

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

February 15, 2014

Mr. Brad Lightner **GOJO Industries** 1 GOJO Plaza-Suite 500 Akron, OH 44311

Dear Mr. Lightner:

Enclosed is the test report for the GOJO Industries Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is the Smartlink Ready LTX-12 19XX-##-YYY dispenser which was 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 Registration Number: 306552) Please see attached annex for information on the Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev.ABC.

As narrated in the report, the product configuration meets the requirements of the FCC per CFR 47 Part 15.249 Class C for Intentional Radiators. Additionally, all spurious emissions signals are greater than 20 dB below the limit of FCC Part 15.209 and are not reported. Therefore, the unit under test meets the FCC Part 15.209 requirements. The plots indicated ambient scans.

Thank you for selecting Diversified T.E.S.T. Technologies, Inc. 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.dttlab.com.

Sincerely,

mechand Michan

Michael McElroy Technical Associate

GOJO Industries	Project Number:
Limited Approval Wireless Transmitter Module 1960-501-WHT	6425
Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is	
Smartlink Ready LTX-12 19XX-##-YYY Dispenser	

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Emissions Testing

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GOJO Industries Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is Smartlink Ready LTX-12 19XX-##-YYY Dispenser

Test Report

Laboratory Diversified TEST Technologies, Inc. 4675 Burr Drive Liverpool, NY 13088 315-457-0245 Manufacturer GOJO Industries 1 GOJO Plaza, Suite 500 Akron, OH. 44311 Project Number:

6425

Report Issue Date:February 14, 2014Project Number:6425Report Number:6425-070913 (Edition 2) FCCC LTX 12 with Limited ApprovalWireless Transmitter Module

Date Received:June 24, 2013Date Tested:June 24, 2013 – June 26, 2013Model Numbers:Limited Approval Wireless Transmitter Module 1960-501-WHTand 1930-513-910 Rev. ABC in the host where the host is Smartlink Ready LTX-1219XX-##-YYY Dispenser.

FCC ID: 076-T4SG0910A

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

The testing performed by Diversified TEST Technologies, Inc. has shown that the product referenced above complies with the electromagnetic compatibility requirements according to the standard(s) specified on page 3 of the test report. The results in this test report apply only to the product denoted above. The manufacturer is 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 on page 3 of this report.

Complied by: Signature:

Michael McElroy Technical Associate

Date: February 15, 2014

Reviewed by: Signature: Unnelle Frieson

Annelle Frierson Vice- President Date: February 15, 2014

2

GOJO Industries
Limited Approval Wireless Transmitter Module 1960-501-WHT
Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is
Smartlink Ready LTX-12 19XX-##-YYY Dispenser

Project Number: 6425

Emissions Test Regulations

The emissions tests were performed according to the following regulations:

EN 50081-1:1992 EN 50081-2:1995	
EN 55011:1998 / A1:1999 / A2:20	001 Group 1 Group 2 Class A Class B
EN 55013:1990 / A12:1994 / A13	:1996 / A14:1999
EN 55014:1993 / A1: 1997	Household appliances and similar Portable tools Semiconductor devices
EN 55022:1998	Class A Class B
⊠FCC Part 15.249	Class A Class B Class C

Certification

Verification

Declaration of Conformity

GOJO Industries

Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is Smartlink Ready LTX-12 19XX-##-YYY Dispenser Project Number: 6425

Emissions Test Conditions: FCC PART 15.249 CLASS C

The Harmonics, Bandwidth, and Spurious Emissions measurements were tested in a horizontal and vertical polarization at the following test location:

Diversified TEST Technologies, Inc. Open Area Test Site Diversified TEST Technologies, Inc. Lab

at a test distance of:

1 meter3 meters30 meters

Test equipment used:

Manufacturer	Model	Description	Serial #	Cal.	Cal. Due
Hewlett Packard	8593EM	Spectrum Analyzer	3536A00139	6/19/13	6/19/14
Electro-Metrics	RGA60	Ridge Horn Antenna	2981	8/25/12	8/25/13
Hewlett Packard	7550A	Plotter	2407A00476	CNR	CNR
Electro-Metrics	LPA-25	Log Periodic	1242	9/11/12	9/11/13
		Antenna 200-1000			
		MHz			
	MFR-	Blue low-loss	337	CNR	CNR
	57500	transmit cable			
		Non-conductive		CNR	CNR
		wooden turntable			
	10-meter open field			CNR	CNR
		test range, grounded			
		with ¹ / ₄ " x ¹ / ₄ "			
		hardware cloth			
Hewlett Packard	8595E	Spectrum Analyzer	3746A03177	7/23/12	7/23/13
EMCO	6520	Active Loop Antenna	9110-2685	7/19/12	7/19/13
Agilent	E7402A	Spectrum Analyzer	MY45103221	3/25/13	3/25/14
Electro-Metrics	BIA-30W	Biconical Antenna	103	9/1/12	9/1/13

GOJO Industries Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is Smartlink Ready LTX-12 19XX-##-YYY Dispenser Project Number: 6425

Equipment under Test (EUT) Test Operation Mode – Emissions Tests:

The device under test was operated under the following conditions during emissions testing:

Standby

Normal Operating Mode

Practice Operation

Description / Configuration of the device under test:

Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is Smartlink Ready LTX-12 19XX-##-YYY dispenser. The unit was powered by a 6 VDC Battery during the collection of data.

Rationale for EUT setup / configuration:

After numerous trial runs with a full bottle and an empty bottle it was found an empty bottle was worst case so therefore the dispenser was tested with the empty bottle for the entire test.

ANSI C63.4

Deviations from test method:

Testing performed at 1 meter test distance above 1 GHz to better represent harmonic emissions caused by the equipment under test. Testing using Loop Antenna was performed on 6/26/13.

DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT								
GOJO Industries	Project Number:							
Limited Approval Wireless Transmitter Module 1960-501-WHT	6425							
Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is								
Smartlink Ready LTX-12 19XX-##-YYY Dispenser								
Fmissions Tost Results.								

Emissions Lest Results:

FCC Part 15.249 Part C 910 M The requirements are	Hz – 9100 MHz ⊠ MET	NOT MET
Spurious Emissions Test The requirements are	🖂 MET	NOT MET

General Remarks:

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be less than 500 kHz.

Measurements were taken up to the tenth harmonic.

The EUT was evaluated in 1 orthogonal orientation and the worst case data is reflected in the test report.

Radiated Measurements on the EUT were performed from 10 MHz up to the 10th Harmonic and any emission found were more than 20 dB below the limit have not been reported.

The transmitter module transmits an OOK modulated data packet following a 10 second delay after an event trigger coming from the LTX dispenser. The use of the LTX dispenser to dispense soap to a customer constitutes an event and once an event occurs a trigger pulse is sent from the LTX dispenser to a microcontroller in the transmitter module. The microcontroller in the module uses the 10 second delay period to watch for additional events during that period of time. After the 10 second period has expired the total number of events that occurred during that 10 second period are sent in the transmitted data packet along with the transmitter module serial (ID) number and other information like the battery level. A drawing of the transmit packet is shown on last page of this report.

The transmitter packet starts with a 50% duty cycle Preamble for 38.76mSec followed by an off Space of 3.04mSec. After the Space, the payload is sent twice for redundancy. Each payload time is 63.84mSec in length and consists of an equal numbers of 1's and 0's. Where each of the 1's has a 25% duty cycle and each of the 0's has a 75% duty cycle. Together the payload has a combined 50% duty cycle. The total packet length is therefore the addition of the 38.76msec Preamble followed by the 3.04mSec Space followed by the two redundant payloads of 63.86mSec each for total packet length of 169.48mSec. The total packet duty cycle consists of 83.22mSec "on" bits and 86.26mSec "off" bits for a total percentage of "on" bits of 0.491%.

Therefore the duty cycle correction in terms of dB is: $20\log(0.491) = -6$ dB.

Summary:

The requirements according to the technical regulations are

 \boxtimes Met.

Not met.

The device under test does

 \boxtimes fulfill the general approval requirements mentioned on page 3.

not fulfill the general approval requirements mentioned on page 3.

Testing Start Date:	June 24, 2013
Testing End Date:	June 26, 2013

GOJO Industries	Project Number:
Limited Approval Wireless Transmitter Module 1960-501-WHT	6425
Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is	
Smartlink Ready LTX-12 19XX-##-YYY Dispenser	

Test Setup Photographs:

FCC PART 15.249 CLASS C-910 MHz



Photograph 1: FCC Part 15.249 Class C

DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT							
GOJO Industries	Project Number:						
	6368						

Test Datasheets – 910 MHz- 9100 MHz

21 pages of data sheets to follow.

Limits for transmitters USA

FCC Part 15.249 Transmitter Test												
						GOJO	6425					
Measured	Res.	DUT	Measured	Azimuth	Cable	Antenna	Measurement	Duty Cycle	FCC	Corrected	Delta	
Field Strength	Bandwidth	Frequency	Frequency	degrees	Factor	Gain	Distance	Correction	Limit	Field Strength	Limit	Polarity
(dBµV)	(Khz)	(Mhz)	(Mhz)		(dB)	(dB)	(Meters)	(dB)	(uV/M)	to 3M	(dB)	
Peak									at 3M	in uV/M Peak		
41.27	120	910	910	145	17.2	19.6	3	-6	50000	4,013.28	-21.91	Н
52.46	1000	910	1820	0.00	2.1	7.6	1	-6	500	214.23	-7.36	Н
37.10	1000	910	2730	0	2.2	9.2	1	-6	500	44.45	-21.02	Н
29.14	1000	910	3640	0	2.4	8.9	1	-6	500	17.57	-29.08	Н
29.56	1000	910	4550	0	2.5	10	1	-6	500	21.18	-27.46	Н
29.28	1000	910	5460	0	2.7	10	1	-6	500	20.98	-27.54	Н
30.72	1000	910	6370	0	2.8	12	1	-6	500	31.54	-24.00	Н
28.23	1000	910	7280	0	2.8	10.5	1	-6	500	19.92	-27.99	Н
28.44	1000	910	8190	0	3.0	10.3	1	-6	500	20.41	-27.78	Н
28.63	1000	910	9100	0	3.1	11.2	1	-6	500	23.41	-26.59	Н
	*Antenna fa	actors are p	re-calculate	d into Measure	d Field Stren	gth (dBµV)						
Unit Under Tes	Gojo	LTX-12		19XX-##-YYY			6/24/2013		Empty Bot	tle		

Limits for transmitters USA

FCC Part 15.249 Transmitter Test												
						GOJO	6425					
Measured	Res.	DUT	Measured	Azimuth	Cable	Antenna	Measurement	Duty Cycle	FCC	Corrected	Delta	
Field Strength	Bandwidth	Frequency	Frequency	degrees	Factor	Gain	Distance	Correction	Limit	Field Strength	Limit	Polarity
(dBµV)	(Khz)	(Mhz)	(Mhz)		(dB)	(dB)	(Meters)	(dB)	(uV/M)	to 3M	(dB)	
Peak									at 3M	in uV/M Peak		
51.28	120	910	910	145	17.2	19.6	3	-6	50000	12,705.74	-11.90	V
56.19	1000	910	1820	0.00	2.1	7.6	1	-6	500	329.14	-3.63	V
31.06	1000	910	2730	0	2.2	9.2	1	-6	500	22.18	-27.06	V
29.09	1000	910	3640	0	2.4	8.9	1	-6	500	17.47	-29.13	V
29.00	1000	910	4550	0	2.5	10	1	-6	500	19.86	-28.02	V
28.07	1000	910	5460	0	2.7	10	1	-6	500	18.25	-28.75	V
29.70	1000	910	6370	0	2.8	12	1	-6	500	28.05	-25.02	V
29.77	1000	910	7280	0	2.8	10.5	1	-6	500	23.79	-26.45	V
29.35	1000	910	8190	0	3.0	10.3	1	-6	500	22.67	-26.87	V
30.19	1000	910	9100	0	3.1	11.2	1	-6	500	28.01	-25.03	V
	*Antenna fa	actors are p	re-calculate	d into Measure	d Field Stren	gth (dBµV)						
Unit Under Tes	t:	Gojo	LTX-12	19XX-##-YYY			6/24/2013		Empty Bot	tle		

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PREAMP ON 29.28 dB N 5.45995 GHz 2Ø.Ø msec 10.00 MHz PEAK PEAK QP AVG -----SWP SPAN the way was a second and the second МКЛ DET: DET: ACTV MEAS KHZ н П ØØE FCCC HARM BW AVG www. 09: 27: 19 JUN 25, 2013 C G0J0#6425 LTX SMALL VA SBANNING WILLING BW 1.0 MHz **VIJ BD** CENTER 5.46000 GHz BØ.Ø HI# REF ATN 10 dB CORR C 10G 18 dB/ SC

PREAMP ON MKH 6.37Ø4Ø GHz 3Ø.72 dBµV monorthouse 2Ø.Ø msec 10.00 MHz PEAK PEAK QP AVG SWP SPAN the states and the states and DET: DET: ACTV MEAS 3ØØ KHz FCCC HARM 7 H man and the second of the second second second BW AVG 09:34:56 JUN 25, 2013 90 60 00#6425 LTX SMALL BW 1.0 MHz BØ.Ø dBUV CENTER 6.37000 GHz HEF HIF* ATN 1Ø dB SC FC VA SB CORR 10G dB/

PREAMP ON SPAN 10.00 MHZ SWP 20.0 msec MKR 7.28003 GHz 28.23 dBµV s ver PEAK QP AVG PEAK SWP DET: DET: ACTV MEAS **kHz** н 8 BØØE FCCC HARM BW AVG 09: 38: 24 JUN 25, 2013 BW 1.Ø MHz NU BD 0.08 CENTER 7.28000 GHz REF HIF# VA SB ATN 1Ø dB CORR LOG 1Ø dB/

PREAMP ON 28.44 dB N MKR 8.18988 GHz 2222 10.00 MHz 2Ø.Ø msec PEAK PEAK QP AVG and an appropriate the second and the second SPAN SWP DET: DET: ACTV MEAS **KHZ** τ σ 300 FCCC HARM BW AVG 09: 46: Ø5 JUN 25, 2013 00 60J0#6425 LTX SMALL BW 1.0 MHz BØ.Ø dBUV CENTER 8.19000 GHz 山工井 HEF 1Ø dB SC FC CORR ATN 10G 1Ø dB/



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enter	910 MH:	z			1011 200 1			<u> </u>	Span	10 MHz
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1Ø.ØØ MHz 2Ø.Ø msec MKH 3.6398Ø GHz 29.Ø9 dBµV PREAMP ON Nowwww. PEAK PEAK GP AVG and the second the sec SPAN SWP DET: DET: ACTV MEAS KHZ FCCC HARM 4 V BØØE MB AVG Ø9: 14: 21 JUN 25, 2013 Ø 60JO#6425 LTX SMALL BW 1.Ø MHz AN dBUN CENTER 3.64000 GHz SBWWW HIF # REF ATN 10 dB CORR U L 10G 18 dB/ ٨V SC





6.36983 GHz 29.7Ø dBµV PREAMP ON 2Ø.Ø msec 10.00 MHz PEAK PEAK QP AVG warmen warmen warment SPAN SWP MXЛ DET: DET: ACTV MEAS BW 300 KHZ > _ FCCC HARM - And - And AVG ------09: 32: 44 JUN 25, 2013 0 60J0#6425 LTX SMALL CENTER 6.37ØØØ GHZ #IF BW 1.Ø MHz **dB** µV 8Ø.Ø8 VA SBAWAW REF SC FC 1Ø dB LOG 10 dB/ ATN



10.00 MHz 20.0 msec PREAMP ON 29.35 dB W MKR 8.18988 GHz -----PEAK PEAK QP AVG SWP SPAN -warman - ward DET: DET: ACTV MEAS КНи FCCC HARM 9 V 300 Nor-M VA SBANNING WING WANNAM MANNAM AVG 09: 43: 39 JUN 25, 2013 0 60J0#6425 LTX SMALL BW 1.0 MHZ NUBD 0.08 CENTER 8.19000 GHz REF 山工業 ATN 10 dB CORR SC FC 10G 18/ dB/



GOJO Industries	Project Number:
Limited Approval Wireless Transmitter Module 1960-501-WHT	6425
Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is	
Smartlink Ready LTX-12 19XX-##-YYY Dispenser	

Test Datasheets-Bandwidth Test Minimum 6dB Bandwidth less than 500 KHz

2 Pages of Data to Follow

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g	15	a baa v	Hz						
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nte s B	r 910 W 120	MHz kHz		l	/BW 300 kHz		Sweep	5pan 4 ms (4	10 MH 101 pts
Siç	nal (3) 1 2	Freq 910 MHz 909.9 MHz	Peak Ampl dBµV 41.27 36.02	Qp Ampl dBµV	Avg Ampl Peak dBµV	۵ LL1 Peak ۵ L dB dl	.L2 B		
	3	910.1 MHz	33.45						
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GOJO Industries Limited Approval Wireless Transmitter Module 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC in the host where the host is Smartlink Ready LTX-12 19XX-##-YYY Dispenser Project Number: 6425

Measurement Protocol

The methodology used during the testing performed on the EUT in this report was ANSI C63.4:2009.

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

The data is compared to FCC Part 15.249 C limits.

Please have a company official review this report and sign.

- And A

<u>Annex</u>

Limited Approval Wireless Transmitter Module P/N: 1960-501-WHT Rev. 004 and 1930-513-910 Rev. ABC February 15, 2014

Limited Approval Wireless Transmitter Module Installed into Smartlink Ready LTX-12 19XX-##-YYY Dispenser



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£10-0961			REV	ECO ECR	RE
DMC NO					
		l			APPROVAL SIG
TYPE TRANSMITTER	GOJO Industries, Inc.				
			NOTES: 1. MATERIAL		
			FASSON COLOR	77113 : WHITE	
P/N 1960-501.	WHT Rev 004		FACEST ADHES	OCK: 0.7 MIL C IVE: S2001	LEAR BOPP
			LINER:	1.2 MIL PET	
FCC ID: 070	3-T4SG0910A		3. BARCODE	TO BE TYPE 128	S ARE CRITICAL. S TO CONTAIN SERIAL NUMBER

SN: XXXXXXX

- OR -





CAREFULLY PACKED TO AVOID DAMAGE IN QUANTITIES, IN UNIFORM SIZED SHIPPING CONTAINERS ON UNIFORM SIZED PALLET (48"LENGTH X 40"WIDTH X 66" TALL) CARTONS TO BE MARKED CLEARLY IN 1" HIGH MINIMUM LETTERS. WITH QUANTITY, GOJO PART, LOT, AND P.O. NUMBER.



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33 = PROVON[®] Waterless Surgical Scrub

19 = SMARTLINK[™] Ready LTX-12[™] dispenser family

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1931-04-BLK = PROVON[®] SMARTLINK[™] Ready LTX-12[™] dispenser chrome and black, 4-pack

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OJO PLAZA, SUITE 500 AKRON, OH 44311 AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE ED OR COPIED IN WHOLE OR PART, OR USED FOR FURNISHING INFORMATION TO OTHERS OR FOR ANY SE DETRIMENTAL TO THE INTEREST OF GOJO INDUSTRIES, INC. AND WILL BE RETURNED UPON REQUEST							
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Duty Cycle Chart

