

FCC ID: O2SNURIT3010CT

Exhibit 2e

Engineering Report on
Frequency Stability (2.1055)

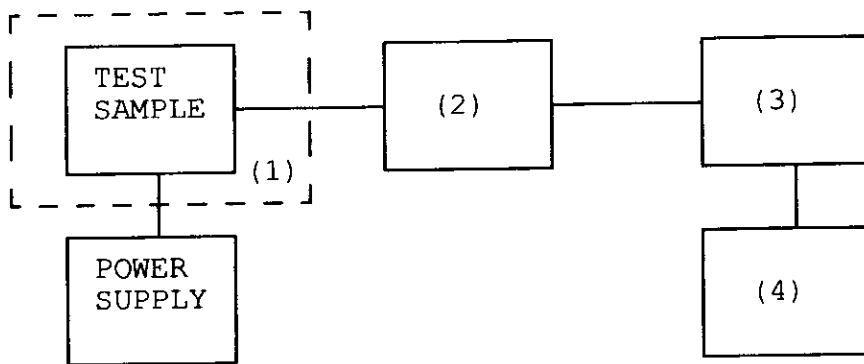
PAGE NO. 27 of 30.
NAME OF TEST: Frequency Stability (Temperature Variation)
SPECIFICATION: 47 CFR 2.1055(a)(1)
GUIDE: EIA/IS-19-B-1988
TIA/EIA/IS-137-A-1996
TEST CONDITIONS: As Indicated
TEST EQUIPMENT: As per previous page

MEASUREMENT PROCEDURE

1. 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

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



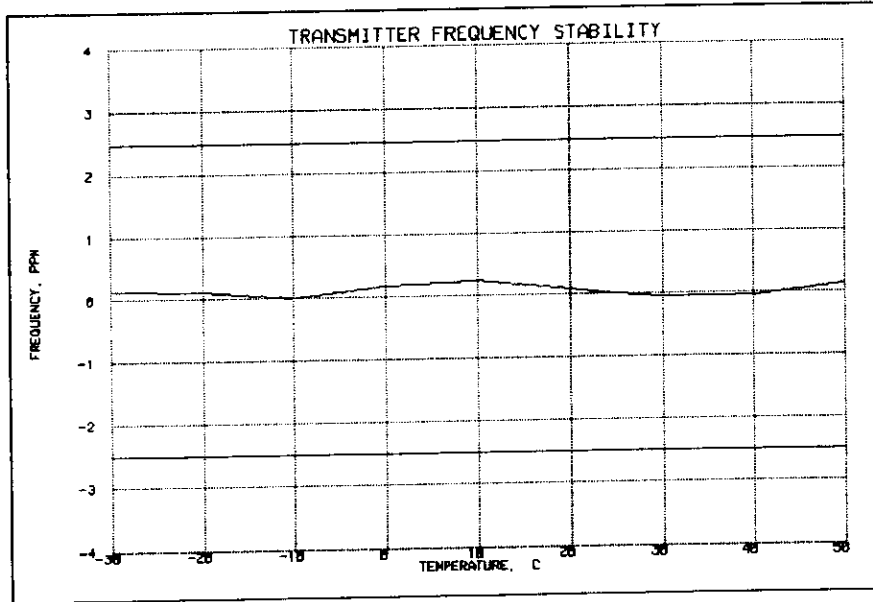
Asset Description s/n

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

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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.

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PAGE NO. 30 of 30.
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

1. The EUT was placed in a temperature chamber at 25±5°C and connected as for "Frequency Stability - Temperature Variation" test.
2. 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

% of STV	Voltage	Frequency, MHz	Change, Hz	Change, ppm
85	3.06	836.400000	0	0.00
100	3.6	836.400000	0	0.00
115	4.14	836.400010	10	0.01
85	3.2	836.399930	-70	-0.08

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