

Nemko Test Report:

32618RUS1

Applicant:

STEMCO LP 300 Industrial Blvd. Longview, Texas 75604 USA

8150200 Active AirBat

SRA-8150200

- Equipment Under Test: (E.U.T.)
- FCC ID:
- Industry Canada ID: 7413A-8150200
- In Accordance With:

FCC Part 15, Subpart C, 15.247 and Industry Canada RSS-210, Issue 7 Digital Transmission Systems

Tested By:

Nemko USA, Inc. 802 N. Kealy Lewisville, Texas 75057-3136

TESTED BY:

DATE: 24 August 2009

David Light, Senior Wireless Engineer

APPROVED BY:

Tom Tidwell, Telecom Direct

DATE: 24 August 2009

Number of Pages: 26

Nemko USA, Inc.	CFR 47 PA	RT 15, SUBPART C an	d IC RSS-210
-		Digital Transmi	ssion Systems
EQUIPMENT: 8150200 Ad	ctive AirBat	Test Report No.:	32618RUS1
EQUIPMENT: 8150200 Ac	ctive AirBat	Test Report No.:	32618RUS

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Summary of Test Results Section 1.

Stemco LP Manufacturer:

Model No.: 8150200

Serial No.: None

General: All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C, Paragraph 15.247 and Industry Canada RSS-210 Issue 7 for Digital Transmission Systems. Radiated tests were conducted is accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC and Industry Canada.

\boxtimes	New Submission	\boxtimes	Production Unit
	Class II Permissive Change		Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summarv of Test Data".



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Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
Powerline Conducted Emissions	15.207(a) / RSS-Gen 7.2.2	NA*
Minimum 6 dB Bandwidth	15.247(a)(2) / A8.2(a)	Complies**
Maximum Peak Power Output	15.247(b)(3) / A8.4(4)	Complies**
Spurious Emissions (Antenna Conducted)	15.247(d) / A8.5	Complies**
Spurious Emissions (Restricted Bands)	15.247(d)/15.209(a) / A8.5	Complies
Peak Power Spectral Density	15.247(e) / A8.2(b)	Complies**
Receiver Spurious Emissions	RSS-GEN 7.2.3	NA ^{***}

Footnotes:

- * The device is battery powered.
- ** All tests were done radiated. The device has an integral antenna.
- *** The device is not a receiver.

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Section 2. Equipment Under Test (E.U.T.)

General Equipment Information

Frequency Band (MHz):	902-928	2400-2483.5 ⊠	5725-5850
Operating Frequency of Test Sample:	2404 to 2481 MH	Z	
Input Power::	3.6 Vdc		
User Frequency Adjustment:	Factory Set.		

Description of EUT

2.4 GHz DSSS transmitter used to monitor tire pressure in automotive industry.

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Section 3. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 15.247(a)(2) / A8.2(a)
TESTED BY: David Light	24 August 2009

Test Results: Complies.

Measurement Data:See 6 dB BW plotMeasured 6 dB bandwidth:875 kHz max

Test Conditions:	22 35	%RH ℃	
Measurement Unc	ertainty:	+/-1x10 ⁻⁷	ppm

Test Equipment Used: 1464-802-1082

Test Data – Occupied Bandwidth



Test Data – Occupied Bandwidth



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Section 4. Maximum Peak Output Power

NAME OF TEST: Maximum Peak Output power	PARA. NO.: 15.247(b)(3) / A8.4(4)
TESTED BY: David Light	DATE: 24 August 2009

Test Results: Complies.

Measurement Data: Refer to attached data

Test Conditions:	22	%RH
	35	°C

- Measurement Uncertainty: +/-1.7 dB
- **Test Equipment Used:** 993-1484-1485-1464
- This device was tested at +/- 15% input power per 15.31(e), with no variation in output power.
- For battery powered equipment, the device was tested with a fresh battery per 15.31(e).
- The device was tested on three channels per 15.31(I).
- \square This test was performed radiated.
- This device was tested on three orthogonal axes.

Test Data – Peak Power

Frequency	Meter Reading	Substitution Level	Substitution Antenna Gain	EIRP	Limit	Margin	Comments
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)	
							EIRP
2481	-45.8	-9.0	7.8	-1.2	36.0	-37.1600	
2441	-47.8	-11.0	7.8	-3.2	36.0	-39.1600	
2404	-48.3	-11.5	7.8	-3.7	36.0	-39.6600	

Conducted power is calculated to be –4.2 dBm (380 $\mu\text{W})$ based on 3 dBi transmit antenna gain.

RBW / VBW = 1 MHz, Peak detector

Spurious Emissions Section 5.

NAME OF TEST: Spurious Emissions	PARA. NO.: 15.247 (d) / A8.5
TESTED BY: David Light	DATE: 24 August 2009

Test Results: Complies.

Measurement Data: See attached table.

Test Conditions: 22 %RH 35 °C

Measurement Uncertainty: +/-1.7 dB

Test Equipment Used: 1480-993-1484-1485-791-1016-1464

Notes:

 \square For handheld devices, the EUT was tested on three orthogonal axis'

- \square The device was tested from 30 MHz to the tenth harmonic of the highest fundamental frequency per 15.33
- \square The device was tested on three channels per 15.31(l).
- No emissions were detected within 20 dB of the specification limit therefore none are reported per 15.31(o). Band edge data is presented below.

RBW=VBW=100 kHz below 1000 MHz Peak Detector RBW=VBW=1 MHz above 1000 MHz Peak Detector

Spurious Emissions

Lower Band Edge



One pulse every 2.5 mS

Radiated Emissions

Measurement Data:	Read	ding liste	d by orc	ler taken		Tes	t Distanc	e: 3 Meter	S	
		Pre-A	Horn	Cable	Cable					
Frea	Rdna	Dutv		Cabio	Cabio	Dist	Corr	Spec	Margin	Polar
MHz	dBµŬ	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
2483.5	69.3	-33.0	+29.0	+0.8	+2.3	+0.0	68.4	74.0	-5.6	Horiz
		+0.0						High Chai	nnel	
2483.5	69.3	-33.0	+29.0	+0.8	+2.3	+0.0	48.4	54.0	-5.6	Horiz
Ave		-20.0						High Cha	nnel	
4962.0	61.7	-32.2	+33.7	+1.0	+3.3	+0.0	67.5	74.0	-6.5	Horiz
		+0.0						High Cha	nnel	
4962.0	61.7	-32.2	+33.7	+1.0	+3.3	+0.0	47.5	54.0	-6.5	Horiz
Ave		-20.0						High Cha	nnel	
2483.5	64.3	-33.0	+29.0	+0.8	+2.3	+0.0	63.4	74.0	-10.6	Vert
		+0.0						High Cha	nnel	
2483.5	64.3	-33.0	+29.0	+0.8	+2.3	+0.0	43.4	54.0	-10.6	Vert
Ave		-20.0						High Chai	nnel	
4962.0	64.7	-32.2	+33.7	+1.0	+3.3	+0.0	70.5	74.0	-3.5	Vert
1000.0		+0.0						High Chai	nnel	
4962.0	64.7	-32.2	+33.7	+1.0	+3.3	+0.0	50.5	54.0	-3.5	Vert
AVe	07.0	-20.0	. 00. 4	.1.0			70.0	High Chai	nnei	Mart
4882.0	67.2	-32.3	+33.4	+1.0	+3.3	+0.0	72.6	/4.0	-1.4	Vert
4000.0	07.0	+0.0		.1.0			50.0			\/ort
4882.0	67.Z	-32.3	+33.4	+1.0	+3.3	+0.0	52.0	04.U	-1.4	ven
Ave 4992.0	50.2	-20.0	122.4	11.0		10.0	64.7			Horiz
4002.0	59.5	-32.3	+33.4	+1.0	+3.3	+0.0	04.7	74.0 Mid Chan	-9.3 nol	HUHZ
/882.0	50.3	-32.3	±33 \	±1 0	T 3 3	+0.0	11 7	54 0	-0.3	Horiz
4002.0 Ave	59.5	-20.0	+55.4	+1.0	+5.5	+0.0	44.7	Mid Chan	-9.5 nel	TIONZ
4808.0	50.3	-32.4	+33.1	+1.0	+3.2	+0.0	64.2	74.0	_9.8	Horiz
4000.0	00.0	+0.0	100.1	11.0	10.2	10.0	04.2	Low Char	nel	TIONZ
4808.0	59.3	-32.4	+33.1	+1.0	+3.2	+0.0	44 2	54.0	-9.8	Horiz
Ave	00.0	-20.0	100.1		10.2	. 0.0	11.2	Low Char	nel	TIONE
4808.0	65.8	-32.4	+33.1	+1.0	+3.2	+0.0	70.7	74.0	-3.3	Vert
	5010	+0.0						Low Char	nel	
4808.0	65.8	-32.4	+33.1	+1.0	+3.2	+0.0	50.7	54.0	-3.3	Vert
Ave		-20.0						Low Char	nel	

All measurements are peak unless otherwise indicated.

All emissions within 20 dB of the specification limit are reported.

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Section 6. Peak Power Spectral Density

NAME OF TEST: Peak Power Spectral Density	PARA. NO.: 15.247(e) A8.2(b)
TESTED BY: David Light	DATE: 24 August 2009

Test Results: Complies.

Measurement Data:

Frequency	Meter Reading	Substitution Level	Substitution Antenna Gain	EIRP	Limit	Margin	Comments
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)	
							Density
2481	-61.0	-24.2	7.8	-16.4	8.0	-24.3600	
2441	-63.3	-26.5	7.8	-18.7	8.0	-26.6600	
2404	-64.0	-27.2	7.8	-19.4	8.0	-27.3600	

This test was performed radiated using the signal substitution method. Peak spectral density is calculated to be -19.4 dBm based on 3 dBi transmit antenna.

Analyzer Settings:

Span = 1 MHz RBW / VBW = 3 kHz Sweep Time = 350 seconds Peak Detector.

 Test Conditions:
 22
 %RH

 35
 °C

Measurement Uncertainty: +/-1.7 dB

Test Equipment Used: 1484-1485-1464-993

Section 7. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	02/27/09	02/28/11
1484	Cable	Storm PR90-010-072	N/A	06/23/09	06/23/10
1485	Cable	Storm PR90-010-216	N/A	06/23/09	06/23/10
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	06/23/09	06/23/10
791	PREAMP, 25dB	Nemko USA, Inc. LNA25	398	05/28/09	05/28/10
1480	Bilog Antenna	Schaffner-Chase CBL6111C	2572	10/17/08	10/17/09
993	Horn antenna	A.H. Systems SAS-200/571	XXX	08/31/07	08/31/09
802	Near Field Probe Set	EMCO 7405	103	N/A	N/A
1082	CABLE 2m	Astrolab 32027-2-29094-72TC	N/A	CBU	N/A

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ANNEX A - TEST DETAILS

Nemko USA, Inc.

CFR 47 PART 15, SUBPART C and IC RSS-210

EQUIPMENT: 8150200 Active AirBat

NAME OF TEST: Powerline Conducted Emissions PARA. NO.: 15.207(a)

Minimum Standard: §15.207 Conducted limits.

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 mH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of Conducted	Limit (dBmV)
Emission (MHz)	Quasi-peak	Average
	001.50*	FO 1. 40*
0.15-0.5	66 to 56°	56 to 46°
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

(1) For carrier current systems containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 mV within the frequency band 535-1705 kHz, as measured using a 50 mH/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits as provided in §15.205 and §§15.209, 15.221, 15.223, 15.225 or 15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provision for, the use of battery chargers which permit operating while charging, AC adaptors or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

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NAME OF TEST: Occupied Bandwidth

PARA. NO.: 15.247(a)(2)

Minimum Standard: The minimum 6 dB bandwidth shall be at least 500 kHz

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CFR 47 PART 15, SUBPART C and IC RSS-210

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MAIVIL OI ILOI. WAXIIIUIII FEAN OULPUL FOWEI FANA. NO 13.247(D)(3)
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Minimum Standard:The maximum peak output power shall not exceed 1 watt.If transmitting antennas of directional gain greater than 6 dBi
are used, the power shall be reduced by the amount in dB
that the directional gain of the antenna exceeds 6 dBi.Systems operating in the 2400-2483.5 MHz band that are
used exclusively for fixed, point to point operation may
employ transmitting antennas with directional gain greater
than 6 dBi provided the maximum peak output power is
reduced by 1 dB for every 3 dB that the directional gain of
the antenna exceed 6 dBi.Systems operating in the 5725 – 5850 MHz band that are
used exclusively for fixed, point-to-point operation may
employ transmitting antennas with directional gain greater
than 6 dBi.

Direct Measurement Method For Detachable Antennas:

peak output power.

If the antenna is detachable, a peak power meter is used to measure the power output with the transmitter operating into a 50 ohm load. The dBi gain of the antenna(s) employed shall be reported.

Substitution Antenna Method for Integral Antennas:

The peak field strength of the carrier is measured in a worst-case configuration with a RBW > 5 times the occupied bandwidth of the transmitted waveform. For cases where the RBW of the test instrument is not sufficient, the power is measured using a peak power meter instead of the spectrum analyzer.

The RBW of the spectrum analyzer shall be set to a value greater than the measured 6 dB occupied bandwidth of the E.U.T.

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

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EQUIPMENT: 8150200 Active AirBat

NAME OF TEST: Occupied Bandwidth

PARA. NO.: 15.247(a)(2)

Minimum Standard: 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 at least 500 kHz.

Method Of Measurement:

The spectrum analyzer is set as follows:

RBW = VBW = 100 kHz.Span: Sufficient to display 6 dB bandwidth LOG dB/div.: 10 dB Sweep: Auto

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Spurious Emissions(conducted) PARA. NO.: 15.247(d)

Minimum Standard: In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits. Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength 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

THE SPECTRUM IS SEARCHED TO THE 10th HARMONIC OF THE HIGHEST FREQUENCY GENERATED IN THE EUT.

Method Of Measurement:

30 MHz - 10th harmonic plot RBW: 100 kHz VBW: 300 kHz Sweep: Auto Display line: -20 dBc

Lower Band Edge

RBW: At least 1% of span/div. VBW: >RBW Span: As necessary to display any spurious at band edge. Sweep: Auto Center Frequency: 902 MHz, 2400 MHz, or 5725 MHz Marker: Peak of fundamental emission Marker ∆: Peak of highest spurious level below center frequency.

Upper Band Edge RBW: At least 1% of span/div. VBW: >RBW Span: As necessary to display any spurious at band edge. Sweep: Auto Center Frequency: 928 MHz, 2483.5 MHz, or 5850 MHz Marker: Peak of fundamental emission Marker ∆: Peak of highest spurious level above center frequency.

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

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NAME OF TEST: Radiated Spurious Emissions PARA. NO.: 15.247(c)

Minimum Standard: In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits:

Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength 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

THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC

	<u>15.205 R</u>	estricted Bands	
MHz	MHz	MHz	GHz
0.09-0.11	16.42-16.423	399.9-410	4.5-5.25
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
6.125-6.218	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	2655-2900	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	Above 38.6
13.36-13.41	1718		

15 205 Restricted Bands

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

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NAME OF TEST: Transmitter Power Density	PARA. NO.: 15.247(d)

Minimum Standard: The transmitted power density averaged over any 1 second interval shall not be greater than +8 dBm in any 3 kHz bandwidth.

Method Of Measurement: The spectrum analyzer is set as follows:

RBW: 3 kHz VBW: >3 kHz Span: => measured 6 dB bandwidth Sweep: Span(kHz)/3 (i.e. for a span of 1.5 MHz the sweep rate is 1500/3 = 500 sec. LOG dB/div.: 2 dB

Note: For devices with spectrum line spacing =< 3 kHz, the RBW of the analyzer is reduced until the spectral lines are resolved. The measurement data is normalized to 3 kHz by summing the power of all the individual spectral lines within a 3 kHz band in linear power units.

For Devices With Integral Antenna:

For devices with non-detachable antennas, the received field strength is peaked and the spectrum analyzer is set as above. The peak emission level is then measured and converted to a field strength by adding the appropriate antenna factor and cable loss. This field strength is then converted to an equivalent isotropic radiated power using the same method as described for Peak Power output.

Tuning Range	Number Of Channels Tested	Channel Location In Band
1 MHz or Less	1	Middle
1 to 10 MHz	2	Top And Bottom
More Than 10 MHz	3	Top, Middle, Bottom

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ANNEX B - TEST DIAGRAMS

Nemko USA, Inc.

EQUIPMENT: 8150200 Active AirBat

Test Site For Radiated Emissions



Conducted Emissions



Peak Power At Antenna Terminals



Note: A spectrum analyzer may be substituted for Peak Power Meter given that the measurement bandwidth is sufficient to capture the 60 dB bandwidth of the transmitter.

Minimum 6 dB Bandwidth Peak Power Spectral Density Spurious Emissions (conducted)

