Test Report:	1W03672
Applicant:	Elisra Electronic Systems Ltd. 48 Mivtza Kadesh St. 51203, Bene-Beraq Israel
Equipment Under Test: (EUT)	Bi-Directional Amplifier
FCC ID:	OIWFBDAPCSA10W
In Accordance With:	FCC Part 24, Subpart E
Tested By:	Nemko Canada Inc. 3325 River Road, R.R. 5
	Ottawa, Ontario K1V 1H2
Authorized By:	W. Clarke, Wireless Technologist
Authorized By: Date:	

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EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

Section 1. Summary of Test Results

General

All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 24, Subpart E.

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE. See "Summary of Test Data".



NVLAP LAB CODE: 100351-0

TESTED BY:

DATE: _____

Russell Grant, Wireless Group Manager

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This report applies only to the items tested.

EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

Summary Of Test Data

Name Of Test	Para. No.	Result
RF Power Output	2.1046	Complies
Occupied Bandwidth	2.1049	Complies
Spurious Emissions at Antenna Terminals	2.1051	Complies
Field Strength of Spurious Emissions	2.1053	Complies
Frequency Stability	2.1055	Complies

Test Conditions:

Indoor	Temperature: Humidity:	24 °C 55 %
Outdoor	Temperature: Humidity:	33 °C 54 %

EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

Section 2. General Equipment Specification

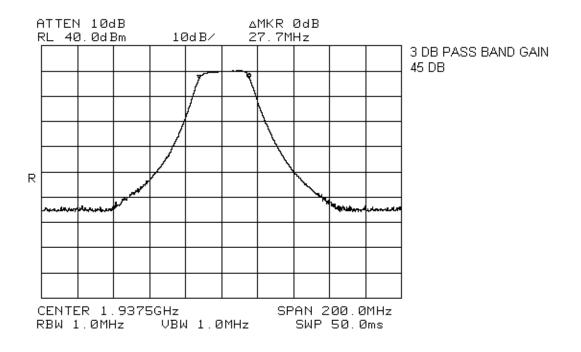
Manufacturer: Elisra Electroni	
Model No.:	MW-FBDA-PCS-A-10W
Serial No.:	0701M001
Date Received In Laboratory:	July 6, 2001
Nemko Identification No.:	Item #1

Tx 1930 – 1945MHz Downlink, 30dBm

Receiver Only Uplink

CDMA F9W

TDMA D7W



EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

Section 3. RF Power Output

Para. No.: 2.1046

Test Performed By: Russell Grant		Date of Test: July 18, 2001		
Minimum Standard:	Para. No.: 24.232.			
Test Results:	1W			
Measurement Data:	1 W			

EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

Section 4. Occupied Bandwidth

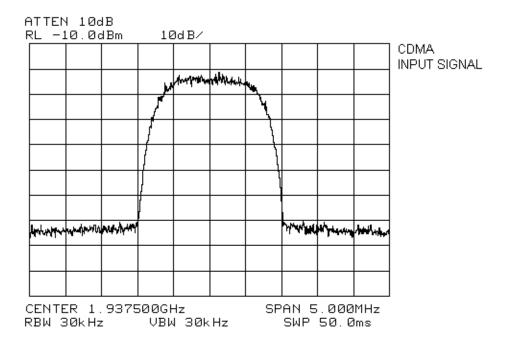
Para. No.: 2.1049

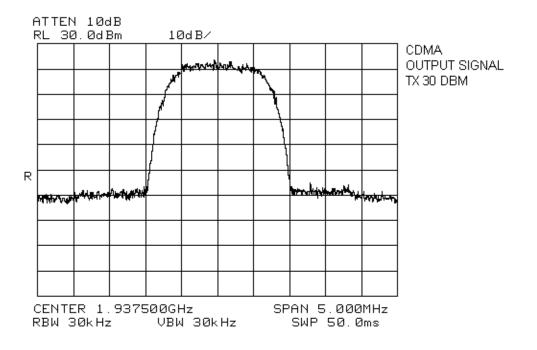
Test Performed By: Russell Grant	Date of Test: July 18, 2001
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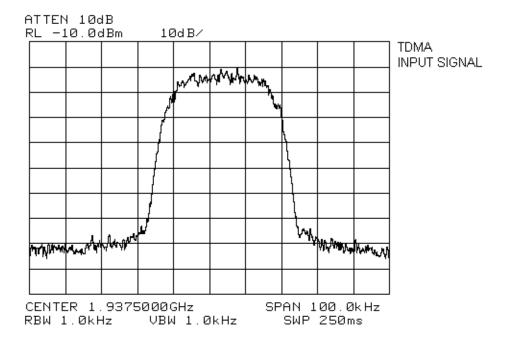
Minimum Standard: Para. No.: 24.238.

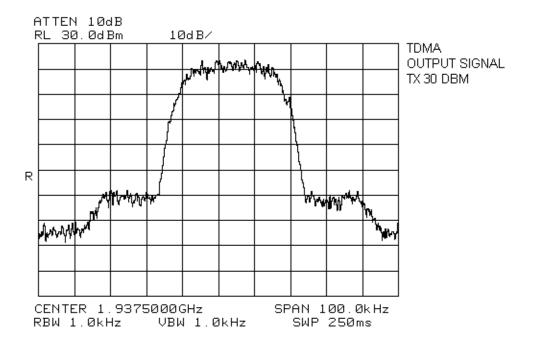
Test Results: Complies. See attached graphs.

Test Data: See attached graph(s).









EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

Section 5. Spurious Emissions at Antenna Terminals

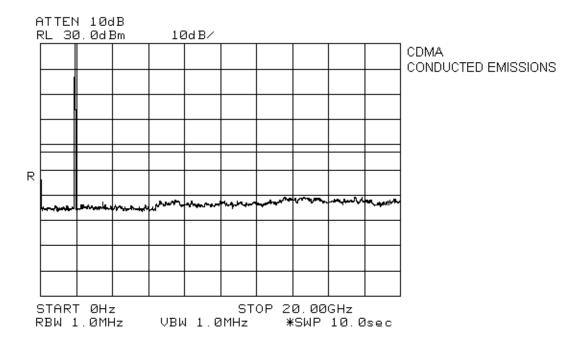
Para. No.: 2.1051

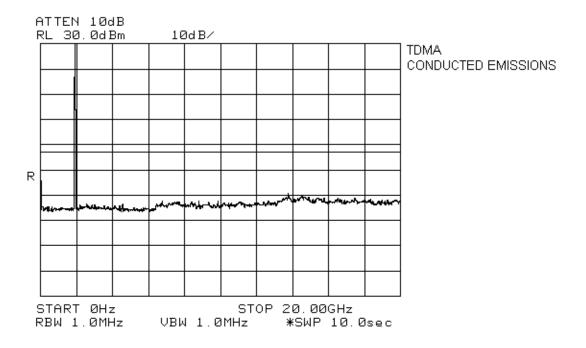
Test Performed By: Russell Grant	Date of Test: July 16, 2001		

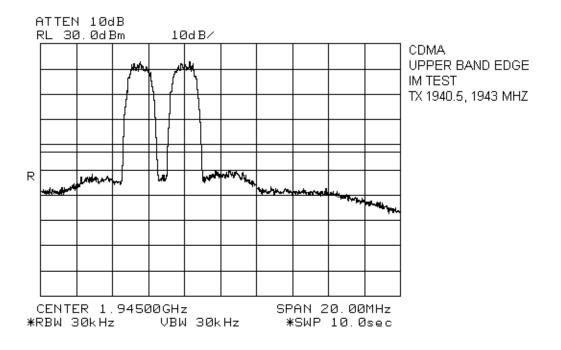
Minimum Standard:	Para. No.: 24.238.

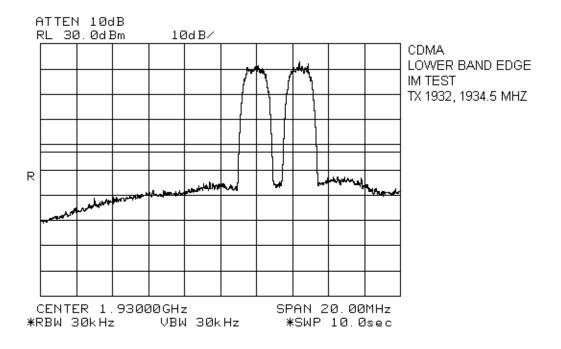
Test Results: Complies. See attached graphs.

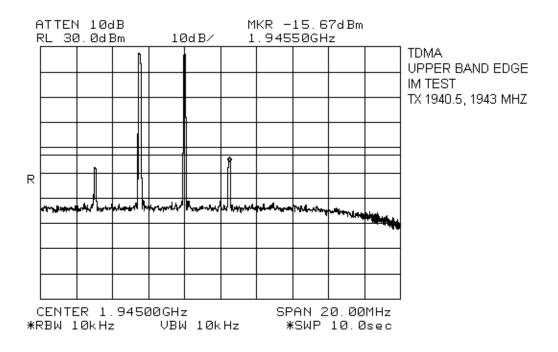
Test Data: See attached graph(s).

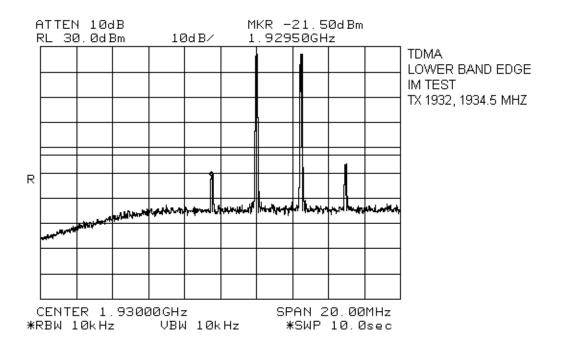












EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

Section 6. Field Strength of Spurious

Para. No.: 2.1053

Test Performed By: Ru	ssell Grant	Date of Test: July 19, 2001
Minimum Standard:	Para. No.: 24.238.	
Test Results:	specification limit. T	ons were detected within 20dB of the he spectrum was searched to the 10^{th} ental frequency at operation.
Test Data:	As per attached tabulate	d data.

EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

Section 7. Frequency Stability

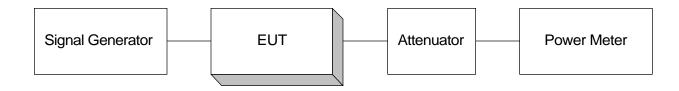
Para. No.: 2.1055

Test Performed By: Russ	Date of Test:July 16, 2001
Minimum Standard:	Para. No.: 24.235.
Test Results:	Complies.
Measurement Data:	0Hz frequency drift from -30° C to $+50^{\circ}$ C with $\pm 15\%$ primary voltage variation.

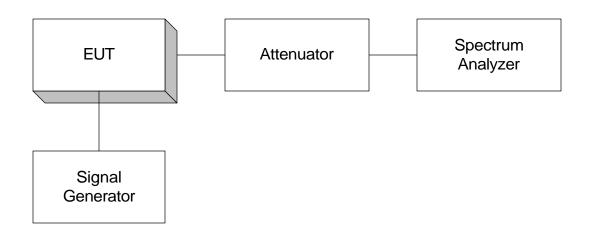
EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

Section 8. Block Diagrams

Para. No. 1046 - R.F. Power Output

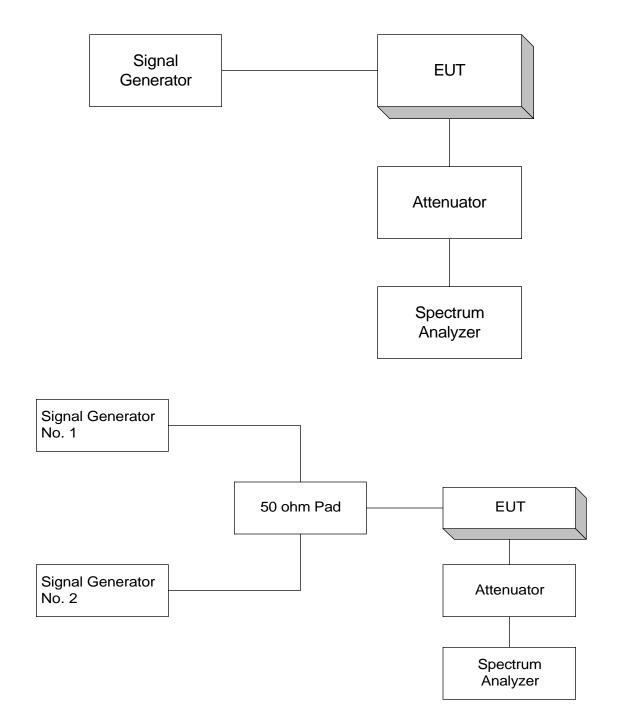


Para. No. 2.1049 - Occupied Bandwidth



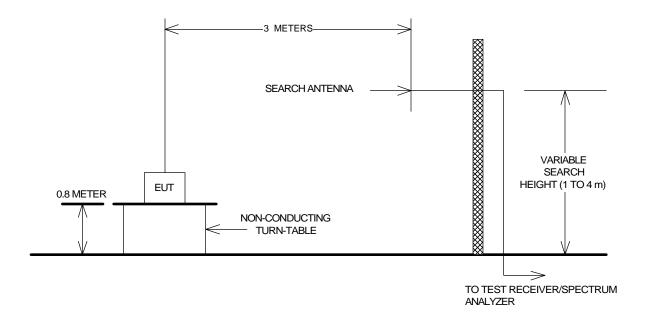
EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

Para. No. 2.1051 - Spurious Emissions at Antenna Terminals

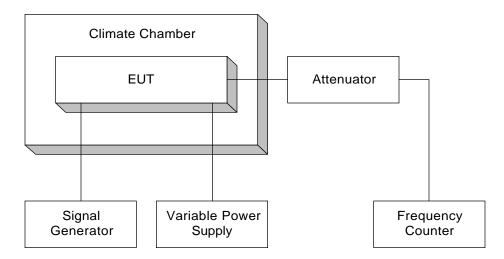


EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

Para. No. 2.1053 - Field Strength of Spurious Radiation



Para. No. 2.1055 - Frequency Stability



EQUIPMENT: Bi-Directional Amplifier FCC ID: OIWFBDAPCSA10W

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.
1 Year	Spectrum Analyzer	Hewlett Packard	8565E	FA000981	June 08/01	June 08/02
1 Year	Climate Chamber	Thermotron	SM-16C	15649-S	COU	COU
1 Year	Attenuator	Narda	768-20	9507	Oct. 12/00	Oct. 12/01
1 Year	Attenuator	Narda	769-20	4153	Oct. 1/99	Oct. 1/00
1 Year	Horn Antenna	EMCO #2	3115	4336	Dec. 1/00	Dec. 1/01
3 Year	Signal Generator	Rohde & Schwarz	SM1Q03	DE22004	Sept. 18/00	Sept. 18/03
1 Year	RF AMP	JCA	2-4 GHz	FA001496	May 31/01	May 31/02
1 Year	RF AMP	JCA	1-2 GHz	FA001498	May 31/01	May 31/02
1 Year	RF AMP	JCA	4-8 GHz	FA001497	May 31/01	May 31/02
2 Year	RF AMP	Narda	5 - 18GHz	FA001409	Nov. 9/99	Nov. 9/01
2 Year	RF AMP	Narda	18 - 26.5GHz	FA001550	July 7/00	July 7/02
1Year	Frequency Counter	Hewlett Packard	HP5350A	2444A00135	May 7/00	Nov. 4/01
3 Year	RF Generator	Rohde & Schwarz	SIMIQ03E	DE24154	Oct. 4/99	Oct. 4/01

Section 9. Test Equipment List

NA: Not Applicable NCR: No Cal Required COU: CAL On Use