

## TEST REPORT

REPORT NO: **SATEL-TR-0044-LH**  
TEST PERIOD: 08. 09. 2003  
TEST SITE: Satel / R&D Dept., Salo

DEVICE UNDER TEST: **SATELLINE-3AS VHF**

TESTS PERFORMED: 

- Frequency Stability for temperature and voltage variations  
#1: at 12.5 kHz channel spacing (page 2)

TEST STANDARD: acc. to 47 CFR 2.1055.

TESTS PERFORMED BY:

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## TEST RESULTS

### #1 Tests at 12.5 kHz channel spacing

RF frequency of the test sample = 150 MHz.

#### a) Frequency stability vs. voltage variations

| Temperature | Voltage | Frequency     |
|-------------|---------|---------------|
| +20 °C      | 10,8 V  | 149.99981 MHz |
| +20 °C      | 12,0 V  | 149.99984 MHz |
| +20 °C      | 13,8 V  | 149.99980 MHz |
| +20 °C      | 20,4 V  | 149.99980 MHz |
| +20 °C      | 24,0 V  | 149.99979 MHz |
| +20 °C      | 27,6 V  | 149.99979 MHz |

#### b) Frequency stability vs. temperature variations

| Temperature | Voltage | Frequency     |
|-------------|---------|---------------|
| -30°C       | +12,0 V | 149.99990 MHz |
| -20°C       | +12,0 V | 149.99989 MHz |
| -10°C       | +12,0 V | 149.99995 MHz |
| ± 0°C       | +12,0 V | 149.99990 MHz |
| +10°C       | +12,0 V | 149.99989 MHz |
| +20°C       | +12,0 V | 149.99984 MHz |
| +30°C       | +12,0 V | 149.99975 MHz |
| +40°C       | +12,0 V | 149.99970 MHz |
| +50°C       | +12,0 V | 149.99969 MHz |