























































































Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

| | | | Channel Ban | dwidth: 5 MHz | | | |
|------------|---------|------------------|---------------------|-------------------|--------------------|----------------|---------|
| | | | | tage | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VL | TN | -1.5 | -0.000598 | ± 2.5 | PASS |
| | LCH | VN | TN | 4.67 | 0.001861 | ± 2.5 | PASS |
| | | VH | TN | -1.28 | -0.000510 | ± 2.5 | PASS |
| | | VL | TN | -1.55 | -0.000611 | ± 2.5 | PASS |
| QPSK | MCH | VN | TN | -1.49 | -0.000588 | ± 2.5 | PASS |
| | | VH | TN | 2.99 | 0.001179 | ± 2.5 | PASS |
| | | VL | TN | -0.31 | -0.000121 | ± 2.5 | PASS |
| | HCH | VN | TN | 3.94 | 0.001539 | ± 2.5 | PASS |
| | | VH | TN | 3 | 0.001172 | ± 2.5 | PASS |
| | | VL | TN | 3.35 | 0.001335 | ± 2.5 | PASS |
| | LCH | VN | TN | 2.75 | 0.001096 | ± 2.5 | PASS |
| | | VH | TN | 2.94 | 0.001171 | ± 2.5 | PASS |
| | | VL | TN | -0.98 | -0.000387 | ± 2.5 | PASS |
| 16QAM | MCH | VN | TN | 1.98 | 0.000781 | ± 2.5 | PASS |
| | | VH | TN | 2.12 | 0.000836 | ± 2.5 | PASS |
| | НСН | VL | TN | 4.14 | 0.001617 | ± 2.5 | PASS |
| | | VN | TN | 4.83 | 0.001887 | ± 2.5 | PASS |
| | | VH | TN | 1.8 | 0.000703 | ± 2.5 | PASS |
| | | | Tempe | erature | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VN | -30 | -0.46 | -0.000183 | ± 2.5 | PASS |
| | | VN | -20 | 0.65 | 0.000259 | ± 2.5 | PASS |
| | | VN | -10 | -0.55 | -0.000219 | ± 2.5 | PASS |
| | | VN | 0 | 1.67 | 0.000665 | ± 2.5 | PASS |
| | LCH | VN | 10 | 0.94 | 0.000375 | ± 2.5 | PASS |
| QPSK | | VN | 20 | -0.53 | -0.000211 | ± 2.5 | PASS |
| | | VN | 30 | 0.32 | 0.000127 | ± 2.5 | PASS |
| | | VN | 40 | 2.9 | 0.001155 | ± 2.5 | PASS |
| | | VN | 50 | -1.6 | -0.000637 | ± 2.5 | PASS |
| | MOLL | VN | -30 | 0.73 | 0.000288 | ± 2.5 | PASS |
| | MCH | VN | -20 | 4.93 | 0.001945 | ± 2.5 | PASS |

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| VN | | 1 | ı | | | T | | |
|---|-------|-----|----|-----|-------|-----------|-------|------|
| VN | | | | -10 | 4.87 | 0.001921 | ± 2.5 | |
| VN 20 | | | VN | 0 | 0.46 | 0.000181 | ± 2.5 | PASS |
| VN | | | VN | 10 | -0.91 | -0.000359 | ± 2.5 | PASS |
| VN | | | VN | 20 | 0.18 | 0.000071 | ± 2.5 | PASS |
| VN 50 2.86 0.001128 ±2.5 PASS | | | VN | 30 | -0.97 | -0.000383 | ± 2.5 | PASS |
| No. No. | | | VN | 40 | 2.05 | 0.000809 | ± 2.5 | PASS |
| HCH | | | VN | 50 | 2.86 | 0.001128 | ± 2.5 | PASS |
| HCH | | | VN | -30 | -0.88 | -0.000344 | ± 2.5 | PASS |
| HCH HCH | | | VN | -20 | 0.24 | 0.000094 | ± 2.5 | PASS |
| HCH | | | VN | -10 | 2.44 | 0.000953 | ± 2.5 | PASS |
| VN 20 0.99 0.000387 ±2.5 PASS | | | VN | 0 | 2.18 | 0.000852 | ± 2.5 | PASS |
| VN 30 | | HCH | VN | 10 | 3.45 | 0.001348 | ± 2.5 | PASS |
| VN | | | VN | 20 | 0.99 | 0.000387 | ± 2.5 | PASS |
| VN 50 | | | VN | 30 | 4.06 | 0.001586 | ± 2.5 | PASS |
| VN | | | VN | 40 | -0.84 | -0.000328 | ± 2.5 | PASS |
| VN | | | VN | 50 | -1.76 | -0.000688 | ± 2.5 | PASS |
| LCH | | | VN | -30 | 0.76 | 0.000303 | ± 2.5 | PASS |
| LCH | | | VN | -20 | 0.54 | 0.000215 | ± 2.5 | PASS |
| LCH | | | VN | -10 | 1.21 | 0.000482 | ± 2.5 | PASS |
| VN 20 | | | VN | 0 | 0.57 | 0.000227 | ± 2.5 | PASS |
| VN 30 | | LCH | VN | 10 | 0.61 | 0.000243 | ± 2.5 | PASS |
| VN | | | VN | 20 | -1.57 | -0.000625 | ± 2.5 | PASS |
| VN 50 | | | VN | 30 | -1.89 | -0.000753 | ± 2.5 | PASS |
| VN | | | VN | 40 | -1.36 | -0.000542 | ± 2.5 | PASS |
| No | | | VN | 50 | -1.95 | -0.000777 | ± 2.5 | PASS |
| NCH | | | VN | -30 | 4.97 | 0.001961 | ± 2.5 | PASS |
| MCH | | | VN | -20 | 2.96 | 0.001168 | ± 2.5 | PASS |
| MCH | | | VN | -10 | 3.43 | 0.001353 | ± 2.5 | PASS |
| VN 20 -0.5 -0.000197 ±2.5 PASS VN 30 4.87 0.001921 ±2.5 PASS VN 40 1.05 0.000414 ±2.5 PASS VN 50 4.46 0.001759 ±2.5 PASS VN -30 -0.32 -0.000125 ±2.5 PASS VN -20 4.68 0.001828 ±2.5 PASS VN -10 0.66 0.000258 ±2.5 PASS VN 0 2.94 0.001148 ±2.5 PASS VN 10 0.67 0.000262 ±2.5 PASS VN 20 4.06 0.001586 ±2.5 PASS | 16QAM | | VN | 0 | 2.43 | 0.000959 | ± 2.5 | PASS |
| VN 30 4.87 0.001921 ± 2.5 PASS VN 40 1.05 0.000414 ± 2.5 PASS VN 50 4.46 0.001759 ± 2.5 PASS VN -30 -0.32 -0.000125 ± 2.5 PASS VN -20 4.68 0.001828 ± 2.5 PASS VN -10 0.66 0.000258 ± 2.5 PASS VN 0 2.94 0.001148 ± 2.5 PASS VN 10 0.67 0.000262 ± 2.5 PASS VN 20 4.06 0.001586 ± 2.5 PASS | | MCH | VN | 10 | 3.66 | 0.001444 | ± 2.5 | PASS |
| VN 40 1.05 0.000414 ± 2.5 PASS VN 50 4.46 0.001759 ± 2.5 PASS VN -30 -0.32 -0.000125 ± 2.5 PASS VN -20 4.68 0.001828 ± 2.5 PASS VN -10 0.66 0.000258 ± 2.5 PASS VN 10 0.67 0.000262 ± 2.5 PASS VN 20 4.06 0.001586 ± 2.5 PASS | | | VN | 20 | -0.5 | -0.000197 | ± 2.5 | PASS |
| VN 50 4.46 0.001759 ± 2.5 PASS VN -30 -0.32 -0.000125 ± 2.5 PASS VN -20 4.68 0.001828 ± 2.5 PASS VN -10 0.66 0.000258 ± 2.5 PASS VN 0 2.94 0.001148 ± 2.5 PASS VN 10 0.67 0.000262 ± 2.5 PASS VN 20 4.06 0.001586 ± 2.5 PASS | | | VN | 30 | 4.87 | 0.001921 | ± 2.5 | PASS |
| VN -30 -0.32 -0.000125 ± 2.5 PASS VN -20 4.68 0.001828 ± 2.5 PASS VN -10 0.66 0.000258 ± 2.5 PASS VN 0 2.94 0.001148 ± 2.5 PASS VN 10 0.67 0.000262 ± 2.5 PASS VN 20 4.06 0.001586 ± 2.5 PASS | | | VN | 40 | 1.05 | 0.000414 | ± 2.5 | PASS |
| VN -20 4.68 0.001828 ± 2.5 PASS VN -10 0.66 0.000258 ± 2.5 PASS HCH VN 0 2.94 0.001148 ± 2.5 PASS VN 10 0.67 0.000262 ± 2.5 PASS VN 20 4.06 0.001586 ± 2.5 PASS | | | VN | 50 | 4.46 | 0.001759 | ± 2.5 | PASS |
| VN -10 0.66 0.000258 ± 2.5 PASS HCH VN 0 2.94 0.001148 ± 2.5 PASS VN 10 0.67 0.000262 ± 2.5 PASS VN 20 4.06 0.001586 ± 2.5 PASS | | | VN | -30 | -0.32 | -0.000125 | ± 2.5 | PASS |
| HCH VN 0 2.94 0.001148 ± 2.5 PASS VN 10 0.67 0.000262 ± 2.5 PASS VN 20 4.06 0.001586 ± 2.5 PASS | | | VN | -20 | 4.68 | 0.001828 | ± 2.5 | PASS |
| VN 10 0.67 0.000262 ± 2.5 PASS VN 20 4.06 0.001586 ± 2.5 PASS | | | VN | -10 | 0.66 | 0.000258 | ± 2.5 | PASS |
| VN 20 4.06 0.001586 ± 2.5 PASS | | НСН | VN | 0 | 2.94 | 0.001148 | ± 2.5 | PASS |
| | | | VN | 10 | 0.67 | 0.000262 | ± 2.5 | PASS |
| VN 30 -1.76 -0.000688 + 2.5 DASS | | | VN | 20 | 4.06 | 0.001586 | ± 2.5 | PASS |
| VIV 50 -1.70 -0.000000 ±2.5 FASS | | | VN | 30 | -1.76 | -0.000688 | ± 2.5 | PASS |



| | VN | 40 | 1.47 | 0.000574 | ± 2.5 | PASS |
|--|----|----|-------|-----------|-------|------|
| | VN | 50 | -0.35 | -0.000137 | ± 2.5 | PASS |

Channel Bandwidth: 10 MHz

| | | | Channel Band | lwidth: 10 MHz | | | |
|------------|---------|------------------|-------------------------------|-------------------|--------------------|----------------|---------|
| | | | | age | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VL | TN | -0.21 | -0.000084 | ± 2.5 | PASS |
| | LCH | VN | TN | 4.56 | 0.001817 | ± 2.5 | PASS |
| | | VH | TN | -1.94 | -0.000773 | ± 2.5 | PASS |
| | | VL | TN | -0.94 | -0.000371 | ± 2.5 | PASS |
| QPSK | MCH | VN | TN | -1.14 | -0.000450 | ± 2.5 | PASS |
| | | VH | TN | -0.84 | -0.000331 | ± 2.5 | PASS |
| | | VL | TN | 1.4 | 0.000547 | ± 2.5 | PASS |
| | HCH | VN | TN | 0.08 | 0.000031 | ± 2.5 | PASS |
| | | VH | TN | -1.48 | -0.000578 | ± 2.5 | PASS |
| | | VL | TN | 4.23 | 0.001685 | ± 2.5 | PASS |
| | LCH | VN | TN | 4.95 | 0.001972 | ± 2.5 | PASS |
| | | VH | TN | 2.17 | 0.000865 | ± 2.5 | PASS |
| | | VL | TN | -0.74 | -0.000292 | ± 2.5 | PASS |
| 16QAM | MCH | VN | TN | 2.35 | 0.000927 | ± 2.5 | PASS |
| | | VH | TN | -0.51 | -0.000201 | ± 2.5 | PASS |
| | | VL | TN | -0.17 | -0.000066 | ± 2.5 | PASS |
| | HCH | VN | TN | -1.55 | -0.000605 | ± 2.5 | PASS |
| | | VH | TN | -1.4 | -0.000547 | ± 2.5 | PASS |
| | | | Tempe | erature | | • | |
| Modulation | Channel | Voltage [Vdc] | Temperature $(^{\mathbb{C}})$ | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VN | -30 | 4.6 | 0.001833 | ± 2.5 | PASS |
| | | VN | -20 | 2.14 | 0.000853 | ± 2.5 | PASS |
| | | VN | -10 | 0.15 | 0.000060 | ± 2.5 | PASS |
| | | VN | 0 | 1.35 | 0.000538 | ± 2.5 | PASS |
| | LCH | VN | 10 | -0.95 | -0.000378 | ± 2.5 | PASS |
| 16QAM | | VN | 20 | 0.86 | 0.000343 | ± 2.5 | PASS |
| IUQAW | | VN | 30 | -1.08 | -0.000430 | ± 2.5 | PASS |
| | | VN | 40 | 4.07 | 0.001622 | ± 2.5 | PASS |
| | | VN | 50 | 1.52 | 0.000606 | ± 2.5 | PASS |
| | | VN | -30 | 3.84 | 0.001515 | ± 2.5 | PASS |
| | MCH | VN | -20 | 2.22 | 0.000876 | ± 2.5 | PASS |
| | | VN | -10 | 3.25 | 0.001282 | ± 2.5 | PASS |



| | | VN | 0 | 2.85 | 0.001124 | ± 2.5 | PASS |
|--------|-------|----|-----|-------|-----------|-------|------|
| | | VN | 10 | -1.9 | -0.000750 | ± 2.5 | PASS |
| | | VN | 20 | 2.3 | 0.000907 | ± 2.5 | PASS |
| | | VN | 30 | 1.15 | 0.000454 | ± 2.5 | PASS |
| | | VN | 40 | -0.94 | -0.000371 | ± 2.5 | PASS |
| | | VN | 50 | -0.5 | -0.000197 | ± 2.5 | PASS |
| | | VN | -30 | 3.37 | 0.001316 | ± 2.5 | PASS |
| | | VN | -20 | -0.93 | -0.000363 | ± 2.5 | PASS |
| | | VN | -10 | 4.23 | 0.001652 | ± 2.5 | PASS |
| | | VN | 0 | 2.77 | 0.001082 | ± 2.5 | PASS |
| | нсн | VN | 10 | 2.91 | 0.001137 | ± 2.5 | PASS |
| | | VN | 20 | 0.2 | 0.000078 | ± 2.5 | PASS |
| | | VN | 30 | 4.83 | 0.001887 | ± 2.5 | PASS |
| | | VN | 40 | 1.84 | 0.000719 | ± 2.5 | PASS |
| | | VN | 50 | 4.4 | 0.001719 | ± 2.5 | PASS |
| | | VN | -30 | 3.98 | 0.001586 | ± 2.5 | PASS |
| | | VN | -20 | -1.72 | -0.000685 | ± 2.5 | PASS |
| | | VN | -10 | -0.5 | -0.000199 | ± 2.5 | PASS |
| | | VN | 0 | 1.21 | 0.000482 | ± 2.5 | PASS |
| | LCH | VN | 10 | 2.47 | 0.000984 | ± 2.5 | PASS |
| | | VN | 20 | -1.84 | -0.000733 | ± 2.5 | PASS |
| | | VN | 30 | 4.98 | 0.001984 | ± 2.5 | PASS |
| | | VN | 40 | 0.41 | 0.000163 | ± 2.5 | PASS |
| | | VN | 50 | 4.5 | 0.001793 | ± 2.5 | PASS |
| | | VN | -30 | 0.42 | 0.000166 | ± 2.5 | PASS |
| | | VN | -20 | 1.65 | 0.000651 | ± 2.5 | PASS |
| | | VN | -10 | -0.8 | -0.000316 | ± 2.5 | PASS |
| QPSK | | VN | 0 | -1.06 | -0.000418 | ± 2.5 | PASS |
| QI OIL | MCH | VN | 10 | 0.52 | 0.000205 | ± 2.5 | PASS |
| | | VN | 20 | 3.61 | 0.001424 | ± 2.5 | PASS |
| | | VN | 30 | -1.06 | -0.000418 | ± 2.5 | PASS |
| | | VN | 40 | 0.93 | 0.000367 | ± 2.5 | PASS |
| | | VN | 50 | 3.6 | 0.001420 | ± 2.5 | PASS |
| | | VN | -30 | 1.46 | 0.000570 | ± 2.5 | PASS |
| | | VN | -20 | -0.7 | -0.000273 | ± 2.5 | PASS |
| | | VN | -10 | 2.86 | 0.001117 | ± 2.5 | PASS |
| | нсн | VN | 0 | -0.96 | -0.000375 | ± 2.5 | PASS |
| | 11011 | VN | 10 | 4.87 | 0.001902 | ± 2.5 | PASS |
| | | VN | 20 | -0.86 | -0.000336 | ± 2.5 | PASS |
| | | VN | 30 | 1.78 | 0.000695 | ± 2.5 | PASS |
| | | VN | 40 | 2.85 | 0.001113 | ± 2.5 | PASS |



| | ı | | | | | | |
|---|---|----|----|------|----------|-------|------|
| | | VN | 50 | 0.45 | 0.000176 | ± 2.5 | PASS |
| I | | * | | 0.40 | 0.000170 | | 00 |

Channel Bandwidth: 15 MHz

| | Channel Bandwidth: 15 MHz | | | | | | | | | |
|------------|---------------------------|------------------|--------------------------------------|-------------------|--------------------|----------------|---------|--|--|--|
| | | | | age | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°ℂ) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict | | | |
| | | VL | TN | 0.9 | 0.000359 | ± 2.5 | PASS | | | |
| | LCH | VN | TN | 4.02 | 0.001602 | ± 2.5 | PASS | | | |
| | | VH | TN | 0.13 | 0.000052 | ± 2.5 | PASS | | | |
| | | VL | TN | 1.86 | 0.000734 | ± 2.5 | PASS | | | |
| QPSK | MCH | VN | TN | -1.88 | -0.000742 | ± 2.5 | PASS | | | |
| | | VH | TN | 3.91 | 0.001542 | ± 2.5 | PASS | | | |
| | | VL | TN | -1.26 | -0.000492 | ± 2.5 | PASS | | | |
| | HCH | VN | TN | 3.42 | 0.001336 | ± 2.5 | PASS | | | |
| | | VH | TN | -0.54 | -0.000211 | ± 2.5 | PASS | | | |
| | | VL | TN | 4.53 | 0.001805 | ± 2.5 | PASS | | | |
| | LCH | VN | TN | -1.48 | -0.000590 | ± 2.5 | PASS | | | |
| | | VH | TN | 0.91 | 0.000363 | ± 2.5 | PASS | | | |
| | MCH | VL | TN | 4 | 0.001578 | ± 2.5 | PASS | | | |
| 16QAM | | VN | TN | 0.61 | 0.000241 | ± 2.5 | PASS | | | |
| | | VH | TN | 4.86 | 0.001917 | ± 2.5 | PASS | | | |
| | | VL | TN | 1.04 | 0.000406 | ± 2.5 | PASS | | | |
| | HCH | VN | TN | -0.03 | -0.000012 | ± 2.5 | PASS | | | |
| | | VH | TN | -0.65 | -0.000254 | ± 2.5 | PASS | | | |
| | • | | Tempe | erature | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature $(^{\circ}\!\mathbb{C})$ | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict | | | |
| | | VN | -30 | 2.66 | 0.001060 | ± 2.5 | PASS | | | |
| | | VN | -20 | -1.53 | -0.000610 | ± 2.5 | PASS | | | |
| | | VN | -10 | -1.51 | -0.000602 | ± 2.5 | PASS | | | |
| | | VN | 0 | 3.86 | 0.001538 | ± 2.5 | PASS | | | |
| | LCH | VN | 10 | 1.73 | 0.000689 | ± 2.5 | PASS | | | |
| | | VN | 20 | 4.08 | 0.001625 | ± 2.5 | PASS | | | |
| QPSK | | VN | 30 | 0.62 | 0.000247 | ± 2.5 | PASS | | | |
| | | VN | 40 | -1.56 | -0.000622 | ± 2.5 | PASS | | | |
| | | VN | 50 | -1.13 | -0.000450 | ± 2.5 | PASS | | | |
| | | VN | -30 | 0.7 | 0.000276 | ± 2.5 | PASS | | | |
| | MCH | VN | -20 | 0 | 0.000000 | ± 2.5 | PASS | | | |
| | IVIOII | VN | -10 | 2.42 | 0.000955 | ± 2.5 | PASS | | | |
| | | VN | 0 | 3.66 | 0.001444 | ± 2.5 | PASS | | | |



| | | VN | 10 | 0.6 | 0.000237 | ± 2.5 | PASS |
|------|-----|----|-----|-------|-----------|-------------------------|------|
| | | VN | 20 | -1.95 | -0.000769 | ± 2.5 | PASS |
| | | VN | 30 | 2.64 | 0.001041 | ± 2.5 | PASS |
| | | VN | 40 | 0.02 | 0.000008 | ± 2.5 | PASS |
| | | VN | 50 | 3.44 | 0.001357 | ± 2.5 | PASS |
| | | VN | -30 | 0.42 | 0.000164 | ± 2.5 | PASS |
| | | VN | -20 | -0.64 | -0.000250 | ± 2.5 | PASS |
| | | VN | -10 | -1.15 | -0.000449 | ± 2.5 | PASS |
| | | VN | 0 | 2.25 | 0.000879 | ± 2.5 | PASS |
| | HCH | VN | 10 | 2.43 | 0.000949 | ± 2.5 | PASS |
| | | VN | 20 | 1.79 | 0.000699 | ± 2.5 | PASS |
| | | VN | 30 | -1.66 | -0.000648 | ± 2.5 | PASS |
| | | VN | 40 | -1.88 | -0.000734 | ± 2.5 | PASS |
| | | VN | 50 | -0.79 | -0.000309 | ± 2.5 | PASS |
| | | VN | -30 | -0.98 | -0.000390 | ± 2.5 | PASS |
| | | VN | -20 | 1.14 | 0.000454 | ± 2.5 | PASS |
| | | VN | -10 | -1.85 | -0.000737 | ± 2.5 ± 2.5 ± 2.5 | PASS |
| | | VN | 0 | -0.04 | -0.000016 | ± 2.5 | PASS |
| | LCH | VN | 10 | -1.38 | -0.000550 | ± 2.5 | PASS |
| | | VN | 20 | 0.74 | 0.000295 | ± 2.5 | PASS |
| | | VN | 30 | -0.44 | -0.000175 | ± 2.5 | PASS |
| | | VN | 40 | 4.8 | 0.001912 | ± 2.5 | PASS |
| | | VN | 50 | 4.6 | 0.001833 | ± 2.5 | PASS |
| | | VN | -30 | 4.36 | 0.001720 | ± 2.5 | PASS |
| | | VN | -20 | -0.59 | -0.000233 | ± 2.5 | PASS |
| | | VN | -10 | 2.08 | 0.000821 | ± 2.5 | PASS |
| | | VN | 0 | -1.22 | -0.000481 | ± 2.5 | PASS |
| QPSK | MCH | VN | 10 | 3.38 | 0.001333 | ± 2.5 | PASS |
| | | VN | 20 | 2.65 | 0.001045 | ± 2.5 | PASS |
| | | VN | 30 | 1.11 | 0.000438 | ± 2.5 | PASS |
| | | VN | 40 | 3.81 | 0.001503 | ± 2.5 | PASS |
| | | VN | 50 | -0.69 | -0.000272 | ± 2.5 | PASS |
| | | VN | -30 | -1.63 | -0.000637 | ± 2.5 | PASS |
| | | VN | -20 | 2.69 | 0.001051 | ± 2.5 | PASS |
| | | VN | -10 | 1.29 | 0.000504 | ± 2.5 | PASS |
| | | VN | 0 | 2.71 | 0.001059 | ± 2.5 | PASS |
| | HCH | VN | 10 | 2.86 | 0.001117 | ± 2.5 | PASS |
| | | VN | 20 | -1.45 | -0.000566 | ± 2.5 | PASS |
| | | VN | 30 | -1.17 | -0.000457 | ± 2.5 | PASS |
| | | VN | 40 | 2.54 | 0.000992 | ± 2.5 | PASS |
| | | VN | 50 | 0.72 | 0.000281 | ± 2.5 | PASS |



Channel Bandwidth: 20 MHz

| | | | Channel Band | width: 20 MHz | | | |
|------------|---------|------------------|---------------------|-------------------|--------------------|----------------|---------|
| | | | | tage | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VL | TN | 0.23 | 0.000092 | ± 2.5 | PASS |
| | LCH | VN | TN | 4.63 | 0.001845 | ± 2.5 | PASS |
| | | VH | TN | 4.33 | 0.001725 | ± 2.5 | PASS |
| | | VL | TN | 4.47 | 0.001763 | ± 2.5 | PASS |
| QPSK | MCH | VN | TN | -1.34 | -0.000529 | ± 2.5 | PASS |
| | | VH | TN | 4.68 | 0.001846 | ± 2.5 | PASS |
| | | VL | TN | -1.61 | -0.000629 | ± 2.5 | PASS |
| | HCH | VN | TN | 1.72 | 0.000672 | ± 2.5 | PASS |
| | | VH | TN | -0.47 | -0.000184 | ± 2.5 | PASS |
| | | VL | TN | -1.24 | -0.000494 | ± 2.5 | PASS |
| | LCH | VN | TN | 4.67 | 0.001861 | ± 2.5 | PASS |
| | | VH | TN | 0.71 | 0.000283 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.42 | 0.001744 | ± 2.5 | PASS |
| 16QAM | | VN | TN | 1.16 | 0.000458 | ± 2.5 | PASS |
| | | VH | TN | 1.86 | 0.000734 | ± 2.5 | PASS |
| | | VL | TN | 2.81 | 0.001098 | ± 2.5 | PASS |
| | НСН | VN | TN | 1.45 | 0.000566 | ± 2.5 | PASS |
| | | VH | TN | 2.4 | 0.000938 | ± 2.5 | PASS |
| | | | Tempe | erature | | 1. | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VN | -30 | 3.37 | 0.001343 | ± 2.5 | PASS |
| | | VN | -20 | 2.79 | 0.001112 | ± 2.5 | PASS |
| | | VN | -10 | 1.28 | 0.000510 | ± 2.5 | PASS |
| | | VN | 0 | -0.54 | -0.000215 | ± 2.5 | PASS |
| | LCH | VN | 10 | 4.29 | 0.001709 | ± 2.5 | PASS |
| | | VN | 20 | 0.28 | 0.000112 | ± 2.5 | PASS |
| | | VN | 30 | 1.03 | 0.000410 | ± 2.5 | PASS |
| QPSK | | VN | 40 | 1.27 | 0.000506 | ± 2.5 | PASS |
| | | VN | 50 | 2.16 | 0.000861 | ± 2.5 | PASS |
| | | VN | -30 | -0.27 | -0.000107 | ± 2.5 | PASS |
| | | VN | -20 | 2.76 | 0.001089 | ± 2.5 | PASS |
| | MOLL | VN | -10 | 1.94 | 0.000765 | ± 2.5 | PASS |
| | MCH | VN | 0 | 0.34 | 0.000134 | ± 2.5 | PASS |
| | | VN | 10 | 2.65 | 0.001045 | ± 2.5 | PASS |
| | | VN | 20 | 2.67 | 0.001053 | ± 2.5 | PASS |
| | | | | | | | |

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| | 1 | ı | ı | 1 | ı | | |
|------|-----|----|-----|-------|-----------|----------------|------|
| | | VN | 30 | 0.94 | 0.000371 | ± 2.5 | PASS |
| | | VN | 40 | 3.97 | 0.001566 | ± 2.5 | PASS |
| | | VN | 50 | 3.28 | 0.001294 | ± 2.5 | PASS |
| | | VN | -30 | -0.62 | -0.000242 | ± 2.5 | PASS |
| | | VN | -20 | 2.73 | 0.001066 | ± 2.5 | PASS |
| | | VN | -10 | 2.21 | 0.000863 | ± 2.5 | PASS |
| | | VN | 0 | 4.97 | 0.001941 | ± 2.5 | PASS |
| | HCH | VN | 10 | 3.64 | 0.001422 | ± 2.5 | PASS |
| | | VN | 20 | 4.78 | 0.001867 | ± 2.5 | PASS |
| | | VN | 30 | 0.02 | 0.000008 | ± 2.5 | PASS |
| | | VN | 40 | 1.12 | 0.000438 | ± 2.5 | PASS |
| | | VN | 50 | 3.66 | 0.001430 | ± 2.5 | PASS |
| | | VN | -30 | -0.49 | -0.000195 | ± 2.5 | PASS |
| | | VN | -20 | -0.99 | -0.000394 | ± 2.5 | PASS |
| | | VN | -10 | 0.23 | 0.000092 | ± 2.5 | PASS |
| | | VN | 0 | 2.66 | 0.001060 | ± 2.5 | PASS |
| | LCH | VN | 10 | 2.52 | 0.001004 | ± 2.5 | PASS |
| | | VN | 20 | 4.62 | 0.001841 | ± 2.5 | PASS |
| | | VN | 30 | 2.74 | 0.001092 | ± 2.5 ± 2.5 | PASS |
| | | VN | 40 | -0.04 | -0.000016 | ± 2.5 | PASS |
| | | VN | 50 | 1.7 | 0.000677 | ± 2.5 | PASS |
| | | VN | -30 | 1.88 | 0.000742 | ± 2.5 | PASS |
| | | VN | -20 | 1.09 | 0.000430 | ± 2.5 | PASS |
| | | VN | -10 | 2.08 | 0.000821 | ± 2.5 | PASS |
| | | VN | 0 | 4.55 | 0.001795 | ± 2.5 | PASS |
| QPSK | MCH | VN | 10 | 0.12 | 0.000047 | ± 2.5 | PASS |
| | | VN | 20 | -0.16 | -0.000063 | ± 2.5 | PASS |
| | | VN | 30 | 2.77 | 0.001093 | ± 2.5 | PASS |
| | | VN | 40 | -1.24 | -0.000489 | ± 2.5 | PASS |
| | | VN | 50 | 1.79 | 0.000706 | ± 2.5 | PASS |
| | | VN | -30 | -1.09 | -0.000426 | ± 2.5 | PASS |
| | | VN | -20 | 2.31 | 0.000902 | ± 2.5 | PASS |
| | | VN | -10 | 1.07 | 0.000418 | ± 2.5 | PASS |
| | | VN | 0 | 2.81 | 0.001098 | ± 2.5 | PASS |
| | нсн | VN | 10 | -1.5 | -0.000586 | ± 2.5 | PASS |
| | | VN | 20 | 1.13 | 0.000441 | ± 2.5 | PASS |
| | | VN | 30 | 1.33 | 0.000520 | ± 2.5 | PASS |
| | | VN | 40 | -0.7 | -0.000273 | ± 2.5 | PASS |
| | | VN | 50 | -0.18 | -0.000070 | ± 2.5 | PASS |
| | · | | | 1 | | | |