

DIVERSIFIED

T.E.S.T.

TECHNOLOGIES, INC.

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

June, 19 2014

James Midyette
Genie Company
One Door Drive
Mt. Hope, OH 44660

Dear Mr. Midyette:

Enclosed is the test report for the NGX Transmitter 315/390 MHz garage door opener transmitter models G3T-A & O3T-A 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), and Industry Canada Site# 3034A-1.

We have completed our testing of Emissions to the FCC per 47 CFR Part 15.231 Class C for intentional radiators, and IC RSS 210 for Industry Canada Radio Standards Specification.

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.dttlabs.com.

Sincerely,



Steve Frierson
Technical Associate

DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. – TEST REPORT	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Test Report – Table of Contents

COVER PAGE	1
TEST INFORMATION	3
TEST REGULATIONS	4
EQUIPMENT UNDER TEST (EUT) TESTING OPERATION MODE	5
TEST SETUP PHOTOGRAPHS	6
EMISSIONS TESTING CONDITIONS	7
TRANSMISSION REQUIREMENTS	8
RATIONALE FOR COMPLIANCE WITH TRANSMISSION REQUIREMENTS	9
TEST DATA: TRANSMISSION REQUIREMENTS	10
TEST DATA: TRANSMISSION REQUIREMENTS	11
15.205 RESTRICTED BANDS OF OPERATION	21
15.109 RADIATED EMISSION LIMITS.	22

DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. – TEST REPORT	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Test Information

Laboratory

Diversified TEST Technologies, Inc.
4675 Burr Drive
Liverpool, NY 13088

Manufacturer

Genie Company
One Door Drive, Mt. Hope, OH 44660

Report Issue Date: June 19, 2014
Report Number: 6479-06192014- 15.231 (Edition 1)
Project Number: 6479

Date Received: June 2, 2014
Date Tested: June 2, 2014 – June 5, 2014

Product: NGX Transmitter 315/390 MHz
Models: G3T-A, & O3T-A

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

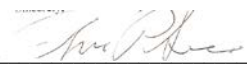
The testing performed by Diversified TEST Technologies, Inc. has shown that the product referenced above complies with the electromagnetic compatibility requirements according to the FCC per 47 CFR Part 15.23, and IC RSS 210 for Industry Canada Radio Standards Specification. . The results in this test report apply only to the NGX Transmitter 315/390 MHz, Models: G3T-A, & O3T-A.

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: _____
Steven Frierson
Technical Lab Manager

Date: June 19, 2014

Authorized by: 
Signature: _____
Tom Sims
President

Date: June 20, 2014

DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. – TEST REPORT	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Test Regulations

The tests were performed according to the following standards:

☒ FCC Part 15.231 & IC RSS 210 for Industry Canada RSS.	☐ Class A	☒ Class C
☒ FCC Part 15	☐ Class A	☒ Class B

☒ Certification
☐ Verification

Summary of Test Data

Name of Test	Paragraph Number	Results
Transmission Requirements	15.231 (a)	Complies
Radiated Emissions	15.231 (b)	Complies
Occupied Bandwidth	15.231 (c)	Complies
Frequency Tolerance	15.231 (d)	N/A
Alternate Field Strength Requirements	15.231 (e)	N/A
Power line Conducted Emissions	15.207	N/A

Note:

- 1.) The Device does not operate between 40.66 to 40.70 MHz
- 2.) The Device does not operate at a periodic rate
- 3.) The Device is battery powered

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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:

The NGX Transmitter is a remote garage door opener transmitter. It is a Dual Frequency Transmitter operating at both 315 MHz and 390 MHz for the use of opening garage doors. The transmitter utilizes OOK Modulation techniques. The G3T-A and O3T-A models are identical, the G3T-A is marked under the genie Brand name while the O3T-A is marked under the Overhead Door Brand name.

The EUT was powered with a 3 V battery during the collection of data included within this report.

Rationale for EUT setup / configuration: ANSI C63.4 (2003) / FCC Part 15.231,

IC RSS 210 for Industry Canada Radio Standards Specification.

Modifications:

None

Technical Contact:

James Midyette
Genie Company
One Door Drive
Mt. Hope, OH 44660

DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. – TEST REPORT

Genie Company
NGX Transmitter G3T-A & O3T-A

Project Number:
6479

Test Setup Photographs

1.1 Radiated Emissions / Occupied Bandwidth



1.2. Radiated Emissions above 1 GHz



DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. – TEST REPORT	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Emissions Testing Conditions

Radiated Emissions

The Radiated Emissions measurements, in the frequency range of 1 MHz – 6000 MHz, 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:

- ☒ 3 meters
☐ 10 meters
☐ 30 meters

Measurements above 1 GHz were made at a test distance of 1 Meter

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 #	Last Cal	Cal Due
Hewlett Packard	8596E	Spectrum Analyzer	3235A00144	5/16/14	5/16/15
Agilent	E7402A	EMC Analyzer	MY45103221	8/29/13	8/29/14
Electro-Metrics	LPA25	Log Periodic Antenna	1242	7/10/13	7/10/14
Electro-Metrics	RGA60	Ridge Horn Antenna	2981	12/9/13	12/9/14
Hewlett Packard	7550A	Plotter	2407A00476	N/A	N/A
	MFR-57500	Blue low-loss transmit cable	337	N/A	N/A
		Non-conductive wooden turntable		N/A	N/A
		10-meter open field test range, grounded with 1/4" x 1/4" hardware cloth		N/A	N/A

DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Transmission Requirements

Test Title: Transmission Requirements

Minimum Standard:

15.231 (a): Continuous transmissions such as voice, video, or data transmissions are not permitted.

15.231 (a) (1): A Manually operated transmitter shall employ a switch that will automatically deactivate within not more than 5 seconds after being released.

15.231 (a) (2): A transmitter activated automatically shall cease transmission within 5 seconds of activation.

15.231 (a) (3): Periodic Transmission at regular predetermined intervals are not permitted. However, polling or supervisory transmissions to determine system integrity of transmitters used in security or safety applications are allowed if the periodic rate of transmission does not exceed one transmission of not more than one second duration per hour for each transmitter.

15.231 (a) (4): Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life when activated to signal an alarm, may operate during the pendency of the alarm.

Test Results:

Complies

Test Data:

Compliance was determined by verification of technical specifications and functional tests on the equipment.

DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Rationale for Compliance with Transmission Requirements

15.231 (a) (1)	☒ Manual Activation	Tx deactivation time:
15.231 (a) (2)	☐ Automatic Activation	
15.231 (a) (3)	☐ Regular, predetermined transmissions ☐ Polling or supervisory transmissions	Tx rate and duration
15.231 (a) (4)	☐ Alarm device operating during the pendency of alarm condition ☒ Non-Alarm Device	

<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Test Data: Transmission Requirements

Deactivation Time 315 MHz

* Agilent 08:51:51 Jun 5, 2014

GENIE#6479 DEACTIVATION TIME 315 MHz

Ref 87 dB μ V

#Atten 0 dB

Mkr1 Δ 459.1 ms

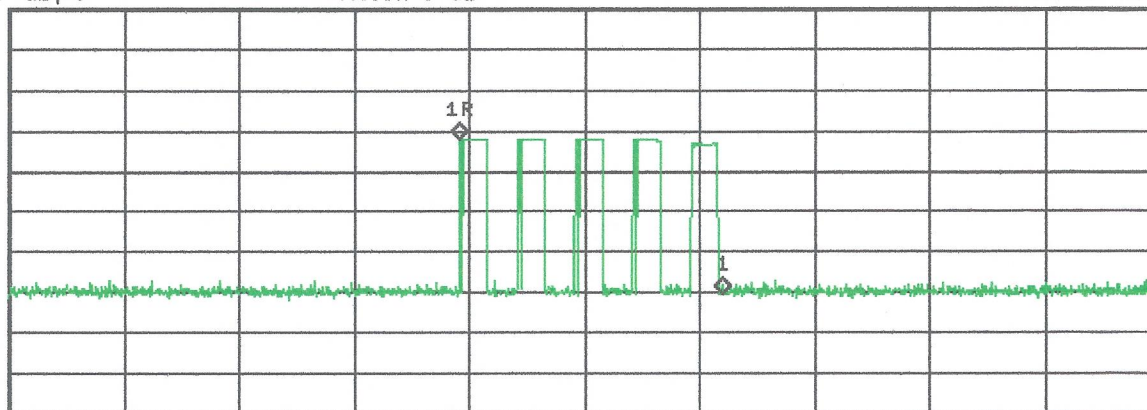
-38.07 dB

Peak

Log

10

dB/



Center 315 MHz

Res BW 100 kHz

VBW 100 kHz

Span 0 Hz

Sweep 2 s (1800 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	782.7 ms	54.94 dB μ V
1 Δ	(1)	Time	459.1 ms	-38.07 dB



<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Test Data: Transmission Requirements

Deactivation Time 390 MHz

* Agilent 09:01:32 Jun 5, 2014

GENIE#6479 DEACTIVATION TIME 390 MHz

Ref 87 dBμV

*Atten 0 dB

Mkr1 Δ 465.8 ms

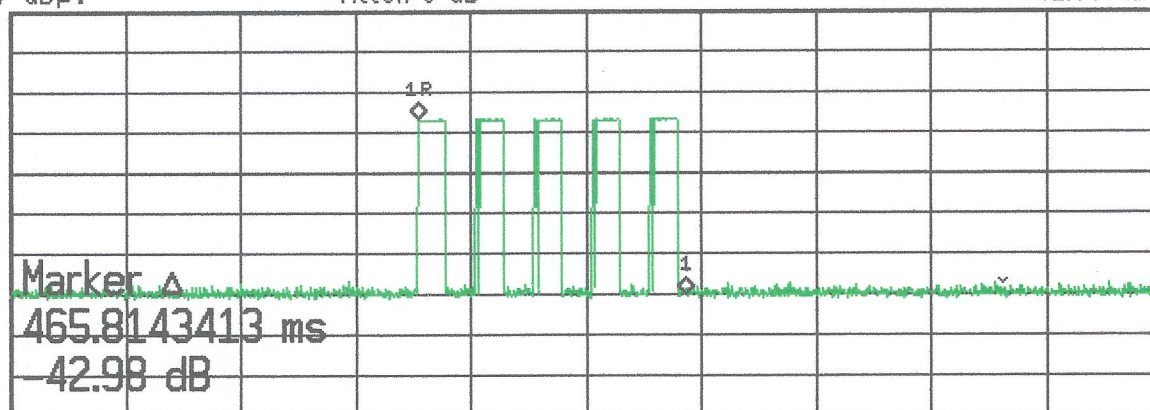
-42.98 dB

Peak

Log

10

dB/



Center 390 MHz

Res BW 100 kHz

VBW 100 kHz

Span 0 Hz

Sweep 2 s (1800 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	708.2 ms	60.01 dBμV
1Δ	(1)	Time	465.8 ms	-42.98 dB

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DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Radiated Emissions 15.231 (b)

Minimum Standard:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	¹ 1,250 to 3,750	¹ 125 to 375
174-260	3,750	375
260-470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1,250

Any emissions that fall within the restricted bands of 15.205 shall not exceed the following limits:

Frequency (MHz)	Field Strength (µV/m @ 3m)	Field Strength (dB @ 3m)
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above 960	500	54.0

Test Result: **Complies, see attached data table.**

Above 1 GHz a spectrum analyzer is used to measure emission levels. The spectrum analyzer resolution bandwidth was set to 1 MHz and video bandwidth was set to 1 MHz.

DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT**Genie Company**

NGX Transmitter G3T-A & O3T-A

Project Number:

6479

Test Data: Radiated Emissions

Freq. (MHz)	Antenna Polarization	Meter Reading (dBuV)	LESS Duty Factor (dB)	ADD Cable Factor (dB)	ADD Antenna Factor (dB)	LESS 1 m to 3 m Distance Factor (dB)	Corrected Reading (dBuV/m)	FCC Spec Limit (dBuV/m)	Margin (dB)	Results	Comments
315	H	56.8	-13.1	7.2	15.1	0.0	66.0	75.6	-9.6	Pass	
	V	53.7	-13.1	7.2	15.1	0.0	62.9	75.6	-12.7	Pass	
630	H	23.9	-13.1	12.4	19.7	0.0	42.9	55.6	-12.7	Pass	
	V	23.3	-13.1	12.4	19.7	0.0	42.3	55.6	-13.3	Pass	
945	H	15.9	-13.1	17.6	23.5	0.0	43.9	55.6	-11.7	Pass	
	V	15.8	-13.1	17.6	23.5	0.0	43.8	55.6	-11.8	Pass	
1260	H	26.3	-13.1	0.3	25.0	-9.5	29.0	55.6	-26.6	Pass	
	V	27.9	-13.1	0.3	25.0	-9.5	30.6	55.6	-25.0	Pass	
1575	H	26.6	-13.1	0.5	26.3	-9.5	30.8	54.0	-23.2	Pass	
	V	31.3	-13.1	0.5	26.3	-9.5	35.5	54.0	-18.5	Pass	
1890	H	29.8	-13.1	0.4	28.1	-9.5	35.7	55.6	-19.9	Pass	
	V	32.7	-13.1	0.4	28.1	-9.5	38.6	55.6	-17.0	Pass	
2205	H	34.4	-13.1	0.2	28.9	-9.5	40.9	54.0	-13.1	Pass	
	V	38.4	-13.1	0.2	28.9	-9.5	44.9	54.0	-9.1	Pass	
2520	H	35.5	-13.1	0.3	29.3	-9.5	42.4	55.6	-13.2	Pass	
	V	37.7	-13.1	0.3	29.3	-9.5	44.6	55.6	-11.0	Pass	
2835	H	29.4	-13.1	0.3	30.1	-9.5	37.2	54.0	-16.8	Pass	
	V	33.1	-13.1	0.3	30.1	-9.5	40.9	54.0	-13.1	Pass	
3150	H	29.1	-13.1	0.4	31.0	-9.5	37.9	55.6	-17.7	Pass	
	V	28.8	-13.1	0.4	31.0	-9.5	37.6	55.6	-18.0	Pass	

Freq. (MHz)	Antenna Polarization	Meter Reading (dBuV)	LESS Duty Factor (dB)	ADD Cable Factor (dB)	ADD Antenna Factor (dB)	LESS 1 m to 3 m Distance Factor (dB)	Corrected Reading (dBuV/m)	FCC Spec Limit (dBuV/m)	Margin (dB)	Results	Comments
390	H	61.4	-12.8	9.5	15.8	0.0	73.9	79.2	-5.3	Pass	
	V	57.8	-12.8	9.5	15.8	0.0	70.3	79.2	-8.9	Pass	
780	H	13.9	-12.8	17.0	21.6	0.0	39.7	59.2	-19.5	Pass	
	V	10.6	-12.8	17.0	21.6	0.0	36.4	59.2	-22.8	Pass	
1170	H	26.3	-12.8	0.3	24.7	-9.5	29.0	54.0	-25.0	Pass	Noise Floor
	V	26.3	-12.8	0.3	24.7	-9.5	29.0	54.0	-25.0	Pass	Noise Floor
1560	H	29.8	-12.8	0.5	26.2	-9.5	34.2	54.0	-19.8	Pass	
	V	35.3	-12.8	0.5	26.2	-9.5	39.7	54.0	-14.3	Pass	
1950	H	29.3	-12.8	0.5	28.4	-9.5	35.9	59.2	-23.3	Pass	Noise Floor
	V	37.0	-12.8	0.5	28.4	-9.5	43.6	59.2	-15.6	Pass	Noise Floor
2340	H	34.8	-12.8	0.3	29.0	-9.5	41.8	54.0	-12.2	Pass	
	V	31.0	-12.8	0.3	29.0	-9.5	38.0	54.0	-16.0	Pass	
2730	H	30.5	-12.8	0.2	29.8	-9.5	38.2	54.0	-15.8	Pass	
	V	35.8	-12.8	0.2	29.8	-9.5	43.5	54.0	-10.5	Pass	
3120	H	27.5	-12.8	0.4	30.9	-9.5	36.5	59.2	-22.7	Pass	Noise Floor
	V	27.6	-12.8	0.4	30.9	-9.5	36.6	59.2	-22.6	Pass	Noise Floor
3510	H	27.3	-12.8	0.4	32.2	-9.5	37.6	54.0	-16.4	Pass	Noise Floor
	V	27.4	-12.8	0.4	32.2	-9.5	37.7	54.0	-16.3	Pass	Noise Floor
3900	H	27.1	-12.8	0.1	33.0	-9.5	37.9	54.0	-16.1	Pass	Noise Floor
	V	28.5	-12.8	0.1	33.0	-9.5	39.3	54.0	-14.7	Pass	Noise Floor

The EUT was tested on all three axis

The EUT was tested with fresh batteries

The spectrum was searched from 30 MHz to 6 GHz

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<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Duty Cycle Correction

Short Pulses

* Agilent 13:01:02 Jun 2, 2014

GENIE#6479 ANT:HORIZONTAL 1M X AXIS

Ref 76.99 dB μ V

#Atten 0 dB

Mkr1 Δ 200 μ s

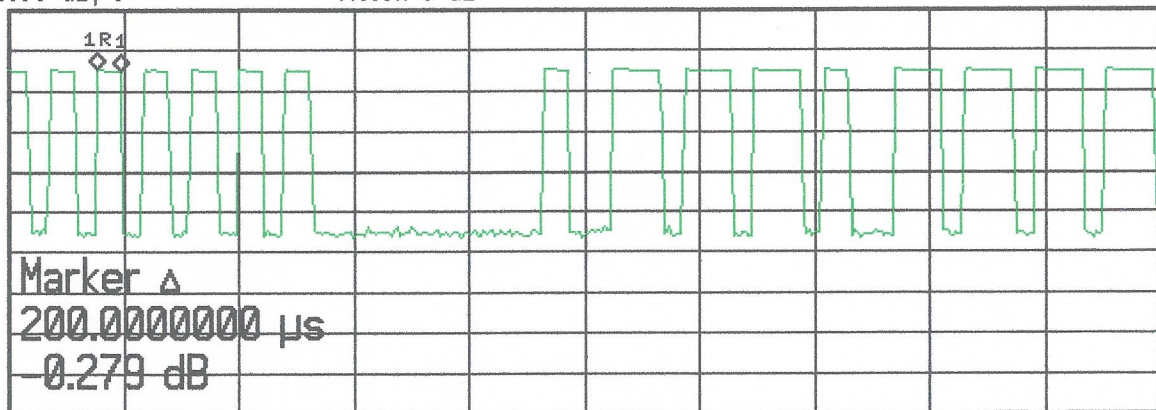
-0.279 dB

Peak

Log

10

dB/



Center 315 MHz

Res BW 1 MHz

VBW 1 MHz

Span 0 Hz

Sweep 10 ms (401 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	775 μ s	62.87 dB μ V
1 Δ	(1)	Time	200 μ s	-0.279 dB



* Agilent 15:58:00 Jun 3, 2014

GENIE#6479 DUTY CYCLE

Cntr1 Δ -200 Hz

Ref 76.99 dB μ V

#Atten 0 dB

-1.389 dB

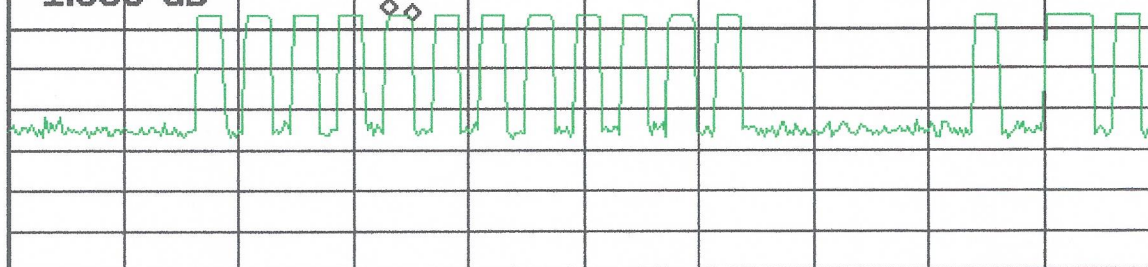
Peak
Log
10
dB/

Marker Δ

200.5012531 μ s

-1.389 dB

1P1



Center 390 MHz

Span 0 Hz

Res BW 1 MHz

#VBW 1 MHz

Sweep 10 ms (400 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	3.308 ms	40.23 dB μ V
1 Δ	(1)	Time	200.5 μ s	-1.389 dB



<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Duty Cycle Correction

Wide Pulses

* Agilent 13:05:49 Jun 2, 2014

GENIE#6479 ANT:HORIZONTAL 1M X AXIS

Ref 76.99 dBμV

#Atten 0 dB

Mkr1 Δ 400 μs

-0.282 dB

Peak
Log
10
dB/



Center 315 MHz

Res BW 1 MHz

VBW 1 MHz

Span 0 Hz

Sweep 10 ms (401 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	7.7 ms	62.12 dBμV
1Δ	(1)	Time	400 μs	-0.282 dB

* Agilent 15:54:50 Jun 3, 2014

GENIE#6479 DUTY CYCLE

Cntr1 Δ -56 Hz

Ref 76.99 dB μ V

#Atten 0 dB

-0.418 dB

Peak

Log

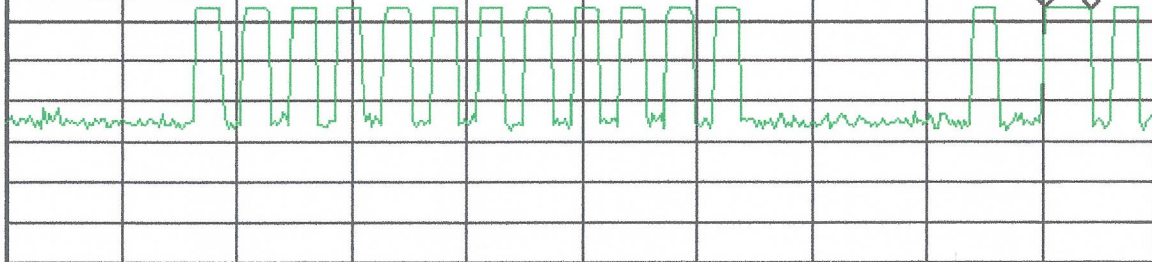
10

dB/

Marker Δ

401.0025063 μ s

-0.418 dB



Center 390 MHz

Span 0 Hz

Res BW 1 MHz

#VBW 1 MHz

Sweep 10 ms (400 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	9.023 ms	40.23 dB μ V
1A	(1)	Time	401 μ s	-0.418 dB

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Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Duty Cycle Correction

100 ms

315 MHz Duty Cycle Correction at 100 ms

33 Wide Pulses = (t=13.2 ms)

45 Narrow Pulses = (t=9 ms)

22.2 ms total

$20 \log (22.2/100) = -13.1 \text{ dB}$

390 MHz Duty Cycle Correction at 100 ms

37 Wide Pulses = (t=14.8 ms)

41 Narrow Pulses = (t=8.2 ms)

23 ms total

$20 \log (23/100) = -12.8 \text{ dB}$

* Agilent 13:43:32 Jun 2, 2014

GENIE#6479 ANT:HORIZONTAL 1M X AXIS

Mkr1 Δ 47.03 ms

Ref 76.99 dB μ V

*Atten 0 dB

-46.23 dB

Peak
Log
10
dB/



Center 315 MHz

Span 0 Hz

Res BW 100 kHz

VBW 100 kHz

Sweep 100 ms (1800 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	31.85 ms	65.16 dB μ V
1 Δ	(1)	Time	47.03 ms	-46.23 dB

* Agilent 15:38:45 Jun 3, 2014

GENIE#6479 DUTY CYCLE

Mkr1 Δ 46.91 ms

Ref 76.99 dBμV

*Atten 0 dB

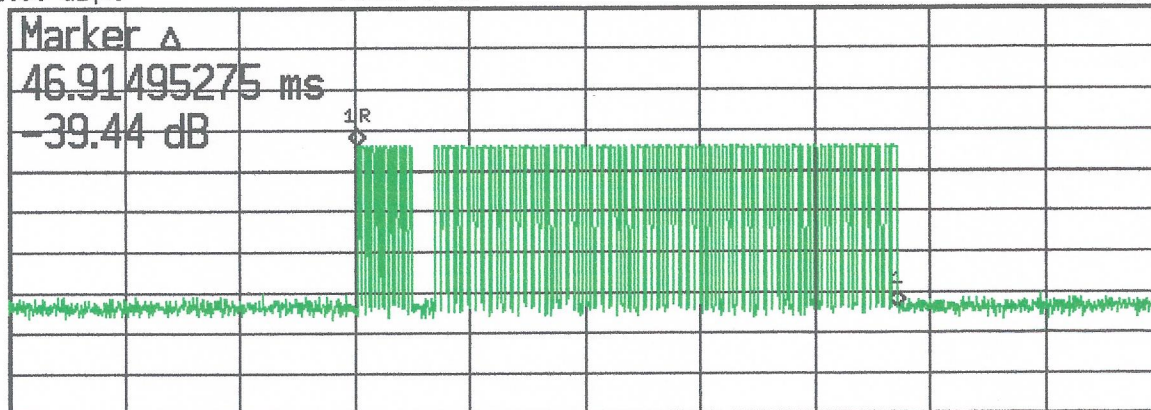
-39.44 dB

Peak

Log

10

dB/



Center 390 MHz

Span 0 Hz

Res BW 100 kHz

VBW 100 kHz

Sweep 100 ms (1800 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	38.24 ms	42.92 dBμV
1Δ	(1)	Time	46.91 ms	-39.44 dB

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<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Duty Cycle Correction

50 ms

* Agilent 13:31:39 Jun 2, 2014

GENIE#6479 ANT:HORIZONTAL 1M X AXIS

Ref 76.99 dB μ V

*Atten 0 dB

Peak

Log

10

dB/

V1 S2

S3 LC

AA

PA

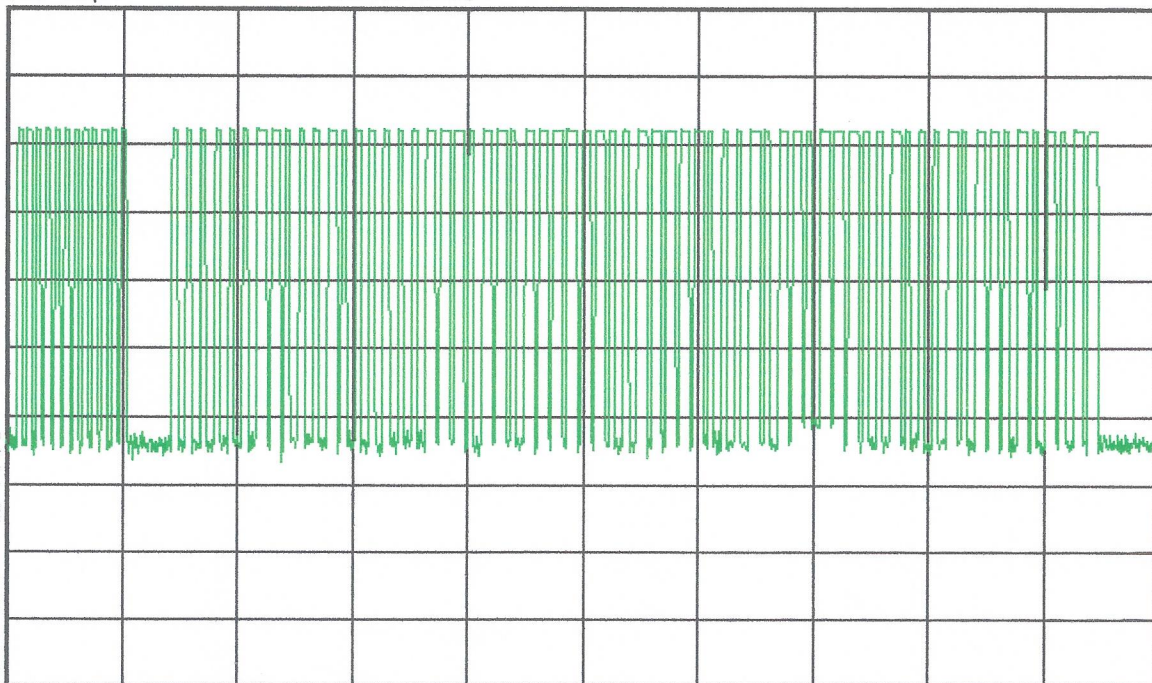
Center 315 MHz

Res BW 100 kHz

VBW 100 kHz

Span 0 Hz

Sweep 50 ms (1500 pts)



Agilent 15:49:49 Jun 3, 2014

GENIE#6479 DUTY CYCLE

Cntr1 390.001744 MHz

Ref 76.99 dBμV

#Atten 0 dB

3.039 dBμV

Peak
Log
10
dB/

Marker
47.94330183 ms
3.039 dBμV

V1 S2
S3 FC
AA

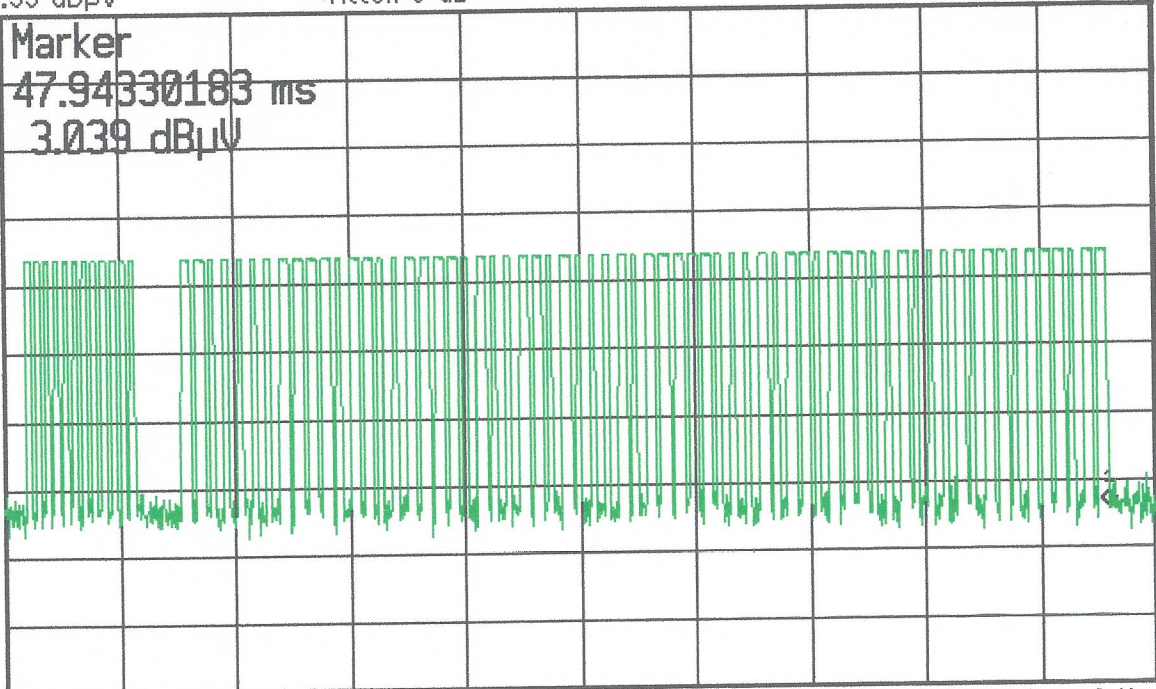
PA

Center 390 MHz

Res BW 100 kHz

VBW 100 kHz

Span 0 Hz
Sweep 50 ms (1800 pts)



DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Occupied Bandwidth

Minimum Standard:

15.231 (c) The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Test Results: Complies, see attached graphs

<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Test Data - Occupied Bandwidth 315 MHz

* Agilent 08:13:34 Jun 5, 2014

GENIE#6479 OCCUPIED BANDWIDTH 315 MHz

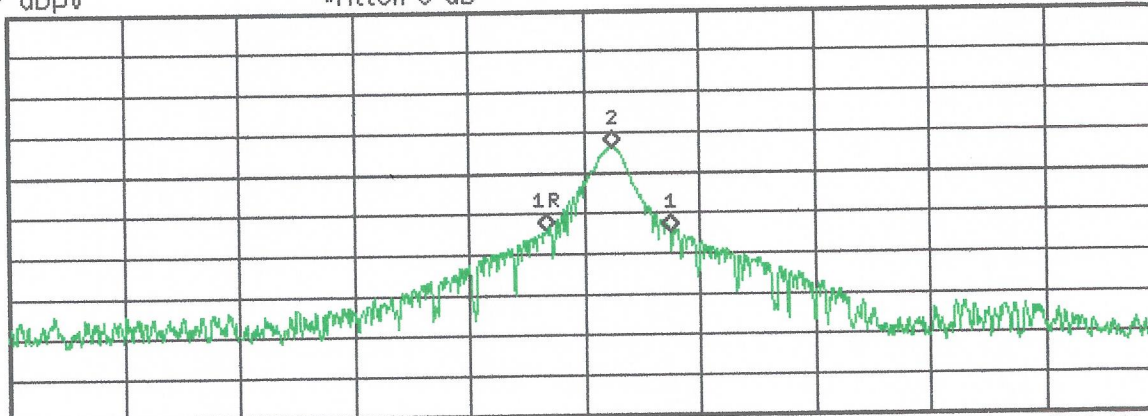
Ref 87 dBμV

*Atten 0 dB

Mkr1 Δ 53.362 kHz

-0.886 dB

Peak
Log
10
dB/



Center 315 MHz

Span 500 kHz

*Res BW 10 kHz

VBW 10 kHz

*Sweep 17.99 ms (1800 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Freq	314.983740 MHz	33.12 dBμV
1Δ	(1)	Freq	53.362 kHz	-0.886 dB
2	(1)	Freq	315.012090 MHz	53.15 dBμV

<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Test Data - Occupied Bandwidth 390 MHz

* Agilent 08:28:19 Jun 5, 2014

GENIE#6479 OCCUPIED BANDWIDTH 390 MHz

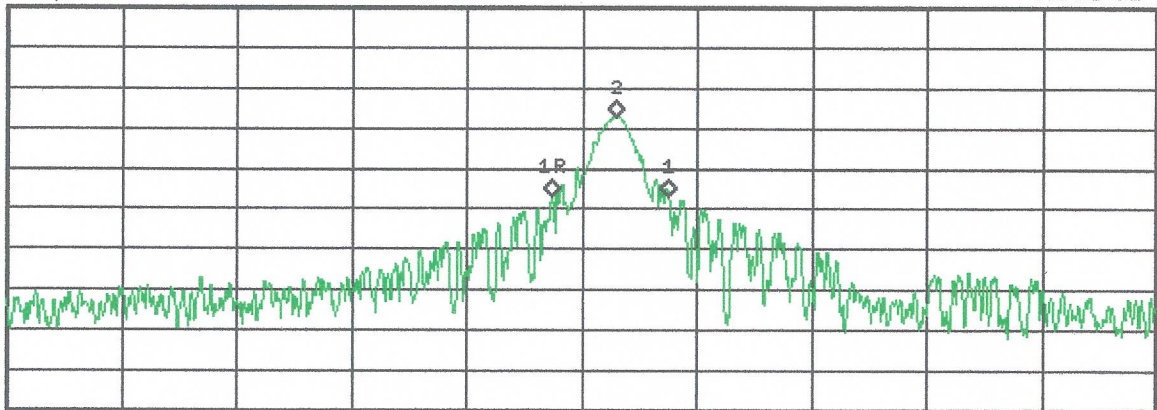
Mkr1 Δ 50.583 kHz

Ref 87 dB μ V

*Atten 0 dB

0.302 dB

Peak
Log
10
dB/



Center 390 MHz

Span 500 kHz

*Res BW 10 kHz

VBW 10 kHz

*Sweep 17.99 ms (1800 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Freq	389.987076 MHz	39.99 dB μ V
1 Δ	(1)	Freq	50.583 kHz	0.302 dB
2	(1)	Freq	390.014591 MHz	59.95 dB μ V

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DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT**Genie Company**
NGX Transmitter G3T-A & O3T-AProject Number:
6479***Restricted Bands of Operation*****15.205 Restricted bands of operation.**

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT	
Genie Company NGX Transmitter G3T-A & O3T-A	Project Number: 6479

Spurious Emissions

Minimum Requirements:

15.109 Radiated emission limits.

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of emission (MHz)	Field strength (microvolts/meter)
30-88	100
88-216	150
216-960	200
Above 960	500

Test Result: **Complies; highest spurious emission level recorded from 1 MHz - 6 GHz is 33.6 dBuV at 2.345 MHz.**

15.209 Radiated emission limits; general requirements.

(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3