

## **15.247(d)** Field Strength of Spurious Emissions

## Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious Emi	ssions	
Work Order #:	94232	Date:	8/22/2013
Test Type:	Radiated Scan	Time:	15:41:25
Equipment:	Household Air Mattress Inflator	Sequence#:	87
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

-	1	1				
	ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	T1	AN00432	Loop Antenna	6502	4/2/2013	4/2/2015
	T2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
	T3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
		AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):						
Function	Manufacturer	Model #	S/N			
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F			

Model #

S/N

## Support Devices:

Function Manufacturer

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 9kH to 30 MHz High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHZ RF Output of the chip = 0dBm Gain of the antenna = 1dBi 9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz. The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit. Note: Bluetooth is operated only.

Low Channel



<i>Measurement Data:</i> Reading listed by margin.			argin.		Τe	est Distance	e: 3 Meters	<b>b</b>			
#	Freq	Rdng	T1	T2	T3		Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	674.766k	37.8	+9.9	+0.1	+0.0		-40.0	7.8	31.0	-23.2	Perpe
2	509.601k	39.5	+9.8	+0.1	+0.0		-40.0	9.4	33.5	-24.1	Paral
3	902.653k	33.8	+9.5	+0.1	+0.0		-40.0	3.4	28.5	-25.1	Perpe
4	896.381k	33.9	+9.5	+0.1	+0.0		-40.0	3.5	28.6	-25.1	Paral
5	1.076M	31.8	+9.7	+0.1	+0.0		-40.0	1.6	27.0	-25.4	Perpe
6	1.467M	28.8	+9.8	+0.1	+0.0		-40.0	-1.3	24.3	-25.6	Paral

CKC Laboratories, Inc. Date: 8/22/2013 Time: 15:41:25 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 87





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	s Emissions	
Work Order #:	94232	Date:	8/22/2013
Test Type:	Radiated Scan	Time:	11:43:15
Equipment:	Household Air Mattress Inflator	Sequence#:	72
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

## Equipment Under Test (\* = EUT):

Equipilient Chael Test (	LU1).		
Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

#### Support Devices:

Function Manufacturer Model #

## Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 30MHz to 1000MHz

## High Clock: 32MHz

Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz RF Output of the chip = 0dBm Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

## Note: Bluetooth is operated only. Low Channel

S/N



Measu	rement Data:	Re	eading lis	ted by ma	argin.		Te	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	944.401M	36.8	-27.1	+23.5	+3.5	+1.0	+0.0	38.6	46.0	-7.4	Horiz
			+0.9								
2	30.200M	38.1	-27.1	+18.3	+0.5	+0.2	+0.0	30.1	40.0	-9.9	Vert
			+0.1								
3	41.180M	40.2	-27.0	+12.8	+0.6	+0.1	+0.0	26.9	40.0	-13.1	Vert
			+0.2								
4	546.398M	36.5	-26.9	+19.1	+2.5	+0.6	+0.0	32.5	46.0	-13.5	Horiz
			+0.7								
5	313.125M	42.1	-27.0	+13.1	+1.8	+0.4	+0.0	30.9	46.0	-15.1	Horiz
			+0.5								
6	266.399M	41.1	-27.0	+13.8	+1.7	+0.4	+0.0	30.4	46.0	-15.6	Vert
			+0.4								

CKC Laboratories, Inc. Date: 8/22/2013 Time: 11:43:15 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 72





Customer:	Bam Labs 15 247(d) / 15 200 Padiated Spurious	Emissions	
Specification.	15.247(u) / 15.209 Kaulateu Spullous		
Work Order #:	94232	Date:	8/20/2013
Test Type:	Radiated Scan	Time:	15:27:52
Equipment:	Household Air Mattress Inflator	Sequence#:	9
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

#### Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI	3115	1/23/2013	1/23/2015
		C63.5			
T2	AN03302	Cable	32026-29094K-	3/21/2012	3/21/2014
			29094K-72TC		
T3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	AN03114	Preamp	AMF-7D-	4/11/2013	4/11/2015
			00101800-30-10P		
T5	AN03015	Cable	32022-2-29094K-	5/6/2013	5/6/2015
			24TC		
T6	AN03309	High Pass Filter	11SH10-	6/12/2012	6/12/2014
			3000/T10000-		
			O/O		

## Equipment Under Test (\* = EUT):

Manufacturer

Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

Model #

S/N

## Support Devices:

Hur	oction
ı uı	icuon

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 1000MHz to 12000MHz High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz RF Output of the chip = 0dBm Gain of the antenna = 1dBi 9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only. Low Channel



Meast	urement Data:	Reading listed by margin.				Test Distance: 3 Meters					
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6							
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	10182.914	56.0	+39.7	+2.3	+6.3	-58.2	+0.0	47.5	54.0	-6.5	Horiz
	Μ		+1.3	+0.1							
2	8551.791M	57.2	+37.5	+2.1	+5.6	-56.8	+0.0	47.4	54.0	-6.6	Horiz
			+1.5	+0.3							
3	9880.892M	55.3	+39.5	+2.3	+6.2	-58.0	+0.0	46.7	54.0	-7.3	Vert
			+1.3	+0.1							
4	3514.644M	69.2	+31.3	+1.3	+3.1	-59.4	+0.0	46.3	54.0	-7.7	Vert
			+0.4	+0.4							
5	4803.050M	64.8	+33.2	+1.5	+3.8	-58.3	+0.0	45.9	54.0	-8.1	Vert
			+0.7	+0.2							
6	7830.680M	57.1	+36.7	+2.0	+5.5	-58.4	+0.0	44.3	54.0	-9.7	Horiz
			+1.2	+0.2							

CKC Laboratories, Inc. Date: 8/20/2013 Time: 15:27:52 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 9





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	s Emissions	
Work Order #:	94232	Date:	8/21/2013
Test Type:	Radiated Scan	Time:	14:54:43
Equipment:	Household Air Mattress Inflator	Sequence#:	36
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP00928	Cable	various	2/10/2012	2/10/2014
T2	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
T3	ANP06126	Cable	32022-29094K-	9/7/2011	9/7/2013
			29094K-168TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	ANANT-	Active Horn Antenna	AMFW-5F-	2/21/2013	2/21/2015
	AN02693-		18002650-20-10P		
	20130221				

## *Equipment Under Test* (\* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

## Support Devices:

Function

Manufacturer

Model #

S/N

## Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 12000MHz to 18000MHz High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz RF Output of the chip = 0dBm Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

#### Note: Bluetooth is operated only. Low Channel



Measi	urement Data:	: Re	eading lis	ted by ma	argin.		Te	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	17390.957 M	44.9	+0.8	+3.0	+4.7	-14.6	+0.0	38.8	54.0	-15.2	Vert
2	17220.911 M	43.9	+0.8	+3.1	+4.7	-14.7	+0.0	37.8	54.0	-16.2	Horiz
3	14976.024 M	44.2	+1.0	+3.0	+4.3	-15.4	+0.0	37.1	54.0	-16.9	Horiz
4	13730.711 M	45.3	+0.9	+2.7	+4.2	-16.1	+0.0	37.0	54.0	-17.0	Horiz
5	15565.554 M	44.1	+1.0	+3.2	+4.4	-15.8	+0.0	36.9	54.0	-17.1	Vert
6	14420.671 M	43.8	+0.9	+2.9	+4.3	-15.5	+0.0	36.4	54.0	-17.6	Vert

CKC Laboratories, Inc. Date: 8/21/2013 Time: 14:54:43 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 36





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/21/2013
Test Type:	Radiated Scan	Time:	16:33:28
Equipment:	Household Air Mattress Inflator	Sequence#:	51
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

#### Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
T2	ANP06126	Cable	32022-29094K-	9/7/2011	9/7/2013
			29094K-168TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T3	AN02694	Horn Antenna-ANSI	AMFW-5F-	2/4/2013	2/4/2015
		C63.5 Antenna	18002650-20-10P		
		Factors (dB)			
T4	ANP00929	Cable	various	2/16/2012	2/16/2014

#### *Equipment Under Test* (\* = EUT):

1.1			
Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

## Support Devices:

Function

Manufacturer

Model #

S/N

## Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 18000MHz to 25000MHz High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz

RF Output of the chip = 0dBm Gain of the antenna = 1dBi

9 kHz-150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

#### Note: Bluetooth is operated only. Low Channel



Measu	rement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	24370.000	46.6	+4.5	+5.5	-17.3	+2.9	+0.0	42.2	54.0	-11.8	Vert
	Μ										
2	24118.000	46.3	+4.4	+5.5	-17.5	+3.0	+0.0	41.7	54.0	-12.3	Horiz
	Μ										
3	23439.000	45.8	+4.4	+5.4	-17.7	+2.9	+0.0	40.8	54.0	-13.2	Vert
	Μ										
4	21675.000	44.2	+4.2	+5.2	-17.2	+3.0	+0.0	39.4	54.0	-14.6	Vert
	Μ										
5	19330.000	42.5	+3.6	+4.9	-16.6	+3.3	+0.0	37.7	54.0	-16.3	Horiz
	Μ										
6	18224.000	42.8	+3.3	+4.8	-16.9	+3.4	+0.0	37.4	54.0	-16.6	Horiz
	М										

CKC Laboratories, Inc Date: 8/21/2013 Time: 16:33:28 Bamb Labs WO#: 94232 Test Distance: 3 Meters Sequence#: 51





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/22/2013
Test Type:	Radiated Scan	Time:	15:24:21
Equipment:	Household Air Mattress Inflator	Sequence#:	84
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

_	1	r · · · · ·				
	ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	T1	AN00432	Loop Antenna	6502	4/2/2013	4/2/2015
	T2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
	T3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
		AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

## Equipment Under Test (\* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

## Support Devices:

Function

Model #

S/N

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 9kH to 30 MHz

High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Manufacturer

Temperature: 21.6°C Humidity: 39% Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz

RF Output of the chip = 0dBm Gain of the antenna = 1dBi

9 kHz-150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

## Note: Bluetooth is operated only. Middle Channel



Measur	rement Data:	Re	eading lis	ted by ma	argin.		Te	est Distance	e: 3 Meters	5	
#	Freq	Rdng	T1	T2	T3		Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	591.138k	39.0	+9.8	+0.1	+0.0		-40.0	8.9	32.2	-23.3	Perpe
2	689.401k	37.0	+9.9	+0.1	+0.0		-40.0	7.0	30.8	-23.8	Paral
3	892.199k	33.4	+9.5	+0.1	+0.0		-40.0	3.0	28.6	-25.6	Paral
4	998.825k	32.0	+9.7	+0.1	+0.0		-40.0	1.8	27.6	-25.8	Perpe
5	1.193M	29.5	+9.8	+0.1	+0.0		-40.0	-0.6	26.1	-26.7	Perpe
6	1.068M	30.5	+9.7	+0.1	+0.0		-40.0	0.3	27.1	-26.8	Paral

CKC Laboratories, Inc Date: 8/22/2013 Time: 15:24:21 Bamb Labs WO#: 94232 Test Distance: 3 Meters Sequence#: 84





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	s Emissions	
Work Order #:	94232	Date:	8/22/2013
Test Type:	Radiated Scan	Time:	13:34:28
Equipment:	Household Air Mattress Inflator	Sequence#:	75
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

## Equipment Under Test (\* = EUT):

Equipilient Chuer Test (	201).		
Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

#### Support Devices:

Function Manufacturer Model #

## Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 30MHz to 1000MHz

High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHZ

RF Output of the chip = 0dBm Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only. Middle Channel S/N



Measu	rement Data:	Re	eading lis	ted by ma	argin.		Te	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	$dB\mu V/m$	dB	Ant
1	909.281M	37.1	-27.1	+22.9	+3.5	+1.0	+0.0	38.3	46.0	-7.7	Vert
			+0.9								
2	52.028M	47.4	-27.0	+8.2	+0.7	+0.1	+0.0	29.6	40.0	-10.4	Vert
			+0.2								
3	30.000M	36.7	-27.0	+18.4	+0.5	+0.2	+0.0	28.9	40.0	-11.1	Vert
			+0.1								
4	937.890M	33.3	-27.1	+23.2	+3.5	+1.0	+0.0	34.8	46.0	-11.2	Horiz
			+0.9								
5	546.398M	37.1	-26.9	+19.1	+2.5	+0.6	+0.0	33.1	46.0	-12.9	Horiz
			+0.7								
6	313.366M	42.2	-27.0	+13.1	+1.8	+0.4	+0.0	31.0	46.0	-15.0	Horiz
			+0.5								

CKC Laboratories, Inc. Date: 8/22/2013 Time: 13:34:28 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 75





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/20/2013
Test Type:	Radiated Scan	Time:	15:54:46
Equipment:	Household Air Mattress Inflator	Sequence#:	12
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI	3115	1/23/2013	1/23/2015
		C63.5			
T2	AN03302	Cable	32026-29094K-	3/21/2012	3/21/2014
			29094K-72TC		
T3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	AN03114	Preamp	AMF-7D-	4/11/2013	4/11/2015
			00101800-30-10P		
T5	AN03015	Cable	32022-2-29094K-	5/6/2013	5/6/2015
			24TC		
T6	AN03309	High Pass Filter	11SH10-	6/12/2012	6/12/2014
			3000/T10000-		
			O/O		

## Equipment Under Test (\* = EUT):

Manufacturer

Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

Model #

S/N

## Support Devices:

Function	

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 1000MHz to 12000MHz High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz RF Output of the chip = 0dBm

Gain of the antenna =1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only. Middle Channel



Measu	urement Data:	· Re	eading lis	ted by ma	irgin.		Те	est Distance	e: 3 Meters	5	
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6							
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	10044.281	55.9	+39.7	+2.3	+6.3	-58.2	+0.0	47.3	54.0	-6.7	Horiz
	Μ		+1.3	+0.0							
2	9878.416M	55.3	+39.5	+2.3	+6.2	-58.0	+0.0	46.7	54.0	-7.3	Vert
			+1.3	+0.1							
3	9447.776M	55.5	+38.5	+2.2	+6.3	-57.5	+0.0	46.5	54.0	-7.5	Vert
			+1.2	+0.3							
4	4804.288M	63.7	+33.2	+1.5	+3.8	-58.3	+0.0	44.8	54.0	-9.2	Horiz
			+0.7	+0.2							
5	7956.432M	56.7	+36.8	+2.0	+5.4	-57.9	+0.0	44.4	54.0	-9.6	Horiz
			+1.3	+0.1							
6	6946.632M	59.5	+35.2	+1.9	+5.0	-59.4	+0.0	43.3	54.0	-10.7	Vert
			+0.9	+0.2							

CKC Laboratories, Inc. Date: 8/20/2013 Time: 15:54:46 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 12





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/21/2013
Test Type:	Radiated Scan	Time:	15:29:27
Equipment:	Household Air Mattress Inflator	Sequence#:	39
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP00928	Cable	various	2/10/2012	2/10/2014
T2	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
T3	ANP06126	Cable	32022-29094K-	9/7/2011	9/7/2013
			29094K-168TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	ANANT-	Active Horn Antenna	AMFW-5F-	2/21/2013	2/21/2015
	AN02693-		18002650-20-10P		
	20130221				

## *Equipment Under Test* (\* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

## Support Devices:

Function Manufacturer

Model #

S/N

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 12000MHz to 18000MHz High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz; High Frequency: 2.480GHz

RF Output of the chip = 0dBm Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only. Middle Channel



Measu	rement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	17222.647	44.7	+0.8	+3.1	+4.7	-14.7	+0.0	38.6	54.0	-15.4	Vert
	Μ										
2	17796.986	42.8	+0.8	+3.3	+4.7	-13.4	+0.0	38.2	54.0	-15.8	Horiz
	Μ										
3	15631.405	44.7	+1.0	+3.2	+4.4	-16.0	+0.0	37.3	54.0	-16.7	Vert
	Μ										
4	15388.381	44.2	+1.0	+3.1	+4.4	-15.8	+0.0	36.9	54.0	-17.1	Horiz
	Μ										
5	14354.084	44.2	+0.9	+2.8	+4.3	-15.6	+0.0	36.6	54.0	-17.4	Vert
	Μ										
6	12698.980	44.2	+0.9	+2.6	+4.0	-15.7	+0.0	36.0	54.0	-18.0	Horiz
	Μ										

CKC Laboratories, Inc. Date: 8/21/2013 Time: 15:29:27 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 39





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/21/2013
Test Type:	Radiated Scan	Time:	16:25:22
Equipment:	Household Air Mattress Inflator	Sequence#:	48
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

#### Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
T2	ANP06126	Cable	32022-29094K-	9/7/2011	9/7/2013
			29094K-168TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T3	AN02694	Horn Antenna-ANSI	AMFW-5F-	2/4/2013	2/4/2015
		C63.5 Antenna	18002650-20-10P		
		Factors (dB)			
T4	ANP00929	Cable	various	2/16/2012	2/16/2014

#### *Equipment Under Test* (\* = EUT):

	- /-		
Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

## Support Devices:

Function Manufacturer

Model #

S/N

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 18000MHz to 25000MHz High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHZ

RF Output of the chip = 0dBm Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only. Middle Channel



Measu	rement Data:	Re	eading lis	ted by ma	argin.		Te	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	24295.656	47.3	+4.5	+5.5	-17.4	+2.9	+0.0	42.8	54.0	-11.2	Vert
	М										
2	24244 994	46.0	14.5	15.5	174	12.0	+0.0	41.5	54.0	12.5	Uoriz
2	24344.004 M	40.0	74.3	+5.5	-17.4	72.9	+0.0	41.5	54.0	-12.3	HOUL
3	23405.759	45.3	+4.4	+5.4	-17.8	+2.9	+0.0	40.2	54.0	-13.8	Horiz
	М										
4	22311.374	44.7	+4.4	+5.3	-17.5	+2.9	+0.0	39.8	54.0	-14.2	Vert
	М										
5	20798.700 M	44.3	+4.2	+5.1	-17.0	+3.1	+0.0	39.7	54.0	-14.3	Horiz
	11/1										
6	21165.005	43.2	+4.2	+5.2	-17.1	+3.1	+0.0	38.6	54.0	-15.4	Vert
	М										

CKC Laboratories, Inc. Date: 8/21/2013 Time: 16:25:22 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 48



Page 83 of 146 Report No.: 94232-14A



Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	s Emissions	
Work Order #:	94232	Date:	8/22/2013
Test Type:	Radiated Scan	Time:	14:56:53
Equipment:	Household Air Mattress Inflator	Sequence#:	81
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

#### Test Equipment:

<u> </u>	r					
ID	Asset #	Description	Model	Calibration Date	Cal Due Date	
T1	AN00432	Loop Antenna	6502	4/2/2013	4/2/2015	
T2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014	
T3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015	
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015	

#### Equipment Under Test (\* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

#### Support Devices:

Function

Model #

S/N

## Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 9kHz to 30 MHz

#### High Clock: 32MHz

Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Manufacturer

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz Middle Frequency: 2.440GHz High Frequency: 2.480GHz

RF Output of the chip = 0dBm Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

## Note: Bluetooth is operated only. High Channel



Measur	rement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3		Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	524.236k	40.6	+9.8	+0.1	+0.0		-40.0	10.5	33.2	-22.7	Paral
2	672.676k	37.4	+9.9	+0.1	+0.0		-40.0	7.4	31.1	-23.7	Perpe
3	724.943k	35.7	+9.8	+0.1	+0.0		-40.0	5.6	30.4	-24.8	Perpe
4	791.846k	35.1	+9.4	+0.1	+0.0		-40.0	4.6	29.6	-25.0	Paral
5	1.237M	30.5	+9.8	+0.1	+0.0		-40.0	0.4	25.8	-25.4	Perpe
6	973.737k	32.1	+9.6	+0.1	+0.0		-40.0	1.8	27.9	-26.1	Paral

CKC Laboratories, Inc Date: 8/22/2013 Time: 14:56:53 Bamb Labs WO#: 94232 Test Distance: 3 Meters Sequence#: 81





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	s Emissions	
Work Order #:	94232	Date:	8/22/2013
Test Type:	Radiated Scan	Time:	14:13:32
Equipment:	Household Air Mattress Inflator	Sequence#:	78
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

	1				
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

## Equipment Under Test (\* = EUT):

Equipment Chael Test (	101)		
Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Initator*			

#### Support Devices:

Function Manufacturer Model #

## Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 30MHz to 1000MHz

High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz

RF Output of the chip = 0dBm Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only. High Channel S/N



Measu	rement Data:	Re	eading lis	ted by ma	argin.		Te	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	53.159M	52.5	-27.0	+7.8	+0.7	+0.2	+0.0	34.4	40.0	-5.6	Vert
			+0.2								
2	30.133M	37.5	-27.0	+18.3	+0.5	+0.2	+0.0	29.6	40.0	-10.4	Vert
			+0.1								
3	851.383M	33.6	-26.9	+22.3	+3.3	+0.9	+0.0	34.1	46.0	-11.9	Vert
			+0.9								
4	546.398M	37.4	-26.9	+19.1	+2.5	+0.6	+0.0	33.4	46.0	-12.6	Horiz
			+0.7								
5	951.038M	29.6	-27.1	+23.5	+3.5	+1.0	+0.0	31.4	46.0	-14.6	Horiz
			+0.9								
6	153.005M	43.0	-27.0	+10.7	+1.2	+0.3	+0.0	28.6	43.5	-14.9	Horiz
			+0.4								

CKC Laboratories, Inc. Date: 8/22/2013 Time: 14:13:32 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 78





Customer:	Bam Labs	<b>F</b> i	
specification:	15.24/(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/20/2013
Test Type:	Radiated Scan	Time:	16:26:00
Equipment:	Household Air Mattress Inflator	Sequence#:	15
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

#### Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
T2	AN03302	Cable	32026-29094K- 29094K-72TC	3/21/2012	3/21/2014
T3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	AN03114	Preamp	AMF-7D- 00101800-30-10P	4/11/2013	4/11/2015
Т5	AN03015	Cable	32022-2-29094K- 24TC	5/6/2013	5/6/2015
T6	AN03309	High Pass Filter	11SH10- 3000/T10000- O/O	6/12/2012	6/12/2014

# Equipment Under Test (\* = EUT): Function Manufacturer Model # S/N Household Air Mattress Bam Labs SIQ XX00DR CC 04 B4 00 00 8F Inflator\* CC 04 B4 00 00 8F CC 04 B4 00 00 8F

Manufacturer

## Support Devices:

Function

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 1000MHz to 12000MHz High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz RF Output of the chip = 0dBm Gain of the antenna = 1dBi 9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz. The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Model #

S/N

Note: Bluetooth is operated only. High Channel



Meası	irement Data:	R	eading lis	ted by ma	argin.	Test Distance: 3 Meters					
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6							
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	9435.987M	56.1	+38.5	+2.2	+6.3	-57.5	+0.0	47.1	54.0	-6.9	Vert
			+1.2	+0.3							
2	10272.036	55.8	+39.6	+2.3	+6.2	-58.4	+0.0	46.9	54.0	-7.1	Horiz
	Μ		+1.3	+0.1							
3	9268.972M	55.3	+38.3	+2.2	+6.1	-57.3	+0.0	46.3	54.0	-7.7	Horiz
			+1.3	+0.4							
4	8707.016M	55.1	+37.8	+2.1	+5.7	-56.3	+0.0	46.1	54.0	-7.9	Vert
			+1.4	+0.3							
5	4959.013M	63.7	+33.6	+1.6	+3.9	-57.9	+0.0	45.8	54.0	-8.2	Horiz
			+0.7	+0.2							
6	7866.048M	57.4	+36.7	+2.0	+5.4	-58.2	+0.0	44.7	54.0	-9.3	Vert
			+1.2	+0.2							

CKC Laboratories, Inc. Date: 8/20/2013 Time: 16:26:00 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 15





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/21/2013
Test Type:	Radiated Scan	Time:	15:47:11
Equipment:	Household Air Mattress Inflator	Sequence#:	42
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP00928	Cable	various	2/10/2012	2/10/2014
T2	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
T3	ANP06126	Cable	32022-29094K-	9/7/2011	9/7/2013
			29094K-168TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	ANANT-	Active Horn Antenna	AMFW-5F-	2/21/2013	2/21/2015
	AN02693-		18002650-20-10P		
	20130221				

## *Equipment Under Test* (\* = EUT):

<b>1 1</b>			
Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

## Support Devices:

Function	
----------	--

Model #

S/N

## Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 12000MHz to 18000MHz

High Clock: 32MHz

Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Manufacturer

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHZ

RF Output of the chip = 0dBm Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only. High Channel



Measu	rement Data:	Re	eading lis	ted by ma	argin.		Te	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	17275.640	44.1	+0.8	+3.1	+4.7	-14.6	+0.0	38.1	54.0	-15.9	Horiz
	М										
2	17748.401	42.1	+0.8	+3.3	+4.7	-13.6	+0.0	37.3	54.0	-16.7	Vert
	М										
3	15891.676	44.6	+1.0	+3.2	+4.5	-16.3	+0.0	37.0	54.0	-17.0	Vert
	М										
4	15611.608	44.0	+1.0	+3.2	+4.4	-15.9	+0.0	36.7	54.0	-17.3	Horiz
	Μ										
5	14490.092	43.6	+0.9	+2.9	+4.3	-15.4	+0.0	36.3	54.0	-17.7	Vert
	Μ										
										10.0	
6	13128.127	44.4	+0.9	+2.6	+4.1	-16.0	+0.0	36.0	54.0	-18.0	Horiz
	Μ										

CKC Laboratories, Inc. Date: 8/21/2013 Time: 15:47:11 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 42





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/21/2013
Test Type:	Radiated Scan	Time:	16:13:27
Equipment:	Household Air Mattress Inflator	Sequence#:	45
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
T2	ANP06126	Cable	32022-29094K-	9/7/2011	9/7/2013
			29094K-168TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T3	AN02694	Horn Antenna-ANSI	AMFW-5F-	2/4/2013	2/4/2015
		C63.5 Antenna	18002650-20-10P		
		Factors (dB)			
T4	ANP00929	Cable	various	2/16/2012	2/16/2014

#### *Equipment Under Test* (\* = EUT):

111			
Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

## Support Devices:

Function

Model #

#

S/N

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 18000MHz to 25000MHz

High Clock: 32MHz

Firmware used: SmartPump 501E (0.80d30), BLE v1.1.11, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Manufacturer

Transmitter operating frequency: 2.4GHz

Low Frequency: 2.402GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHZ

RF Output of the chip = 0dBmGain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Bluetooth is operated only. High Channel



Measu	rement Data:	Re	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	23530.723 M	46.0	+4.4	+5.4	-17.7	+3.0	+0.0	41.1	54.0	-12.9	Vert
2	23916.976 M	45.2	+4.4	+5.5	-17.5	+2.9	+0.0	40.5	54.0	-13.5	Horiz
3	20663.746 M	44.4	+4.2	+5.1	-16.9	+3.1	+0.0	39.9	54.0	-14.1	Vert
4	20512.725 M	44.2	+4.1	+5.1	-16.8	+3.2	+0.0	39.8	54.0	-14.2	Horiz
5	19841.166 M	43.9	+3.8	+4.9	-16.7	+3.2	+0.0	39.1	54.0	-14.9	Vert
6	18719.758 M	43.0	+3.5	+4.8	-16.6	+3.3	+0.0	38.0	54.0	-16.0	Horiz

CKC Laboratories, Inc. Date: 8/21/2013 Time: 16:13:27 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 45



Page 93 of 146 Report No.: 94232-14A



Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/22/2013
Test Type:	Radiated Scan	Time:	15:57:13
Equipment:	Household Air Mattress Inflator	Sequence#:	90
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

 1					
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00432	Loop Antenna	6502	4/2/2013	4/2/2015
T2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

#### Equipment Under Test (\* = EUT):

Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

#### Support Devices:

Function

.

Model #

S/N

## Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 9kHz to 30MHz

## High Clock: 32MHz

Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Manufacturer

Transmitter operating frequency: 2.4GHz

Number of Channel: 16

Low Frequency: 2.405GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz

RF output power of the chip= 1.19 dBm (DC) Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

#### Note: Zigbee is operated only. Low Channel



Measur	rement Data:	Re	eading lis	ted by ma	argin.		Te	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3		Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	557.687k	39.6	+9.8	+0.1	+0.0		-40.0	9.5	32.7	-23.2	Paral
2	494.966k	39.0	+9.8	+0.1	+0.0		-40.0	8.9	33.7	-24.8	Perpe
3	720.762k	35.7	+9.8	+0.1	+0.0		-40.0	5.6	30.5	-24.9	Perpe
4	848.294k	33.9	+9.4	+0.1	+0.0		-40.0	3.4	29.0	-25.6	Paral
5	1.137M	30.7	+9.7	+0.1	+0.0		-40.0	0.5	26.5	-26.0	Paral
6	1.308M	29.0	+9.8	+0.1	+0.0		-40.0	-1.1	25.3	-26.4	Perpe
											I

CKC Laboratories, Inc Date: 8/22/2013 Time: 15:57:13 Bamb Labs WO#: 94232 Test Distance: 3 Meters Sequence#: 90





Customer:	Bam Labs	Emissions	
Specification.	15.24/(u) / 15.209 Kaulateu Spurious	5 EIIIISSIOIIS	
Work Order #:	94232	Date:	8/22/2013
Test Type:	Radiated Scan	Time:	10:55:17
Equipment:	Household Air Mattress Inflator	Sequence#:	69
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

## Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

## Equipment Under Test (\* = EUT):

Equipilient Chuer Test (	201).		
Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

Model #

S/N

#### Support Devices:

Function Manufacturer

## Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 30MHz to 1000MHz

High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Transmitter operating frequency: 2.4GHz Number of Channel: 16

Low Frequency: 2.405GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHZ

RF output power of the chip= 1.19 dBm (DC) Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit

## Note: Zigbee is operated only. Low Channel



<i>Measurement Data:</i> Reading listed by margin.			argin.	Test Distance: 3 Meters							
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	$dB\mu V/m$	dB	Ant
1	30.466M	37.2	-27.1	+18.1	+0.5	+0.2	+0.0	29.0	40.0	-11.0	Vert
			+0.1								
2	41.047M	39.3	-27.0	+12.8	+0.6	+0.1	+0.0	26.0	40.0	-14.0	Vert
			+0.2								
3	546.398M	35.7	-26.9	+19.1	+2.5	+0.6	+0.0	31.7	46.0	-14.3	Vert
			+0.7								
4	311.684M	42.7	-27.0	+13.1	+1.8	+0.4	+0.0	31.5	46.0	-14.5	Horiz
			+0.5								
5	152.885M	43.4	-27.0	+10.7	+1.2	+0.3	+0.0	29.0	43.5	-14.5	Horiz
			+0.4								
6	228.921M	46.1	-27.0	+9.9	+1.5	+0.3	+0.0	31.2	46.0	-14.8	Horiz
			+0.4								

CKC Laboratories, Inc. Date: 8/22/2013 Time: 10:55:17 Bamb Labs WO#: 94232 Test Distance: 3 Meters. Sequence#: 69





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/21/2013
Test Type:	Radiated Scan	Time:	12:03:21
Equipment:	Household Air Mattress Inflator	Sequence#:	24
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

#### Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157	Horn Antenna-ANSI	3115	1/23/2013	1/23/2015
		063.5			
T2	AN03302	Cable	32026-29094K-	3/21/2012	3/21/2014
			29094K-72TC		
Т3	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T4	AN03114	Preamp	AMF-7D-	4/11/2013	4/11/2015
			00101800-30-10P		
T5	AN03015	Cable	32022-2-29094K-	5/6/2013	5/6/2015
			24TC		
T6	AN03309	High Pass Filter	11SH10-	6/12/2012	6/12/2014
			3000/T10000-		
			O/O		

## Equipment Under Test (\* = EUT):

Manufacturer

Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

Model #

S/N

## Support Devices:

Function

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 1000MHz to 12000MHz High Clock: 32MHz Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2 Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa Transmitter operating frequency: 2.4GHz Number of Channel: 16 Low Frequency: 2.405GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz RF output power of the chip= 1.19 dBm (DC) Gain of the antenna = 1dBi 9 kHz-150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz. The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit. Note: Zigbee is operated only.

Low Channel



Measu	rement Data:	R	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6							
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	10180.439	55.8	+39.7	+2.3	+6.3	-58.2	+0.0	47.3	54.0	-6.7	Horiz
	Μ		+1.3	+0.1							
2	8838.663M	55.4	+38.1	+2.1	+5.9	-56.3	+0.0	46.9	54.0	-7.1	Vert
			+1.4	+0.3							
3	9622.099M	55.4	+38.7	+2.2	+6.2	-57.4	+0.0	46.7	54.0	-7.3	Horiz
	Ave		+1.3	+0.3							
^	9622.099M	63.8	+38.7	+2.2	+6.2	-57.4	+0.0	55.1	54.0	+1.1	Horiz
			+1.3	+0.3							
^	9622.099M	61.7	+38.7	+2.2	+6.2	-57.4	+0.0	53.0	54.0	-1.0	Horiz
			+1.3	+0.3							
6	9382.935M	55.2	+38.4	+2.2	+6.2	-57.3	+0.0	46.2	54.0	-7.8	Vert
			+1.2	+0.3							
7	4811.077M	64.1	+33.3	+1.5	+3.8	-58.3	+0.0	45.3	54.0	-8.7	Horiz
	Ave		+0.7	+0.2							
^	4811.077M	71.3	+33.3	+1.5	+3.8	-58.3	+0.0	52.5	54.0	-1.5	Horiz
			+0.7	+0.2							
^	4811.077M	69.5	+33.3	+1.5	+3.8	-58.3	+0.0	50.7	54.0	-3.3	Horiz
			+0.7	+0.2							
10	7216.431M	59.3	+36.1	+1.9	+5.3	-59.3	+0.0	44.5	54.0	-9.5	Vert
			+1.0	+0.2							



CKC Laboratories, Inc Date: 8/21/2013 Time: 12:03:21 Bamb Labs WO#: 94232 Test Distance: 3 Meters Sequence#: 24





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/21/2013
Test Type:	Radiated Scan	Time:	13:42:13
Equipment:	Household Air Mattress Inflator	Sequence#:	27
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

#### Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANANT-	Active Horn Antenna	AMFW-5F-	2/21/2013	2/21/2015
	AN02693-		18002650-20-10P		
	20130221				
T2	ANP00928	Cable	various	2/10/2012	2/10/2014
T3	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
T4	ANP06126	Cable	32022-29094K-	9/7/2011	9/7/2013
			29094K-168TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

#### Equipment Under Test (\* = EUT).

Function	Manufacturer	Model #	S/N
Household Air Mattress	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F
Inflator*			

## Support Devices:

Function

Model #

S/N

Test Conditions / Notes:

**Radiated Spurious Emission** Frequency Range: 12000MHz to 18000MHz

High Clock: 32MHz

Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Manufacturer

Transmitter operating frequency: 2.4GHz Number of Channel: 16 Low Frequency: 2.405GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHZ

RF output power of the chip= 1.19 dBm (DC) Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz; 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Zigbee is operated only. Low Channel



Measu	rement Data:	Re	eading lis	ted by ma	ırgin.		Те	est Distance	e: 3 Meters		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	17967.032	43.3	-13.4	+0.8	+3.3	+4.7	+0.0	38.7	54.0	-15.3	Vert
	Μ										
2	15581.233	44.7	-15.9	+1.0	+3.2	+4.4	+0.0	37.4	54.0	-16.6	Vert
	Μ										
3	17099.450	43.9	-15.4	+0.9	+3.0	+4.7	+0.0	37.1	54.0	-16.9	Horiz
	Μ										
4	15063.826	43.7	-15.4	+1.0	+3.0	+4.3	+0.0	36.6	54.0	-17.4	Horiz
	Μ										
5	14475.925	43.8	-15.4	+0.9	+2.9	+4.3	+0.0	36.5	54.0	-17.5	Vert
	Μ										
6	13856.802	44.4	-16.0	+0.9	+2.7	+4.2	+0.0	36.2	54.0	-17.8	Horiz
	М										
1											

CKC Laboratories, Inc Date: 8/21/2013 Time: 13:42:13 Bamb Labs WO#: 94232 Test Distance: 3 Meters Sequence#: 27





Customer: Specification:	Bam Labs 15.247(d) / 15.209 Radiated Spurious	Emissions	
Work Order #:	94232	Date:	8/21/2013
Test Type:	Radiated Scan	Time:	16:44:01
Equipment:	Household Air Mattress Inflator	Sequence#:	54
Manufacturer:	Bam Labs	Tested By:	Hieu Song Nguyenpham
Model:	SIQ XX00DR		
S/N:	CC 04 B4 00 00 8F		

#### Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP06125	Cable	32022-29094K-	5/6/2013	5/6/2015
			29094K-72TC		
T2	ANP06126	Cable	32022-29094K-	9/7/2011	9/7/2013
			29094K-168TC		
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T3	AN02694	Horn Antenna-ANSI	AMFW-5F-	2/4/2013	2/4/2015
		C63.5 Antenna	18002650-20-10P		
		Factors (dB)			
T4	ANP00929	Cable	various	2/16/2012	2/16/2014

#### *Equipment Under Test* (\* = EUT):

111	- ):		
Function	Manufacturer	Model #	S/N
Household Air Mattress Inflator*	Bam Labs	SIQ XX00DR	CC 04 B4 00 00 8F

## Support Devices:

Function

Model #

#

S/N

Test Conditions / Notes:

Radiated Spurious Emission Frequency Range: 18000MHz to 25000MHz

High Clock: 32MHz

Firmware used: SmartPump 501E (0.80d30), BLE v1.1.1, SleepExpert 8.00-d10rc2

Temperature: 21.6°C, Humidity: 39%, Atmospheric Pressure: 101.4kPa

Manufacturer

Transmitter operating frequency: 2.4GHz Number of Channel: 16 Low Frequency: 2.405GHz, Middle Frequency: 2.440GHz, High Frequency: 2.480GHz

RF output power of the chip= 1.19 dBm (DC) Gain of the antenna = 1dBi

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz, 1000 MHz-25000MHz; RBW=1 MHz, VBW=1 MHz.

The EUT is a fixed device. It is placed on the 80 cm table. The EUT is set to continuously transmit.

Note: Zigbee is operated only. Low Channel