

DIVERSIFIED

T.E.S.T.

TECHNOLOGIES, INC.

4675 Burr Drive • Liverpool, NY 13088 • 1-800-724-6452 • FAX: 315-457-0428 • 315-457-0245

November 11, 2014

Paul Brown
GOJO
One GOJO Plaza, Suite 500
Akron, OH 44311

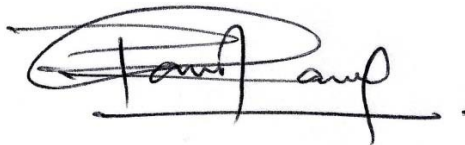
Dear Mr. Brown:

Enclosed is the test report for the GOJO Sanitizer Dispenser LTX2.0 Short unit tested at our facility, located at 4675 Burr Drive in Liverpool, NY. This facility is on file with the Federal Communications Commission (FCC) per 47 CFR 2.948 (Site File Number 306552)

We have completed our testing of Emissions to the FCC per 47 CFR Part 15 Class B.

Thank you for selecting Diversified Test Technologies for your testing needs. We look forward to working with you on future projects. Should you have any questions or concerns regarding this report, contact me at 315-457-0245. Please feel free to visit our website at www.dttlabs.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Prasanna Gautam", with a horizontal line extending from the end of the signature.

Prasanna Gautam
Technical Associate

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Diversified Test Technologies Test Report	
GOJO Industries Sanitizer Dispenser LTX 2.0 Short unit	Project Number: 6491-1

Test Information

Laboratory	Manufacturer
Diversified Test Technologies	GOJO Industries
4675 Burr Drive	One GOJO Plaza, Suite 500
Liverpool, NY 13088	Akron, OH 443110

Report Issue Date: October 21, 2014

Report Number: 6491-1-102114-FCCB 15.249 LTX Short unit (Edition 1)

Project Number: 6491

Date Received: August 9, 2014

Date Tested: August 9, 2014 - October 21, 2014

Product: Sanitizer Dispenser

Model: LTX2.0 Short unit

FCC ID: O76-T4SG0910A

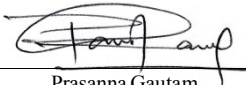
Traceability: *Reference standards of measurement have been calibrated by a competent body using standards traceable to NIST.*

The testing performed by DTT has shown that the product referenced above complies with the electromagnetic compatibility requirements according to the FCC per 47 CFR Part

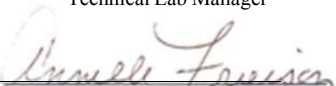
15.249. The results in this test report apply only to the GOJO LTX2.0 Sanitizer Dispenser Short unit.

It is the responsibility of the manufacturer to ensure that the product identification and labeling are in compliance with the applicable standards requirements. The manufacturer is also responsible for ensuring that additional units are manufactured with identical mechanical and electrical characteristics.

The equipment listed above conforms to the specified requirements of the test standards listed in the Test Regulations section of this report.

Compiled by: 
Signature: _____ Date: October 21, 2014
Prasanna Gautam
Technical Associate

Reviewed by: 
Signature: _____ Date: October 21, 2014
Steve Frierson
Technical Lab Manager

Authorized by: 
Signature: _____ Date: October 21, 2014
Annelle Frierson
Vice-President

<i>Diversified Test Technologies Test Report</i>	
GOJO Industries Sanitizer Dispenser LTX 2.0 Short unit	Project Number: 6491-1

Test Regulations

The tests were performed according to the following standards:

☒ FCC Part 15.249	☐ Class A	☒ Class B
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<i>Diversified Test Technologies Test Report</i>	
GOJO Industries Sanitizer Dispenser LTX 2.0 Short unit	Project Number: 6491-1

Equipment under Test (EUT) Testing Operation Mode

The EUT was operated under the following conditions during testing:

- ☐ Standby
- ☒ Normal Operating Mode
- ☐ Practice Operation

Description / Configuration of the EUT:

Sanitizer Dispenser LTX2.0 Short unit

The EUT was powered with 6 V Batteries during the collection of data included within this report.

Rationale for EUT setup / configuration:

ANSI C63.4-2009

Modifications:

None

Deviations from test method:

None

<i>Diversified Test Technologies Test Report</i>	
GOJO Industries Sanitizer Dispenser LTX 2.0 Short unit	Project Number: 6491-1

Test Results

Radiated Emissions 8MHz – 1000MHz

The requirements are ☒ MET ☐ NOT MET

Diversified Test Technologies Test Report

GOJO Industries
Sanitizer Dispenser LTX 2.0 Short unit

Project Number:
6491-1

Test Setup Photographs

Radiated Emission 8MHz-30MHz



Diversified Test Technologies Test Report

GOJO Industries
Sanitizer Dispenser LTX 2.0 Short unit

Project Number:
6491-1

Radiated Emission 30MHz-200MHz



Diversified Test Technologies Test Report

GOJO Industries
Sanitizer Dispenser LTX 2.0 Short unit

Project Number:
6491-1

Radiated Emissions 200MHz-1000MHz



<i>Diversified Test Technologies Test Report</i>	
GOJO Industries Sanitizer Dispenser LTX 2.0 Short unit	Project Number: 6491-1

Emissions Testing Conditions

Radiated Emissions

The Radiated Emissions measurements, in the frequency range of 8MHz to 1000 MHz, were tested in a horizontal and vertical polarization at the following test location:

- ☒ Diversified Test Technologies open area Test Site
☐ Diversified Test Technologies. Lab

At a test distance of:

- ☒ 1 meter
☒ 3 meters
☐ 10 meters
☐ 30 meters

Measurements from 8MHz to 30 MHz were made at a test distance of 1 Meter

Measurements from 30MHz to 1 GHz were made at a test distance of 3 Meters

DTT uses automated data reductions to determine product compliance to Radiated Emissions regulations. The product's signal data is compared to a current ambient scan. The frequencies that are of significant amplitude are sorted and are brought out to be further analyzed and maximized.

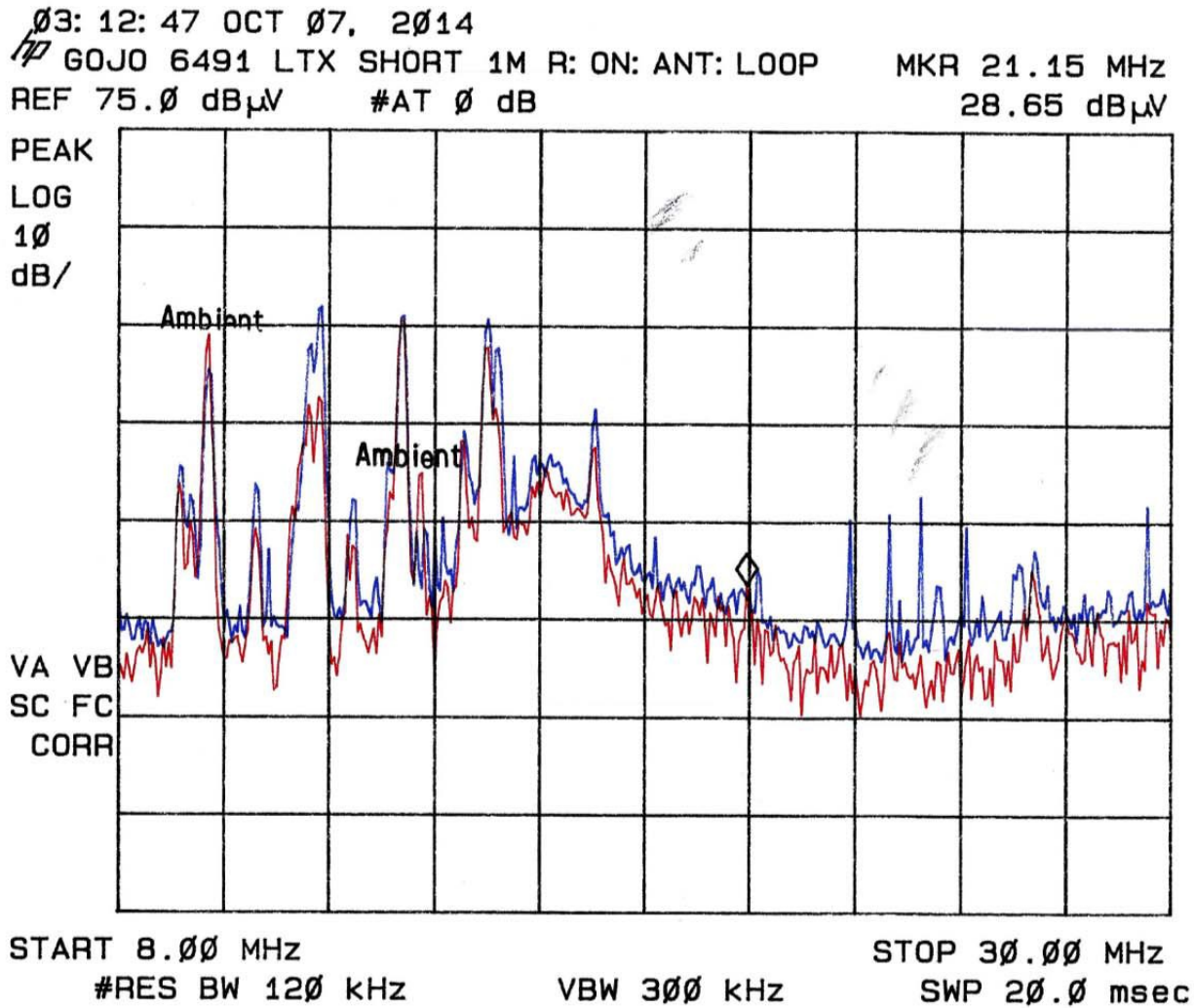
Test equipment used:

Manufacturer	Model	Description	Serial #	Cal Due Date
Hewlett Packard	8596E	Spectrum Analyzer	3235A00144	05/16/15
EMCO	6502	Active Loop Antenna	9110-2685	11/05/15
Electro-Metrics	BIA25	Biconical Antenna, 30-200 MHz	001	10/29/15
Electro-Metrics	LPA25	Log Periodic Antenna	1242	07/08/15
Hewlett Packard	7550A	Plotter	2407A00476	
		Co-ax cable, 100 ft. RG 8/U		
		Wooden test fixture with an electric motor.		
		Non-conductive wooden turntable		
	MFR- 57500	Blue Low Loss Cable	337	
		10-meter open field test range, grounded with 1/4" x 1/4" hardware cloth		

NOTE: Calibration interval 1 year for the test equipment

Diversified Test Technologies Test Report	
GOJO Industries Sanitizer Dispenser LTX 2.0 Short unit	Project Number: 6491-1

Radiated Emissions Test Data



Diversified Test Technologies Test Report

GOJO Industries
Sanitizer Dispenser LTX 2.0 Short unit

Project Number:
6491-1

22: 14: 54 OCT 08, 2014

GOJO#6491 LTX SHORT 3M R: ON, ANT: VERT

MKR 59.8 MHz

REF 80.0 dBμV #AT 0 dB

21.63 dBμV

PEAK

LOG

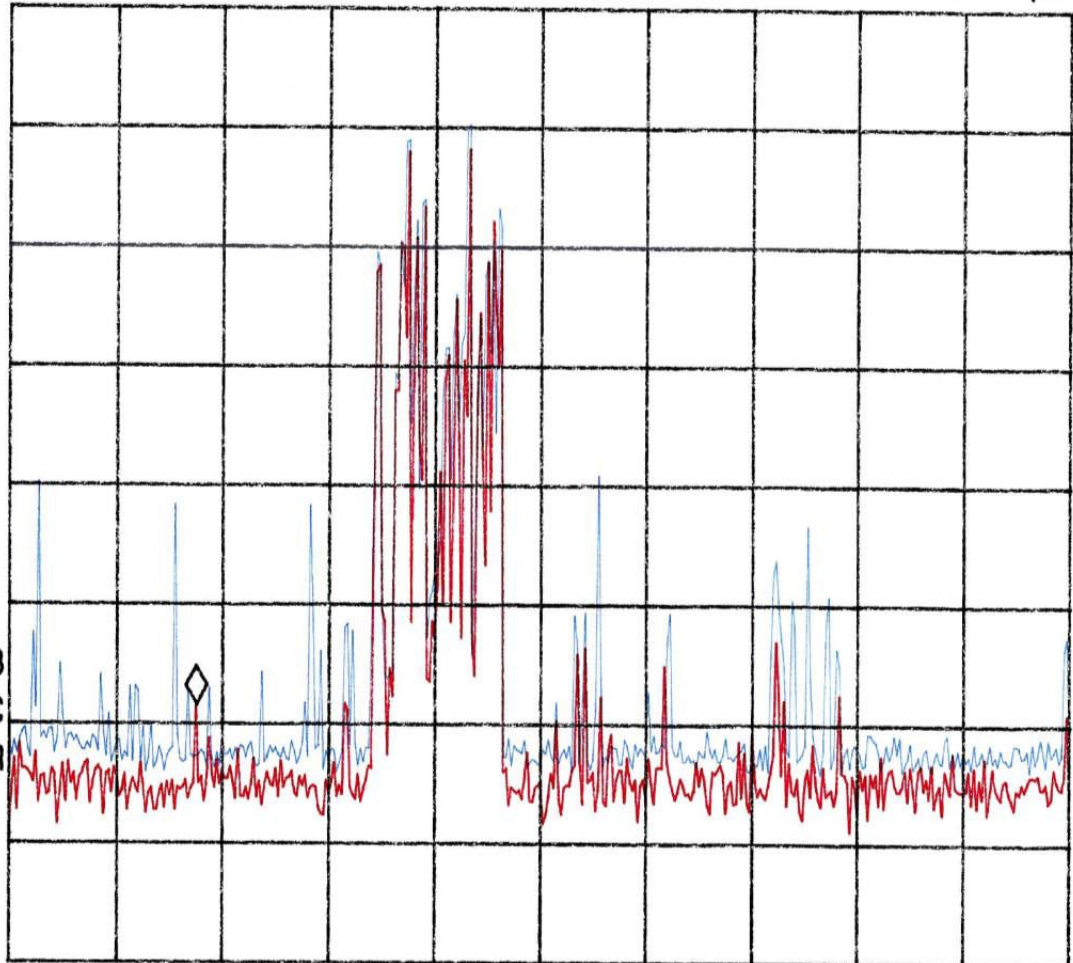
10

dB/

VA VB

SC FC

CORR



START 30.0 MHz

STOP 200.0 MHz

#RES BW 120 kHz

VBW 300 kHz

SWP 35.4 msec

Diversified Test Technologies Test Report

GOJO Industries
Sanitizer Dispenser LTX 2.0 Short unit

Project Number:
6491-1

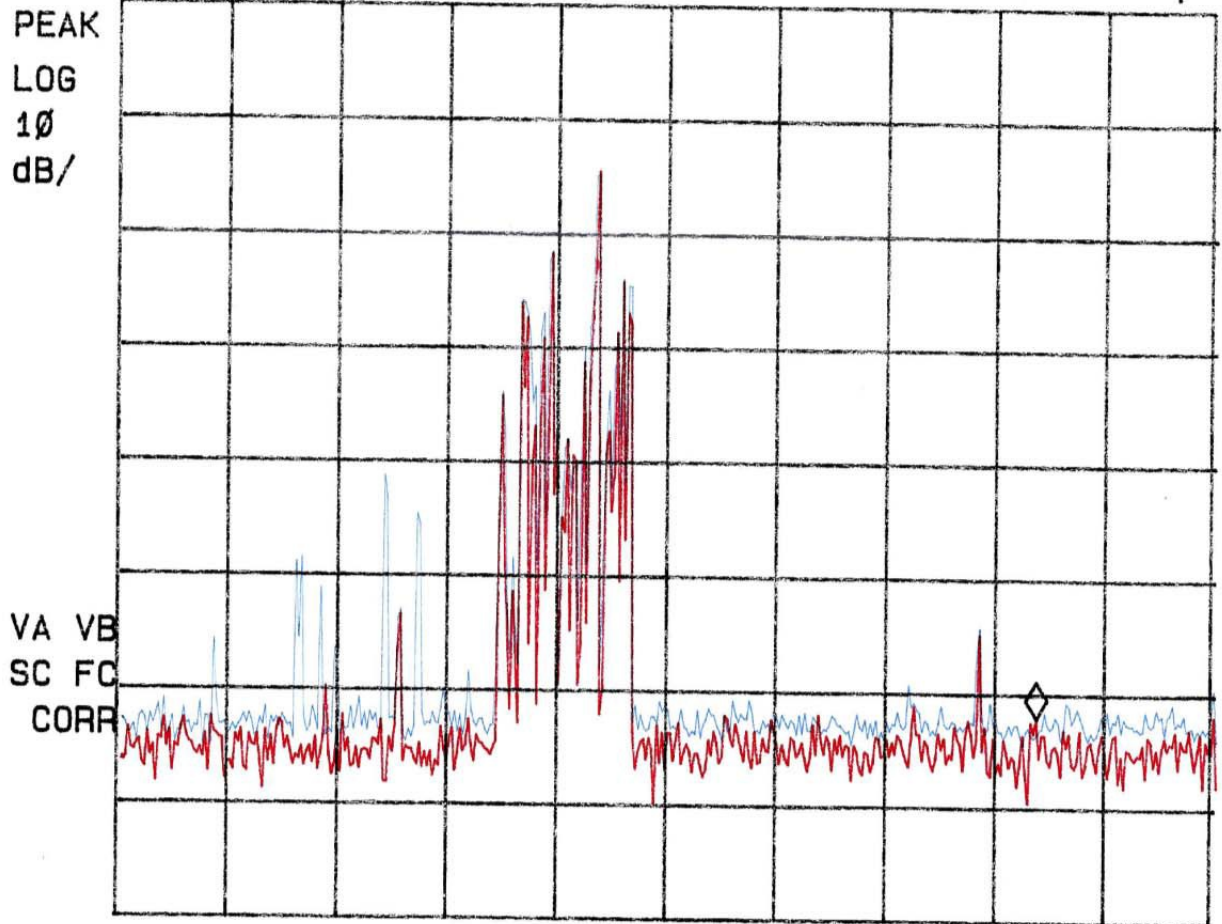
21:50:28 OCT 08, 2014

GOJO#6491 LTX SHORT 3M R: ON, ANT: HOR

MKR 172.0 MHz

REF 80.0 dBμV #AT 0 dB

17.95 dBμV



START 30.0 MHz

#RES BW 120 kHz

VBW 300 kHz

STOP 200.0 MHz

SWP 35.4 msec

Diversified Test Technologies Test Report

GOJO Industries
Sanitizer Dispenser LTX 2.0 Short unit

Project Number:
6491-1

23: 11: 42 OCT 08, 2014

GOJO#6491 LTX SHORT 3M R: ON, ANT: VERT

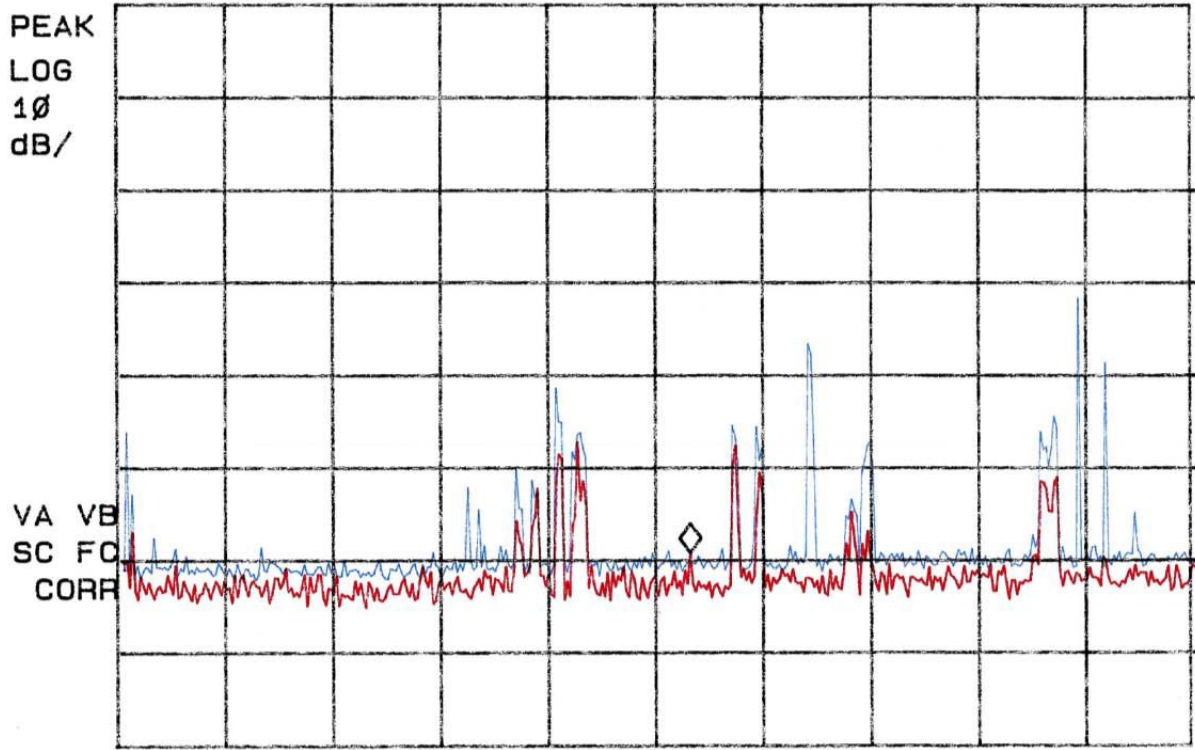
MKR 622.0 MHz

REF 80.0 dBμV

#AT 0 dB

20.81 dBμV

PEAK
LOG
10
dB/



START 200.0 MHz

#RES BW 120 kHz

VBW 300 kHz

STOP 1.0000 GHz

SWP 167 msec

Diversified Test Technologies Test Report

GOJO Industries
Sanitizer Dispenser LTX 2.0 Short unit

Project Number:
6491-1

22:32:34 OCT 08, 2014

~~HP~~ GOJO#6491 LTX SHORT 3M R: ON, ANT: HOR

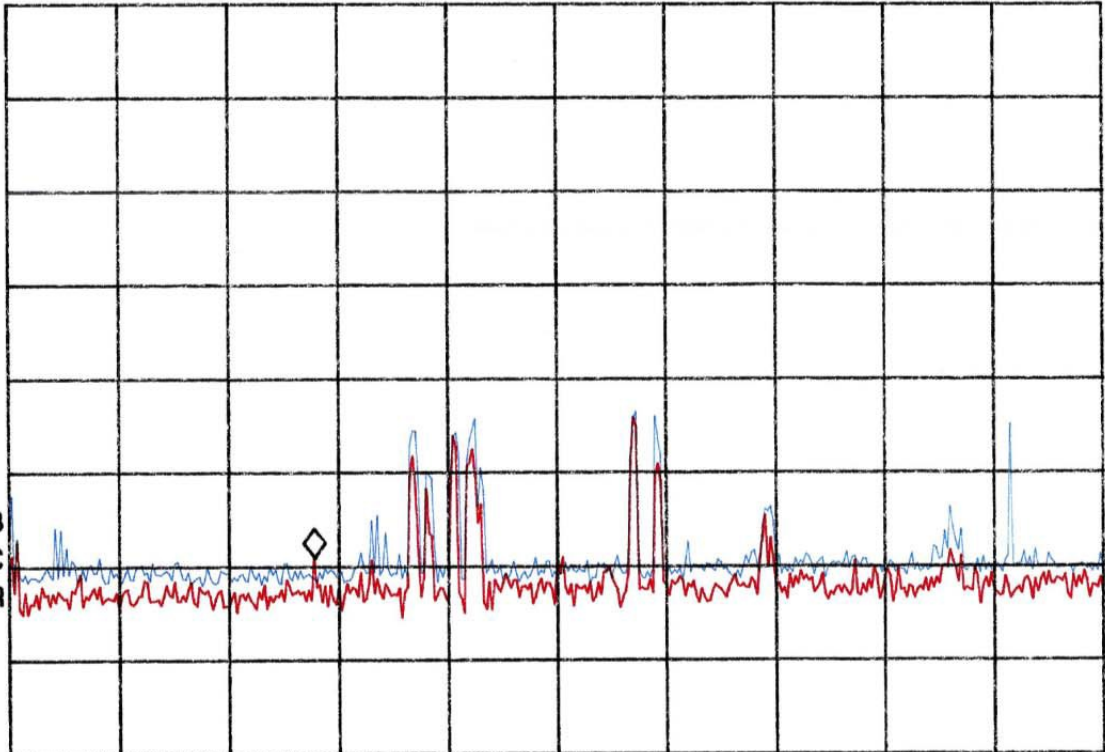
MKR 422.0 MHz

REF 80.0 dB μ V #AT 0 dB

20.91 dB μ V

PEAK
LOG
10
dB/

VA VB
SC FC
CORR



START 200.0 MHz

STOP 1.0000 GHz

#RES BW 120 kHz

VBW 300 kHz

SWP 167 msec

Certificate of Conformity

Diversified T.E.S.T Technologies have tested the product to the current appropriate standards and finds that the product is in compliance with those requirements.

Rules and Regulations:

United States 47 Code of Federal Regulations Part 15 – Electromagnetic Emissions, Class B Devices

Standards:

ANSI C63.4-2009, Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical Equipment in the Range of 9 kHz to 40 GHz.

Section 11.0 Measurement of Information Technology Equipment (ITE)

Manufacturer's Name:

GOJO Industries

Manufacturer's Address:

One GOJO Plaza, Suite 500
Akron, OH 44311

Product:

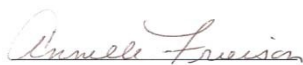
Sanitizer Dispenser

Model Number:

LTX2.0 Short unit

This Certificate of Compliance issued October 22, 2014 is valid for the test sample of the product specified above and that it conforms to the Directive(s) and Standard(s).

Signature:



Annelie Frierson
Vice President RF
Solutions, LLC.
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Liverpool, NY 13088
Phone: 315-457-0245
Fax: 315-457-0428