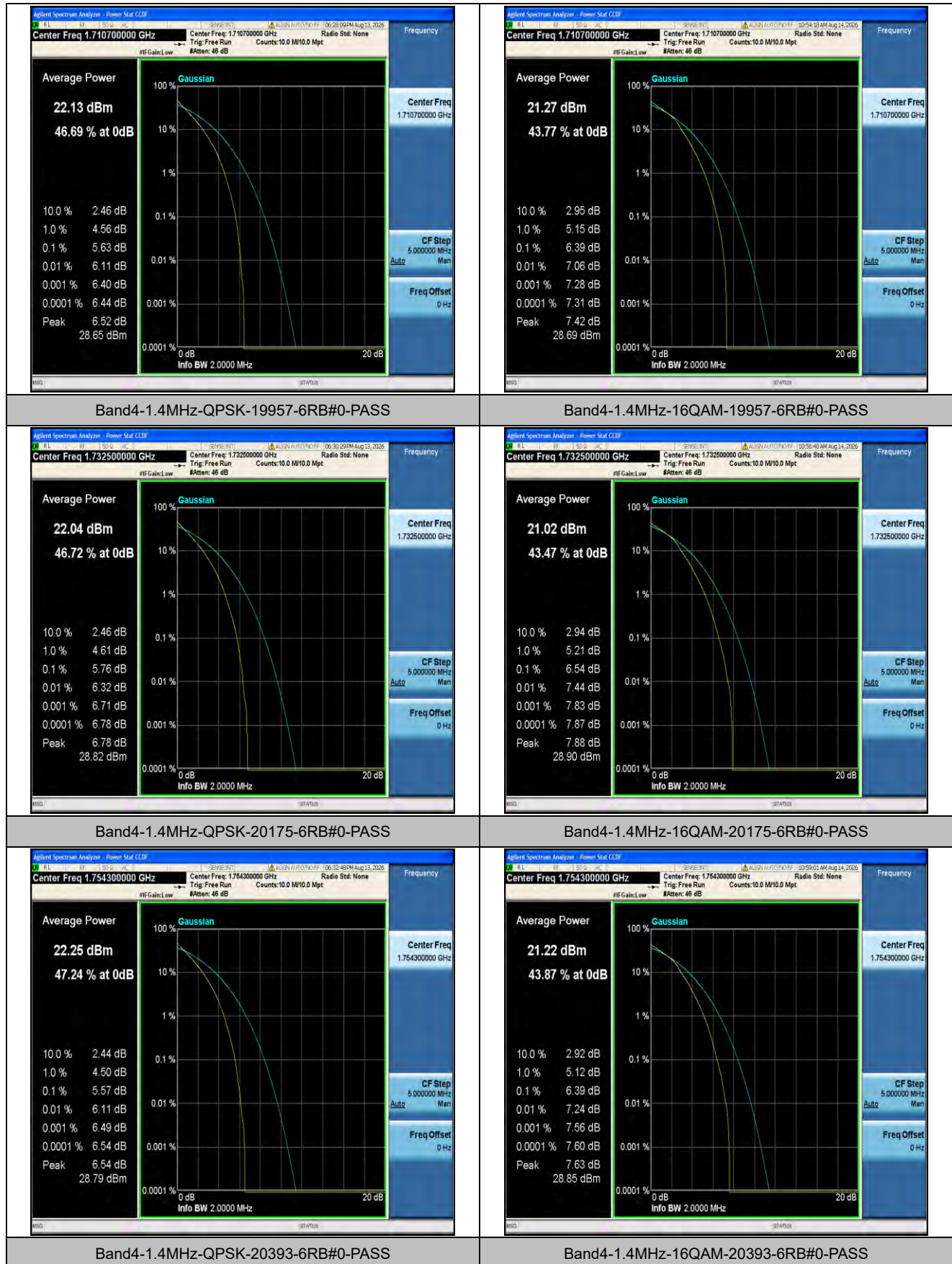
|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 20MHz | 16QAM | 20050 | 27RB#0  | 20.86 | 22.86 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#0   | 23.17 | 25.17 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#49  | 23.34 | 25.34 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#99  | 23.18 | 25.18 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 22.2  | 24.2  | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0   | 22.26 | 24.26 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49  | 22.82 | 24.82 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99  | 22.26 | 24.26 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 27RB#0  | 21.01 | 23.01 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#0   | 23.25 | 25.25 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#49  | 23.29 | 25.29 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#99  | 23.34 | 25.34 | 30.00 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 22.2  | 24.2  | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0   | 22.57 | 24.57 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49  | 22.42 | 24.42 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99  | 22.5  | 24.5  | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 27RB#0  | 20.91 | 22.91 | 30.00 | PASS |

## Peak-to-Average Ratio(CCDF)

## Test Result

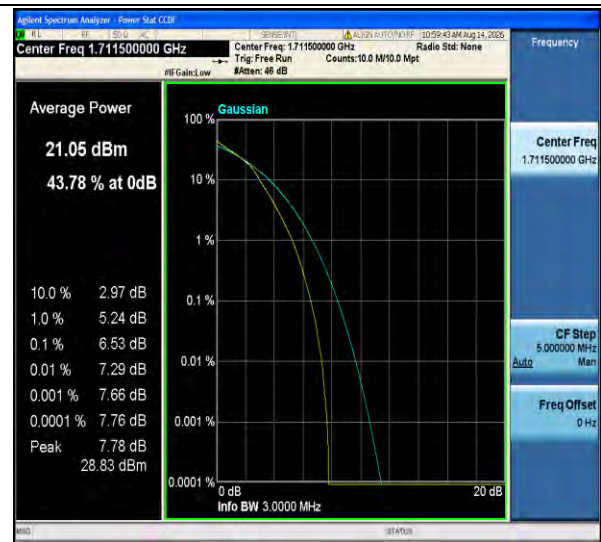
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result (dB) | Limit (dB) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 5.63        | 13         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 6.39        | 13         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 5.76        | 13         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 6.54        | 13         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 5.57        | 13         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 6.39        | 13         | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 5.72        | 13         | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 6.53        | 13         | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 5.80        | 13         | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 6.62        | 13         | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 5.68        | 13         | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 6.52        | 13         | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 5.69        | 13         | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 6.31        | 13         | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 5.76        | 13         | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 6.41        | 13         | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 5.66        | 13         | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 6.32        | 13         | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 5.70        | 13         | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 5.68        | 13         | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 5.62        | 13         | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | 5.33        | 13         | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 27RB#0           | 6.21        | 13         | PASS    |
| Band4 | 15MHz     | QPSK       | 20175   | 75RB#0           | 5.29        | 13         | PASS    |
| Band4 | 15MHz     | 16QAM      | 20175   | 27RB#0           | 6.30        | 13         | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | 5.25        | 13         | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 27RB#0           | 6.30        | 13         | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | 5.53        | 13         | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 27RB#0           | 6.33        | 13         | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | 5.55        | 13         | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 27RB#0           | 6.41        | 13         | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | 5.54        | 13         | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 27RB#0           | 6.36        | 13         | PASS    |

## Test Graphs





Band4-3MHz-QPSK-19965-15RB#0-PASS



Band4-3MHz-16QAM-19965-15RB#0-PASS



Band4-3MHz-QPSK-17325-15RB#0-PASS



Band4-3MHz-16QAM-17325-15RB#0-PASS



Band4-3MHz-QPSK-20385-15RB#0-PASS



Band4-3MHz-16QAM-20385-15RB#0-PASS



Band4-5MHz-QPSK-19975-25RB#0-PASS



Band4-5MHz-16QAM-19975-25RB#0-PASS



Band4-5MHz-QPSK-20175-25RB#0-PASS



Band4-5MHz-16QAM-20175-25RB#0-PASS



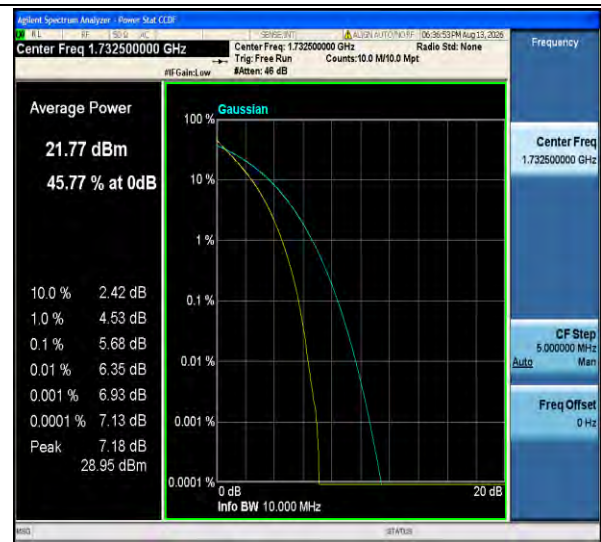
Band4-5MHz-QPSK-20375-25RB#0-PASS



Band4-5MHz-16QAM-20375-25RB#0-PASS



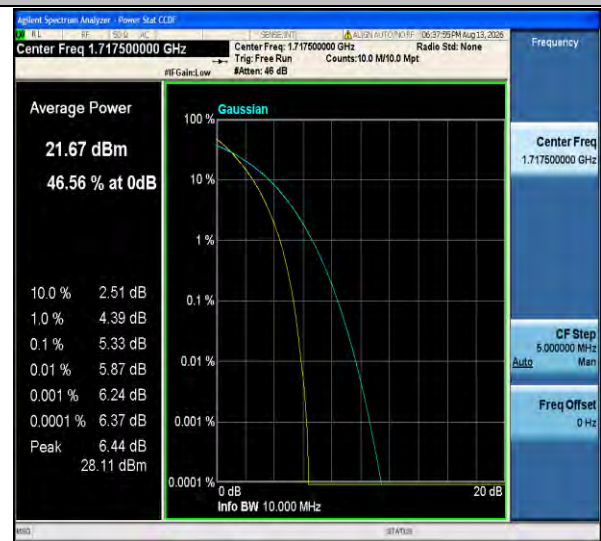
Band4-10MHz-QPSK-20000-50RB#0-PASS



Band4-10MHz-QPSK-20175-50RB#0-PASS



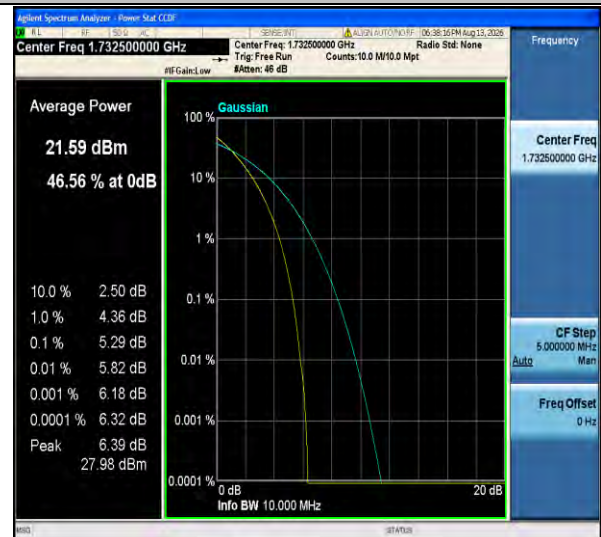
Band4-10MHz-QPSK-20350-50RB#0-PASS



Band4-15MHz-QPSK-20025-75RB#0-PASS



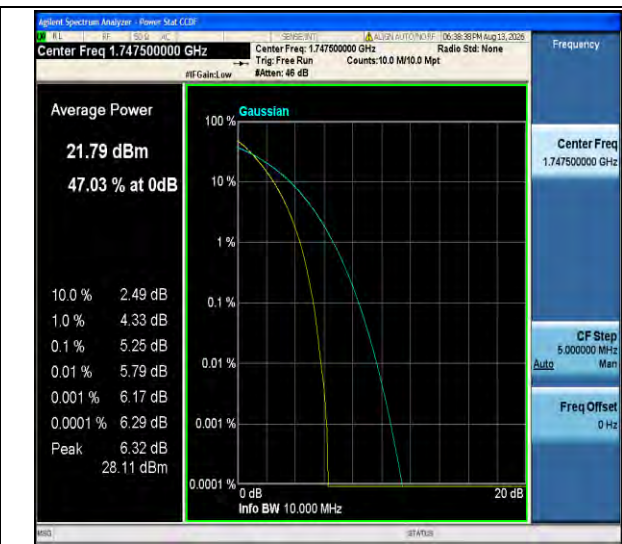
Band4-15MHz-16QAM-20025-27RB#0-PASS



Band4-15MHz-QPSK-20175-75RB#0-PASS



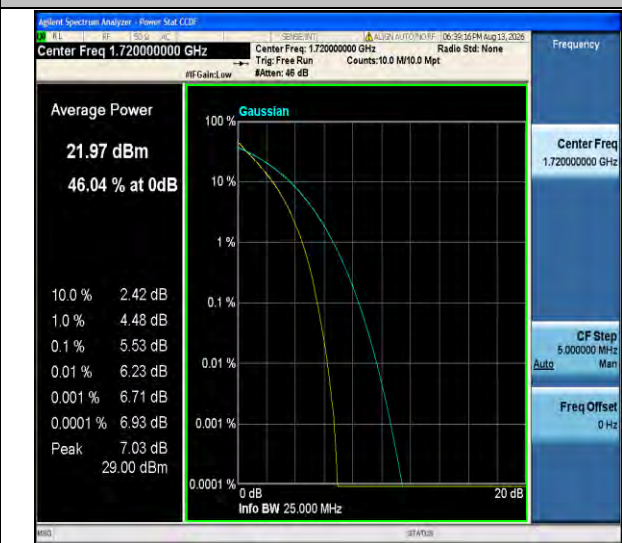
Band4-15MHz-16QAM-20175-27RB#0-PASS



Band4-15MHz-QPSK-20325-75RB#0-PASS



Band4-15MHz-16QAM-20325-27RB#0-PASS



Band4-20MHz-QPSK-20050-100RB#0-PASS



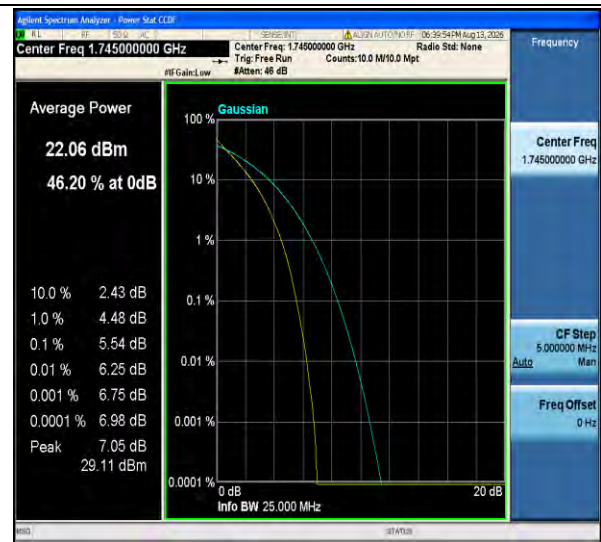
Band4-20MHz-16QAM-20050-27RB#0-PASS



Band4-20MHz-QPSK-20175-100RB#0-PASS



Band4-20MHz-16QAM-20175-27RB#0-PASS



Band4-20MHz-QPSK-20300-100RB#0-PASS



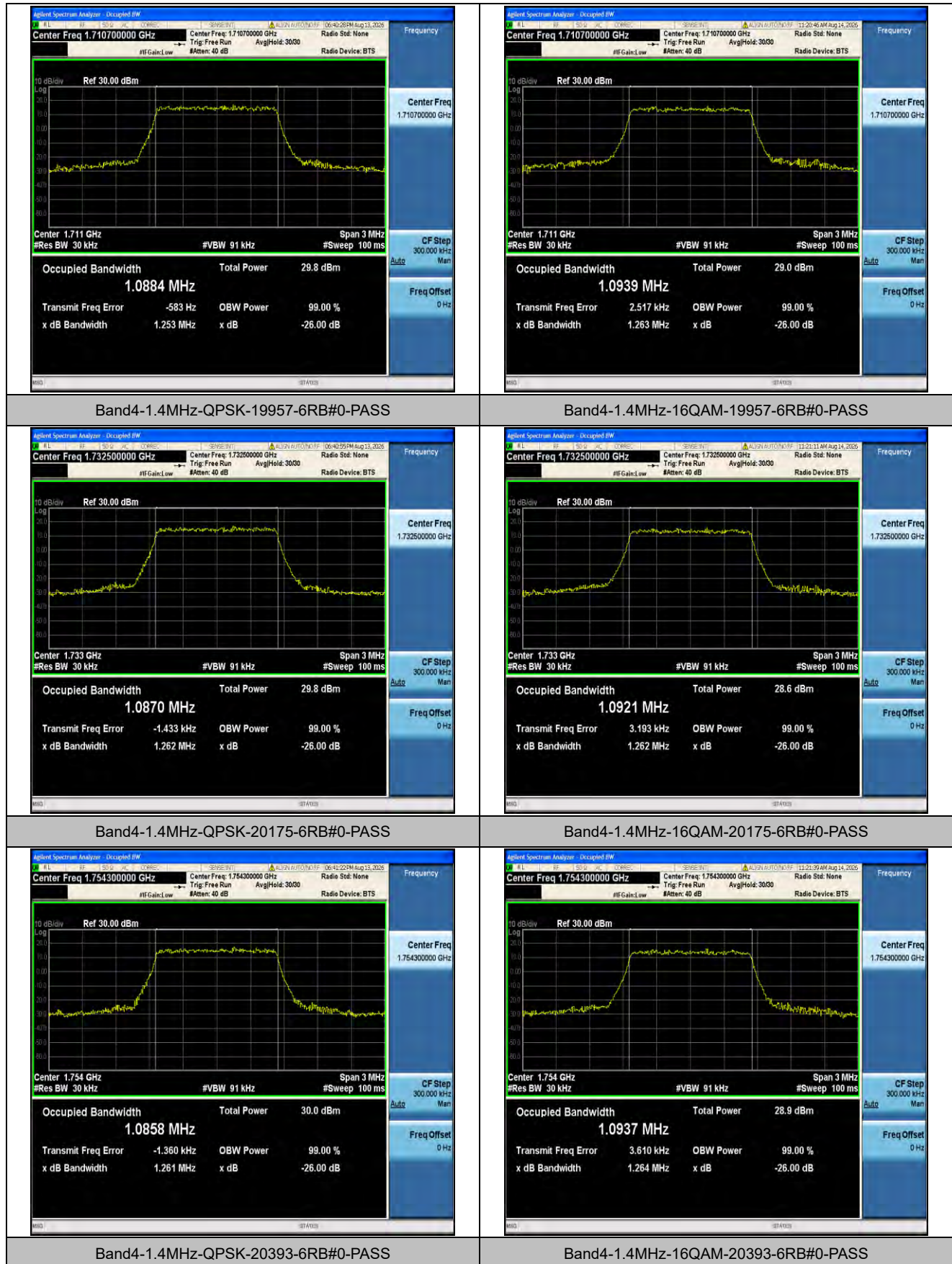
Band4-20MHz-16QAM-20300-27RB#0-PASS

## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | OBW (MHz) | 26dB EBW (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|-----------|----------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 1.0884    | 1.253          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 1.0939    | 1.263          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 1.0870    | 1.262          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 1.0921    | 1.262          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 1.0858    | 1.261          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 1.0937    | 1.264          | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 2.6927    | 2.924          | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 2.6824    | 2.928          | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 2.6893    | 2.920          | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 2.6851    | 2.934          | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 2.6928    | 2.928          | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 2.6837    | 2.935          | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 4.4848    | 4.923          | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 4.4834    | 4.943          | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 4.4838    | 4.932          | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 4.4857    | 4.924          | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 4.4853    | 4.925          | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 4.4846    | 4.946          | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 8.9855    | 9.727          | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 27RB#0           | 4.9434    | 5.644          | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 8.9872    | 9.705          | PASS    |
| Band4 | 10MHz     | 16QAM      | 20175   | 27RB#0           | 4.9361    | 5.592          | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 8.9586    | 9.734          | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 27RB#0           | 4.9461    | 5.610          | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | 13.476    | 14.54          | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 27RB#0           | 5.0487    | 5.901          | PASS    |
| Band4 | 15MHz     | QPSK       | 20175   | 75RB#0           | 13.468    | 14.51          | PASS    |
| Band4 | 15MHz     | 16QAM      | 20175   | 27RB#0           | 5.0547    | 5.868          | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | 13.469    | 14.49          | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 27RB#0           | 5.0562    | 5.888          | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | 17.941    | 19.21          | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 27RB#0           | 5.1814    | 6.107          | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | 17.953    | 19.23          | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 27RB#0           | 5.1850    | 6.075          | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | 17.945    | 19.11          | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 27RB#0           | 5.1846    | 6.120          | PASS    |

## Test Graphs





Band4-3MHz-QPSK-19965-15RB#0-PASS



Band4-3MHz-16QAM-19965-15RB#0-PASS



Band4-3MHz-QPSK-20175-15RB#0-PASS



Band4-3MHz-16QAM-20175-15RB#0-PASS



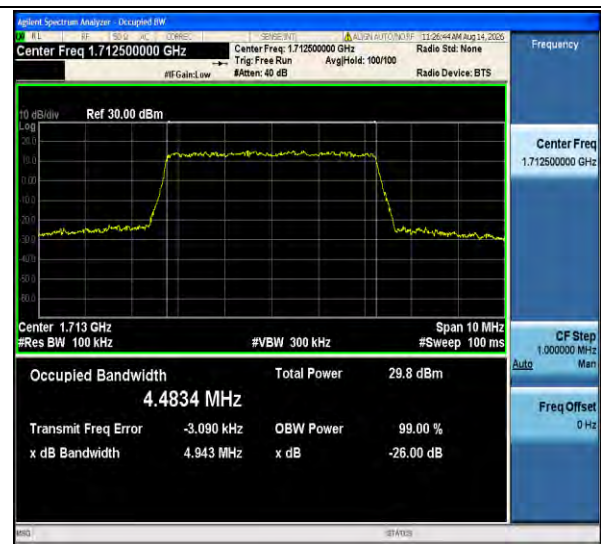
Band4-3MHz-QPSK-20385-15RB#0-PASS



Band4-3MHz-16QAM-20385-15RB#0-PASS



Band4-5MHz-QPSK-19975-25RB#0-PASS



Band4-5MHz-16QAM-19975-25RB#0-PASS



Band4-5MHz-QPSK-20175-25RB#0-PASS



Band4-5MHz-16QAM-20175-25RB#0-PASS



Band4-5MHz-QPSK-20375-25RB#0-PASS



Band4-5MHz-16QAM-20375-25RB#0-PASS



Band4-10MHz-QPSK-20000-50RB#0-PASS



Band4-10MHz-16QAM-20000-27RB#0-PASS



Band4-10MHz-QPSK-20175-50RB#0-PASS



Band4-10MHz-16QAM-20175-27RB#0-PASS



Band4-10MHz-QPSK-20350-50RB#0-PASS



Band4-10MHz-16QAM-20350-27RB#0-PASS



Band4-15MHz-QPSK-20025-75RB#0-PASS



Band4-15MHz-16QAM-20025-27RB#0-PASS



Band4-15MHz-QPSK-20175-75RB#0-PASS



Band4-15MHz-16QAM-20175-27RB#0-PASS



Band4-15MHz-QPSK-20325-75RB#0-PASS



Band4-15MHz-16QAM-20325-27RB#0-PASS



Band4-20MHz-QPSK-20050-100RB#0-PASS



Band4-20MHz-16QAM-20050-27RB#0-PASS



Band4-20MHz-QPSK-20175-100RB#0-PASS



Band4-20MHz-16QAM-20175-27RB#0-PASS



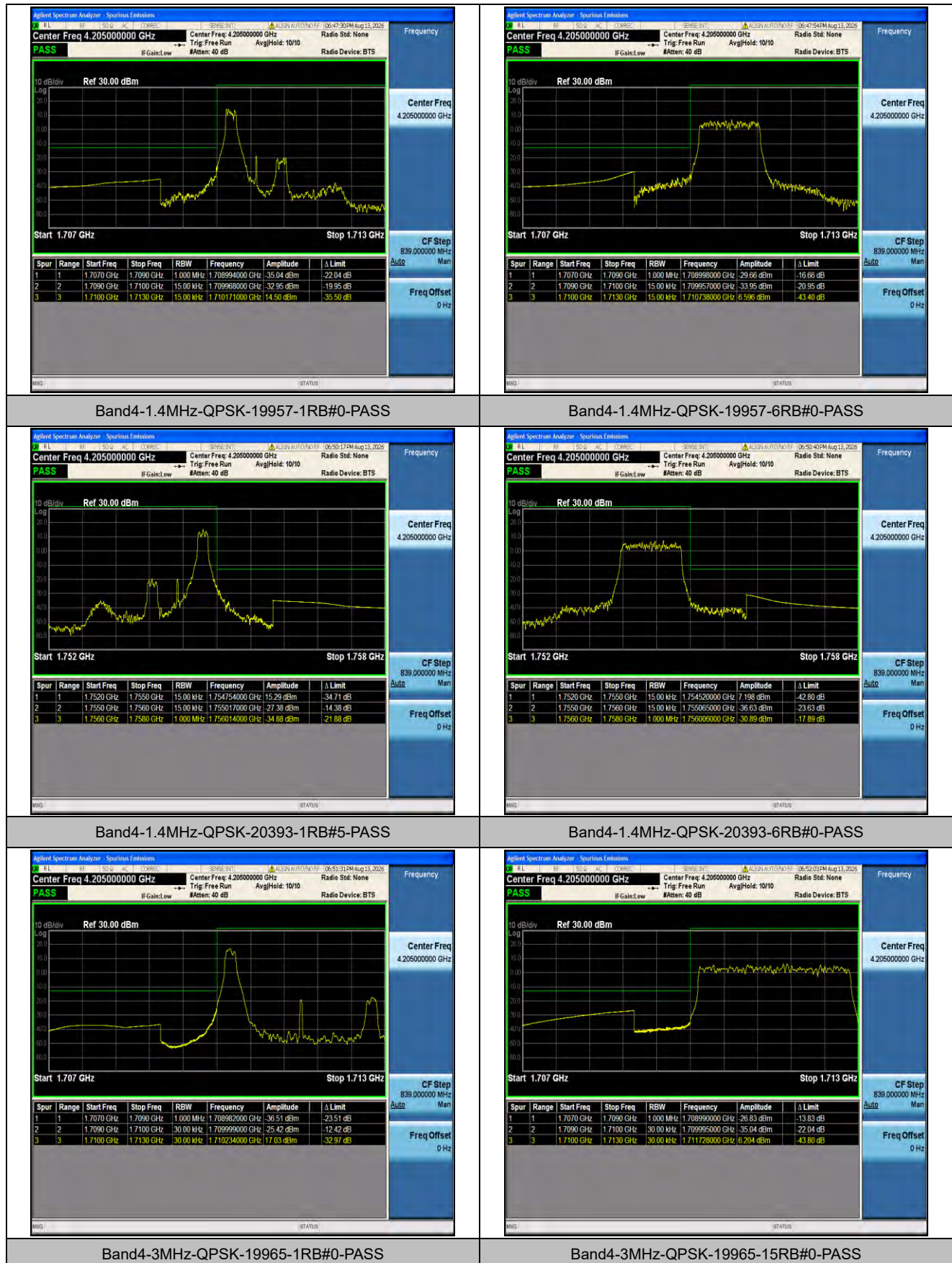
Band4-20MHz-QPSK-20300-100RB#0-PASS

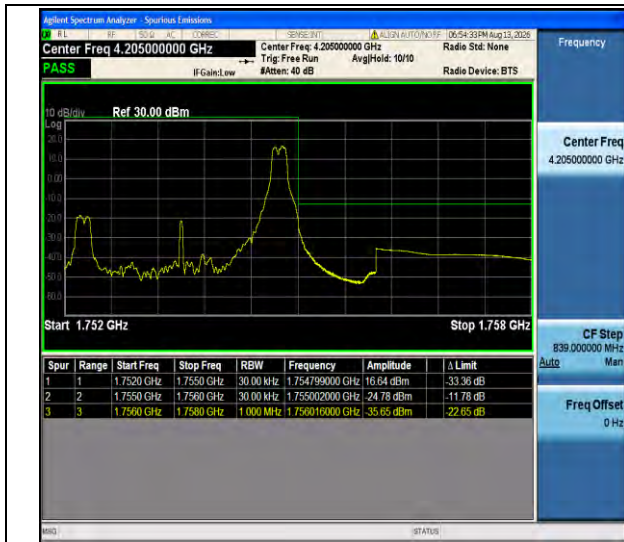


Band4-20MHz-16QAM-20300-27RB#0-PASS

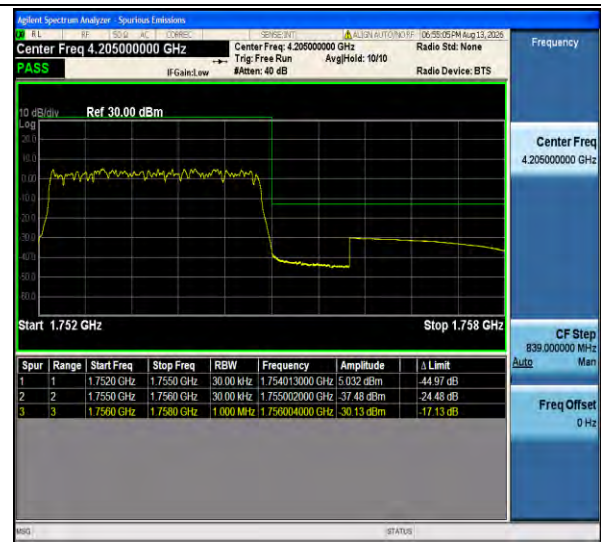
## Band Edge

### Test Graphs

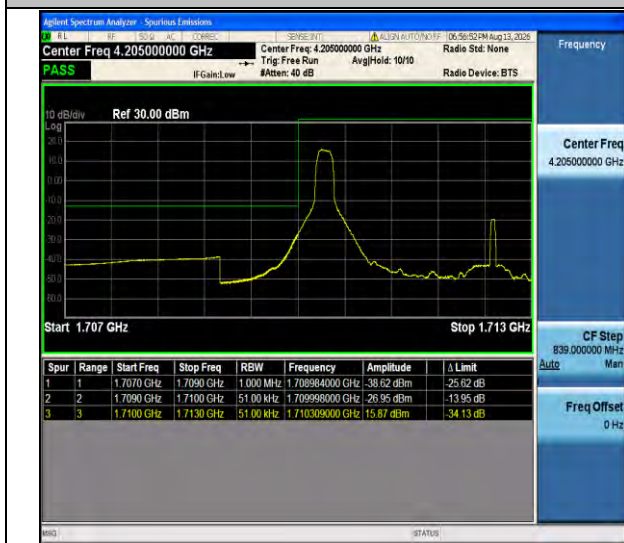




Band4-3MHz-QPSK-20385-1RB#14-PASS



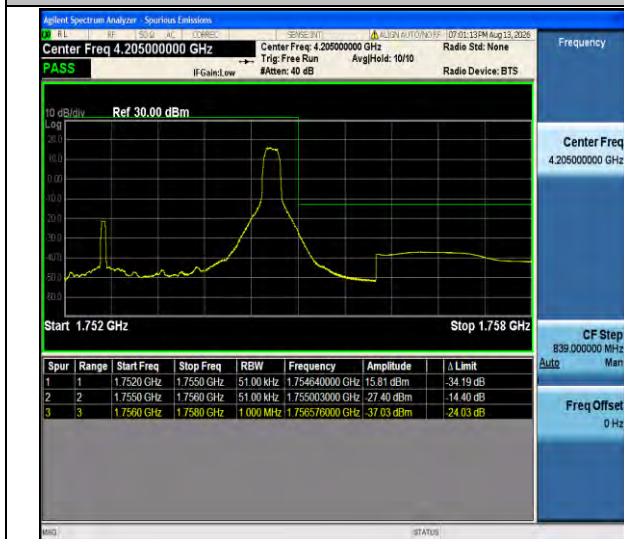
Band4-3MHz-QPSK-20385-15RB#0-PASS



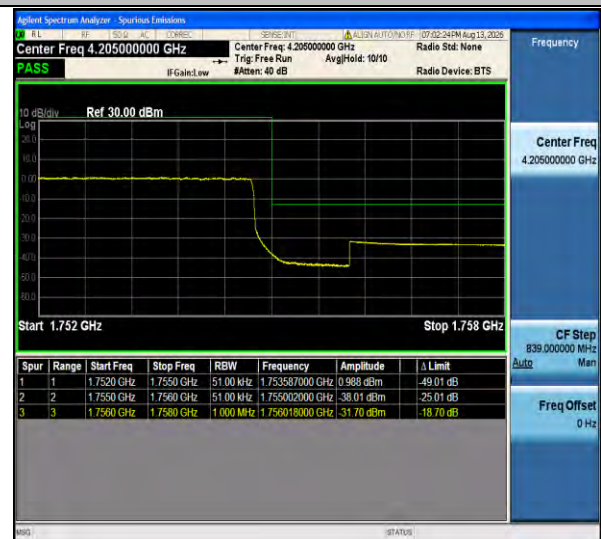
Band4-5MHz-QPSK-19975-1RB#0-PASS



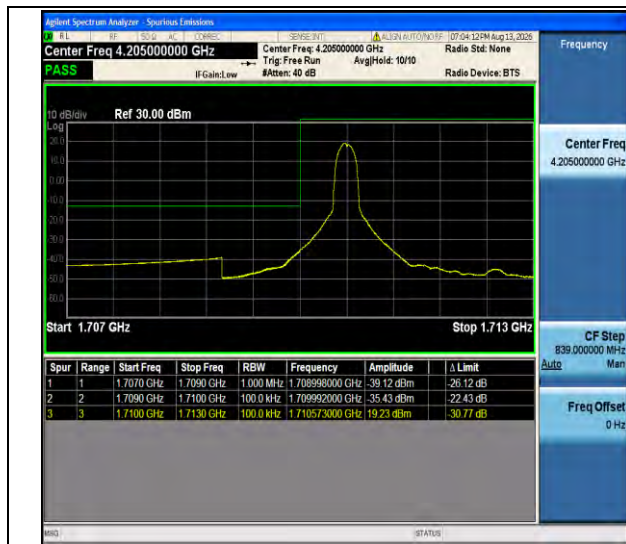
Band4-5MHz-QPSK-19975-25RB#0-PASS



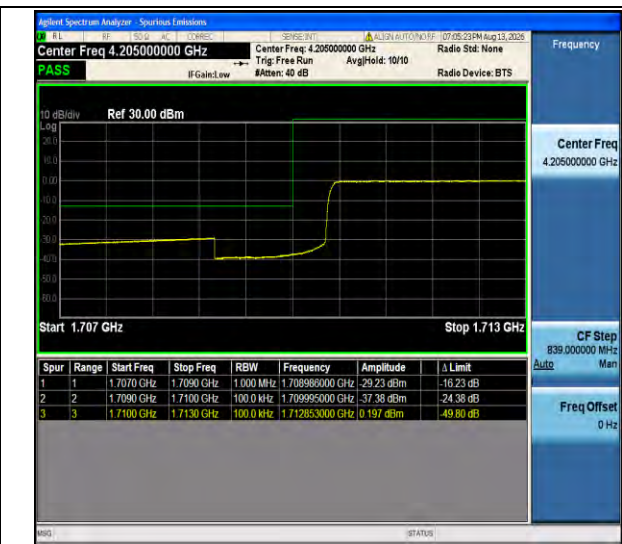
Band4-5MHz-QPSK-20375-1RB#24-PASS



Band4-5MHz-QPSK-20375-25RB#0-PASS



Band4-10MHz-QPSK-20000-1RB#0-PASS



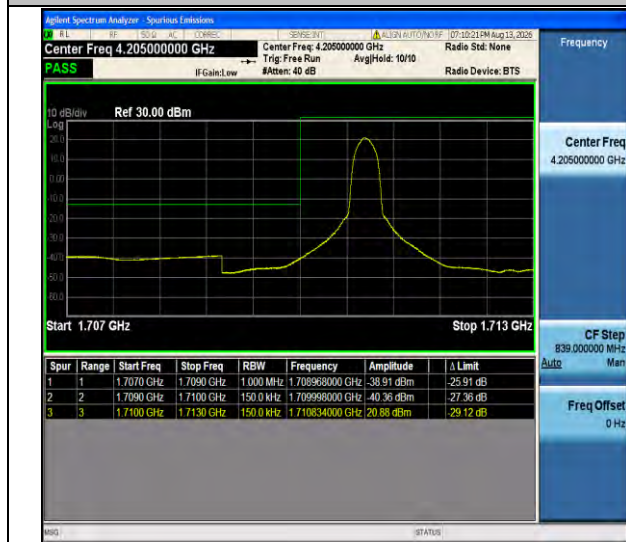
Band4-10MHz-QPSK-20000-50RB#0-PASS



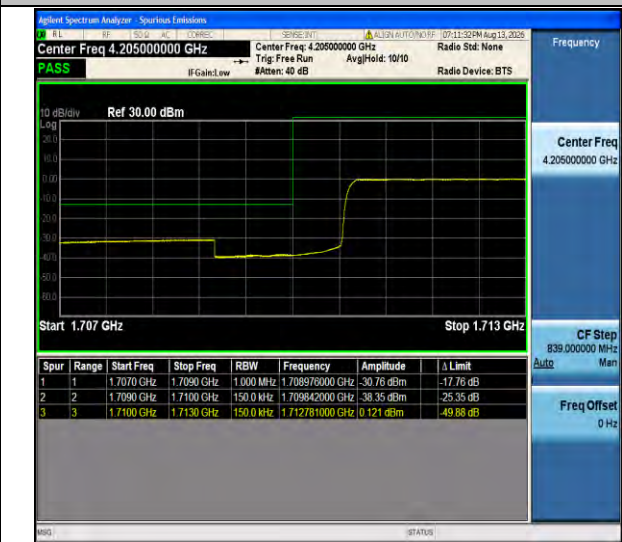
Band4-10MHz-QPSK-20350-1RB#49-PASS



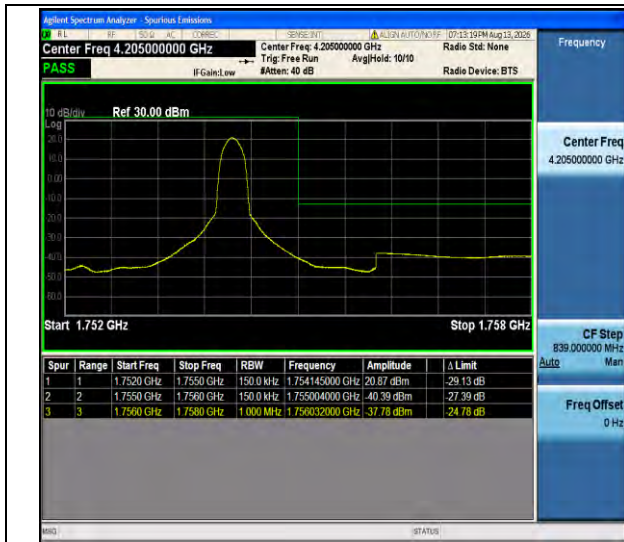
Band4-10MHz-QPSK-20350-50RB#0-PASS



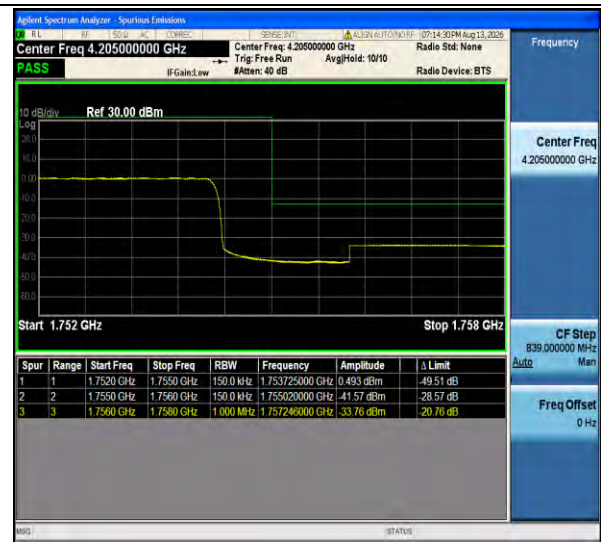
Band4-15MHz-QPSK-20025-1RB#0-PASS



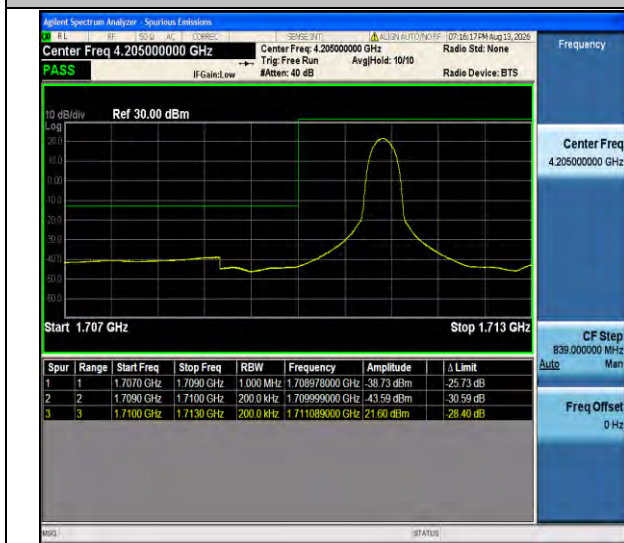
Band4-15MHz-QPSK-20025-75RB#0-PASS



Band4-15MHz-QPSK-20325-1RB#74-PASS



Band4-15MHz-QPSK-20325-75RB#0-PASS



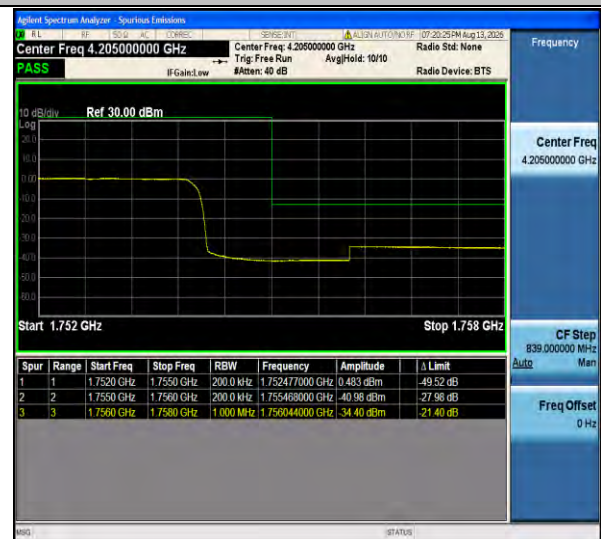
Band4-20MHz-QPSK-20050-1RB#0-PASS



Band4-20MHz-QPSK-20050-100RB#0-PASS



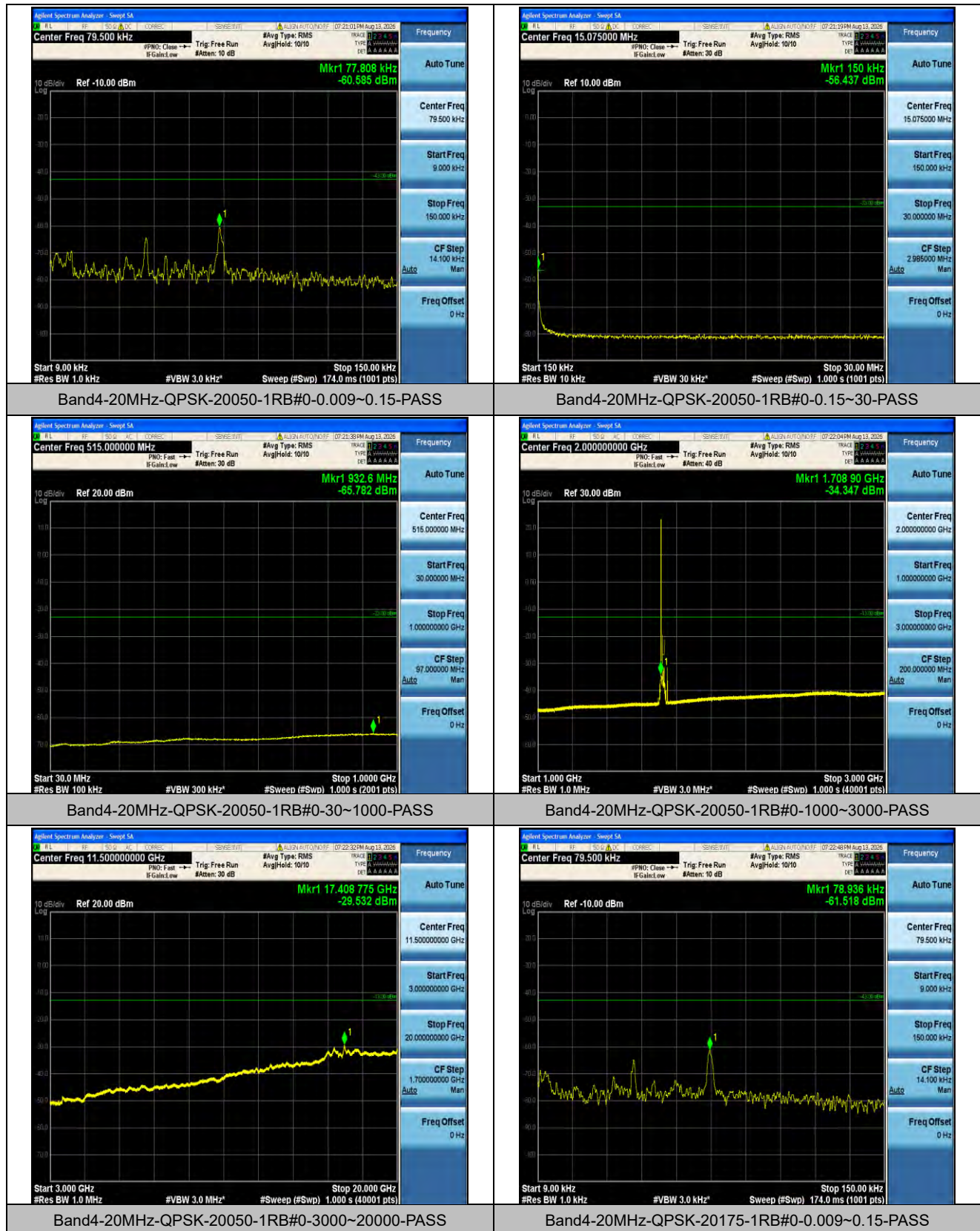
Band4-20MHz-QPSK-20300-1RB#99-PASS

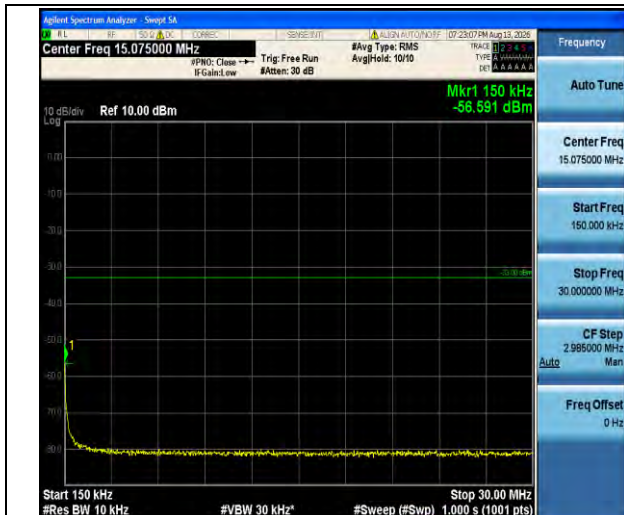


Band4-20MHz-QPSK-20300-100RB#0-PASS

# Conducted Spurious Emission

## Test Graphs





Band4-20MHz-QPSK-20175-1RB#0-0.15~30-PASS



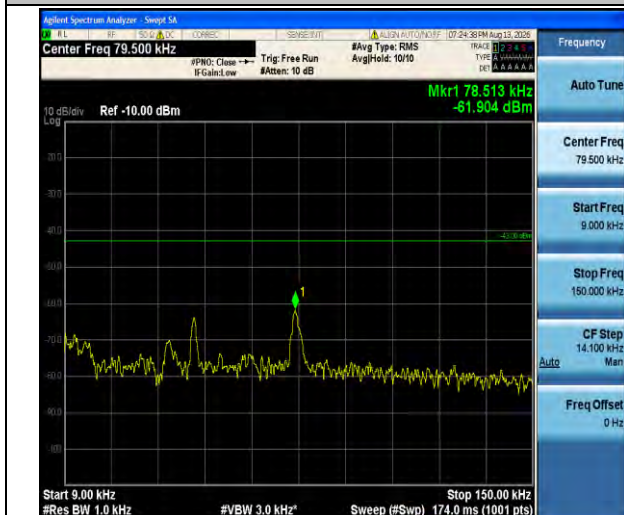
Band4-20MHz-QPSK-20175-1RB#0-30~1000-PASS



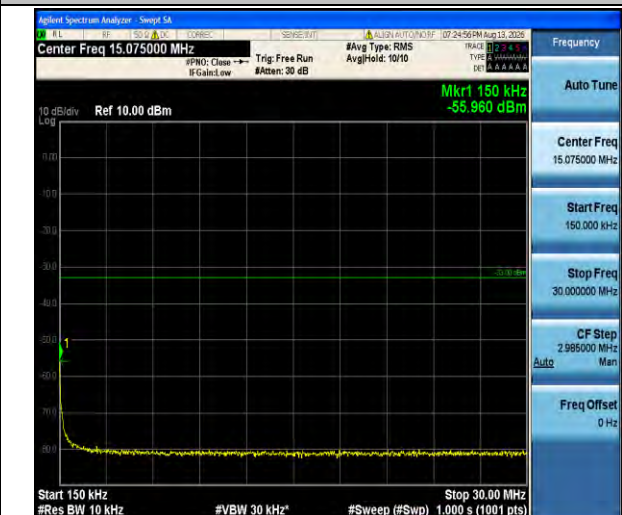
Band4-20MHz-QPSK-20175-1RB#0-1000~3000-PASS



Band4-20MHz-QPSK-20175-1RB#0-3000~20000-PASS



Band4-20MHz-QPSK-20300-1RB#0-0.009~0.15-PASS



Band4-20MHz-QPSK-20300-1RB#0-0.15~30-PASS



Band4-20MHz-QPSK-20300-1RB#0-30~1000-PASS



Band4-20MHz-QPSK-20300-1RB#0-1000~3000-PASS



Band4-20MHz-QPSK-20300-1RB#0-3000~20000-PASS

## Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band4   | 20MHz     | QPSK       | 20175   | 100RB#0      | VN            | NT               | -18.90         | -0.010909       | PASS    |
| Band4   | 20MHz     | QPSK       | 20175   | 100RB#0      | VL            | NT               | -14.90         | -0.008600       | PASS    |
| Band4   | 20MHz     | QPSK       | 20175   | 100RB#0      | VH            | NT               | -7.50          | -0.004329       | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -30              | -3.80          | -0.002193       | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -20              | -10.00         | -0.005772       | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | -10              | -0.80          | -0.000462       | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 0                | -17.70         | -0.010216       | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 10               | -3.50          | -0.002020       | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 20               | -4.70          | -0.002713       | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 30               | 6.50           | 0.003752        | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 40               | 3.00           | 0.001732        | PASS    |
| Band4       | 20MHz     | QPSK       | 20175   | 100RB#0      | NV            | 50               | -0.20          | -0.000115       | PASS    |

~The End~