

Model Tested: 9450-6066 Report Number: 23691a Project Number: 9619

Code of Federal Regulations 47 Part 15 – Radio Frequency Devices

Subpart C – Intentional Radiators Section 15.231

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

THE FOLLOWING MEETS THE ABOVE TEST SPECIFICATION

FCC ID: KXU-CBTXC

Formal Name: Smart Sense Infant Transmitter

Kind of Equipment: Wireless Infant Security Device

Frequency Range: 318 MHz and 66 kHz

Test Configuration: Body-worn, battery operated device tested in three orthogonal positions.

Model Number(s): 9450-6066

Model(s) Tested: 9450-6066

Serial Number(s): Test Sample 1B – normal operation

Test Sample 66B – FCC test firmware

Date of Tests: April 25th through 27th, 2018

Test Conducted For: RF Technologies, Inc.

3125 N. 126th Street Brookfield, WI 53005

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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SIGNATURE PAGE

Report By:

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Reviewed By:

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Approved By:

Brian Mattson General Manager



Company: RF Technologies Model Tested: 9450-6066

Report Number: 23691a Project Number: 9619

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United States Department of Commerce National Institute of Standards and Technology



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 & 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 Communique dated January 2009).

2017-09-29 through 2018-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS **NVLAP LAB CODE 100276-0**

Emissions

Designation

Description

Off-site test location

D.L.S. Electronics performs radiated emissions testing at an additional location, 166 South Carter Street, Genoa City, WI 53128.



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1.0 Summary of Test Report

It was determined that the Smart Sense Infant Transmitter, Model 9450-6066, complies with the requirements of CFR 47 Part 15 Subpart C Section 15.231.

Subpart C Applicable Technical Requirements Tested:

Section	Description	Procedure	Note	Compliant?
15.231(c)	20 dB Emission Bandwidth	ANSI C63.10-2013	2	Yes
15.231(a)(2)	Transmission Deactivation	ANSI C63.10-2013	2	Yes
15.231(a)(3)	Periodic Transmissions	ANSI C63.10-2013	2	Yes
15.231(b)	Field Strength of Emissions - Fundamental and Spurious -	ANSI C63.10-2013	1,2	Yes
15.35(c)	Duty Cycle Correction for Pulsed operation	ANSI C63.10-2013	2	Informative

Note 1: Tested in 3 orthogonal planes. Note 2: Radiated emission measurement.

2.0 Introduction

On April 25th through 27th, 2018 the Smart Sense Infant Transmitter, Model 9450-6066, as provided from RF Technologies Inc. was tested to the requirements of CFR 47 Part 15 Subpart C Section 15.231. To meet these requirements, the procedures contained within this report were performed by personnel of D.L.S Electronic Systems, Inc.



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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, Innovation Science and Economic Development Canada, and VCCI.

Wisconsin Test Facility:

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

FCC Registration #90531

Wheeling Test Facility:

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

4.0 Description of Test Sample

Description:

The device is a wireless security device intended to prevent the abduction of an infant from a healthcare facility. The device is attached to the ankle of an infant with a stretchable band material, and it is this attachment which enables the monitoring features. Once enabled, the device will periodically send status OK messages wirelessly on a 318 MHz signal to a central computer server which means the infant is within the safe boundary at the healthcare facility. The device can sense security breaches using one or more of the following features: physical cutting of the stretchy band material, a change in resistance of the band material, or a change in capacitive patient proximity measurement. Once a security breach is expreienced, the device sends a special alarm signal wirelessly on a 318 MHz RF signal to a central computer server thereby notifying the facility staff. The device also transmits wirelessly periodically at 66 kHz which will cause wireless receivers mounted, for example, at doors to indicate a security breach in the event the device is brought in close proximity to those receivers. The transmitters do not transmit simultaneously on the 318 MHz and 66 kHz.

Type of Equipment / Frequency Range:

Body-Worn / 318 MHz and 66 kHz

Physical Dimensions of Equipment Under Test:

Length: 1.6 in. x Width: 1.2 in. x Height: 0.675 in.



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4.0 Description of Test Sample (continued)

Power Source:

3.6 VDC battery

Internal Frequencies:

16.777216 MHz

Transmit Frequencies Used For Test Purpose:

318 MHz

Type of Modulation(s) / Antenna Type:

OOK / 318 MHz transmitter uses a short non-resonant strip on the circuit board.

Description of Circuit Board(s) / Part Number:

PCB Assembly, Smart Sense Tx, 66 KHz	0830-0203



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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 Site 2 - Test Equipment:

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Dates	Cal Due Dates
Receiver	Rohde & Schwarz	ESI 40	837808/006	837808/006 20 Hz – 40 GHz		4-11-19
Antenna	EMCO	3104C	9701-4785	20 MHz – 200 MHz	3-1-18	3-1-20
Antenna	EMCO	3146	1604	200 MHz – 1 GHz	9-12-16	9-12-18
Horn Antenna	EMCO	3115	6204	1-18GHz	8-23-17	8-23-19
Cable	Micro-Coax	UFB311A-1	CBL-095	30 MHz – 18 GHz	5-5-17	5-5-18
High Pass Filter	Q-Microwave	100460	2	1-18GHz	7-7-17	7-7-18
Preamplifier	Miteq	AMF-7D- 01001800-22-10P	1777990	1-18GHz	1-8-18	1-8-19
Cable	Beldin	9914	CBL-005	9 kHz – 1 GHz	11-27-17	11-27-18
Cable	Beldin	9273	CBL-028	9 kHz – 1 GHz	11-27-17	11-27-18
Cable	Manhattan/CDT	RG-223/U	CBL-051	9 kHz – 1 GHz	11-27-17	11-27-18
Test Software	Rohde & Schwarz	ESK1	V1.7.1	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SMT 03	DE23762	5 kHz – 3 GHz	4-11-18	4-11-19
Cable	Manhattan/CDT	RG-223/U	CBL-031	9 kHz – 1 GHz	2-20-18	2-20-19
Tuned Dipole	Com-Power	AD-100	40139	118 MHz	N/A	N/A



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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 C63.10-2013, 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. See Appendix C for measurement uncertainty.

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

7.0 Test Conditions

Temperature and Humidity:

70°F at 29% RH

Battery Voltage:

3.6 VDC

8.0 Modifications Made To EUT For Compliance

None noted at time of test.



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9.0 Additional Descriptions

This device uses periodic transmissions for security or safety application as defined in FCC Part 15.231(a) (3) and does not exceed a total transmission time of two seconds per hour. Appendix B of this report shows data to confirm compliance with this rule section.

The EUT was programmed to transmit in a special test mode that allowed it to stay transmitting for one second, then off for three seconds, and then repeat that sequence continuously. For testing done in "normal operation mode" the EUT was programmed to use the largest duty cycle possible during normal operation.

Note that the 66 kHz transmitter is exempt from certification as defined by section 15.201(a). All emissions from that transmitter are greater than 40 dB below the limit. Measurement data can be seen in DLS Report #23691b.

The 318 MHz transmitter in this model is identical to the 318 MHz transmitter in model 9450-6262 (FCC ID: KXU-CBTX3, DLS test report # 23685a). Both models, 9450-6262 and 9450-6066, were tested for fundamental and spurious emissions and the worst-case measurement data can be seen in Appendix B of this report.

10.0 FCC 15.31 (e) Supply Voltage Requirement statement

FCC 15.31 (e) - For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

Compliance Statement: This device complies with the requirements of Part 15.31(e):
☑ This device is battery operated. All tests were performed using a new (or fully charged) battery.
☐ This device provides a constant regulated voltage to the RF circuitry regardless of supply voltage (see schematic diagrams).
☐ This device does not provide a constant regulated voltage to the RF circuitry regardless of supply voltage. Data has been supplied in this test report that supports compliance. Details:



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11.0 FCC 15.203 Antenna Requirement statement

SECTION 15.203 ANTENNA REQUIREMENT

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.... This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221.

Statement: This wireless device (Intentional Radiator) meets the requirements of FCC Part 15.203:	
∑ The antenna is permanently attached	
The antenna has a unique coupling to the intentional radiator. Description of coupling:	
☐ This intentional radiator is professionally installed	
☐ This intentional radiator, in accordance with Section 15.31(d), must be measured at the installatio site.	n

12.0 Results

Measurements were performed in accordance with ANSI C63.10-2013. Graphical and tabular data can be found in Appendix B at the end of this report.

13.0 Conclusion

The Smart Sense Infant Transmitter, Model 9450-6066 as provided from RF Technologies, Inc., tested on April 25th through 27th, 2018 **meets** the requirements of CFR 47 Part 15 Subpart C Section 15.231.



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Appendix A – Test Setup Photos

Photo Information and Test Setup:

Item: EUT – Smart Sense Infant Transmitter

Radiated X Position





166 South Carter, Genoa City, WI 53128

Appendix A

Company: RF Technologies

Model Tested: 9450-6066 Report Number: 23691a Project Number: 9619

Radiated Y Position





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Appendix A

Company: Model Tested: RF Technologies 9450-6066

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Radiated Z Position



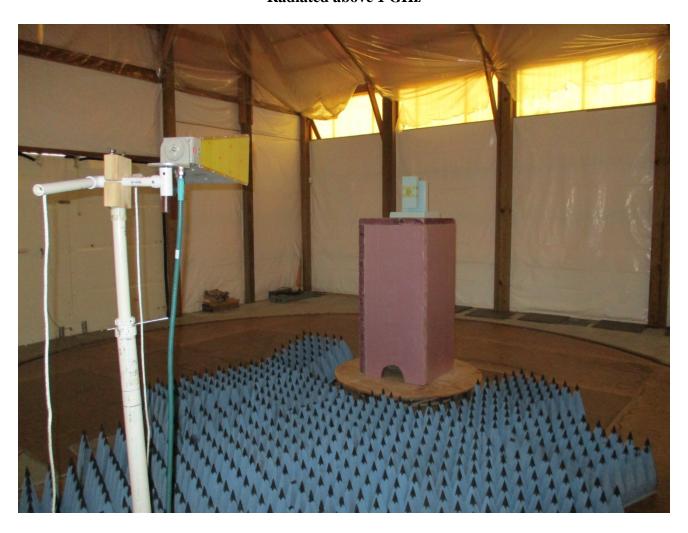


Appendix A

Company: RF Technologies Model Tested: 9450-6066

Model Tested: 9450-600 Report Number: 23691a Project Number: 9619

Radiated above 1 GHz





$Appendix \ B-Measurement \ Data$

1.0 Emission Bandwidth – 20 dB

Rule Part:

Section 15.231 (c)

Test Procedure:

ANSI C63.10-2013

Limit:

Section 15.231 (c):

 $318 \text{ MHz } \times 0.25\% = 795 \text{ kHz}$

Results:

Compliant

20 dB bandwidth: 26.1 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.

Company:

Model Tested:

Report Number:

Project Number:

RF Technologies

9450-6066

23691a

9619



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Company: RF Technologies

Model Tested: 9450-6066 Report Number: 23691a Project Number: 9619

Appendix B

Test Date: 04-25-2018 Company: RF Technologies

EUT: 9450-6262 (and 9450-6066) Smart Sense Infant Transmitter

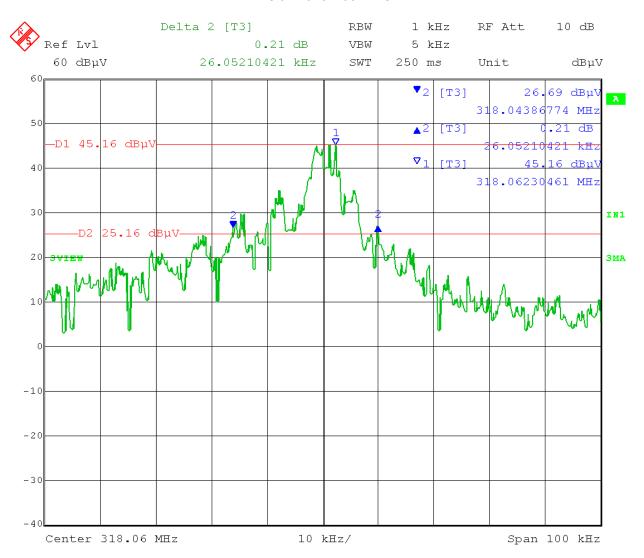
Test: 20 dB Bandwidth

Operator: Craig B

Comment: SPAN 2 to 5 times occupied bandwidth

RBW between 1% and 5% of occupied bandwidth

20 dB Bandwidth = 26.1 kHz



Date: 25.APR.2018 10:08:19



Company: RF Technologies 9450-6066

Model Tested: Report Number: 23691a Project Number: 9619

Appendix B

2.0

Auto	matic Deactivation
Rule	Part:
	15.231 (a) (2)
Test 1	Procedure:
	ANSI C63.10-2013
Limi	t:
	A transmitter activated automatically shall cease transmission within 5 seconds after activation.
Resu	lts:
	Compliant
Samp	ple Equation(s):
	None
Notes	S:
	No transmission for five seconds after deactivation.



Model Tested: 9450-6066 Report Number: 23691a Project Number: 9619

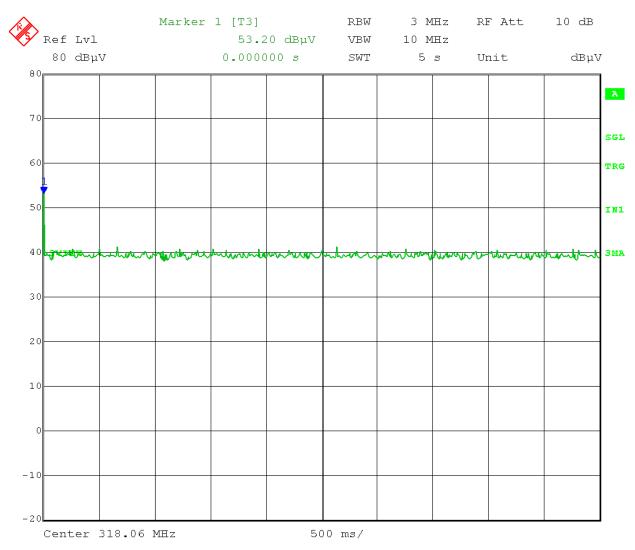
Appendix B

Test Date: 04-25-2018 Company: RF Technologies

EUT: 9450-6262 (and 9450-6066) Smart Sense Infant Transmitter

Test: Dwell Time Operator: Craig B

Comment: A transmitter activated automatically shall cease transmission within 5 seconds after activation.



Date: 25.APR.2018 10:15:04



Company: RF Technologies Model Tested: 9450-6066

Report Number: 23691a
Project Number: 9619

Appendix B

3.0 Periodic Transmissions

Rule F	'art:		
	15.231	(a)	(3)

Test Procedure:

ANSI C63.10-2013

Limit:

Total transmission time does not exceed two seconds per hour.

Results:

Compliant

Total time of transmission in an hour: 1.99 seconds

Sample Equation(s):

None

Notes:

Worst case predetermined transmissions observed.



Model Tested: 9450-6066 Report Number: 23691a Project Number: 9619

Appendix B

Test Date: 04-25-2018 Company: RF Technologies

EUT: 9450-6262 (and 9450-6066) Smart Sense Infant Transmitter

Test: Periodic transmissions over one hour

Operator: Craig B

Comment: EUT transmits at regular predetermined intervals for supervision purposes.

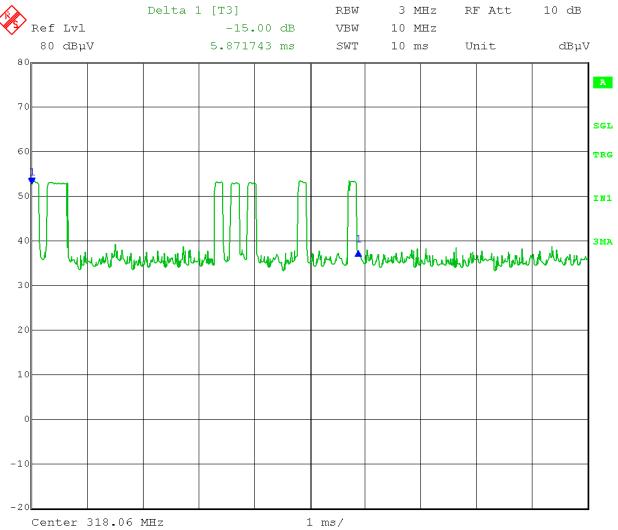
Total transmission time must not exceed two seconds per hour.

Transmission time = 5.9 ms.

Transmission every 10.67 seconds = 337 transmissions per hour.

Total transmission time for one hour = $337 \times 5.9 \text{ ms}$ = 1.99 seconds.

Transmission Time:



Date: 25.APR.2018 10:17:27



Model Tested: 9450-6066 Report Number: 23691a Project Number: 9619

Appendix B

Test Date: 04-25-2018 Company: RF Technologies

EUT: 9450-6262 (and 9450-6066) Smart Sense Infant Transmitter

Test: Periodic transmissions over one hour

Operator: Craig B

Comment: EUT transmits at regular predetermined intervals for supervision purposes.

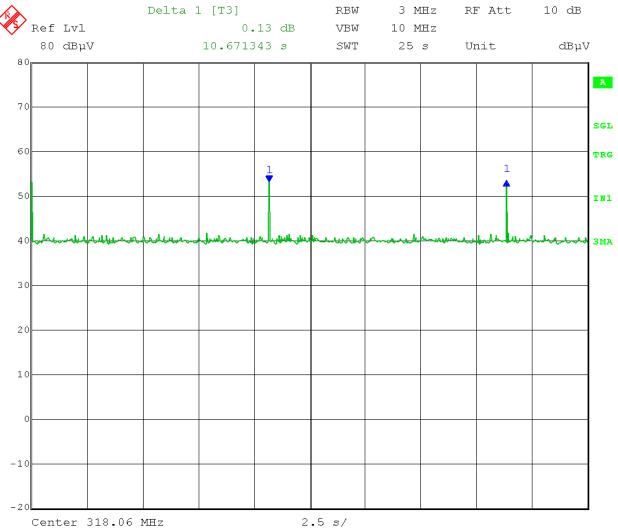
Total transmission time must not exceed two seconds per hour.

Transmission time = 5.9 ms.

Transmission every 10.67 seconds = 337 transmissions per hour.

Total transmission time for one hour = $337 \times 5.9 \text{ ms}$ = 1.99 seconds.

Time between transmissions:



Date: 25.APR.2018 10:19:16



Model Tested: 9450-6066 Report Number: 23691a Project Number: 9619

Appendix B

4.0 Field Strength of Emissions – Fundamental and Spurious (318 MHz)

Rule Part:

15.231 (b) including 15.205

Test Procedure:

ANSI C63.10-2013

Limit:

Fundamental (F) μ V/m at 3 meters: 41.6667(F) – 7083.3333 The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

Results:

Compliant

Sample Equation(s):

 $41.6667(F) - 7083.3333 = 6166.67 \,\mu\text{V/m}$ at 3 meters

 $20*\log (6166.67) = 75.80 \text{ dB } \mu\text{V/m} \text{ at } 3 \text{ meters}$

Final Corrected = Total Level - Duty Cycle Correction Margin = Limit - Final Corrected Total Level = 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. The EUT was rotated in 3 orthogonal planes and the highest emission was recorded. Since the unit was not able to transmit continuously at a 100 % duty cycle, compliance is determined by comparing peak data, minus duty cycle correction, to the average limit.

The 318 MHz transmitter in this model is identical to the 318 MHz transmitter in model 9450-6262 (FCC ID: KXU-CBTX3, DLS test report #23685a). Both models, 9450-6262 and 9450-6066, were tested for fundamental and spurious emissions and the worst-case measurement data (found to be from model 9450-6262) is reported.



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Company: RF Technologies

Model Tested: 9450-6066 Report Number: 23691a Project Number: 9619

Appendix B

Radiated Fundamental and Spurious Emissions – 30 MHz to 3.2 GHz Tested at a 3 Meter Distance

EUT: 9450-6262: Smart Sense Infant Transmitter

Manufacturer:RF TechnologiesOperating Condition:70 deg F; 29% R.H.

Test Site: Site 2
Operator: Craig B

Test Specification: FCC Part 15.231(b)
Comment: Battery Operated
Date: 04-25-2018

Notes: All other emissions at least 20 dB under the limit.

Since unit was not able to transmit continuously, all measurements were made with a peak detector.

Frequency (MHz)	Measurement Type	Antenna Polarization	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBuV/m)	Duty Cycle Correction	Final Corrected (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)		Comment
318.040	Max Peak Average	Vertical	49.29	14.72	3.6	67.61	0 20	67.61 47.61	95.80 75.80	28.2	1.4	90	F
316.040	Max Peak Average	Horizontal	51.10	14.72	3.6	69.42	0 20	69.42 49.42	95.80 75.80	26.4	1.0	270	F
636.080	Max Peak Average	Vertical	31.91	19.54	5.2	56.65	0 20	56.65 36.65	75.80 55.80	19.2	1.4	270	Н
030.080	Max Peak Average	Horizontal	32.63	19.54	5.2	57.37	0 20	57.37 37.37	75.80 55.80	18.4	1.2	270	Н
054 120	Max Peak Average	Vertical	26.25	24.06	6.5	56.81	0 20	56.81 36.81	75.80 55.80	19.0	1.1	270	Н
954.120	Max Peak Average	Horizontal	27.89	24.06	6.5	58.45	0 20	58.45 38.45	75.80 55.80	17.4	1.6	180	Н
	g-												
	Max Peak Average	Vertical	87.65	25.03	-54.7	57.98	0 20	57.98 37.98	74.00 54.00	16.0	1.7	135	H/RB
1272.160	Max Peak	Horizontal	86.75	25.03	-54.7	57.08	0	57.08	74.00	16.9	1.6	90	H/RB
	Average						20	37.08	54.00				
1590.200	Max Peak Average	Vertical	76.23	25.49	-54.2	47.52	20	47.52 27.52	74.00 54.00	26.5	1.9	270	H/RB
1390.200	Max Peak Average	Horizontal	77.42	25.49	-54.2	48.71	0 20	48.71 28.71	74.00 54.00	25.3	1.8	295	H/RB
	Max Peak Average	Vertical	78.62	27.42	-54.2	51.84	0 20	51.84 31.84	75.80 55.80	24.0	1.7	160	Н
1908.240	Max Peak Average	Horizontal	77.83	27.42	-54.2	51.05	0 20	51.05 31.05	75.80 55.80	24.8	1.5	45	Н
	rivelage						20	31.03	33.00				
	Max Peak Average	Vertical	71.33	27.70	-54.2	44.83	0 20	44.83 24.83	74.00 54.00	29.2	1.9	170	H/RB
2226.280	Max Peak	Horizontal	71.46	27.70	-54.2	44.96	0 20	24.83 44.96 24.96	74.00 54.00	29.0	1.4	180	H/RB
	Average						20	24.90	34.00				
Ļ		<u> </u>		ļ		ļ	ļ	ļ		<u> </u>	<u> </u>	ļ	

Legend: H=Harmonic; RB=Restricted Band; F=Fundamental

Level = Total Level - System Loss - Antenna Factor

Final Corrected = Total Level - Duty Cycle Correction

Margin = Limit - Final Corrected



Company: RF Technologies Model Tested: 9450-6066

Report Number: 9430-00 Project Number: 9619

5.0 Duty Cycle Correction (318 MHz)

Rule Part:

15.35 (c)

Test Procedure:

ANSI C63.10-2013

Limit:

Informative

Results:

Duty Cycle Correction Factor = -24.4 dB

Sample Equation(s):

Duration of one transmit time: 6.012024 ms Number of transmit times during 100 ms period: 1 Total ON time in 100 ms = 6.012024 ms Duty Cycle correction = 20 Log (6.012024/100) = -24.4 dB

Notes:

Since the unit was not able to transmit continuously, compliance is determined by comparing peak data, minus duty cycle correction, to the average limit.

Since there is a limit of Peak emission that is only 20 dB above the limit of Average emission, a duty cycle correction factor greater than 20 dB would not be beneficial. Therefore, a duty cycle correction of 20 dB was applied to the Peak detector measurement level to show compliance to the average limits.



166 South Carter, Genoa City, WI 53128 Appendix B

Company: RF Technologies

Model Tested: 9450-6066 Report Number: 23691a Project Number: 9619

Normal Operation

Test Date: 04-25-2018 Company: RF Technologies

EUT: 9450-6262 (and 9450-6066) Smart Sense Infant Transmitter

Test: Duty Cycle – worst case for normal operation

Operator: Craig B

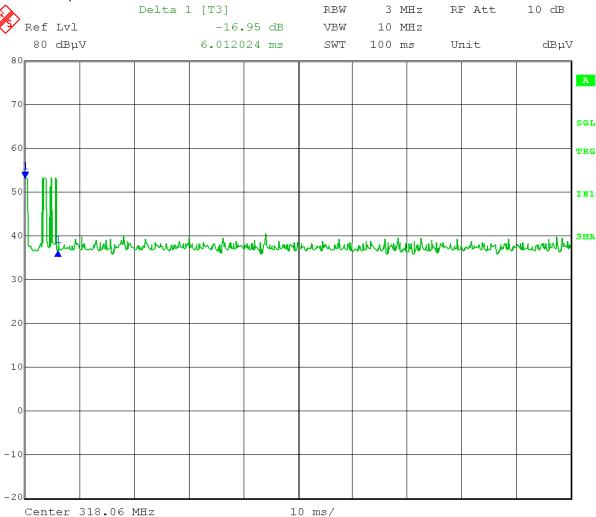
Comment: Duration of one transmit time: 6.012024 ms

Number of transmit times during 100 ms period: 1

Total ON time in 100 ms = 6.012024 ms

Duty Cycle correction = 20 Log (6.012024/100) = -24.4 dB

100 ms sweep:



Date: 25.APR.2018 10:24:41



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Company: RF Technologies

Model Tested: 9450-6066 Report Number: 23691a Project Number: 9619

Appendix B

Test Mode

Test Date: 04-25-2018 Company: RF Technologies

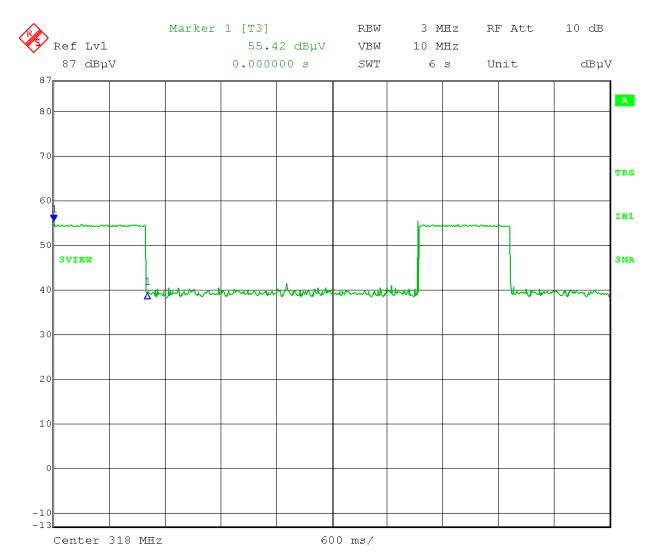
EUT: 9450-6262 (and 9450-6066) Smart Sense Infant Transmitter

Test: Duty Cycle – special mode for testing purposes

Operator: Craig B

Comment: One wide pulse: 1 second

Total ON time in 100 ms = 100 ms



Date: 25.APR.2018 09:10:14



Model Tested: 9450-6066 Report Number: 23691a Project Number: 9619

Appendix C – Measurement Uncertainty

Compliance with the limits in this standard are based on the results of the compliance measurement. Our calculated measurement uncertainty including the measurement instrumentation, associated connections between the various instruments in the measurement chain, and other contributions, are provided in this section of the test report.

Radiated Emission 30 MHz to 18 GHz Uncertainty

		Uncertainty (+/-dB)	Uncertainty (+/-dB)	Uncertainty (+/-dB)		Uncertainty (+/-dB)	Uncertainty (+/-dB)	Uncertainty (+/-dB)	Uncertainty (+/-dB)	Uncertainty (+/-dB)
Contribution	Probability Distribution	3M	3M	3M	3M	3M	3M	10M	10M	10M
		30- 100MHz.	100- 700MHz	700- 1000MHz.	1- 4.5Ghz	4.5 - 7Ghz	7 - 18Ghz	30- 100MHz.	100- 700MHz.	700- 1000MHz.
Combined Standard Un certainty	Normal	1.70	1.62	1.66	2.13	2.48	2.85	1.64	1.58	1.66
Expanded Uncertainty	Normal (k=2)	3.40	3.23	3.33	4.26	4.95	5.69	3.29	3.16	3.31



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END OF REPORT

Revision #	Date	Comments	By
1.0	05-04-2018	Initial Release	СВ
2.0	05-22-2018	Removed 66 kHz transmitter data	CB