Retlif Testing Laboratories

795 Marconi Avenue, Ronkonkoma, N.Y. 11779 (516) 737- 1500 - FAX 516-737-1497 (Branch Office) 101 New Boston Road, Goffstown, N.H. 03045 (603) 497-4600 - FAX (603) 497-5281

FCC COMPLIANCE TEST REPORT FOR MODEL 700t SYSTEM CONTROLLER WITH 418MHz RF TRANSMITTER FCC ID: MMU700tRF

APPLICANT NAME:	Remote Technologies Inc.
MANUFACTURER NAME:	EI Microcircuits
CUSTOMER NAME:	Lexicon, Inc.
CUSTOMER P.O.:	16386
DATE OF REPORT:	June 23, 1998
TEST REPORT NO.:	R-3158N2
TEST START DATE:	May 12, 1998
TEST FINISH DATE:	June 10, 1998
TEST TECHNICIAN(S):	T. Cricco, J. Monahan
TEST ENGINEER:	J. Monahan
SUPERVISOR:	S. Wentworth
REPORT PREPARED BY:	A. Herrick
GOVERNMENT SOURCE INSPE	CTION: Not Applicable

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CERTIFICATION AND SIGNATURES

We certify that this report is a true report of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.

John Monahan

Corporate Engineering

NVLAP Approved Signatory

Scott Wentworth Branch Manager

NON-WARRANTY PROVISION

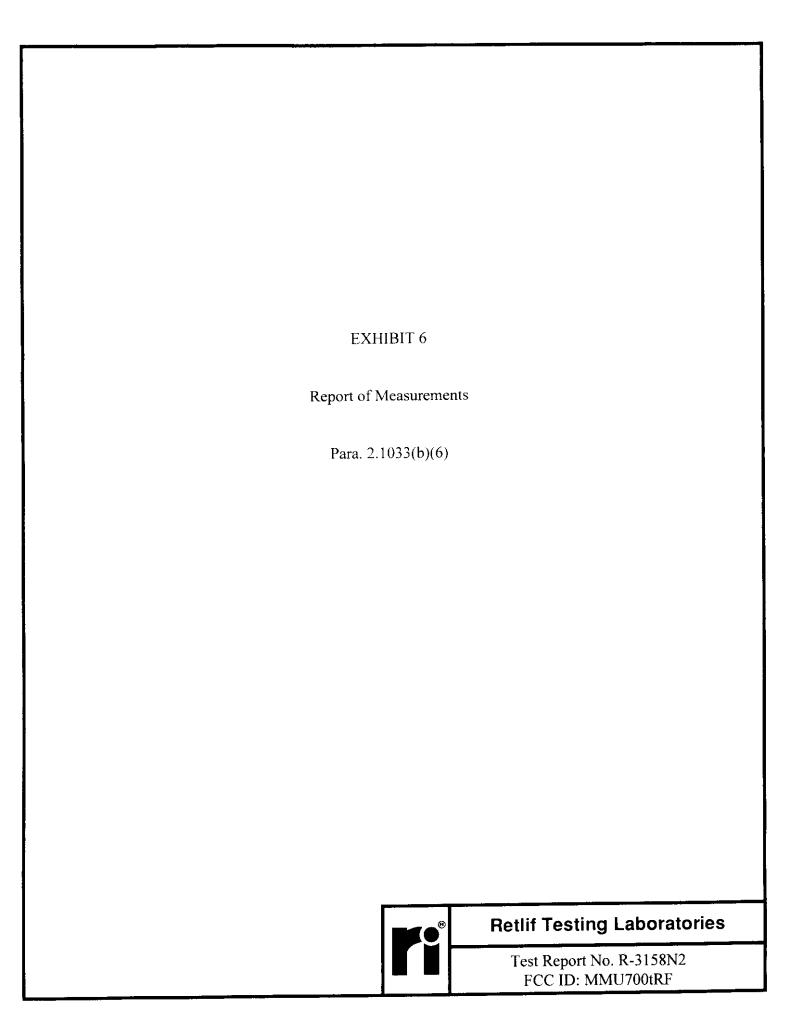
The testing services have been performed, findings obtained, and reports prepared in accordance with generally accepted testing laboratory principles and practices. This warranty is in lieu of all other warranties, either express or implied.

NON-ENDORSEMENT

This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation endorsement, or certification of the product or material tested. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.



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APPLICANT

Remote Technologies Inc. 10250 Valley View Road, Suite 149 Eden Prairie, MN 55344

MANUFACTURER

El Microcircuits 1651 Pohl Road Mankato, MN 56001

TEST SPECIFICATION: FCC R	ules and Regulations Part 15, Subpart C, Para. 15.231				
TEST PROCEDURE: ANSI	C63.4:1992				
TEST SAMPLE DESCRIPTION					
BRANDNAME:	Not Applicable				
MODEL:	700t				
TYPE:	Low Power Remote Control Transmitter				
POWER REQUIREMENTS:	6 Volt Internal Rechargeable Battery Pack /				
	External Power Supply-Battery Charger				
FREQUENCY OF OPERATION:	418 MHZ				

TESTS PERFORMED

Para. 15.231(a). Radiated Emissions. Fundamental and Harmonics
Para. 15.231(c). Occupied Bandwidth

Para. 15.207(a), Conducted Emissions

I HEREBY CERTIFY THAT: The measurements shown here were in accordance with the procedure indicated and that the energy emitted by this equipment was found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.

I FURTHER CERTIFY THAT: On the basis of the measurements made, the device tested is capable of operation in compliance with the requirements of Part 15 of the FCC Rules under normal use and maintenance.

SIGN
PRINT
Scott Wentworth
Branch Manager



Retlif Testing Laboratories

REPORT OF MEASUREMENTS

Applicant:

Remote Technologies Inc.

Device:

System Controller with 418MHz RF Transmitter

FCC ID:

MMU700tRF

Power Requirements:

6 Volt Internal Rechargeable Battery Pack /

External Power Supply-Battery Charger

Applicable Rule Section:

Part 15, Subpart C, Section 15.231

TEST RESULTS

15.231 (a) -

The device is used in a Home Theater Remote Control with home security

and automation capabilities.

15.231 (a)(1) -

The transmitter is operated by Touchscreen and ceases transmission in less

than one second.

15.231 (a)(2) -

Not applicable.

15.231 (a)(3) -

The transmitter has no regular or automatic periodic transmissions.

15.231 (a)(4)-

Not applicable.

15.231 (b) -

The fundamental field strength did not exceed 10351.42 μ V/M (Average) at

a test distance of 3 meters, measured with an Average Detector.

The field strength of harmonic and spurious emissions did not exceed

 $1035.142 \mu V/M$ (AVERAGE).

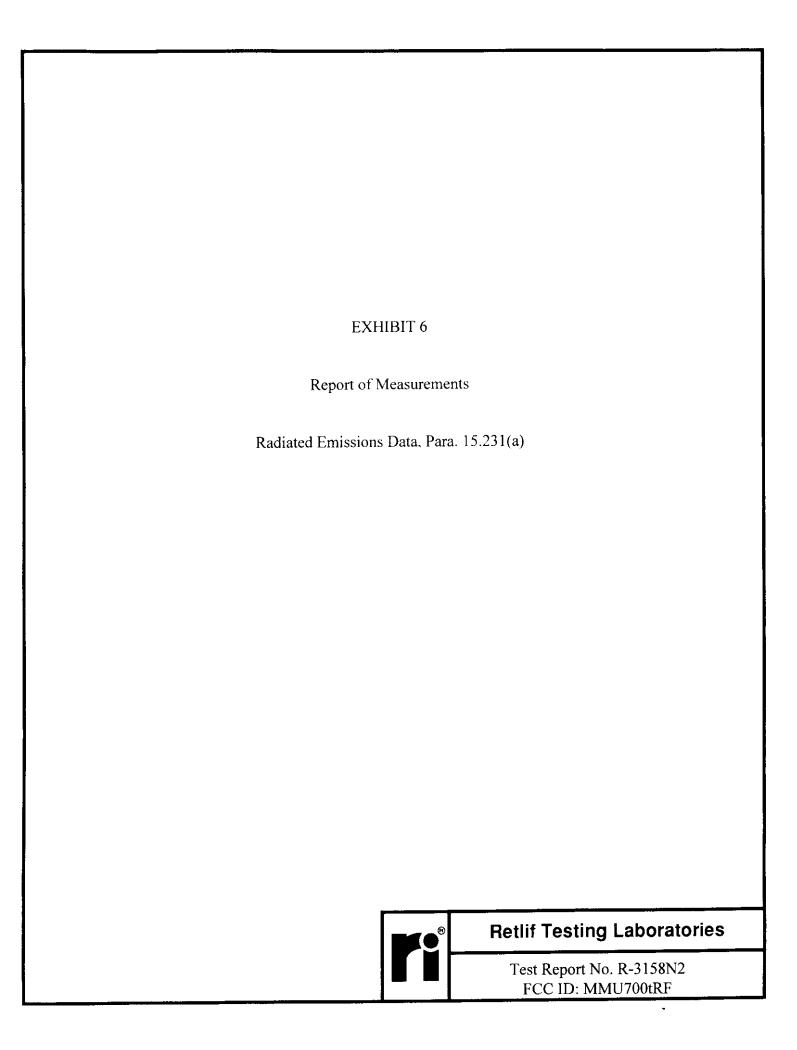
15.231 (c) -

The bandwidth of emissions was no more than 0.25% of the center frequency

of 418 MHZ.



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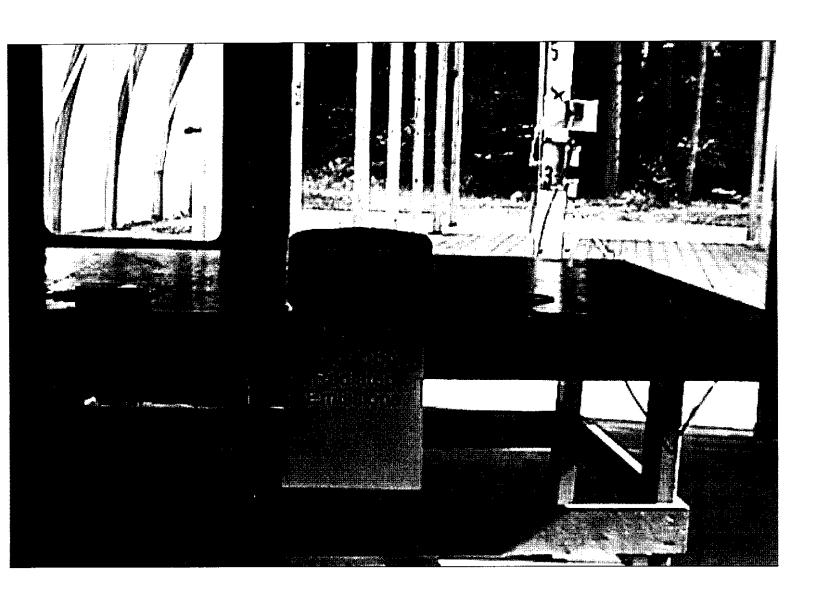


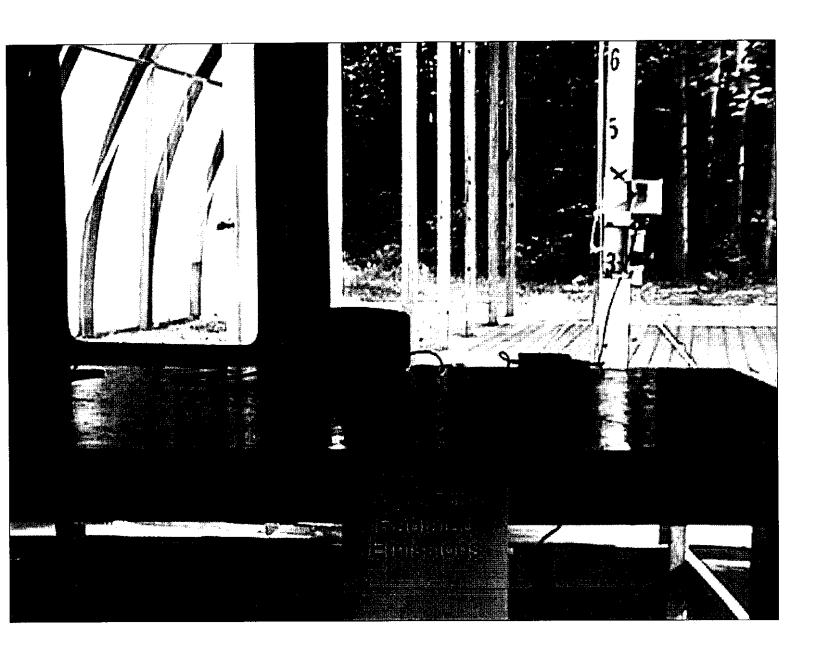
RETLIF TESTING LABORATORIES TABULAR DATA SHEET 400 to 4200 MHz TEST METHOD: RADIATED FIELD STRENGTH R-3158N2 JOB No.: CUSTOMER: Lexicon, Inc. System Controller with 418MHz RF Transmitter FCC ID: MMU700tRF TEST SAMPLE: SERIAL No. 700t MODEL No.: FCC Part 15, Subpart C, Intentional Radiator TEST SPECIFICATION: PARAGRAPH: 15.321 Switched on, operating with fully charged battery and with external power supply attached. Continuously transmitting. **OPERATING** MODE: 6-10-98 DATE: J. Monahan TECHNICIAN: 50 OK NOTES: 3 Meter Test Distance. Meter Readings taken if Average Detector Function. ΞM, CORRECTED CONVERTED TURNTABLE AVERAGE METER CORRECTION LIMIT OPERATING MEASUREMENT **ANTENNA** EREQUENCY POSITION POSITION READING FACTOR AVG READING READING @ 3 METERS FREQUENCY DEGREES dBuV/M uV/M uV/M (H/V)-HEIGHT dBuV dΒ MHz MHz 79.8 9772.372 10351.42 418.0 V4 135.0 79.7 0.1 418 V4 180.0 35.3 4.5 39.8 97.723 1035.142 570.4 180.0 36.2 9.1 45.3 184.077 1035.142 836.0 V4 < 25.0 1035.142 1254.0 1672.0 H4 180.0 27.2 25.0 52.2 407.380 500.00 58.0 794.328 1035.142 31.0 27.0 2090.0 H4 180.0 1035.142 56.0 630.957 28.0 2508.0 H4 180.0 28.0 870.963 1035.142 H4 180.0 28.0 30.0 58.8 2926.0 1035.142 3344.0 < 20.0 500.00 < 20.0 3762.0 --------500.00 < 20.0 4180.0 ---- Designates no observable emissions from the EUT

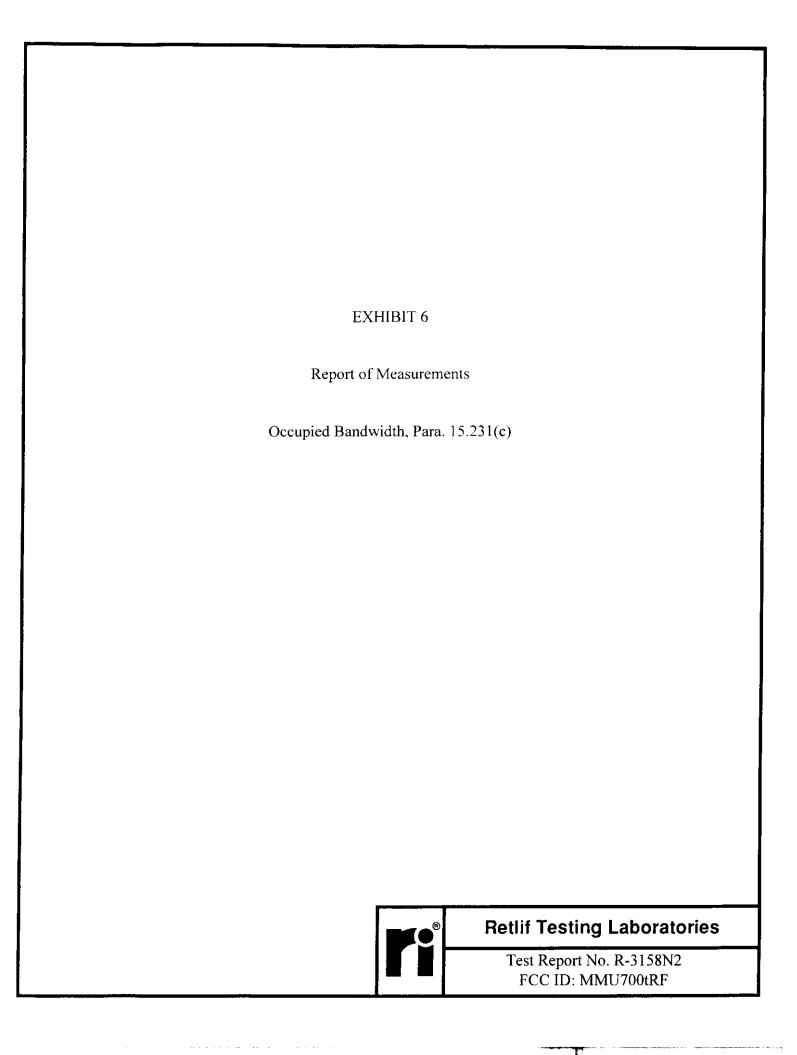
1 OF 1

DATA SHEET

Report No.: R-3158N2







OCCUPIED BANDWIDTH PLOT

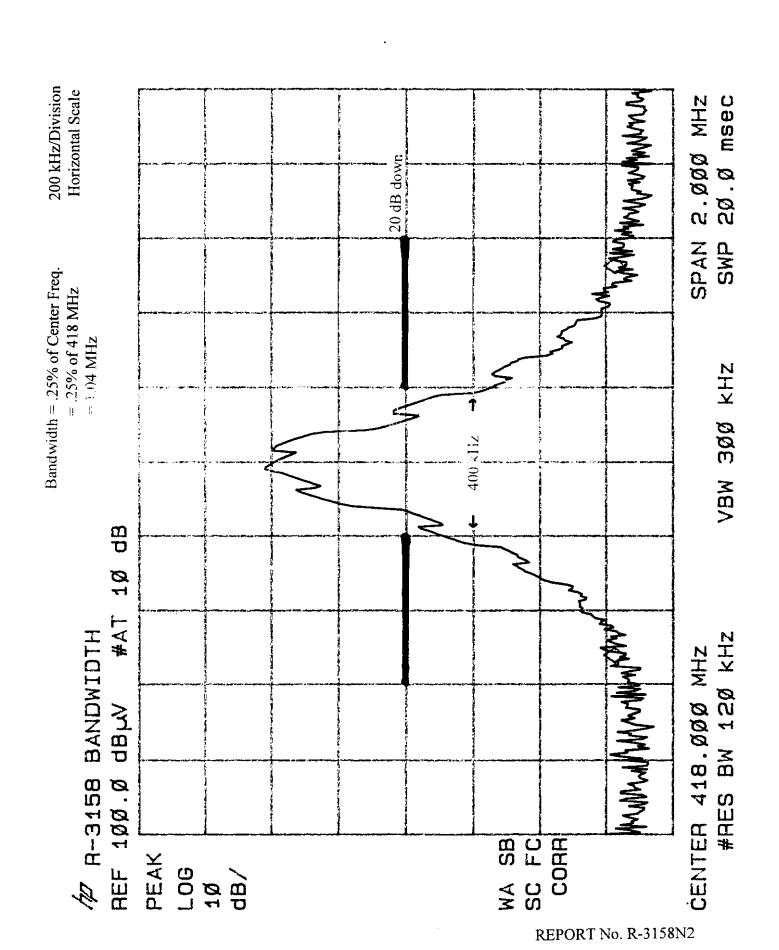


EXHIBIT 6

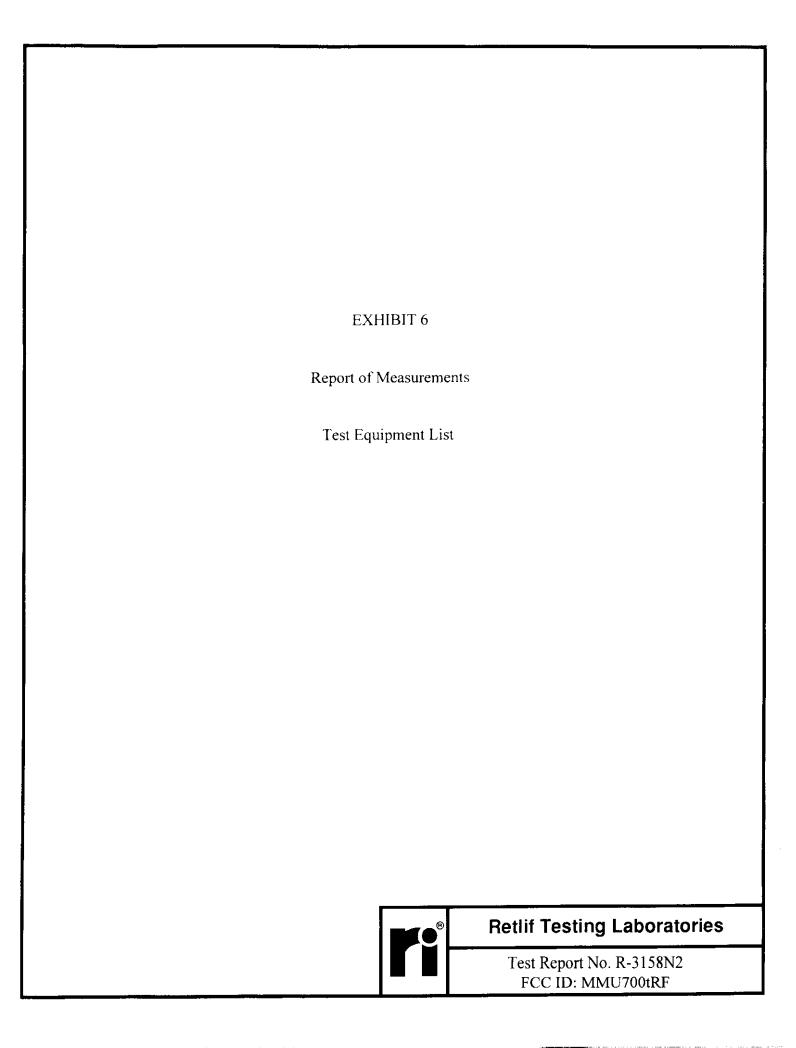
Report of Measurements

AC Line Conducted Emissions, 15.207(a)



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RETLIF TESTING LABORATORIES TABULAR DATA SHEET CONDUCTED EMISSIONS .450MHz- 30MHz TEST METHOD: R-3158N2 JOB No.: CUSTOMER: System Controller with 418MHz RF Transmitter FCC ID: MMU700tRF TEST SAMPLE: 700t SERIAL No. MODEL No.: TEST SPECIFICATION: PARAGRAPH: FCC Part 15, Subpart C, Intentional Radiator 15.231 **OPERATING** Standby and transmitting continuously with touch screen activated MODE: 6-11-98 **TECHNICIAN:** NOTES: Highest emissions observed during all modes of operation are listed FREQUENCY LINE #1 LINE #2 LIMIT QUASI-PEAK QUASI-PEAK QUASI-PEAK MHz dBuV dBuV 450 41.0 40.0 48.0 43.0 40.0 48.0 1.0 40.0 40.0 48.0 4.0 41.0 18.0 19.0 40.0 42.0 48.0 22.0 40.0 40.0 48.0 23.0 41.0 44.0 48.0 24.0 42.0 43.0 48.0 26.0 41.0 42.0 48.0 28.0 40.0 38.0 48.0 29.0 39.0 38.0 48.0 30.0 44.0 43.0 48.0 No emissions observed from the EUT were above the specified limit. Report No.: R-3158N2 1 OF 1 DATA SHEET



TEST EQUIPMENT LIST

EN	Model No.	Type	Manufacturer	Frequency Range	Serial No.	Cai Date	Due Date
3107 3118 3233 3258 3497 4027 4202	4131B BPA-1000 7470A 3115 1947A 9252-50-R-24-BN 3142	Spectrum Analyzer Pre-AMPLIFIER Graphics Plotter Double Ridge Guide Antent Transient Limiter	Advantest Electro-Metrics Hewlett Packard	10kHz - 3GHz 10kHz - 1000MHz N/A 1GHz-18GHz 9KHz - 200MHz 26MHz-2.0GHz	91510220 139 2308A98379 2438 3107A01194 951311 1299	02/09/98 07/10/97 04/03/98 04/03/98 09/08/97 06/24/97 06/10/98	02/09/99 07/10/98 04/03/99 04/03/99 09/08/98 06/24/98 06/10/99 08/22/98
4896 DNH003	7470A 8593EM	EMC Analyzer	Hewlett Packard	9kHz-22GHz	3710A00221		03/20/99



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