

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

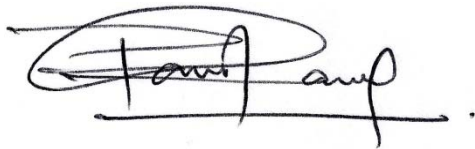
Dear Mr. Brown:

Enclosed is the test report for the GOJO LTX2.0 Sanitizer Dispenser Tall 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 Tall unit	Project Number: 6491-2

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: 6491-2-102114-FCCB 15.249 LTX Tall 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 Tall unit

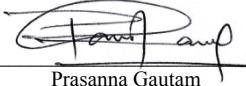
FCC ID: O76-T4SG0910A

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

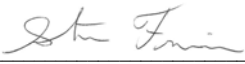
The testing performed by DTT has shown that the product referenced above complies with the electromagnetic compatibility requirements according to the FCC per 47 CFR Part 15.249. The results in this test report apply only to the GOJO LTX2.0 Sanitizer Dispenser Tall unit.

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.

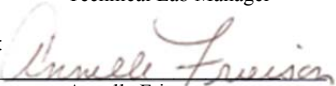
The equipment listed above conforms to the specified requirements of the test standards listed in the Test Regulations section of this report.

Compiled by: 
Signature: _____
Prasanna Gautam
Technical Associate

Date: November 11, 2014

Reviewed by: 
Signature: _____
Steve Frierson
Technical Lab Manager

Date: November 11, 2014

Authorized by: 
Signature: _____
Annette Frierson
Vice-President

Date: November 11, 2014

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<i>Diversified Test Technologies Test Report</i>	
GOJO Industries Sanitizer Dispenser LTX 2.0 Tall unit	Project Number: 6491-2

Test Regulations

The tests were performed according to the following standards:

☒ FCC Part 15.249	☐ Class A	☒ Class B
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GOJO Industries Sanitizer Dispenser LTX 2.0 Tall unit	Project Number: 6491-2

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 Tall 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 Tall unit	Project Number: 6491-2

Test Results

Radiated Emissions 8MHz – 1000MHz

The requirements are ☒ MET ☐ NOT MET

Diversified Test Technologies Test Report

GOJO Industries
Sanitizer Dispenser LTX 2.0 Tall unit

Project Number:
6491-2

Test Setup Photographs

Radiated Emission 8MHz-30MHz



<i>Diversified Test Technologies Test Report</i>	
GOJO Industries Sanitizer Dispenser LTX 2.0 Tall unit	Project Number: 6491-2

Radiated Emissions 200MHz-1000MHz



<i>Diversified Test Technologies Test Report</i>	
GOJO Industries Sanitizer Dispenser LTX 2.0 Tall unit	Project Number: 6491-2

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:

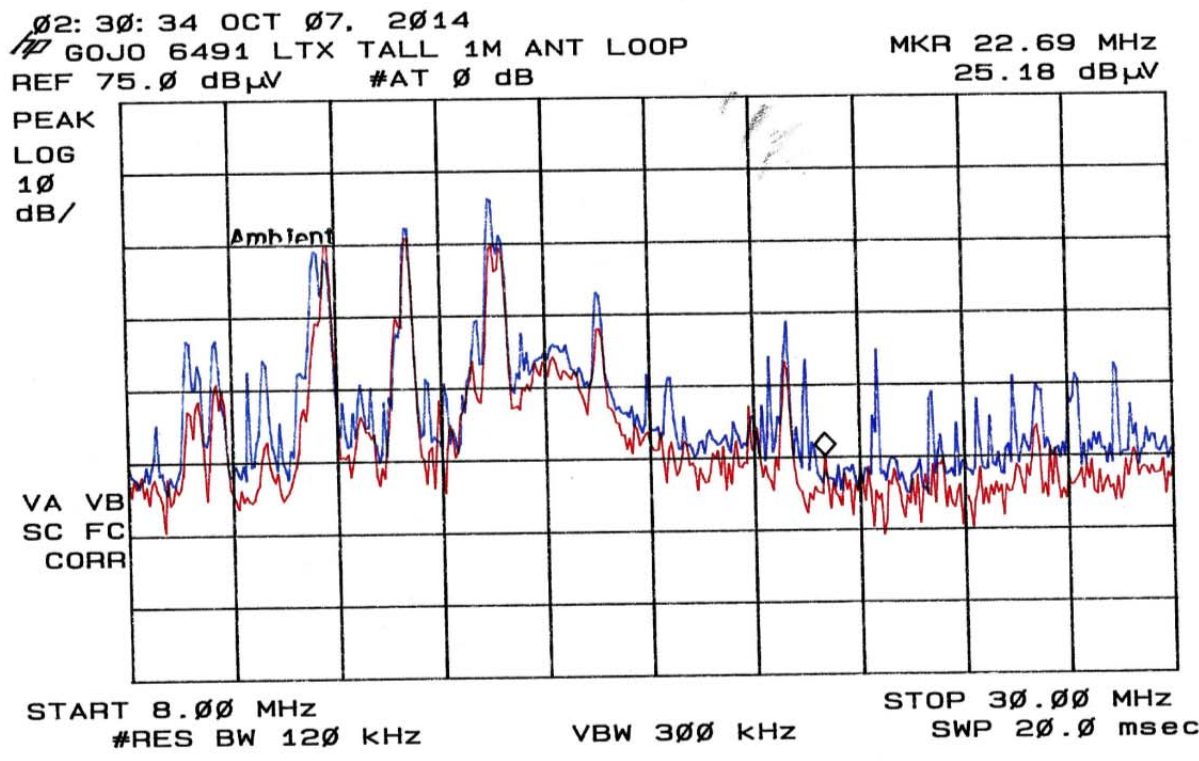
Manufacturer	Model	Description	Serial #	Cal Due Date
Hewlett Packard	8596E	Spectrum Analyzer	3235A00144	05/16/15
EMCO	6502	Active Loop Antenna	9110-2685	11/05/15
Electro-Metrics	BIA25	Biconical Antenna, 30-200 MHz	001	10/29/15
Electro-Metrics	LPA25	Log Periodic Antenna	1242	07/08/15
Hewlett Packard	7550A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

NOTE: Calibration interval 1 year for the test equipment

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Diversified Test Technologies Test Report	
GOJO Industries Sanitizer Dispenser LTX 2.0 Tall unit	Project Number: 6491-2

Radiated Emissions Test Data



Diversified Test Technologies Test Report

GOJO Industries
Sanitizer Dispenser LTX 2.0 Tall unit

Project Number:
6491-2

23: 33: 50 AUG 15, 2014

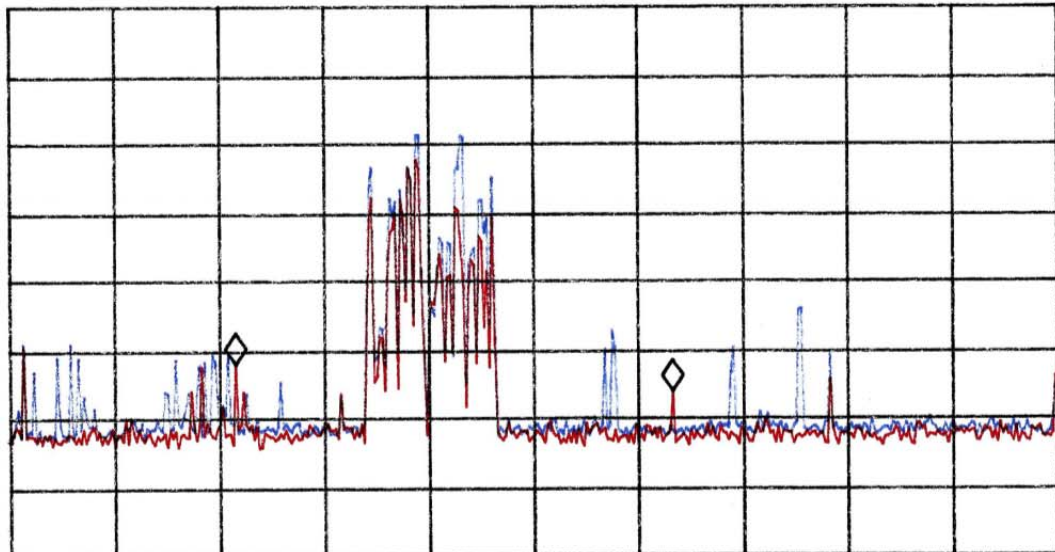
GOJO#6469, LTX2.TALL, R: ON, ANT: HOR.

MKR 137.5 MHz

REF 80.0 dBμV #AT 0 dB

23.96 dBμV

PEAK
LOG
10
dB/



Marker	Trace	Type	Freq / Time	Amplitude
1:	(B)	Freq	66.5 MHz	27.90 dBuV
2:	(B)	Freq	137.5 MHz	23.96 dBuV
3:	Inactive			
4:	Inactive			

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 Tall unit

Project Number:
6491-2

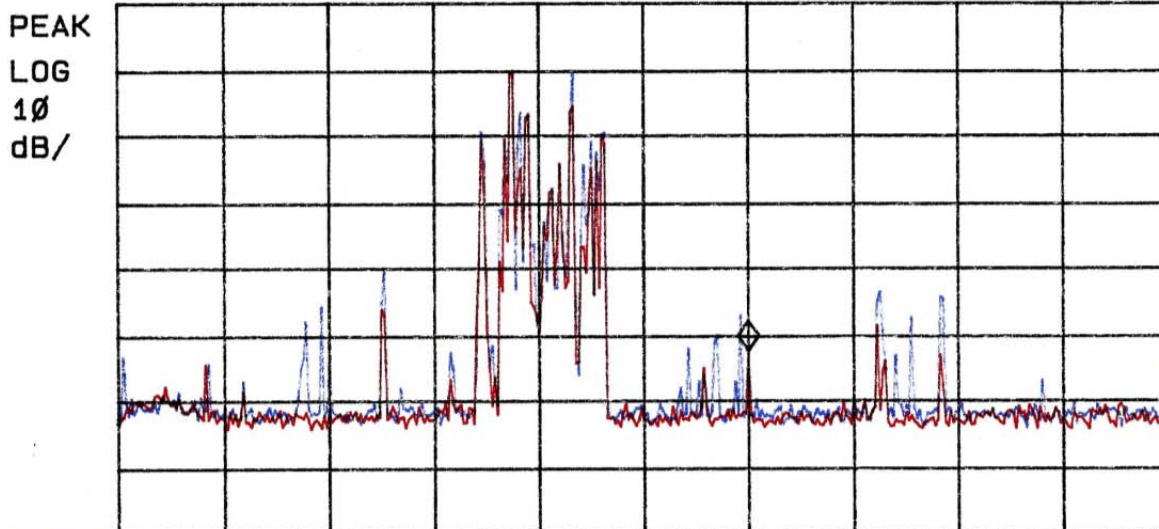
23: 49: 13 AUG 15, 2014

GOJO#6469, LTX2.TALL, R: ON, ANT: VERT.

MKR 132.0 MHz

REF 80.0 dBμV #AT 0 dB

27.57 dBμV



Marker	Trace Type	Freq / Time	Amplitude
1:	Inactive		
2:	(B) Freq	132.0 MHz	27.57 dBuV
3:	Inactive		
4:	Inactive		

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 Tall unit

Project Number:
6491-2

00: 43: 14 AUG 16, 2014

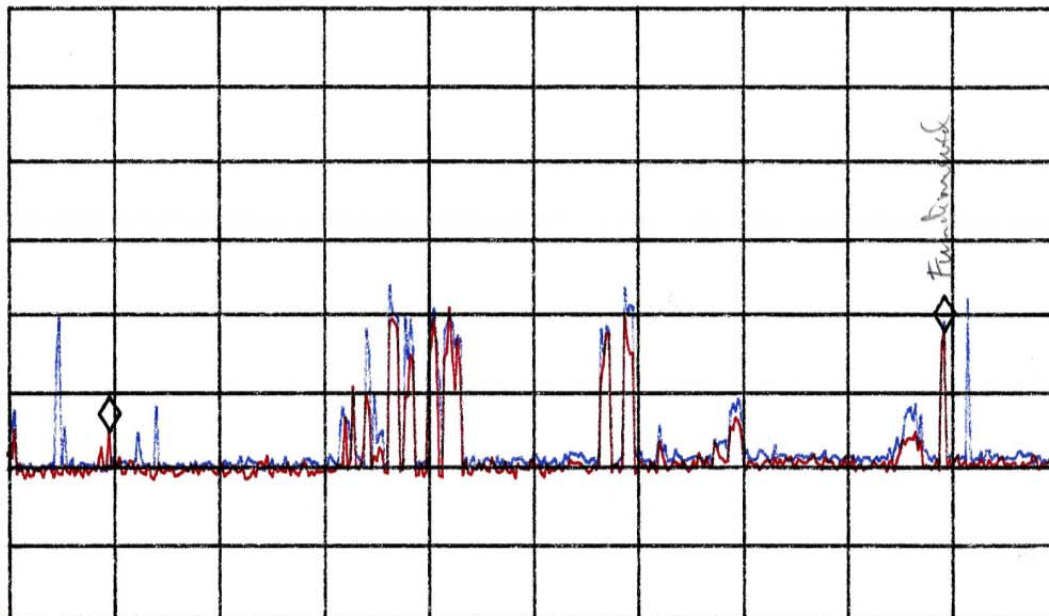
GOJO#6491, LTX2.TALL'R: ON, ANT: HOR.

MKR 276.0 MHz

REF 80.0 dBμV #AT 0 dB

24.75 dBμV

PEAK
LOG
10
dB/



Marker Trace Type

Freq / Time

Amplitude

1: (B) Freq

914.0 MHz

37.85 dBuV

2: (B) Freq

276.0 MHz

24.75 dBuV

3: Inactive

4: Inactive

START 200.0 MHz

STOP 1.0000 GHz

#RES BW 120 kHz

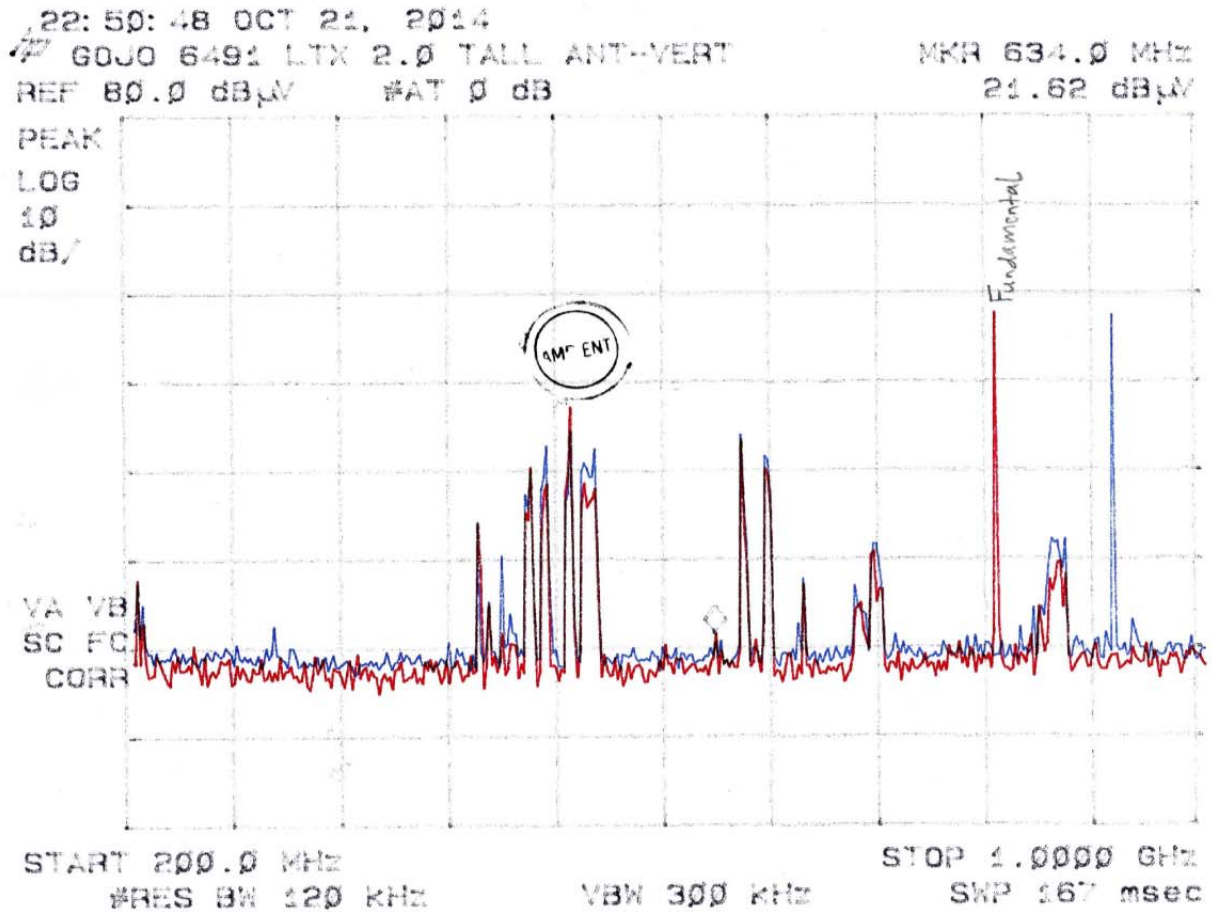
VBW 300 kHz

SWP 167 msec

Diversified Test Technologies Test Report

GOJO Industries
Sanitizer Dispenser LTX 2.0 Tall unit

Project Number:
6491-2



Certificate of Conformity

Diversified Test Technologies has 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 9kHz to 40GHz.

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:

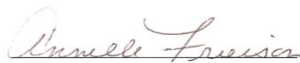
Sanitizer Dispenser

Model Number:

LTX2.0 Tall 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:

 _____

Annelle Frierson

Vice President

Diversified Test Technologies.

4675 Burr Drive

Liverpool, NY 13088

Phone: 315-457-0245

Fax: 315-457-0428