

FCC ID: NBZNRM-6835

Exhibit 2

Engineering Report e)Frequency Stability (2.1055)

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NAME OF TEST:

Frequency Stability (Temperature Variation)

SPECIFICATION:

47 CFR 2.1055(a)(1)

GUIDE:

EIA/IS-19-B-1988

TIA/EIA/IS-137-A-1996

TEST CONDITIONS:

As Indicated

TEST EQUIPMENT:

As per previous page

MEASUREMENT PROCEDURE

- The EUT and test equipment were set up as shown on the following page.
- 2. With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was noted within one minute.
- 3. With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
- 4. The temperature tests were performed for the worst case.
- 5. MEASUREMENT RESULTS:

ATTACHED

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TRANSMITTER TEST SET-UP

TEST A. OPERATIONAL STABILITY

TEST B. CARRIER FREQUENCY STABILITY

TEST C. OPERATIONAL PERFORMANCE STABILITY

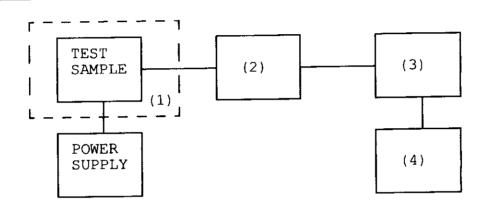
TEST D. HUMIDITY

TEST E. VIBRATION

TEST F. ENVIRONMENTAL TEMPERATURE

TEST G. FREQUENCY STABILITY: TEMPERATURE VARIATION

TEST H. FREQUENCY STABILITY: VOLTAGE VARIATION



Asset Description

s/n

2105A01087

(1) TEMPERATURE, HUMIDITY, VIBRAT x i00027 Tenny Temp. Chamber i00 Weber Humidity Chamber i00 L.A.B. RVH 18-100	<u>ION</u> 9083-765-234
(2) COAXIAL ATTENUATOR x i00122 NARDA 766-10 i00123 NARDA 766-10 i00113 SIERRA 661A-3D i00069 BIRD 8329 (30 dB)	7802 7802A 1059 10066
(3) R.F. POWER i00014 HP 435A POWER METER x i00039 HP 436A POWER METER x i00020 HP 8901A POWER MODE	1733A05839 2709A26776 2105A01087
(4) FREQUENCY COUNTER i00042 HP 5383A i00019 HP 5334B	1628A00959 2704A00347

x i00020 HP 8901A

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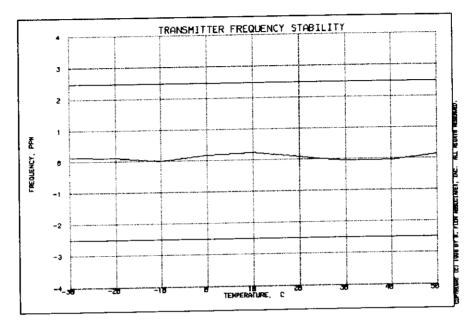
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NAME OF TEST:

Frequency Stability (Temperature Variation)

g98b0333: 1998-Nov-24 Tue 12:44:00

STATE: 0:General



SUPERVISED BY:

Morton Flom, P. Eng.

ON June 1: Eng

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NAME OF TEST:

Frequency Stability (Voltage Variation)

SPECIFICATION:

47 CFR 2.1055 (b) (1)

GUIDE:

EIA/IS-19-B-1988

TIA/EIA/IS-137-A-1996

TEST EQUIPMENT:

As per previous page

MEASUREMENT PROCEDURE

 The EUT was placed in a temperature chamber at 25±5°C and connected as for "Frequency Stability - Temperature Variation" test.

The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.

3. The variation in frequency was measured for the worst case.

RESULTS: Frequency Stability (Voltage Variation)

g98b0380: 1998-Nov-24 Tue 12:43:42

STATE: 0:General

LIMIT, ppm = 2.5 LIMIT, Hz = 2091 BATTERY ENDPOINT (Voltage) = 3.3

SUPERVISED BY:

Morton Flom, P. Eng.