



6: Frequency Stability

Test Result

| Voltage        |           |            |         |              |               |                  |                |                 |             |         |
|----------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band           | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 40(2305-2315 ) | 5MHz      | QPSK       | 38750   | 25RB#0       | VN            | NT               | -67.75         | -0.029329       | ±2.5        | PASS    |
| 40(2305-2315 ) | 5MHz      | QPSK       | 38750   | 25RB#0       | VL            | NT               | -31.99         | -0.013848       | ±2.5        | PASS    |
| 40(2305-2315 ) | 5MHz      | QPSK       | 38750   | 25RB#0       | VH            | NT               | -39.35         | -0.017035       | ±2.5        | PASS    |
| 40(2305-2315 ) | 5MHz      | 16QAM      | 38750   | 25RB#0       | VN            | NT               | -35.71         | -0.015459       | ±2.5        | PASS    |
| 40(2305-2315 ) | 5MHz      | 16QAM      | 38750   | 25RB#0       | VL            | NT               | -18.14         | -0.007853       | ±2.5        | PASS    |
| 40(2305-2315 ) | 5MHz      | 16QAM      | 38750   | 25RB#0       | VH            | NT               | -23.57         | -0.010203       | ±2.5        | PASS    |
| 40(2305-2315 ) | 10MHz     | QPSK       | 38750   | 50RB#0       | VN            | NT               | -20.80         | -0.009004       | ±2.5        | PASS    |
| 40(2305-2315 ) | 10MHz     | QPSK       | 38750   | 50RB#0       | VL            | NT               | -19.14         | -0.008286       | ±2.5        | PASS    |
| 40(2305-2315 ) | 10MHz     | QPSK       | 38750   | 50RB#0       | VH            | NT               | -23.50         | -0.010173       | ±2.5        | PASS    |
| 40(2305-2315 ) | 10MHz     | 16QAM      | 38750   | 50RB#0       | VN            | NT               | -15.89         | -0.006879       | ±2.5        | PASS    |
| 40(2305-2315 ) | 10MHz     | 16QAM      | 38750   | 50RB#0       | VL            | NT               | 5.82           | 0.002519        | ±2.5        | PASS    |
| 40(2305-2315 ) | 10MHz     | 16QAM      | 38750   | 50RB#0       | VH            | NT               | -6.29          | -0.002723       | ±2.5        | PASS    |
| 40(2350-2360 ) | 5MHz      | QPSK       | 39200   | 25RB#0       | VN            | NT               | -45.52         | -0.019329       | ±2.5        | PASS    |
| 40(2350-2360 ) | 5MHz      | QPSK       | 39200   | 25RB#0       | VL            | NT               | -68.58         | -0.029121       | ±2.5        | PASS    |
| 40(2350-2360 ) | 5MHz      | QPSK       | 39200   | 25RB#0       | VH            | NT               | -24.19         | -0.010272       | ±2.5        | PASS    |
| 40(2350-2360 ) | 5MHz      | 16QAM      | 39200   | 25RB#0       | VN            | NT               | -56.89         | -0.024157       | ±2.5        | PASS    |
| 40(2350-2360 ) | 5MHz      | 16QAM      | 39200   | 25RB#0       | VL            | NT               | -17.88         | -0.007592       | ±2.5        | PASS    |
| 40(2350-2360 ) | 5MHz      | 16QAM      | 39200   | 25RB#0       | VH            | NT               | -29.81         | -0.012658       | ±2.5        | PASS    |
| 40(2350-2360 ) | 10MHz     | QPSK       | 39200   | 50RB#0       | VN            | NT               | 15.12          | 0.006420        | ±2.5        | PASS    |





|                   |       |       |       |        |    |    |       |           |      |      |
|-------------------|-------|-------|-------|--------|----|----|-------|-----------|------|------|
| 40(2350-2360<br>) | 10MHz | QPSK  | 39200 | 50RB#0 | VL | NT | 26.98 | 0.011456  | ±2.5 | PASS |
| 40(2350-2360<br>) | 10MHz | QPSK  | 39200 | 50RB#0 | VH | NT | 35.26 | 0.014972  | ±2.5 | PASS |
| 40(2350-2360<br>) | 10MHz | 16QAM | 39200 | 50RB#0 | VN | NT | -6.04 | -0.002565 | ±2.5 | PASS |
| 40(2350-2360<br>) | 10MHz | 16QAM | 39200 | 50RB#0 | VL | NT | 44.73 | 0.018994  | ±2.5 | PASS |
| 40(2350-2360<br>) | 10MHz | 16QAM | 39200 | 50RB#0 | VH | NT | 42.29 | 0.017958  | ±2.5 | PASS |



| Temperature   |           |            |         |              |               |                  |                |                 |             |         |
|---------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band          | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0       | NV            | 0                | -32.99         | -0.014281       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0       | NV            | 10               | -36.16         | -0.015654       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0       | NV            | 20               | -30.13         | -0.013043       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0       | NV            | 30               | -35.69         | -0.015450       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0       | NV            | 0                | -24.33         | -0.010532       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0       | NV            | 10               | -23.20         | -0.010043       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0       | NV            | 20               | -24.30         | -0.010519       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0       | NV            | 30               | -24.46         | -0.010589       | ±2.5        | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 50RB#0       | NV            | 0                | -19.90         | -0.008615       | ±2.5        | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 50RB#0       | NV            | 10               | -23.72         | -0.010268       | ±2.5        | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 50RB#0       | NV            | 20               | -19.68         | -0.008519       | ±2.5        | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 50RB#0       | NV            | 30               | -14.83         | -0.006420       | ±2.5        | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 50RB#0       | NV            | 0                | -3.19          | -0.001381       | ±2.5        | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 50RB#0       | NV            | 10               | -8.85          | -0.003831       | ±2.5        | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 50RB#0       | NV            | 20               | -7.25          | -0.003139       | ±2.5        | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 50RB#0       | NV            | 30               | -6.31          | -0.002732       | ±2.5        | PASS    |
| 40(2350-2360) | 5MHz      | QPSK       | 39200   | 25RB#0       | NV            | 0                | -22.03         | -0.009355       | ±2.5        | PASS    |
| 40(2350-2360) | 5MHz      | QPSK       | 39200   | 25RB#0       | NV            | 10               | -36.15         | -0.015350       | ±2.5        | PASS    |
| 40(2350-2360) | 5MHz      | QPSK       | 39200   | 25RB#0       | NV            | 20               | -23.52         | -0.009987       | ±2.5        | PASS    |
| 40(2350-2360) | 5MHz      | QPSK       | 39200   | 25RB#0       | NV            | 30               | -58.98         | -0.025045       | ±2.5        | PASS    |
| 40(2350-2360) | 5MHz      | 16QAM      | 39200   | 25RB#0       | NV            | 0                | -47.79         | -0.020293       | ±2.5        | PASS    |
| 40(2350-2360) | 5MHz      | 16QAM      | 39200   | 25RB#0       | NV            | 10               | -12.97         | -0.005507       | ±2.5        | PASS    |
| 40(2350-2360) | 5MHz      | 16QAM      | 39200   | 25RB#0       | NV            | 20               | -24.45         | -0.010382       | ±2.5        | PASS    |
| 40(2350-2360) | 5MHz      | 16QAM      | 39200   | 25RB#0       | NV            | 30               | -37.57         | -0.015953       | ±2.5        | PASS    |
| 40(2350-2360) | 10MHz     | QPSK       | 39200   | 50RB#0       | NV            | 0                | 41.26          | 0.017520        | ±2.5        | PASS    |
| 40(2350-2360) | 10MHz     | QPSK       | 39200   | 50RB#0       | NV            | 10               | 44.86          | 0.019049        | ±2.5        | PASS    |
| 40(2350-2360) | 10MHz     | QPSK       | 39200   | 50RB#0       | NV            | 20               | 44.92          | 0.019074        | ±2.5        | PASS    |
| 40(2350-2360) | 10MHz     | QPSK       | 39200   | 50RB#0       | NV            | 30               | -7.51          | -0.003189       | ±2.5        | PASS    |
| 40(2350-2360) | 10MHz     | 16QAM      | 39200   | 50RB#0       | NV            | 0                | 18.45          | 0.007834        | ±2.5        | PASS    |
| 40(2350-2360) | 10MHz     | 16QAM      | 39200   | 50RB#0       | NV            | 10               | 44.19          | 0.018764        | ±2.5        | PASS    |
| 40(2350-2360) | 10MHz     | 16QAM      | 39200   | 50RB#0       | NV            | 20               | 27.11          | 0.011512        | ±2.5        | PASS    |
| 40(2350-2360) | 10MHz     | 16QAM      | 39200   | 50RB#0       | NV            | 30               | 37.05          | 0.015732        | ±2.5        | PASS    |

-----END OF THE REPORT-----