



**BUREAU  
VERITAS**

**Test Report No.: W7L-P23010024RF06**

|            |       |       |       |        |    |    |        |           |      |      |
|------------|-------|-------|-------|--------|----|----|--------|-----------|------|------|
| 3          |       |       |       |        |    |    |        |           |      |      |
| Band1<br>3 | 5MHz  | 64QAM | 23230 | 25RB#0 | VN | NT | 43.64  | 0.055806  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23230 | 25RB#0 | VH | NT | 14.03  | 0.017941  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23255 | 25RB#0 | VL | NT | 9.56   | 0.012186  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23255 | 25RB#0 | VN | NT | 54.82  | 0.069879  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23255 | 25RB#0 | VH | NT | 27.54  | 0.035105  | ±2.5 | PASS |
| Band1<br>3 | 10MHz | QPSK  | 23230 | 50RB#0 | VL | NT | 10.96  | 0.014015  | ±2.5 | PASS |
| Band1<br>3 | 10MHz | QPSK  | 23230 | 50RB#0 | VN | NT | 19.77  | 0.025281  | ±2.5 | PASS |
| Band1<br>3 | 10MHz | QPSK  | 23230 | 50RB#0 | VH | NT | -9.98  | -0.012762 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 16QAM | 23230 | 50RB#0 | VL | NT | -23.36 | -0.029872 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 16QAM | 23230 | 50RB#0 | VN | NT | -23.25 | -0.029731 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 16QAM | 23230 | 50RB#0 | VH | NT | -25.33 | -0.032391 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 64QAM | 23230 | 50RB#0 | VL | NT | -4.46  | -0.005703 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 64QAM | 23230 | 50RB#0 | VN | NT | -3.30  | -0.004220 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 64QAM | 23230 | 50RB#0 | VH | NT | -4.84  | -0.006189 | ±2.5 | PASS |

| Temperature |           |            |         |                  |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|------------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configuration | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band1<br>3  | 5MHz      | QPSK       | 23205   | 25RB#0           | NV            | -30              | -28.82         | -0.036972       | ±2.5        | PASS    |
| Band1<br>3  | 5MHz      | QPSK       | 23205   | 25RB#0           | NV            | -20              | -40.43         | -0.051867       | ±2.5        | PASS    |
| Band1<br>3  | 5MHz      | QPSK       | 23205   | 25RB#0           | NV            | 0                | -51.67         | -0.066286       | ±2.5        | PASS    |
| Band1<br>3  | 5MHz      | QPSK       | 23205   | 25RB#0           | NV            | 10               | -4.95          | -0.006350       | ±2.5        | PASS    |
| Band1<br>3  | 5MHz      | QPSK       | 23205   | 25RB#0           | NV            | 20               | -15.46         | -0.019833       | ±2.5        | PASS    |
| Band1<br>3  | 5MHz      | QPSK       | 23205   | 25RB#0           | NV            | 30               | -19.45         | -0.024952       | ±2.5        | PASS    |
| Band1<br>3  | 5MHz      | QPSK       | 23205   | 25RB#0           | NV            | 40               | -29.73         | -0.038140       | ±2.5        | PASS    |
| Band1<br>3  | 5MHz      | QPSK       | 23205   | 25RB#0           | NV            | 50               | -40.30         | -0.051700       | ±2.5        | PASS    |
| Band1<br>3  | 5MHz      | QPSK       | 23230   | 25RB#0           | NV            | -30              | -24.22         | -0.030972       | ±2.5        | PASS    |
| Band1       | 5MHz      | QPSK       | 23230   | 25RB#0           | NV            | -20              | -32.46         | -0.041509       | ±2.5        | PASS    |



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|------------|------|-------|-------|--------|----|-----|--------|-----------|------|------|
| 3          |      |       |       |        |    |     |        |           |      |      |
| Band1<br>3 | 5MHz | QPSK  | 23230 | 25RB#0 | NV | 0   | -36.55 | -0.046739 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23230 | 25RB#0 | NV | 10  | -41.71 | -0.053338 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23230 | 25RB#0 | NV | 20  | -48.64 | -0.062199 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23230 | 25RB#0 | NV | 30  | -2.25  | -0.002877 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23230 | 25RB#0 | NV | 40  | -5.64  | -0.007212 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23230 | 25RB#0 | NV | 50  | -8.96  | -0.011458 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23255 | 25RB#0 | NV | -30 | -15.06 | -0.019197 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23255 | 25RB#0 | NV | -20 | -20.54 | -0.026182 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23255 | 25RB#0 | NV | 0   | -29.31 | -0.037361 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23255 | 25RB#0 | NV | 10  | -35.86 | -0.045711 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23255 | 25RB#0 | NV | 20  | -37.02 | -0.047189 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23255 | 25RB#0 | NV | 30  | -38.02 | -0.048464 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23255 | 25RB#0 | NV | 40  | -46.38 | -0.059120 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | QPSK  | 23255 | 25RB#0 | NV | 50  | -51.77 | -0.065991 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23205 | 25RB#0 | NV | -30 | 3.53   | 0.004529  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23205 | 25RB#0 | NV | -20 | 1.69   | 0.002168  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23205 | 25RB#0 | NV | 0   | -2.52  | -0.003233 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23205 | 25RB#0 | NV | 10  | -3.58  | -0.004593 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23205 | 25RB#0 | NV | 20  | -3.39  | -0.004349 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23205 | 25RB#0 | NV | 30  | -8.48  | -0.010879 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23205 | 25RB#0 | NV | 40  | -11.84 | -0.015189 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23205 | 25RB#0 | NV | 50  | -16.92 | -0.021706 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23230 | 25RB#0 | NV | -30 | 3.05   | 0.003900  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23230 | 25RB#0 | NV | -20 | 8.94   | 0.011432  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23230 | 25RB#0 | NV | 0   | 16.94  | 0.021662  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23230 | 25RB#0 | NV | 10  | 21.89  | 0.027992  | ±2.5 | PASS |



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|------------|------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band1<br>3 | 5MHz | 16QAM | 23230 | 25RB#0 | NV | 20  | 27.28 | 0.034885  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23230 | 25RB#0 | NV | 30  | 28.47 | 0.036407  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23230 | 25RB#0 | NV | 40  | 34.33 | 0.043900  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23230 | 25RB#0 | NV | 50  | 37.51 | 0.047967  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23255 | 25RB#0 | NV | -30 | 19.08 | 0.024321  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23255 | 25RB#0 | NV | -20 | 23.92 | 0.030491  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23255 | 25RB#0 | NV | 0   | 30.28 | 0.038598  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23255 | 25RB#0 | NV | 10  | 33.50 | 0.042702  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23255 | 25RB#0 | NV | 20  | 35.31 | 0.045010  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23255 | 25RB#0 | NV | 30  | 40.81 | 0.052020  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23255 | 25RB#0 | NV | 40  | 46.69 | 0.059516  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 16QAM | 23255 | 25RB#0 | NV | 50  | 50.30 | 0.064117  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23205 | 25RB#0 | NV | -30 | -2.57 | -0.003297 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23205 | 25RB#0 | NV | -20 | 10.56 | 0.013547  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23205 | 25RB#0 | NV | 0   | 15.95 | 0.020462  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23205 | 25RB#0 | NV | 10  | 20.71 | 0.026568  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23205 | 25RB#0 | NV | 20  | 23.25 | 0.029827  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23205 | 25RB#0 | NV | 30  | 25.65 | 0.032906  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23205 | 25RB#0 | NV | 40  | 27.75 | 0.035600  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23205 | 25RB#0 | NV | 50  | 28.82 | 0.036972  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23230 | 25RB#0 | NV | -30 | 29.08 | 0.037187  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23230 | 25RB#0 | NV | -20 | 37.35 | 0.047762  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23230 | 25RB#0 | NV | 0   | 49.65 | 0.063491  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23230 | 25RB#0 | NV | 10  | -3.65 | -0.004668 | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23230 | 25RB#0 | NV | 20  | 9.04  | 0.011560  | ±2.5 | PASS |
| Band1<br>3 | 5MHz | 64QAM | 23230 | 25RB#0 | NV | 30  | 16.95 | 0.021675  | ±2.5 | PASS |
| Band1      | 5MHz | 64QAM | 23230 | 25RB#0 | NV | 40  | 25.08 | 0.032072  | ±2.5 | PASS |



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| 3          |       |       |       |        |    |     |        |           |      |      |
| Band1<br>3 | 5MHz  | 64QAM | 23230 | 25RB#0 | NV | 50  | 35.20  | 0.045013  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23255 | 25RB#0 | NV | -30 | 40.13  | 0.051154  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23255 | 25RB#0 | NV | -20 | 50.88  | 0.064857  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23255 | 25RB#0 | NV | 0   | 4.71   | 0.006004  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23255 | 25RB#0 | NV | 10  | 15.23  | 0.019414  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23255 | 25RB#0 | NV | 20  | 21.72  | 0.027686  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23255 | 25RB#0 | NV | 30  | 28.60  | 0.036456  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23255 | 25RB#0 | NV | 40  | 36.18  | 0.046119  | ±2.5 | PASS |
| Band1<br>3 | 5MHz  | 64QAM | 23255 | 25RB#0 | NV | 50  | 44.86  | 0.057183  | ±2.5 | PASS |
| Band1<br>3 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | -30 | -27.52 | -0.035192 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | -20 | -41.10 | -0.052558 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 0   | -3.88  | -0.004962 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 10  | -16.09 | -0.020575 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 20  | -25.55 | -0.032673 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 30  | -38.32 | -0.049003 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 40  | -49.92 | -0.063836 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 50  | -10.33 | -0.013210 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | -30 | -26.01 | -0.033261 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | -20 | -28.32 | -0.036215 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 0   | -30.31 | -0.038760 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 10  | -34.25 | -0.043798 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 20  | -37.35 | -0.047762 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 30  | -39.65 | -0.050703 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 40  | -45.45 | -0.058120 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 50  | -50.97 | -0.065179 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | -30 | -3.96  | -0.005064 | ±2.5 | PASS |



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|------------|-------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band1<br>3 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | -20 | 2.40  | 0.003069  | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 0   | 2.06  | 0.002634  | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 10  | -3.12 | -0.003990 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 20  | 3.40  | 0.004348  | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 30  | -1.54 | -0.001969 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 40  | -7.45 | -0.009527 | ±2.5 | PASS |
| Band1<br>3 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 50  | -6.28 | -0.008031 | ±2.5 | PASS |

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