



166 South Carter, Genoa City, WI 53128

Company:	Noah Technologies Inc
Model Tested:	MK3.4
Report Number:	18378
Project Number:	5473

i. **Cover Page**

Code of Federal Regulations 47 Part 15 – Radio Frequency Devices

Subpart C – Intentional Radiators

Section 15.231(e)

Periodic operation in the band 40.66 - 40.70 MHz
and above 70 MHz

THE FOLLOWING **MEETS** THE ABOVE TEST SPECIFICATION

Formal Name:	Intelli-Sensor
Kind of Equipment:	Water leak detector / transmitter
Frequency Range:	433.92 MHz
Test Configuration:	Battery operated transmitter tested for intentional radiated emissions
Model Number(s):	MK3.4
Model(s) Tested:	MK3.4
Serial Number(s):	NA - prototype
Date of Tests:	October 9-10, 2012/ redesigned & tested March 15, 2013
Test Conducted For:	Noah Technologies Inc 24230 Whip O Will Lane Bonita Springs, FL 34135, USA

NOTICE: “This test report relates only to the items tested and must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government”. Please see the "Description of Test Sample" page listed inside of this report.

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ii. Signature Page

SIGNATURE PAGE

Tested By:

Craig Brandt
Test Engineer

Reviewed By:

William Stumpf
OATS Manager

Approved By:

Brian Mattson
General Manager



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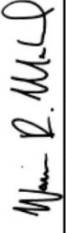


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iv. NVLAP Certificate of Accreditation

United States Department of Commerce National Institute of Standards and Technology NVLAP® Certificate of Accreditation to ISO/IEC 17025:2005	
NVLAP LAB CODE: 100276-0 D.L.S. Electronic Systems, Inc. Wheeling, IL	
is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for: ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).	
2012-10-01 through 2013-09-30 Effective dates	  For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)



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1.0 Summary of Test Report

It was determined that the Noah Technologies Inc Intelli-Sensor, Model MK3.4, complies with the requirements of CFR 47 Part 15 Subpart C Section 15.231(e).

Subpart C Section 15.231 Applicable Technical Requirements Tested:

Section	Description	Procedure	Note	Compliant?
15.231(c)	20 dB Emission Bandwidth	ANSI C63.4-2009 & ANSI C63.10-2009	1	Yes
15.231(e)	Duration of Each Transmission	ANSI C63.4-2009 & ANSI C63.10-2009	1	Yes
15.231(e)	Silent Period Between Transmissions	ANSI C63.4-2009 & ANSI C63.10-2009	1	Yes
15.231(e) 15.205	Field Strength of Emissions -Fundamental & Spurious	ANSI C63.4-2009 & ANSI C63.10-2009	1	Yes
15.35(c)	Duty Cycle Correction for Pulsed operation	ANSI C63.4-2009 & ANSI C63.10-2009	1	Yes

Note 1: Radiated emission measurement.

2.0 Introduction

In March, 2013 the Intelli-Sensor, Model MK3.3, as provided from Noah Technologies Inc. was tested to the requirements of CFR 47 Part 15 Subpart C Section 15.231(e). To meet these requirements, the procedures contained within this report were performed by personnel of D.L.S Electronic Systems, Inc.

3.0 Test Facilities

D.L.S. Electronic Systems, Inc. is a full service EMC/Safety Testing Laboratory accredited to ISO 17025. NVLAP Certificate and Scope can be viewed at <http://www.dlsemc.com/certificate>. Our facilities are registered with the FCC, Industry Canada, and VCCI.

Wisconsin Test Facility:

D.L.S. Electronic Systems, Inc.
166 S. Carter Street
Genoa City, Wisconsin 53128

Wheeling Test Facility:

D.L.S. Electronic Systems, Inc.
1250 Peterson Drive
Wheeling, IL 60090



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4.0 Description of Test Sample

Description:

The sensor is placed on the floor. If a water leak is detected then it sends a wireless signal to a receiver that closes a water valve supplying the house. The sensor also beeps to indicate the leak location. Operation of this device during this condition requires compliance to FCC Pt.15.231(e).

Type of Equipment / Frequency Range:

Transmitter for periodic operation / 433.92 MHz

Physical Dimensions of Equipment Under Test:

Length: 4 in. x Width: 2 in. x Height: 1 in.

Power Source:

4.5 V DC (three 1.5 volt, size AAA batteries.)

Internal Frequencies:

4 MHz

Transmit / Receive Frequencies Used For Test Purpose:

433.92 MHz

Type of Modulation(s) / Antenna Type:

OOK / $\frac{1}{4}$ wavelength wire antenna

Description of Circuit Board(s) / Part Number:

MK3.4 sensor PCB	PWB Rev-H
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5.0 Test Equipment

A list of the equipment used can be found in the table below. All primary equipment was calibrated against known reference standards with a verified traceable path to NIST.

D.L.S. Wisconsin – OATS 2

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Dates	Cal Due Dates
Receiver	Rohde & Schwarz	ESI 26	837491/010	20 Hz – 26 GHz	1-3-13	1-3-14
Antenna	EMCO	3104C	00054892	20 MHz – 200 MHz	9-13-12	9-13-14
Antenna	EMCO	3146	1205	200 MHz – 1 GHz	9-19-12	9-19-14
High Pass Filter	Q Microwave	100460	002	1-18GHz	5-18-12	5-18-13
Preamp	Miteq	AMF-7D-01001800-22-10P	1777990	1GHz-18GHz	2-15-13	2-15-14
Horn Antenna	EMCO	3115	6204	1-18GHz	5-6-11	5-6-13

6.0 Test Arrangements

Radiated Emissions Measurement Arrangement:

All radiated emission measurements were performed at D.L.S. Electronic Systems, Inc. and set up according to ANSI C63.4-2009 and ANSI C63.10-2009, unless otherwise noted. Description of procedures and measurements can be found in Appendix B – Measurement Data. See Appendix A for additional photos of the test set up.

Unless otherwise noted, the bandwidth of the measuring receiver / analyzer used during testing is shown below.

Frequency Range	Bandwidth (-6 dB)
10 to 150 kHz	200 Hz
150 kHz to 30 MHz	9 kHz
30 MHz to 1 GHz	120 kHz
Above 1 GHz	1 MHz



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7.0 Test Conditions

Test Conditions recorded during test:

Temperature and Humidity:

70°F at 20% RH

Battery Voltage:

4.5 VDC

8.0 Modifications Made To EUT For Compliance

No modifications made to this unit for FCC compliance.

9.0 Additional Descriptions

Two units were supplied for testing. One unit was configured to continuously transmit a pulsed signal, and the other was an unmodified unit. Battery voltage was confirmed before and after each test.

10.0 Results

Measurements were performed in accordance with ANSI C63.4-2009 and ANSI C63.10-2009. Graphical and tabular data can be found in Appendix B at the end of this report.

11.0 Conclusion

The Intelli-Sensor, Model MK3.4, as provided from Noah Technologies Inc. tested in March, 2013 **meets** the requirements of CFR 47 Part 15 Subpart C Section 15.231(e).



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Appendix A – Test Photos

Photo Information and Test Setup:

Item: Intelli-Sensor transmitter, Model MK3.4

Radiated Emissions



Appendix A

Radiated Emissions – Above 1 GHz





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Appendix B – Measurement Data

1.0 Emission Bandwidth – 20 dB

Rule Part:

Section 15.231 (c)

Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

Limit:

Section 15.231 (c):

$433.92 \text{ MHz} \times 0.25\% = 1.08 \text{ MHz}$

Results:

Compliant
20 dB bandwidth: **3.77 kHz**

Sample Equation(s):

None

Notes:

This was a radiated emissions measurement. The maximum field strength of the emission was determined and the bandwidth was measured from the points at 20 dB down from the modulated carrier.



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Test Date: 03-15-2013
Company: Noah Technologies
EUT: MK3.4 Intelli-Sensor
Test: 20 dB Bandwidth
Operator: Craig B

Comment: SPAN 2 to 5 times occupied bandwidth
RBW between 1% and 5% of occupied bandwidth

Limit: The bandwidth of the emission shall be no wider than 0.25% of the center frequency.
= 1.08 MHz.



Center 434.0215431 MHz 1 kHz/ Span 10 kHz

Annotations:

- D1 44.95 dBμV
- D2 24.95 dBμV
- 1 25.41 dBμV 434.01942006 MHz
- 2 -0.12 dB 3.76753507 kHz
- 1 44.95 dBμV 434.02153307 MHz
- 2 25.41 dBμV 434.01942006 MHz

Date: 15.MAR.2013 07:50:20



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Appendix B

2.0 Duration of each transmission

Rule Part:

15.231 (e)

Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

Limit:

The duration of each transmission shall not be greater than one second.

Results:

Compliant
Duration of each transmission = 67.13 ms.

Sample Equation(s):

None

Notes:

None



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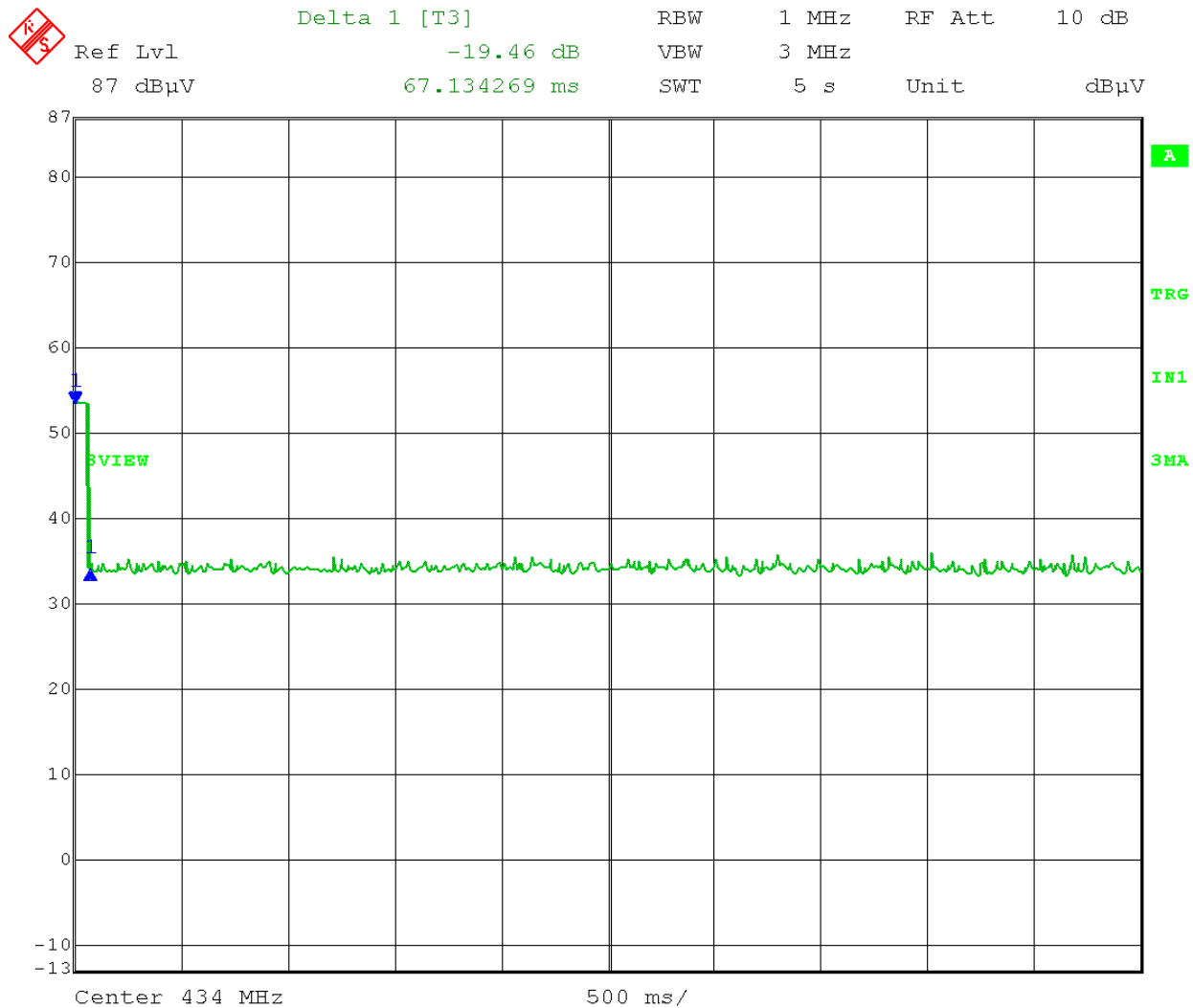
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Test Date: 03-15-2013
Company: Noah Technologies
EUT: MK3.4 Intelli-Sensor Transmitter
Test: Dwell Time / automatic shut-off
Operator: Craig B

Limit: The duration of each transmission shall not be greater than one second.

Duration of each transmission = 67.13 ms.



Date: 15.MAR.2013 12:51:23



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Appendix B

3.0 Silent period between transmissions

Rule Part:

15.231 (e)

Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

Limit:

The silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

Results:

Compliant
30 times the duration of the transmission = 2.01 seconds.
Silent period between transmissions = 11.72 seconds.

Sample Equation(s):

$30 \times 67.13 \text{ ms} = 2013.9 \text{ ms} = 2.01 \text{ seconds}$

Notes:

None



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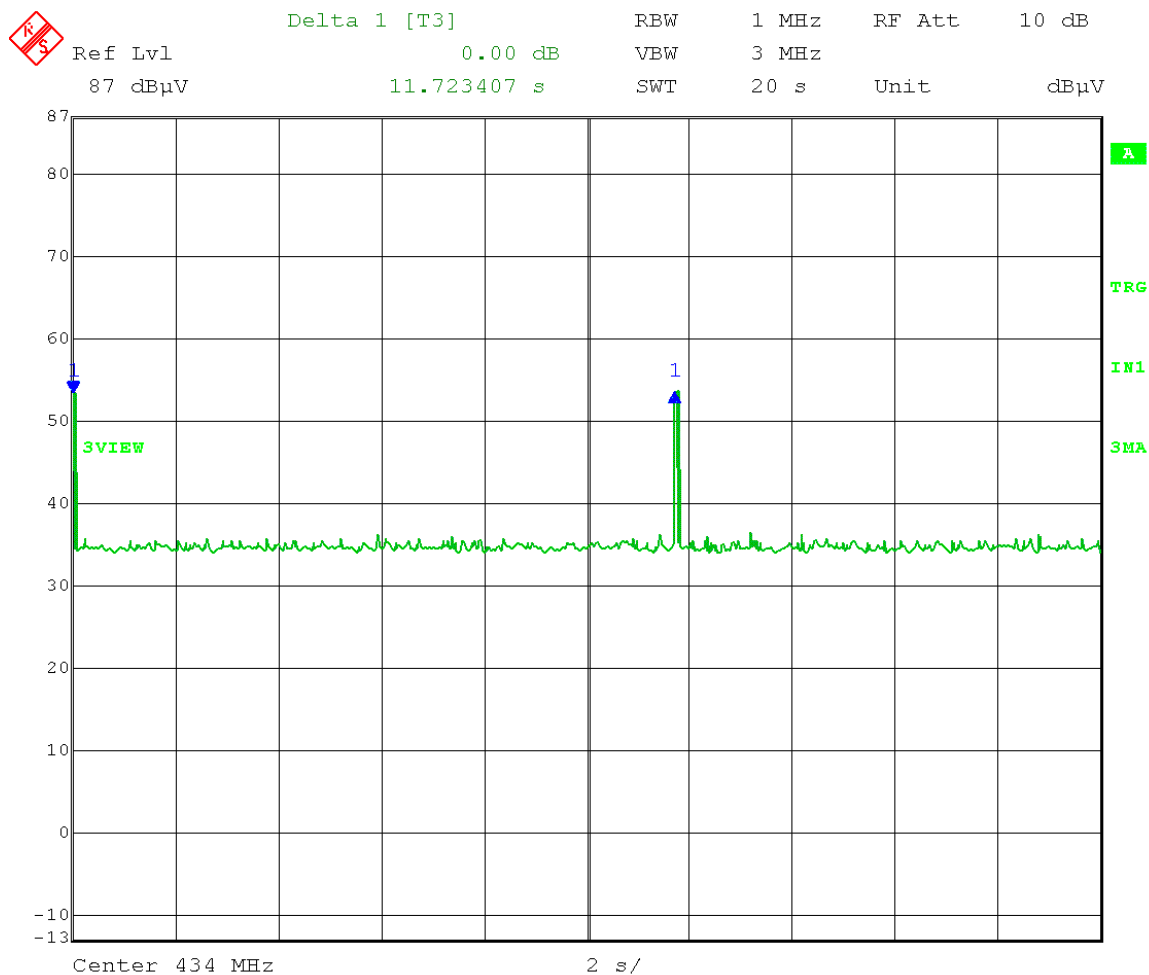
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Model Tested:
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Test Date: 03-15-2013
Company: Noah Technologies
EUT: MK3.4 Intelli-Sensor
Test: Silent period between transmissions
Operator: Craig B
Comment: Frequency: 433.92 MHz
Limit: The silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.
30 x transmission duration = 2.01 seconds

Silent period between transmissions: 11.72 seconds



Date: 15.MAR.2013 12:53:58



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Model Tested: MK3.4
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4.0 Field Strength of Emissions – Fundamental and Spurious

Rule Part:

15.231 (e) including 15.205

Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emission (microvolts/meter)
40.66-40.70	1,000	100
70-130	500	50
130-174	500 to 1,500 ¹	50 to 150 ¹
174-260	1,500	150
260-470	1,500 to 5,000 ¹	150 to 500 ¹
Above 470	5,000	500

¹ Linear interpolations.

Limit:

Fundamental (F) $\mu\text{V/m}$ at 3 meters: 4398.667 $\mu\text{V/m}$ at 3 meters at 433.92 MHz.

The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

Limit on Peak emissions is 20 dB above the average limits shown in the above table (from part 15.231(e)).

Results:

Compliant

Sample Equation(s):

$$20 \cdot \log(4398.667) = 72.86 \text{ dB}\mu\text{V/m at 3 meters}$$

Final Corrected = Total Level - Duty Cycle Correction

Margin = Limit - Final Corrected

Level = Total Level - System Loss - Antenna Factor

Notes:

The emissions were measured of the fundamental and spurious at a distance of three meters between the EUT and the measuring antenna. Compliance is determined by comparing peak data, minus duty cycle correction, to the average limit.

Radiated Fundamental and Spurious Emissions – 30 MHz to 4.5 GHz

Tested at a 3 Meter Distance

EUT: MK3.4 Intelli-Sensor
Manufacturer: Noah Technologies
Operating Condition: 70 deg F; 20% R.H.
Test Site: Site 2
Operator: Craig B
Test Specification: FCC Part 15.231(e) and 15.205
Comment: Transmit frequency: 433.92 MHz
Date: 03-15-2013
Notes: All other emissions at least 20 dB under the limit.

Frequency (MHz)	Measurement Type	Antenna Polarization	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Duty Cycle Correction (dB)	Total Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	EUT Angle (deg)	Comment
434.01	Max Peak	Vert	60.22	16.68	5.0	0	81.9	92.86	11.0	1.40	190	Fundamental
434.01	Average	Vert	60.22	16.68	5.0	-9.99	71.9	72.86	0.9	1.40	190	Fundamental
434.01	Max Peak	Horz	60.41	16.68	5.0	0	82.1	92.86	10.8	2.10	90	Fundamental
434.01	Average	Horz	60.41	16.68	5.0	-9.99	72.1	72.86	0.8	2.10	90	Fundamental
868.02	Max Peak	Vert	22.39	23.12	7.0	0	52.5	74	21.5	1.80	315	Harmonic
868.02	Average	Vert	22.39	23.12	7.0	-9.99	42.5	54	11.5	1.80	315	Harmonic
868.02	Max Peak	Horz	30.95	23.12	7.0	0	61.1	74	12.9	1.00	90	Harmonic
868.02	Average	Horz	30.95	23.12	7.0	-9.99	51.1	54	2.9	1.00	90	Harmonic
1302.03	Max Peak	Vert	82.33	24.50	-54.6	0	52.2	74	21.8	1.80	190	Restricted Band
1302.03	Average	Vert	82.33	24.50	-54.6	-9.99	42.2	54	11.8	1.80	190	Restricted Band
1302.03	Max Peak	Horz	90.19	24.50	-54.6	0	60.1	74	13.9	1.10	90	Restricted Band
1302.03	Average	Horz	90.19	24.50	-54.6	-9.99	50.1	54	3.9	1.10	90	Restricted Band
1736.04	Max Peak	Vert	76.93	26.15	-54.1	0	49.0	74	25.0	1.30	150	Harmonic
1736.04	Average	Vert	76.93	26.15	-54.1	-9.99	39.0	54	15.0	1.30	150	Harmonic
1736.04	Max Peak	Horz	76.69	26.15	-54.1	0	48.7	74	25.3	1.70	100	Harmonic
1736.04	Average	Horz	76.69	26.15	-54.1	-9.99	38.8	54	15.3	1.70	100	Harmonic
2170.05	Max Peak	Vert	81.50	27.83	-53.8	0	55.5	74	18.5	1.50	180	Harmonic
2170.05	Average	Vert	81.50	27.83	-53.8	-9.99	45.5	54	8.5	1.50	180	Harmonic
2170.05	Max Peak	Horz	81.62	27.83	-53.8	0	55.7	74	18.4	2.00	100	Harmonic
2170.05	Average	Horz	81.62	27.83	-53.8	-9.99	45.7	54	8.3	2.00	100	Harmonic

Radiated Fundamental and Spurious Emissions – 30 MHz to 4.5 GHz

Tested at a 3 Meter Distance

EUT: MK3.4 Intelli-Sensor
Manufacturer: Noah Technologies
Operating Condition: 70 deg F; 20% R.H.
Test Site: Site 2
Operator: Craig B
Test Specification: FCC Part 15.231(e) and 15.205
Comment: Transmit frequency: 433.92 MHz
Date: 03-15-2013
Notes: All other emissions at least 20 dB under the limit.

Frequency (GHz)	Measurement Type	Antenna Polarization	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Duty Cycle Correction (dB)	Total Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	EUT Angle (deg)	Comment
2604.06	Max Peak	Vert	86.30	29.08	-53.7	0	61.7	74	12.3	1.10	225	Harmonic
2604.06	Average	Vert	86.30	29.08	-53.7	-9.99	51.7	54	2.3	1.10	225	Harmonic
2604.06	Max Peak	Horz	81.66	29.08	-53.7	0	57.0	74	17.0	1.40	315	Harmonic
2604.06	Average	Horz	81.66	29.08	-53.7	-9.99	47.1	54	7.0	1.40	315	Harmonic
3038.07	Max Peak	Vert	76.39	30.30	-53.5	0	53.2	74	20.8	1.00	225	Harmonic
3038.07	Average	Vert	76.39	30.30	-53.5	-9.99	43.2	54	10.8	1.00	225	Harmonic
3038.07	Max Peak	Horz	75.53	30.30	-53.5	0	52.3	74	21.7	2.00	270	Harmonic
3038.07	Average	Horz	75.53	30.30	-53.5	-9.99	42.3	54	11.7	2.00	270	Harmonic
3472.08	Max Peak	Vert	78.99	31.16	-53.9	0	56.3	74	17.8	1.00	270	Harmonic
3472.08	Average	Vert	78.99	31.16	-53.9	-9.99	46.3	54	7.7	1.00	270	Harmonic
3472.08	Max Peak	Horz	77.62	31.16	-53.9	0	54.9	74	19.1	1.80	180	Harmonic
3472.08	Average	Horz	77.62	31.16	-53.9	-9.99	44.9	54	9.1	1.80	180	Harmonic
3906.09	Max Peak	Vert	82.74	32.11	-54.1	0	60.8	74	13.3	1.20	90	Restricted Band
3906.09	Average	Vert	82.74	32.11	-54.1	-9.99	50.8	54	3.2	1.20	90	Restricted Band
3906.09	Max Peak	Horz	82.46	32.11	-54.1	0	60.5	74	13.5	2.00	225	Restricted Band
3906.09	Average	Horz	82.46	32.11	-54.1	-9.99	50.5	54	3.5	2.00	225	Restricted Band
4340.10	Max Peak	Vert	80.23	32.38	-54.3	0	58.3	74	15.7	1.00	200	Restricted Band
4340.10	Average	Vert	80.23	32.38	-54.3	-9.99	48.3	54	5.7	1.00	200	Restricted Band
4340.10	Max Peak	Horz	75.63	32.38	-54.3	0	53.7	74	20.3	1.60	180	Restricted Band
4340.10	Average	Horz	75.63	32.38	-54.3	-9.99	43.7	54	10.3	1.60	180	Restricted Band



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Appendix B

5.0 Duty Cycle Correction

Rule Part:

15.35 (c)

Test Procedure:

ANSI C63.4-2009 and ANSI C63.10-2009

Limit:

Informative

Results:

Informative

Sample Equation(s):

See data

Notes:

Compliance is determined by comparing peak data, minus duty cycle correction, to the average limit. Compliance with the provisions of section 15.205 is demonstrated using the measurement instrumentation specified in that section (Quasi-peak detector below 1 GHz, CISPR Average detector above 1 GHz).



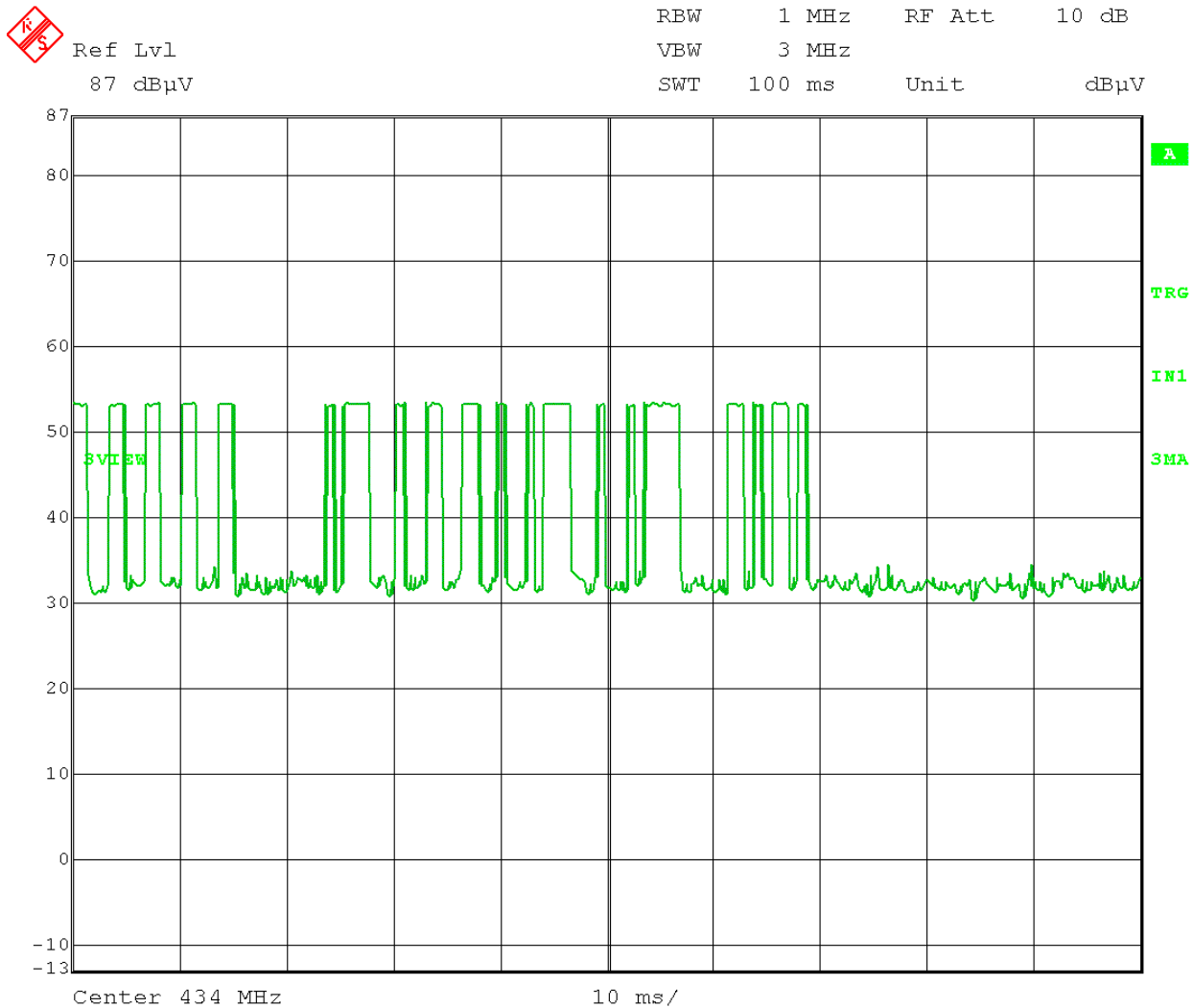
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Test Date: 03-15-2013
Company: Noah Technologies
EUT: MK3.4 Intelli-Sensor Transmitter
Test: Duty Cycle – worst-case under normal operation
Operator: Craig B

Comment: Total ON time in 100 ms = 31.662 ms
Duty Cycle reduction factor = $20 \log (31.662/100) = 9.99 \text{ dB}$



Date: 15.MAR.2013 12:39:37



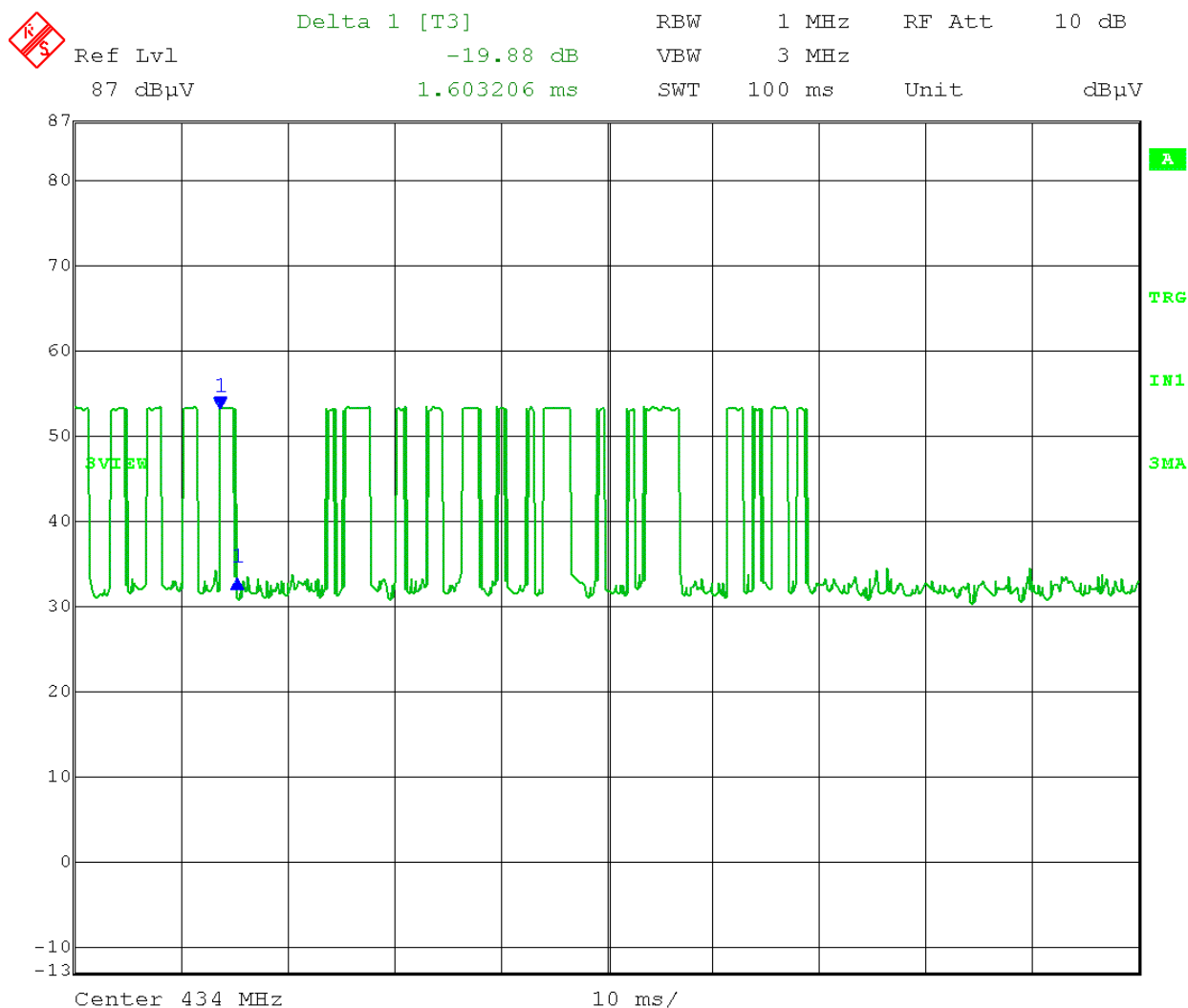
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Test Date: 03-15-2013
Company: Noah Technologies
EUT: MK3.4 Intelli-Sensor Transmitter
Test: Duty Cycle – worst-case under normal operation
Operator: Craig B

Comment: 9 pulses at 1.603 ms: 14.427 ms



Date: 15.MAR.2013 12:40:45



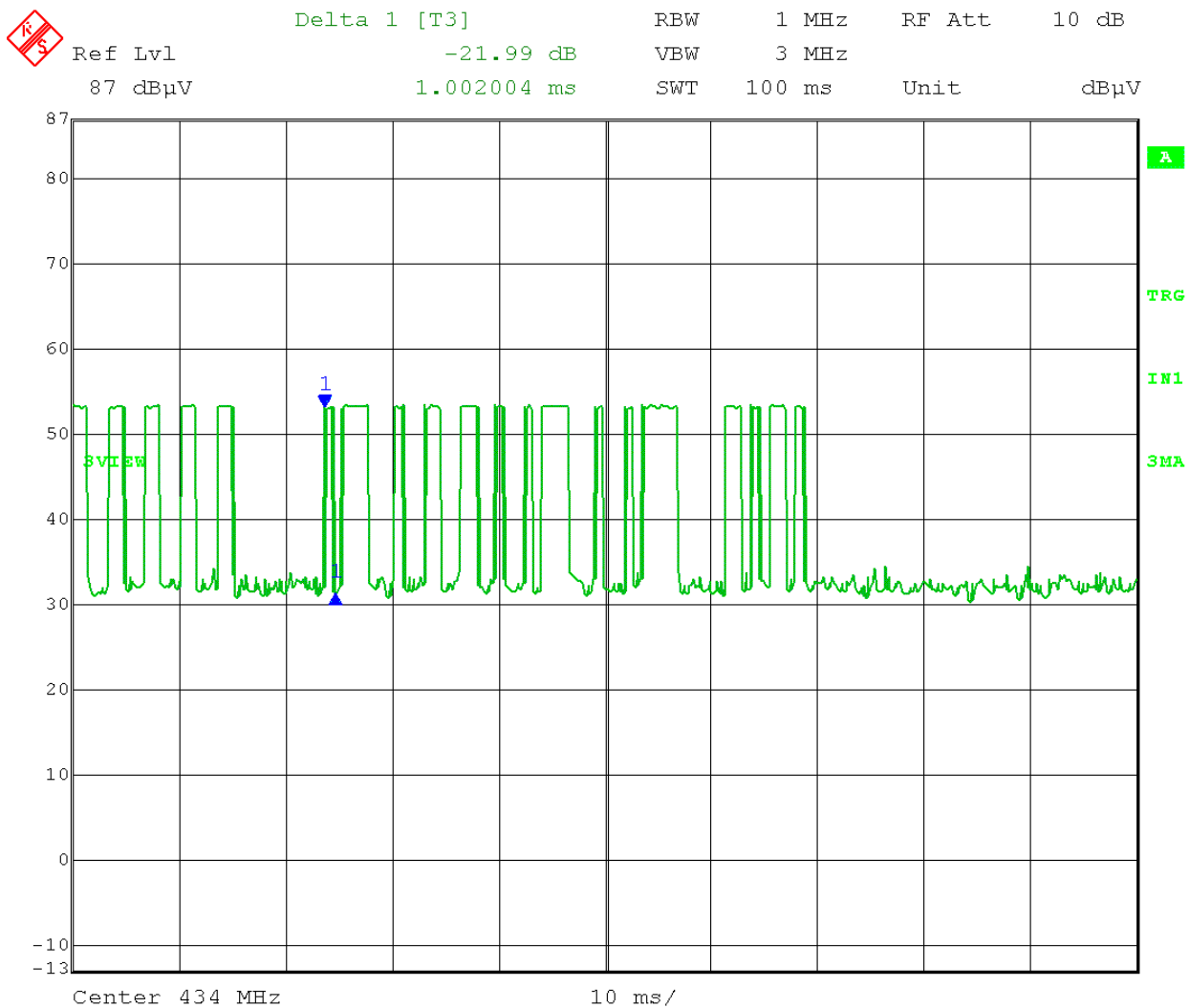
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Test Date: 03-15-2013
Company: Noah Technologies
EUT: MK3.4 Intelli-Sensor Transmitter
Test: Duty Cycle – worst-case under normal operation
Operator: Craig B

Comment: 8 pulses at 1.002 ms: 8.016



Date: 15.MAR.2013 12:42:09



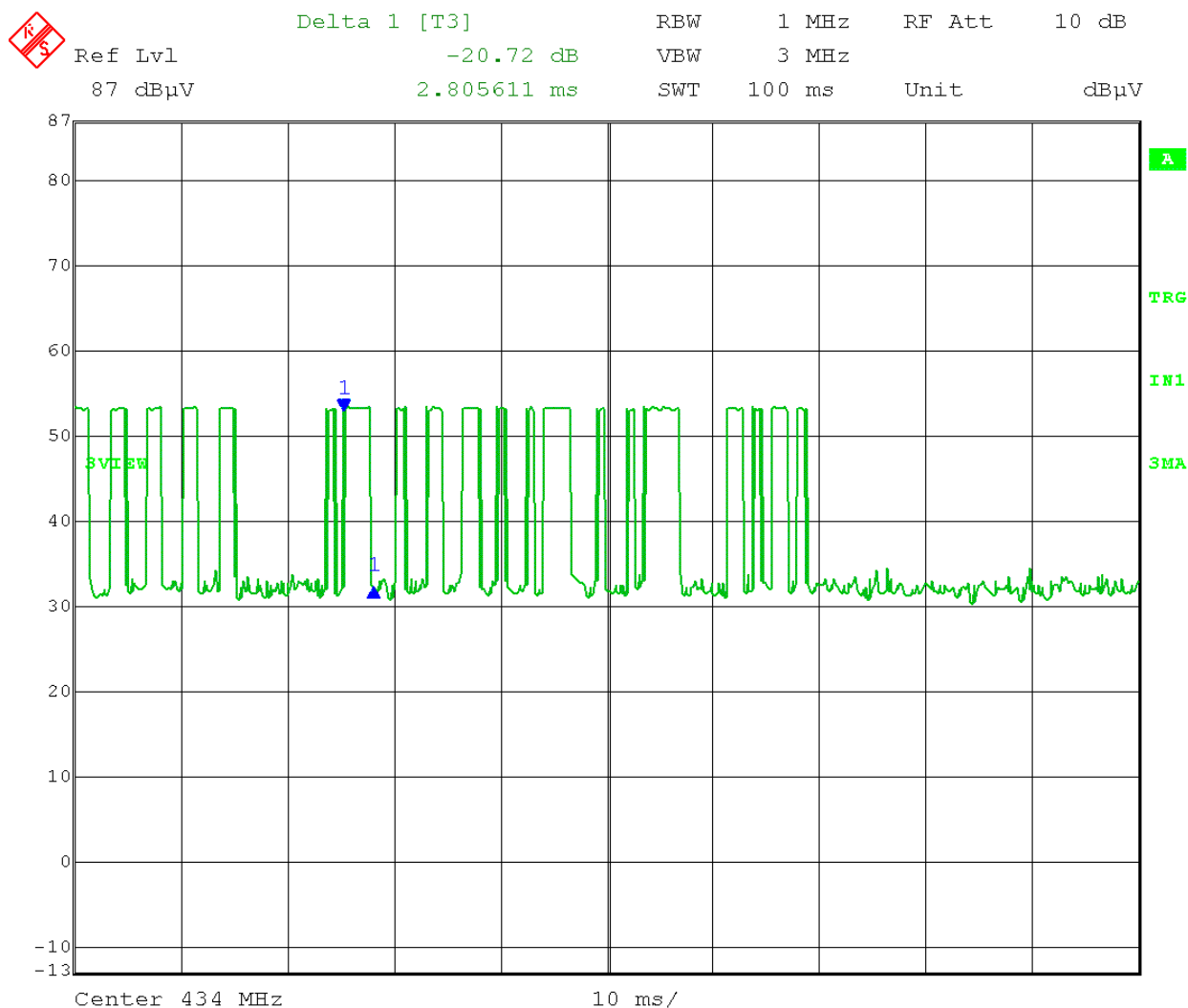
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Appendix B

Test Date: 03-15-2013
Company: Noah Technologies
EUT: MK3.4 Intelli-Sensor Transmitter
Test: Duty Cycle – worst-case under normal operation
Operator: Craig B

Comment: 2 pulses at 2.806 ms: 5.612 ms



Date: 15.MAR.2013 12:43:18



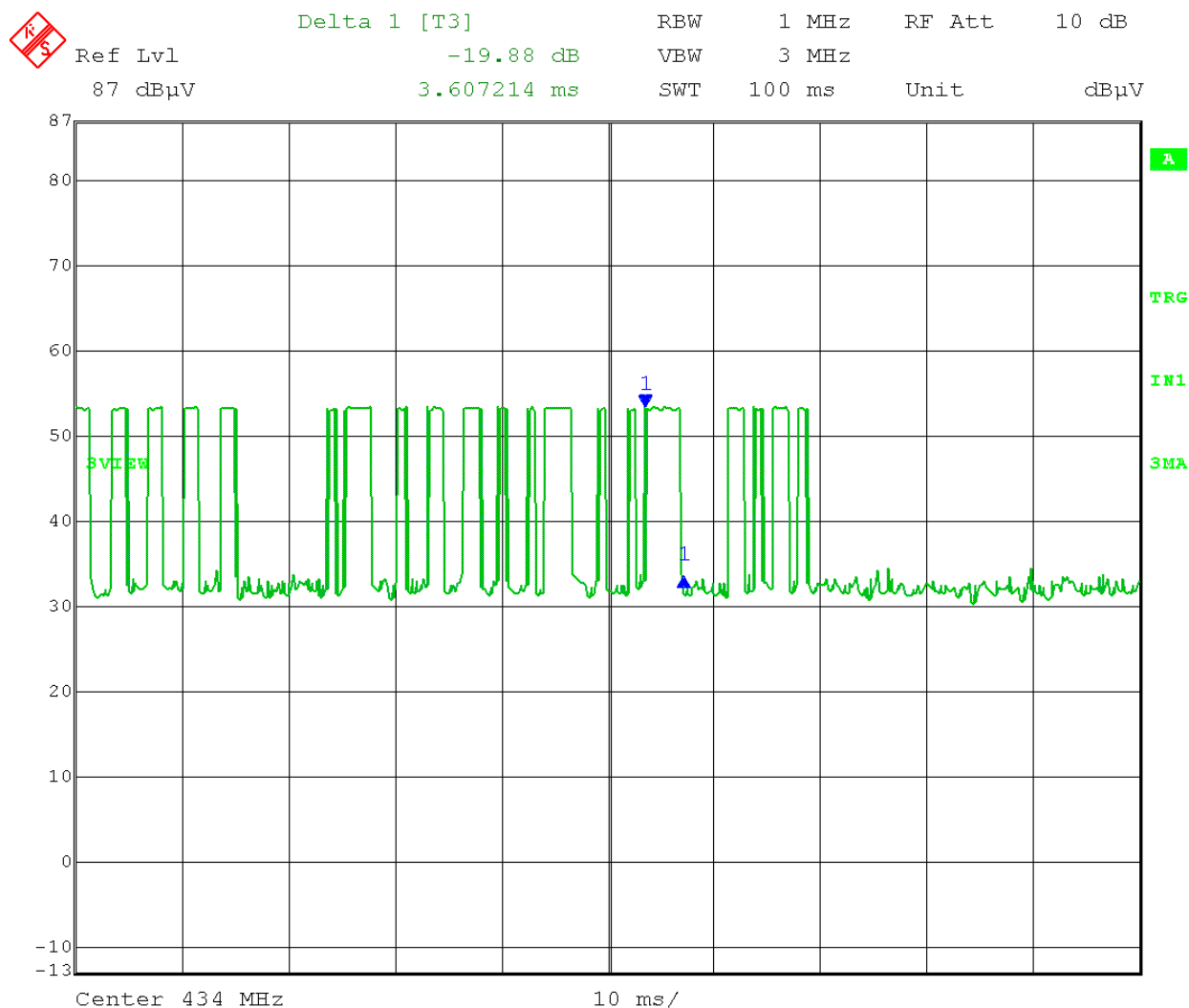
166 South Carter, Genoa City, WI 53128

Company: Noah Technologies Inc
Model Tested: MK3.4
Report Number: 18378
Project Number: 5473

Appendix B

Test Date: 03-15-2013
Company: Noah Technologies
EUT: MK3.4 Intelli-Sensor Transmitter
Test: Duty Cycle – worst-case under normal operation
Operator: Craig B

Comment: One pulse at 3.607 ms: 3.607



Date: 15.MAR.2013 12:44:16



166 South Carter, Genoa City, WI 53128

Company:	Noah Technologies Inc
Model Tested:	MK3.4
Report Number:	18378
Project Number:	5473

END OF REPORT

Revision #	Date	Comments	By
1.0	10-12-2012	Preliminary Release	CB
1.1	10-18-2012	Added circuit board description and part number	CB
1.2	03-18-2013	New test results with setup photos for testing to FCC 15.231(e) With editing for redesigned model MK3.4 (was MK3.3)	JS