



**FCC Part 15, Subpart C  
Test Report**

On

Kuvee Smart Bottle  
FCC ID: 2AIDY-SBK-07

**Customer Name:** Kuvee, Inc.

**Customer P.O:** Trans ID# 32D218963W764582D

**Date of Report:** May 23, 2016

**Test Report No:** R-6096N-1

**Test Start Date:** May 11, 2016

**Test Finish Date:** May 13, 2016

**Test Technician:** M. Seamans

**Approved By:** S. Wentworth

**Report Prepared By:** J. Ramsey

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## Certification and Signatures

We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.



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Scott Wentworth  
Branch Manager  
NVLAP Approved Signatory



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Todd Hannemann  
EMC Test Engineer  
iNARTE Certified Technician ATL-0255-T

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The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

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**Retlif Testing Laboratories**

Report No. R-6096N-1

## Technical Information

**Report Number:** R-6096N-1

**Applicant:** Kuvee, Inc.  
125 Kingston St., 3<sup>rd</sup> Floor  
Boston, MA 02111

**Manufacturer:** Plexus Manufacturing Solutions

**Manufacturer Address:** Paseo del Norte 4640 Technology Park  
45010 Zapopan, JAL, Mexico

**Test Sample:** Kuvee Smart Bottle

**Part Number:** SBK-07

**Model Number:** SBK-07

**Serial Number:** KV16050003

**Brand Name:** Kuvee, Inc.

**Power Requirements:** 120 VAC, 60 Hz

**Frequency of Operation:** 13.56 MHz

**Antenna Type:** Internal PCB Trace Antenna, No External Antenna Port

**Equipment Use:** RFID Tag Reader

**Test Specification:**

FCC Rules and Regulations Part 15, Subpart C, Section 15.225 and 15.209

**Test Procedure:**

ANSI C63.4:2009

**Test Facility:**

Retlif Testing Laboratories  
101 New Boston Road  
Goffstown, NH 03045

FCC Registered Test Site Number: 90899



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### **EUT Description/Installation:**

The Kuvee Smart Bottle, or Smart Bottle, is a wine dispensing device intended for residential consumer use. It serves to provide an enhanced experience for people who enjoy wine. When the consumer inserts a Kuvee branded wine cartridge into the smart bottle, it presents the wine label on the touchscreen display. The user can navigate the user interface to discover the story of the wine, and the user can even order wine right to the bottle. The bottle uses NFC technology to read the tag on the bottle and the bottle also has Wifi to keep the list of the wines up to date. The setup of the bottle incorporates Bluetooth low energy. The bottle is charged on a charging dock, which has a USB port for charging input.

### **Tests Performed**

The test methods performed on the Kuvee Smart Bottle are shown below:

<b>FCC Part 15, Subpart C</b>	<b>Test Method</b>
15.225(a)	Field Strength of Fundamental
15.225(b)(c)(d) and 15.209	Field Strength of Spurious, Out of Band/Band Edge Emissions
15.225(e)	Frequency Tolerance
15.207(a)	Conducted Emissions, 150 kHz to 30 MHz

### **Support Equipment**

The following support equipment was used during testing:

<b>Description</b>	<b>Manufacturer</b>	<b>Part Number</b>	<b>Model Number</b>	<b>Serial Number</b>
Laptop PC	Lenovo	20ED-001HUS	11e	LR-04EB2V 15110

### **General Test Requirements**

1. The measurement procedures of ANSI C63.4:2009 were utilized as specified in FCC Part 15, Subpart C, Section 15.31(a)(3).
2. All measurements were performed at a 3 meter test distance.
3. The EUT was rotated throughout 360 degrees for all radiated emissions measurements as specified in FCC Section 15.31(f)(5).
4. All readily accessible EUT controls were adjusted in such a manner as to maximize the level of emissions in accordance with FCC Section 15.31(g).
5. Appropriate accessories were attached to all EUT ports during the performance of radiated emissions measurements as required by FCC Section 15.31(i).



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## Requirements and Test Results

### Requirement:

#### FCC Section 15.225 (a)

##### Field Strength of Fundamental

FCC Section 15.225(a) – The field strength of any emission within the band 13.553 MHz – 13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

Field Strength Measurement & Calculation:

The following spectrum analyzer settings were used:

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f \leq 1$  GHz

VBW  $\geq$  RBW

Detector Function = Peak or Average as applicable

Trace = Max Hold

Sweep = Auto

The maximized field strength of the emission was calculated as follows:

$$F_C = M_R + C_F$$

Where:

$F_C$  = Corrected Field Strength Reading in  $\text{dB}\mu\text{V}/\text{m}$

$M_R$  = Uncorrected Meter Reading in  $\text{dB}\mu\text{V}$

$C_F$  = Correction Factor in dB (Pre-Amp + Antenna Factor + Cable Loss + Distance Factor)

For frequencies below 30 MHz a distance factor of -40dB/decade was utilized



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## Requirements and Test Results (con't)

### 15.225 (a) Field Strength of Fundamental

#### Radiated Emissions Measurement Procedure:

The field strength of the fundamental emission was measured with a spectrum analyzer or EMI Receiver. The EUT was placed on an 80cm high wooden test stand located 3 meters from the test antenna on a FCC listed open area test site. Emissions from the EUT were maximized by re-orientating the test sample, rotating the test sample 360 degrees, changing the orientation of the receive antenna and raising and lowering the test antenna from 1 – 4 meters. The maximized field strength of each observed emission was measured, recorded and compared to the specified limits of 15.225(a) as appropriate.

- **Results:** The maximized measured field strength of the fundamental emission was below the specified test limit of 15.225(a). See test data.

#### Requirement:

**FCC Section 15.225 (b)** - The field strength of any emission within the 13.410 – 13.553 MHz and 13.567 MHz – 13.710 MHz bands shall not exceed 334 uV/M at 30 meters.

**FCC Section 15.225 (c)** - The field strength of any emission within the 13.110 – 13.410 MHz and 13.710 – 14.010 MHz band shall not exceed 106 uV/M at 30 meters.

**FCC Section 15.225 (d)** - The field strength of any emission outside the 13.553 MHz – 13.567 MHz band shall not exceed the general radiated limits of 15.209 as shown below.

Test Limits, Field Strength of Out of Band Emissions

Fundamental Frequency (MHz)	Field Strength of Fundamental microvolts/meter	Measurement Distance
0.009 to 0.490	2400/F(kHz)	300
0.490 to 1.705	24000/F(kHz)	30
1.705 to 30.0	30	30
30.0 to 88.0	100	3
88.0 to 216.0	150	3
216.0 to 960.0	200	3
Above 960.0	500	3



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## Requirements and Test Results (con't)

### FCC Section 15.225 (b)(c)(d)

#### Radiated Emissions Measurement Procedure:

The field strength of radiated emissions were measured with a spectrum analyzer or EMI Receiver. The EUT was placed on an 80cm high wooden test stand located 3 meters from the test antenna on a FCC listed open area test site. Emissions from the EUT were maximized by re-orientating the test sample, rotating the test sample 360 degrees, changing the polarization/orientation of the test antenna and raising and lowering the test antenna from 1 – 4 meters. The maximized field strength of each observed emission was measured, recorded and compared to the specified limits of 15.225(b)(c)(d)/15.209. When necessary, the marker/delta method was used to verify bandedge compliance.

- **Results:** The maximized measured field strength of the radiated emissions were below the specified test limits of 15.225(b)(c)(d)/15.209. See test data.

#### Requirement:

### FCC Section 15.225 (e) Frequency Tolerance

The frequency tolerance of the carrier signal must be maintained within  $\pm 0.01\%$  of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage.

#### Frequency Tolerance Measurement Procedure

The EUT was placed in a temperature chamber and a frequency counter was connected to the EUT's RF output. The EUT's RF output frequency was measured and recorded over the temperature range of -20 degrees to +50 degrees C at 10 degree increments.

- **Results:** The frequency tolerance of the EUT was in compliance with the specified requirements of 15.225(e). See test data.



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## Requirements and Test Results (con't)

### Requirement:

#### FCC Section 15.207(a)

##### Conducted Emissions

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 shown below as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of the 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.

Conducted Emission Limits

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

\*Decreases due to logarithm of the frequency

##### Conducted Emissions Measurement Procedure

The EUT and associated cabling was placed on a 0.8 m high non-conductive test stand above the horizontal ground plane. The horizontal ground plane extended at least 0.5 m beyond the boundary of the equipment under test, and had a minimum size of 2.0 m x 2.0 m. The 0.8 m test stand was positioned such that the distance between the EUT and the vertical reference plane was 0.4 m. The LISN was located so that its closest surface was no less than 0.8 m from the nearest boundary of the equipment under test.

Each current carrying conductor of the EUT's power cord was then connected to a 50 ohm/50  $\mu$ H LISN. The LISN was mounted to the ground plane in a position that produced a minimum distance of 0.8 m between the EUT and the LISN.

The RF port of the LISN was connected to the test receiver by means of 50 Ohm coaxial cable.

- **Results:**

The conducted emissions observed from the EUT did not exceed the limits specified in 15.207(a).



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## Equipment Lists

### FCC Section 15.225(a) – Field Strength of Fundamental

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
3207	ETS / EMCO	ANTENNA, ACTIVE LOOP	10 KHz - 30 MHz	6502	3/17/2016	3/31/2017
4029	RETLIF	OPEN AREA TEST SITE, FILING	3 / 10 Meters	RNH	5/15/2013	5/31/2016
R469	AGILENT / HP	ANALYZER, SPECTRUM	100 Hz - 26.5 GHz	E7405A;A	11/17/2015	11/30/2016

### FCC Section 15.225(d) & 15.209 – Field Strength of Spurious and Out of Band Emissions

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
1232	AGILENT / HP	PRE-AMPLIFIER	1 - 26.5 GHz	8449B	6/17/2015	6/30/2016
3207	ETS / EMCO	ANTENNA, ACTIVE LOOP	10 KHz - 30 MHz	6502	3/17/2016	3/31/2017
3258	ETS / EMCO	ANTENNA, DOUBLE RIDGED GUIDE	1 - 18 GHz	3115	3/24/2015	9/30/2016
4029	RETLIF	OPEN AREA TEST SITE, FILING	3 / 10 Meters	RNH	5/15/2013	5/31/2016
5053	ETS / EMCO	ANTENNA, BICONILOG	26 MHz - 3 GHz	3142C	2/24/2015	8/31/2016
R469	AGILENT / HP	ANALYZER, SPECTRUM	100 Hz - 26.5 GHz	E7405A;A	11/17/2015	11/30/2016

### FCC Section 15.225(e) – Frequency Tolerance

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
4997	OMEGA	THERMOMETER, DIGITAL	- 200 deg. C - +1372 deg. C	HH22	9/21/2015	9/30/2016
5077	ASSOCIATED ENVIRONMENTAL	CHAMBER, TEMPERATURE	- 50 - 150 deg. C	ZFD-531	7/14/2015	7/31/2016
5133	NARDA MICROWAVE ATTENUATOR, COAXIAL		10 dB, DC - 12.4 GHz	757C-10	10/28/2015	10/31/2016
R469	AGILENT / HP	ANALYZER, SPECTRUM	100 Hz - 26.5 GHz	E7405A;A	11/17/2015	11/30/2016

### FCC Section 15.207 – Conducted Emissions, 150 kHz to 30 MHz

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
4027	SOLAR ELECTRONICS	LISN	50 uH, 10 kHz - 50 MHz	9252-50-R-24-BNC	2/29/2016	2/28/2017
4028	ACME	TRANSFORMER, ISOLATION		120X240		No Calibration Required
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/29/2014	10/31/2016
5133	NARDA MICROWAVE ATTENUATOR, COAXIAL		10 dB, DC - 12.4 GHz	757C-10	10/28/2015	10/31/2016
5151	DELL	COMPUTER, CONTROL	N/A	OPTIPLEX 755		No Calibration Required



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**Test Photograph(s)**  
**Field Strength of Fundamental**  
**FCC Part 15, Subpart C, Section 15.225(a)**



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**Test Photograph(s)  
Field Strength of Fundamental**



Test Setup, OATS, 9 kHz to 30 MHz



Test Configuration



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**FCC Section 15.225(a) – Field Strength of Fundamental  
Test Data**



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## RETLIF TESTING LABORATORIES

## EMISSIONS TEST DATA SHEET

EMISSIONS TEST DATA SHEET		
<b>Test Method</b>	<b>Field Strength of Fundamental</b>	
<b>Customer</b>	Kuvee, Inc.	
<b>Job Number</b>	R-6096N-1	
<b>Test Sample</b>	Kuvee Smart Bottle	
<b>Model Number</b>	SBK-07	
<b>Serial Number</b>	KV16050003	
<b>Test Specification</b>	FCC Part 15, Subpart C	Paragraph: 15.225(a)
<b>Operating Mode</b>	Transmitting RFID signal at 13.56 MHz	
<b>Technician</b>	M. Seamans	
<b>Date</b>	May 11 <sup>th</sup> , 2016	
<b>Notes:</b>	Test Distance: 3 meters      Detector: Peak	

## TEST PARAMETERS

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## Retlif Testing Laboratories

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**Test Photograph(s)**  
**Field Strength of Spurious and Out of Band Emissions**  
**FCC Part 15, Subpart C, Section 15.225 (b)(c)(d) and FCC 15.209**



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**Test Photograph(s)**  
**Field Strength of Spurious and Out of Band Emissions**



Test Setup



Test Setup, OATS, 9 kHz to 30 MHz



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**Test Photograph(s)**  
**Field Strength of Spurious and Out of Band Emissions**



Test Setup, OATS, 30 MHz to 1 GHz, Horizontal Antenna Polarization



Test Setup, OATS, 30 MHz to 1 GHz, Vertical Antenna Polarization



**Retlif Testing Laboratories**

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**Test Photograph(s)**  
**Field Strength of Spurious and Out of Band Emissions**



Test Setup, OATS, 1 to 5 GHz, Horizontal Antenna Polarization



Test Setup, OATS, 1 to 5 GHz, Vertical Antenna Polarization



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**FCC Part 15, Subpart C, Section 15.225 (b)(c)(d) and FCC 15.209 –  
Field Strength of Spurious and Out of Band Emissions**

**Test Data**



**Retlif Testing Laboratories**

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## RETLIF TESTING LABORATORIES

## EMISSIONS TEST DATA SHEET

EMISSIONS TEST DATA SHEET		
<b>Test Method</b>	<b>Field Strength of Out of Band Emissions</b>	
<b>Customer</b>	Kuvee, Inc.	
<b>Job Number</b>	R-6096N-1	
<b>Test Sample</b>	Kuvee Smart Bottle	
<b>Model Number</b>	SBK-07	
<b>Serial Number</b>	KV16050003	
<b>Test Specification</b>	FCC Part 15, Subpart C	Paragraph: 15.209
<b>Operating Mode</b>	Continuously transmitting signal at 13.56MHz	
<b>Technician</b>	M. Seamans	
<b>Date</b>	May 11 <sup>th</sup> , 2016	
<b>Notes:</b> Antenna Test Distance: 3 meters		

## TEST PARAMETERS

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. \* This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 1 of 3



## Retlif Testing Laboratories

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## RETLIF TESTING LABORATORIES

## EMISSIONS TEST DATA SHEET

EXTENSIONS TEST DATA SHEET	
<b>Test Method</b>	<b>Field Strength of Out of Band Emissions</b>
<b>Customer</b>	Kuvee, Inc.
<b>Job Number</b>	R-6096N-1
<b>Test Sample</b>	Kuvee Smart Bottle
<b>Model Number</b>	SBK-07
<b>Serial Number</b>	KV16050003
<b>Test Specification</b>	FCC Part 15, Subpart C
	Paragraph: 15.209
<b>Operating Mode</b>	Continuously transmitting signal at 13.56MHz
<b>Technician</b>	M. Seamans
<b>Date</b>	May 11 <sup>th</sup> , 2016

## TEST PARAMETERS

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. \* This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 2 of 3



## Retlif Testing Laboratories

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# RETLIF TESTING LABORATORIES

## EMISSIONS TEST DATA SHEET

<b>Test Method</b>	<b>Field Strength of Out of Band Emissions</b>	
<b>Customer</b>	Kuvee, Inc.	
<b>Job Number</b>	R-6096N-1	
<b>Test Sample</b>	Kuvee Smart Bottle	
<b>Model Number</b>	SBK-07	
<b>Serial Number</b>	KV16050003	
<b>Test Specification</b>	FCC Part 15, Subpart C	Paragraph: 15.209
<b>Operating Mode</b>	Continuously transmitting signal at 13.56MHz	
<b>Technician</b>	M. Seamans	
<b>Date</b>	May 11 <sup>th</sup> , 2016	
<b>Notes:</b> Antenna Test Distance: 3 meters		

## TEST PARAMETERS

Frequency	Antenna Position	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading		Converted Reading	Limit at 3M
MHz	(H/V) / Height	Degrees	dBuV	dB	dBuV/m		uV/m	uV/m
30.00	-	-	-	-	-		-	100.00
	-	-	-	-	-		-	
88.00	-	-	-	-	-		-	100.00
88.00	-	-	-	-	-		-	150.00
	-	-	-	-	-		-	
216.00	-	-	-	-	-		-	200.00
216.00	-	-	-	-	-		-	200.00
	-	-	-	-	-		-	
253.50	V-1.5m	0.0	23.58	16.33	39.91		98.97	
282.50	V-1.5m	0.0	27.44	17.13	44.57		169.24	
315.50	V-1.5m	0.0	26.21	17.99	44.20		162.18	
348.50	V-1.5m	0.0	20.83	20.15	40.98		111.94	
382.00	V-1.5m	0.0	12.42	21.29	33.71		48.47	
	-	-	-	-	-		-	
960.00	-	-	-	-	-		-	200.00
960.00	-	-	-	-	-		-	500.00
	-	-	-	-	-		-	
5000.00	-	-	-	-	-		-	500.00

EUT emissions observed throughout the given frequency spectrum were recorded and evaluated. Emission levels closest to the limit are listed on this data sheet.

Data Sheet 3 of 3



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## RETLIF TESTING LABORATORIES

## EMISSIONS TEST DATA SHEET

EXTENDED TEST DATA SHEET		
<b>Test Method</b>	<b>Band Edge</b>	
<b>Customer</b>	Kuvee, Inc.	
<b>Job Number</b>	R-6096N-1	
<b>Test Sample</b>	Kuvee Smart Bottle	
<b>Model Number</b>	SBK-07	
<b>Serial Number</b>	KV16050003	
<b>Test Specification</b>	FCC Part 15, Subpart C	Paragraph: 15.209
<b>Operating Mode</b>	Continuously transmitting signal at 13.56MHz	
<b>Technician</b>	M. Seamans	
<b>Date</b>	May 11 <sup>th</sup> , 2016	
<b>Notes:</b>	Antenna Test Distance: 3 meters      Band: 13.110-14.010 MHz	

## TEST PARAMETERS

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. \* This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

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## Retrif Testing Laboratories

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**Test Photograph(s)  
Frequency Tolerance  
FCC Part 15, Subpart C, Section 15.225(e)**



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**Test Photograph(s)  
Frequency Tolerance**



Test Setup 1



Test Setup 2



**Retlif Testing Laboratories**

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**FCC Section 15.255(e) – Frequency Tolerance  
Test Data**



**Retlif Testing Laboratories**

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## RETLIF TESTING LABORATORIES

## EMISSIONS TEST DATA SHEET

FCC ID: 2AB9X Test Data Sheet	
<b>Test Method</b>	<b>Frequency Tolerance</b>
<b>Customer</b>	Kuvee, Inc.
<b>Job Number</b>	R-6096N-1
<b>Test Sample</b>	Kuvee Smart Bottle
<b>Model Number</b>	SBK-07
<b>Serial Number</b>	KV16050003
<b>Test Specification</b>	FCC Part 15.225(e)
<b>Operating Mode</b>	Continuously transmitting signal at 13.56MHz
<b>Technician</b>	M. Seamans
<b>Date</b>	May 10 <sup>th</sup> , 2016

**Notes:** EUT was powered off during temperature soak, then powered on for five minutes transmitting

## TEST PARAMETERS

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## Retlif Testing Laboratories

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**Test Photograph(s)**  
**Conducted Emissions, 150 kHz to 30 MHz**  
**FCC Section 15.207(a)**



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**Test Photograph(s)**  
**Conducted Emissions, 150 kHz to 30 MHz**



**Test Configuration**



**Test Setup**



**Retlif Testing Laboratories**

**Report No. R-6096N-1**

**FCC Section 15.207(a) – Conducted Emissions, 150 kHz to 30 MHz  
Test Data**

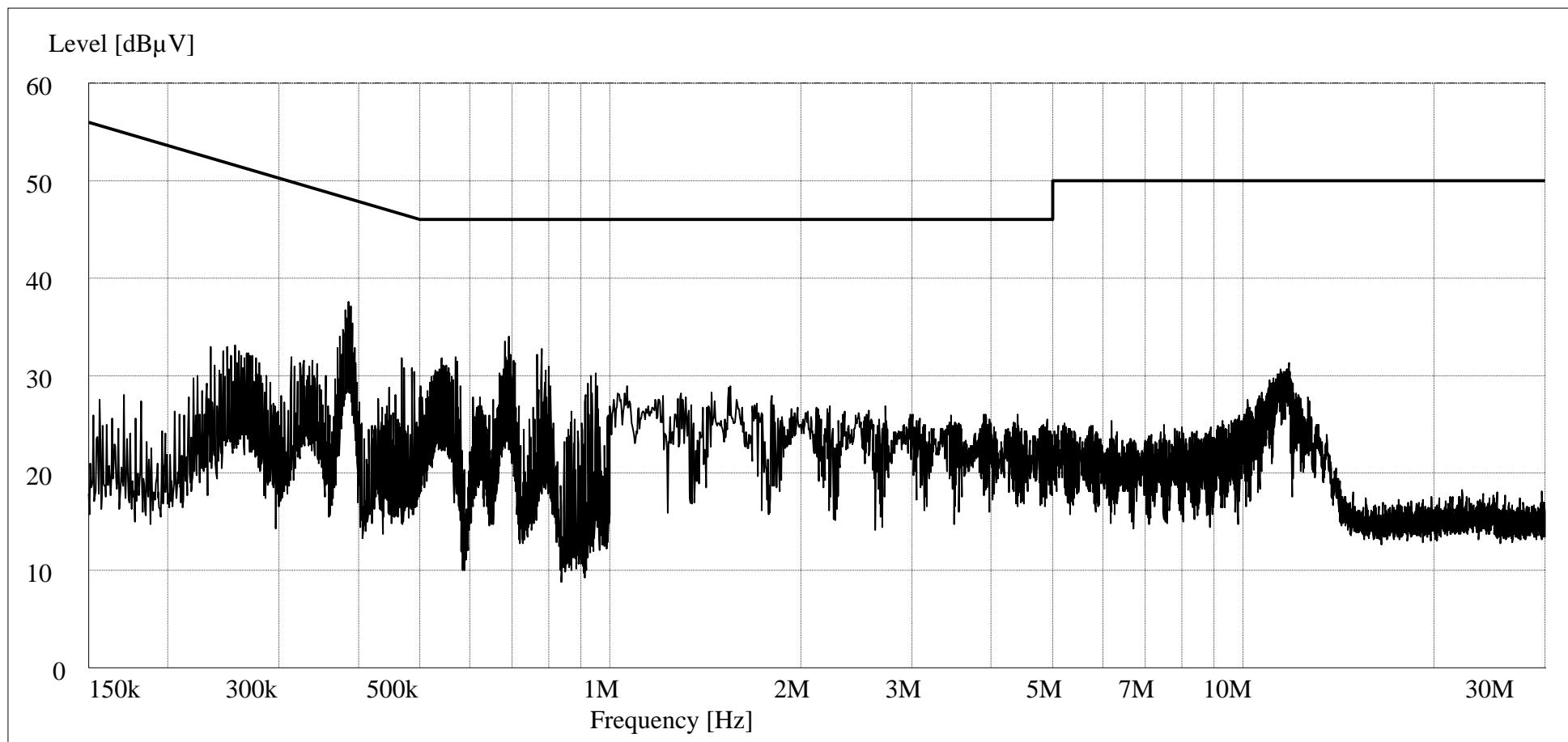


**Retlif Testing Laboratories**

**Report No. R-6096N-1**

# RETLIF TESTING LABORATORIES

Test Method	Conducted Emissions 150 kHz to 30 MHz		
Customer	Kuvee, Inc.	Job No.	R-6096N-1
Test Sample	Kuvee Smart Bottle		
Model No.	SBK-07	Serial No.	KV16050003
Operating Mode	Charging		
Test Specification	FCC Part 15. 207(a)		
Technician	M. Seamans	Date	May 13 <sup>th</sup> , 2016
Climatic Conditions	Temp: 19.5 °C Relative Humidity: 30.0 %		
Lead Tested	120 VAC 60 Hz Hot	Peak Readings to Average Limits.	



# RETLIF TESTING LABORATORIES

Test Method	Conducted Emissions 150 kHz to 30 MHz		
Customer	Kuvee, Inc.	Job No.	R-6096N-1
Test Sample	Kuvee Smart Bottle		
Model No.	SBK-07	Serial No.	KV16050003
Operating Mode	Charging		
Test Specification	FCC Part 15. 207(a)		
Technician	M. Seamans	Date	May 13 <sup>th</sup> , 2016
Climatic Conditions	Temp: 19.5 °C      Relative Humidity: 30.0 %		
Lead Tested	120 VAC 60 Hz Neutral      Peak Readings to Average Limits.		

Level [dB $\mu$ V]

