Nemko Test Report: 2L0551RUS2 Applicant: **Aerial Facilities Limited Equipment Under Test:** UHF2 (E.U.T.) In Accordance With: FCC Part 90, Subpart I Private Land Mobile Repeater **Tested By:** Nemko Dallas Inc. 802 N. Kealy Lewisville, TX 75057-3136 Jo- Till **Authorized By:** Tom Tidwell, Wireless Group Manager Date: 12/11/02 **Total Number of Pages:** 28

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EQUIPMENT:

UHF2

FCC PART 90, SUBPART I PRIVATE LAND MOBILE REPEATER PROJECT NO.: **2L0551RUS2**

| Section 1. | Summary of | of Test Results | | |
|---------------|---|-----------------------|-----------|--------------------------|
| Manufacturer: | Aerial Facilitie | s Limited | | |
| Model No.: | UHF2 | | | |
| Serial No.: | 13401 G | | | |
| General: | All measurem | ents are traceable to | nation | al standards. |
| | ere conducted on a sam th FCC Part 90, Subpa | | for the p | surpose of demonstrating |
| \boxtimes | New Submission | | | Production Unit |
| | Class II Permissive Ch | nange | | Pre-Production Unit |
| | THIS TEST REPORT | RELATES ONLY TO | THE ITI | EM(S) TESTED. |

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE. None

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EQUIPMENT:

Summary Of Test Data

UHF2

| NAME OF TEST | PARA. NO. | RESULT |
|--|-------------------|----------|
| RF Power Output | 90.205 | Complies |
| Audio Frequency Response | TIA EIA-603.3.2.6 | N/A |
| Audio Low-Pass Filter Response | TIA EIA-603.3.2.6 | N/A |
| Modulation Limiting | TIA EIA-603.3.2.6 | N/A |
| Occupied Bandwidth | 90.210 | Complies |
| Spurious Emissions at Antenna Terminals | 90.210 | Complies |
| Field Strength of Spurious Emissions | 90.210 | Complies |
| Frequency Stability | 90.213 | N/A |
| Transient Frequency Behavior | 90.214 | N/A |

Footnotes For N/A's:

- (1) Since the E.U.T. does not contain modulation circuitry modulation testing was not performed.
- (2) Since the E.U.T. is not a keyed carrier system, Transient Frequency Behavior was not performed.

.

Section 2. General Equipment Specification

| Transmitter | | | | | | | | |
|--|--------------------|-----------------|------------|---------|--------------------|----------------------|--|--|
| Supply Voltage Input: | | 115 Vac | | | | | | |
| Frequency Range: | | 486.0625, 4 | 86.2875, | 486.312 | 25, and 486.5 | 6625 MHz | | |
| Tunable Bands: | | Single fixed | channels | | | | | |
| Type(s) of Modulation: | | F3E (Voice) | F1D | F2D | D7W (QAM) | Other | | |
| Gain: | | 35 dB min. | | | | | | |
| Maximum Input: | | -19 dBm | | | | | | |
| Output Impedance: | | 50 ohms | | | | | | |
| RF Power Output (rated): | Single Channel: | 20 dBm (100 mW) | | | | | | |
| | Composite: | 26 dBm (400 mW) | | | | | | |
| Channel Spacing(s): | | 25 kHz | | | | | | |
| Operator Selection of Operating Frequency: | | Fixed | | | | | | |
| Power Output Adjustment Capability: | | Manual (Att | tenuators) | | | | | |
| Frequency Translation: | | | F1 | -F1 | F1-F2 | N/A | | |
| Band Selection: | | | Soft | ware | Duplexer Change | Fullband Coverage | | |

Theory of Operation

The AFL Off air Amplifiers for the Pasadena Blue line project are 2 way on-band RF amplifiers. Their application is as an interface between the donor radio sites and the Fibre optic receivers and transmitters which will extend coverage to the locations via the fibre optic link. There are two units one designated for the 'UHF1' frequencies the other for the 'UHF2' frequencies.

Section 3. RF Power Output

NAME OF TEST: RF Power Output PARA. NO.: 2.985

TESTED BY: David Light DATE:12/11/2002

Test Results: Complies.

Measurement Data:

| Frequency (MHz) | Measured Power (dBm) |
|--------------------|----------------------|
| 486.0625 | 20 |
| 486.2875 | 20 |
| 486.3125 | 20 |
| 486.5625 | 20 |

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EQUIPMENT:

FCC PART 90, SUBPART I PRIVATE LAND MOBILE REPEATER PROJECT NO.: **2L0551RUS2**

Section 4. Occupied Bandwidth

UHF2

NAME OF TEST: Occupied Bandwidth PARA. NO.: 2.989

TESTED BY: David Light DATE: 12/11/2002

Test Results: Complies.

Test Data: See attached graph(s).

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Test Data – Occupied Bandwidth (Input/Output)



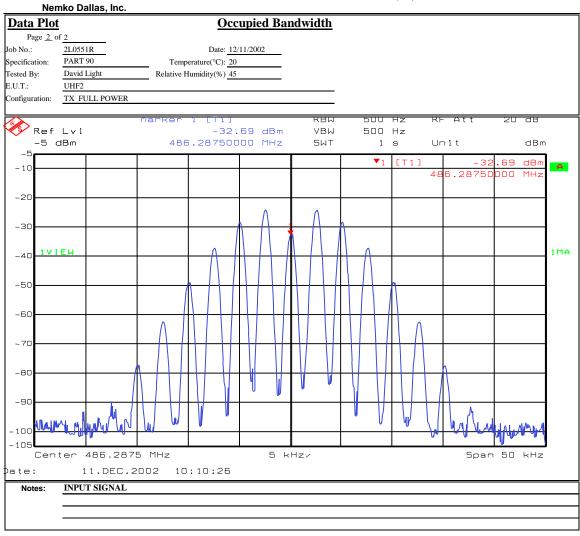
Nemko Dallas, Inc. **Occupied Bandwidth** Data Plot Page <u>1</u> of <u>2</u> Complete X Date: 12/11/2002 Job No.: 2L0551R Preliminary: Specification: PART 90 Temperature(°C): 20 Tested By: David Light Relative Humidity(%) E.U.T.: UHF2 TX FULL POWER Configuration: Sample Number: 1 RBW: Refer to plots Location: Lab 1 Measurement Detector Type: Peak VBW: Refer to plots Distance: NA Test Equipment Used Directional Coupler: Antenna: Pre-Amp: Cable #1: Filter: Cable #2: Receiver: 1036 Cable #3: Cable #4: Attenuator #1 1064 Attenuator #2: Mixer: Additional equipment used: +/-1.7 dB Measurement Uncertainty: dВ Ref Lvl 7.00 dBm VBW 500 Hz 25 dBm 486.28750000 MHz SWT 1 s dBm Α 10 - 10 dBm -20 -30 to lake the track -50 -60 Center 486.2875 MHz 5 kHz/ Span 50 kHz 11.DEC.2002 ate: OUTPUT SIGNAL 486.2875 MHz Notes: 2.5 kHz TONE / 5 kHz DEVIATION

Test Data – Occupied Bandwidth (Input/Output)



Dallas Headquarters: 802 N. Kealy

802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667



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EQUIPMENT:

FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER
PROJECT NO.: 2L0551RUS2

Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals PARA. NO.: 2.991

TESTED BY: David Light DATE:12/11/2002

Test Results: Complies.

UHF2

Test Data: See attached graph(s).

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Test Data – Spurious Emissions at Antenna Terminals



Dallas Headquarters: 802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667

Nemko Dallas, Inc. Data Plot **Intermodulation Characteristics** Page $\underline{1}$ of $\underline{2}$ Complete X Date: 12/11/2002 Job No.: 2L0551R Preliminary: Temperature(°C): 20 Specification: PART 90 Tested By: David Light Relative Humidity(%) E.U.T.: UHF2 TX 3 CHANNELS FULL POWER Configuration: Sample Number: RBW: Refer to plots Location: Lab 1 Measurement Detector Type: Peak VBW: Refer to plots Distance: NA Test Equipment Used Directional Coupler: Antenna: Pre-Amp: Cable #1: Filter: Cable #2: Receiver: 1036 Cable #3: Cable #4: Attenuator #1 Attenuator #2: Mixer: Additional equipment used: +/-1.7 dB Measurement Uncertainty: Ref Lvl -51.06 dBm VBW 1 kHz 25 dBm 485.83582866 MHz SWT 2.5 s dBm 20 dB Offset Α 83582 MH2 ∇2 [T 1] -5 . 83 dBr 10 [T1] .94 dBn 147 MH: 1MA - 10 -20 -30 -40 -50 Marina John Marina -60 Center 486.1715 MHz 100 kHz/ 11.DEC.2002 10:19:07 ate: MARKERS 1 AND 2 INDICATE INTERMOD LEVELS Notes: MARKER 3 INDICATES CARRIER LEVEL INPUT SIGNALS 486.2875 MHz and 486.0625 MHz

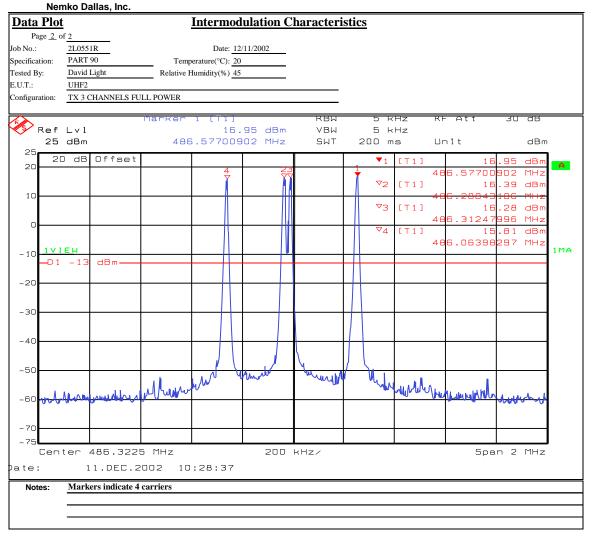
PRIVATE LAND MOBILE REPEATER
PROJECT NO.: 2L0551RUS2

Test Data – Spurious Emissions at Antenna Terminals



Dallas Headquarters:

802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667



Test Data – Spurious Emissions at Antenna Terminals



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| Ner | nko D | allas, Inc. | | | | | | | | | |
|------------------|--------------|----------------|---------------|----------------|---------------|--------------|-------------------|-------------|----------------------|---------|-----|
| Data Plot | | | Spur | ious Emis | ssions at A | ntenna T | 'erminals | | | | |
| Page 1 o | | | | | | | | Complete | a X | | |
| Job No.: | 2L055 | 1R | | Date: | 12/11/2002 | | | Preliminary | e X | | ļ |
| Specification: | PART | | Temp | erature(°C): | | | | | | | |
| Tested By: | David | | | Iumidity(%) | | | | | | | |
| E.U.T.: | UHF2 | z.ig.ii. | | | | | | | | | |
| Configuration: | | JLL POWER | | | | | | | | | |
| Sample Number: | | | | | | | | | | | |
| Location: | Lal | | | | RBW· Re | fer to plots | | Measuremen | t | | |
| Detector Type: | Pe | | | | | fer to plots | | | :: NA n | 1 | |
| Detector Type. | 10 | ak | | | VBW. KC | ici to piots | | Distance | | | |
| Test Equipm | ent Us | <u>ed</u> | | | | | | | | | |
| Antenna: | | | | Direction | onal Coupler: | | | | | | |
| Pre-Amp: | | | | | Cable #1: | 1083 | | | | | |
| Filter: | | | | | Cable #2: | | | | | | |
| Receiver: | 10 | 36 | | | Cable #3: | | | | | | |
| Attenuator #1 | 10 | 54 | | | Cable #4: | | | | | | |
| Attenuator #2: | | | | | Mixer: | | | | | | |
| Additional equip | ment use | ed: | | | | | | | | | |
| Measurement Un | ncertaint | y: +/-1.7 c | iB | | | | | | | | |
| | | | Marker | 2 TT11 | | RBU | 1 1 | Hz F | RF Att | 30 aB | |
| Ref | 1 1 1 | | IIdi Kei | | .14 dBm | VBW | 1 M | | VI HIL | 30 00 | |
| _ | dBm | | - | 3.715170 | | SWT | 12.5 m | | Jn i t | dBm | |
| 25 | 00 | | | | 334 0112 | | 12.5 111 | | ,,,,, | 9511 | . |
| 20 20 |) d <u>B</u> | Offset | | | | | ▼ 2 | [T1] | -29 | .14 dBm | A |
| 20 | Ĭ | | | | | | | | 3.71517 | 034 GHz | |
| | | | | | | | ⊽1 | [T1] | 1 5 | .35 dBm | |
| 10 | | | | | | | | 4 | 7 8.19639 | 279 MHz | |
| | | | | | | | | | | | |
| 0 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 10 1 V I | EW | | | | | | | | | | 1MA |
| -10 | - 1 B | dBm- | | | | | | | | | |
| | 1 | abiii- | | | | | | | | | |
| -20 | | | | | | | | | | | |
| | | | | | | | | _ | | | |
| -30 | | | | | | | | ₹ | | | |
| -30 | | AL W | menum | w remin | mundun | mynpm | الاسييلالالاليديس | when | mullima | Mulum | |
| ~~~ | du mu | | 1 | - | | | | | | | |
| -40 | | | | | | | | | | | |
| | | | | | | | | | | | |
| -50 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| -60 | | | | | | | | | | | |
| | | | | | | | | | | | |
| -70 | | | | | | | | | | | |
| - 75 | | | | | | | | | | | |
| | rt 3 | 0 MHz | | | 497 | MHz/ | | | Sto | p 5 GHz | |
| Date: | 1 | 1.DEC.2 | 2002 10 | :04:42 | | | | | | | |
| Notes: | Mark | er 1 indicates | carrier | | | | | | | | |
| | | | highest emiss | ion (Noise flo | or) | | | | | | |
| I | | | _ | | | | | | | | |

EQUIPMENT: UHF2 PROJECT NO.: 2L0551RUS2

Section 6. Field Strength of Spurious Emissions

NAME OF TEST: Field Strength of Spurious Emissions PARA. NO.: 2.993

TESTED BY: David Light DATE:12/11/2002

Test Results: Complies.

Test Data: See attached table.

There were no emissions detected above the ambient threshold of sensitivity. The ambient threshold of sensitivity is sufficient to measure emissions within 20 dB of the specification limit.

Test Data - Radiated Emissions



Nemko Dallas, Inc.

Dallas Headquarters: 802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667

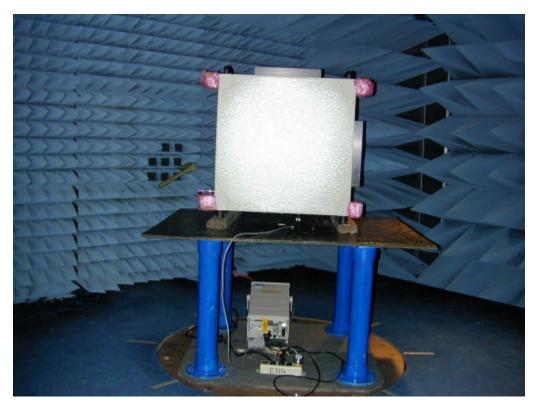
| | | | ERP Substitu | tion Metho | <u>d</u> | |
|------------------|-------------|-------------------|----------------------|------------|-------------|------------|
| Page <u>1</u> o | of <u>1</u> | | | | Complete 2 | ζ |
| Job No.: | 2L0551R | D | ate: 12/11/2002 | | Preliminary | |
| Specification: | PART 90 | Temperature(| C): 20 | | | |
| Tested By: | David Light | Relative Humidity | %) 50 | | | |
| E.U.T.: | UHF2 REPE | ATER | | | | |
| Configuration: | TX FULL PC | WER INTO LOAD | | | | |
| Sample No: | 1 | | | <u> </u> | | |
| Location: | AC 3 | • | RBW: | 30 kHz | Measurement | |
| Detector Type: | Peak | | VBW: | 30 kHz | Distance: | <u>3</u> m |
| Test Equipm | ent Used | | | | | |
| Antenna: | 1304 | | Directional Coupler: | | | |
| Pre-Amp: | 791 | | Cable #1: | 1484 | | |
| Filter: | | | Cable #2: | 1485 | | |
| Receiver: | 1464 | | Cable #3: | | | |
| Attenuator #1 | | | Cable #4: | | | |
| Attenuator #2: | - | | Mixer: | | | |
| Additional equip | oment used: | 1016 | _ | | | |
| Measurement U | ncertainty: | +/-1.7 dB | | | | |
| I | _ | | | | | |

| Frequency | Meter Reading | Correction Factor | Pre-Amp Gain | Substitution Antenna Gain | Limit | ERP | ERP | Polarity | Comments |
|-----------|------------------|----------------------|-----------------|------------------------------|-------|-------|--------|----------|-------------------|
| | Keading | ractor | Gain | Antenna Gain | Limit | | | | |
| (MHz) | (dBm) | (dB) | (dB) | (dBd) | (dBm) | (dBm) | (mW) | | |
| | | | | | | | | | Tx @ 486.0625 MHz |
| 972.1250 | -74.0 | 29.3 | 24.1 | 5.0 | -13 | -63.8 | 0.0000 | V | Noise floor |
| 1458.1875 | -72.0 | 31.5 | 32.4 | 4.9 | -13 | -68.1 | 0.0000 | V | Noise floor |
| 1944.2500 | -72.0 | 31.0 | 32.9 | 7.3 | -13 | -66.7 | 0.0000 | V | Noise floor |
| 2430.3125 | -72.0 | 34.2 | 33.0 | 6.8 | -13 | -64.1 | 0.0000 | V | Noise floor |
| 2916.3750 | -71.0 | 35.5 | 32.7 | 8.0 | -13 | -60.3 | 0.0000 | V | Noise floor |
| 3402.4375 | -73.0 | 39.8 | 32.6 | 8.0 | -13 | -57.8 | 0.0000 | V | Noise floor |
| 3888.5000 | -73.0 | 43.3 | 33.0 | 8.6 | -13 | -54.1 | 0.0000 | V | Noise floor |
| 4374.5625 | -73.0 | 45.3 | 33.2 | 8.2 | -13 | -52.7 | 0.0000 | V | Noise floor |
| 4860.6250 | -73.0 | 44.0 | 33.1 | 8.7 | -13 | -53.5 | 0.0000 | V | Noise floor |
| | | | | | | | | | |
| 972.1250 | -74.0 | 31.0 | 24.1 | 5.0 | -13 | -62.1 | 0.0000 | Н | Noise floor |
| 1458.1875 | -72.0 | 30.7 | 32.4 | 4.9 | -13 | -68.9 | 0.0000 | Н | Noise floor |
| 1944.2500 | -72.0 | 33.0 | 32.9 | 7.3 | -13 | -64.7 | 0.0000 | Н | Noise floor |
| 2430.3125 | -72.0 | 37.0 | 33.0 | 6.8 | -13 | -61.3 | 0.0000 | Н | Noise floor |
| 2916.3750 | -71.0 | 35.5 | 32.7 | 8.0 | -13 | -60.3 | 0.0000 | Н | Noise floor |
| 3402.4375 | -73.0 | 36.3 | 32.6 | 8.0 | -13 | -61.3 | 0.0000 | Н | Noise floor |
| 3888.5000 | -73.0 | 35.5 | 33.0 | 8.6 | -13 | -62.0 | 0.0000 | Н | Noise floor |
| 4374.5625 | -73.0 | 34.8 | 33.2 | 8.2 | -13 | -63.2 | 0.0000 | Н | Noise floor |
| 4860.6250 | -73.0 | 35.5 | 33.1 | 8.7 | -13 | -62.0 | 0.0000 | Н | Noise floor |

Notes: No emission were detected above the noise floor which was at least 20 dB below the spec limit.

Photographs of Test Setup





EQUIPMENT: UHF2 PROJECT NO.: 2L0551RUS2

Section 7. Test Equipment List

| Nemko ID | Description | Manufacturer Model Number | Serial Number | Calibration Date | Calibration Due |
|----------|--------------------|--------------------------------|---------------|---------------------|--------------------|
| 1464 | Spectrum analyzer | Hewlett Packard 8563E | 3551A04428 | 01/02/01 | 01/03/03 |
| 1304 | HORN ANTENNA | ELECTRO METRICS RGA-60 | 6151 | 07/30/01 | 07/31/03 |
| 1016 | Pre-Amp | HEWLETT PACKARD 8449A | 2749A00159 | 07/15/02 | 07/15/03 |
| 791 | PREAMP, 25dB | ICC LNA25 | 398 | 09/30/02 | 09/30/03 |
| 1484 | Cable 2.0-18.0 Ghz | Storm PR90-010-072 | N/A | 07/15/02 | 07/15/03 |
| 1485 | Cable 2.0-18.0 Ghz | Storm PR90-010-216 | N/A | 07/15/02 | 07/15/03 |
| 1036 | SPECTRUM ANALYZER | ROHDE & SCHWARZ FSEK30 | 830844/006 | 12/18/01 | 12/19/03 |
| 1083 | Cable 2m | Astrolab 32027-2-29094-72TC | N/A | CBU | N/A |
| 1064 | ATTENUATOR | NARDA 776B-20 | NONE | CBU | N/A |

ANNEX A - TEST METHODOLOGIES

NAME OF TEST: RF Power Output PARA. NO.: 2.985

Minimum Standard: Para. No. 90.205(a). The maximum allowable station ERP is

dependent upon the stations HAAT and required service area and

will be authorized in accordance with Table 1 of 90.205(d).

Method Of Measurement:

Detachable Antenna:

The peak power at antenna terminals is measured using an in-line peak power meter. Power output is measured with the maximum rated input level.

Integral Antenna:

If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation $GP/4\pi$ $R^2=E^2/120\pi$ and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts

E =the maximum measured field strength in V/m

R =the measurement range (3 meters)

G = the numeric gain of the transmit antenna in relation to an isotropic radiator

NAME OF TEST: Spurious Emissions at Antenna Terminals PARA. NO.: 2.991

Test Method: RBW: 1% of emission bandwidth in the 0 - 1 GHz range.

1 MHz at frequencies above 1 GHz.

 $VBW: \Rightarrow RBW$

The spectrum is searched up to 10 times the fundamental frequency.

NAME OF TEST: Occupied Bandwidth PARA. NO.: 2.989

Minimum Standard: Para. No. 90.210, see table 1 below for applicable mask.

Table 1

| Frequency Band (MHz) | Mask for equipment with Low Pass Filter | Mask for equipment without Low Pass Filter |
|----------------------|---|--|
| Below 25 | A or B | A or C |
| 25 - 50 | В | С |
| 72 - 76 | В | С |
| 150 - 174 | B, D or E | C, D or E |
| 150 Paging only | В | С |
| 220 - 222 | F | F |
| 421 - 512 | B, D or E | C, D or E |
| 450 paging only | В | Н |
| 806 - 821/851 - 866 | В | G |
| 821 - 824/ 866 - 869 | В | Н |
| 896 - 901/ 935 - 940 | I | J |
| 902 - 928 | K | K |
| 929 - 930 | В | G |
| Above 940 | В | С |
| All other bands | В | C |

NAME OF TEST: Field Strength of Spurious PARA. NO.: 2.993

Minimum Standard: Para. No. 90.210, see table 1 for applicable mask.

Test Method: TIA/EIA-603-1992, Section 2.2.12

The antenna substitution method was used to determine the equivalent radiated power at spurious frequencies. The spurious emissions were measured at a distance of 3 meters. The EUT was then replaced with a reference substitution antenna with a known gain referenced to a dipole. This antenna was fed with a signal at the spurious frequency. The level of the signal was adjusted to repeat the previously measured level. The resulting erp is the signal level fed to the reference antenna corrected for gain referenced to a dipole.

NAME OF TEST: Frequency Stability PARA. NO.: 2.995

Minimum Standard: Para. No. 990.213. The transmitter carrier frequency shall remain

within the assigned frequency below in ppm.

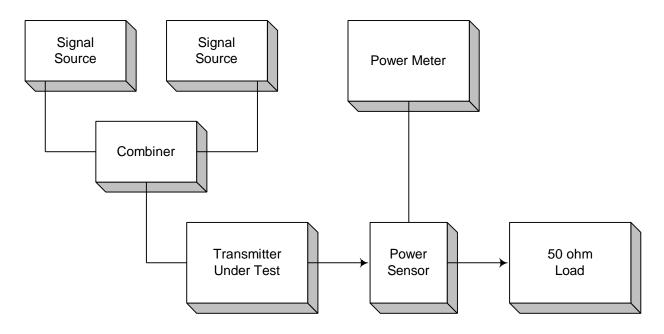
Table 2

| Frequency Band | Fixed And Base | Mobile Stations | | | |
|----------------|----------------|-------------------|-------------------|--|--|
| (MHz) | Stations | > 2 Watts o/p pwr | < 2 Watts o/p pwr | | |
| Below 25 | 100 | 100 | 200 | | |
| 25 - 50 | 20 | 20 | 50 | | |
| 72 - 76 | 5 | - | 50 | | |
| 150 - 174 | 5 | 5 | 5 | | |
| 220 - 222 | 0.1 | 1.5 | 1.5 | | |
| 421 - 512 | 2.5 | 5 | 5 | | |
| 806 - 821 | 1.5 | 2.5 | 2.5 | | |
| 821 - 824 | 1.0 | 1.5 | 15 | | |
| 851 - 866 | 1.5 | 2.5 | 2.5 | | |
| 866 - 869 | 1.0 | 1.5 | 1.5 | | |
| 869 - 901 | 0.1 | 1.5 | 1.5 | | |
| 902 - 928 | 2.5 | 2.5 | 2.5 | | |
| 929 - 930 | 1.5 | - | - | | |
| 935 - 940 | 0.1 | 1.5 | 1.5 | | |
| 1427 - 1435 | 300 | 300 | 300 | | |
| Above 2450 | - | - | = | | |

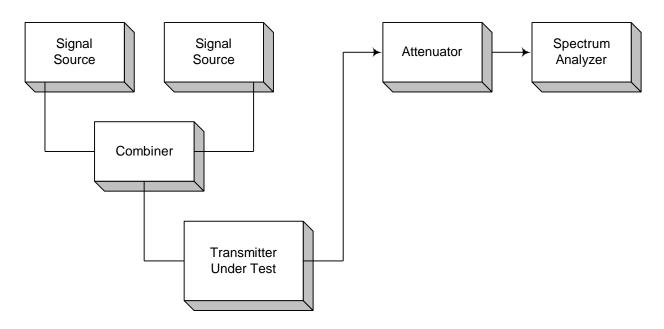
ANNEX B - TEST DIAGRAMS

PROJECT NO.: 2L0551RUS2

Para. No. 2.985 - R.F. Power Output

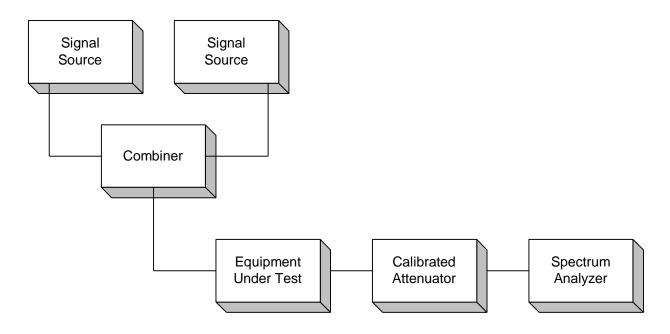


Para. No. 2.989 - Occupied Bandwidth

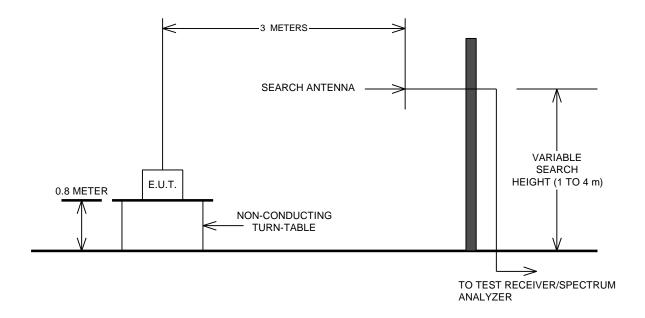


PROJECT NO.: 2L0551RUS2

Para. No. 2.991 - Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



PROJECT NO.: 2L0551RUS2

Para. No. 2.995 - Frequency Stability

