



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CNB311129-05081-E



CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao,
Guangzhou, China.

TEST REPORT For FCC ID

47 CFR PART 15 OCT, 2010

Report Reference No. CNB3111129-05081-E

Date of issue 12 Dec. ~15 Dec. 2011

Testing Laboratory Name **CETRE OF TESTING SERVICE CO., LTD.**

Address Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.

Testing location/ procedure Full application of Harmonised standards

Partial application of Harmonised standards

Other standard testing method

Applicant's name NINGBO FOREVER ELECTRONIC APPLIANCE CO., LTD.

Address NO.375, NINGCHUAN ROAD, NINGBO, ZHEJIANG, CHINA

Test specification

Standard **47 CFR PART 15 OCT, 2010; ANSI C63.4-2009**

Test Report Form No. CTSEMC-1.0

TRF Originator CENTRE OF TESTING SERVICE CO., LTD.

Master TRF Dated 2009-01

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Test item description MATTRESS INFLATION AIR PUMP

Trade Mark /

Manufacturer NINGBO FOREVER ELECTRONIC APPLIANCE CO., LTD.

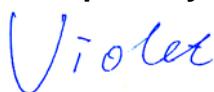
Model/Type reference AMAS-2618

Ratings DC 3V By Battery

Operating Frequency 2402MHz/ FSK

Result **Positive**

Compiled by:



Violet Lee / File administrators

Supervised by:



Tom Xiao / Technique principal

Approved by:



Vincent Yao / Manager

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FCC ID -- T E S T R E P O R T

Test Report No. : CGZ311103-00923-E	<u>15 Dec. 2011</u> Date of issue
--	--------------------------------------

Type / Model.....	AMAS-2618
EUT.....	MATTRESS INFLATION AIR PUMP
Applicant	NINGBO FOREVER ELECTRONIC APPLIANCE CO., LTD.
Address.....	NO.375, NINGCHUAN ROAD, NINGBO, ZHEJIANG, CHINA
Telephone.....	+86-574-87801335
Fax.....	+86-574-87803309
Contact.....	MR. SHEN
Manufacturer	NINGBO FOREVER ELECTRONIC APPLIANCE CO., LTD.
Address.....	NO.375, NINGCHUAN ROAD, NINGBO, ZHEJIANG, CHINA
Telephone.....	+86-574-87801335
Fax.....	+86-574-87803309
Contact.....	MR. SHEN
Test report holder	NINGBO FOREVER ELECTRONIC APPLIANCE CO., LTD.
Address.....	NO.375, NINGCHUAN ROAD, NINGBO, ZHEJIANG, CHINA
Telephone.....	+86-574-87801335
Fax.....	+86-574-87803309
Contact.....	MR. SHEN

Test Result according to the standards on page 3: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2010
- ANSI C63.4-2009

2. SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	29 Nov. 2011
Testing commenced on	12 Dec. ~15 Dec. 2011
Testing concluded on	15 Dec. 2011

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- **not** fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 3.
- **does not** fulfil the FCC requirements cited on page 3.

3. EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ■ DC3V By Battery

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- TX- Y position
- TX- Zposition
- TX- X position

Operation mode 1 DC 3V (2 x 1.5V) : TX-X Position (2402MHz)

Note: TX -X position of EUT is the worst case, so only these test results be recorded in the test report.

3.4 EUT configuration

3.4.1. Description of configuration (EUT)

Description	:	MATTRESS INFLATION AIR PUMP
Model Number	:	AMAS-2618
Operation frequency	:	2402 MHz
Radio Technology	:	FSK
Modulation Technology	:	FSK modulation
Antenna	:	Integral antenna, met requirement of FCC 15.203

3.4.2. Tested Supporting System Details

N/A

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4. TEST ENVIRONMENT

4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 6, 2011.

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.791995, July 21, 2009.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(1)

(1).This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5. Summary of standards and results

5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Radiated Emission Test	FCC Part 15 C: 15.249 FCC Part 15 : 109 FCC Part 15: 209 ANSI C63.4-2009	PASSED
Band Edge Compliance Test	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASSED
20dB bandwith	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASSED
N/A is an abbreviation for Not Applicable.		

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6. Radiated disturbance (electric field)

6.1. Test Equipment

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2010/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2010/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2010/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2010/12

6.2. Block Diagram of Test Setup

6.2.1 Block Diagram of connection between EUT and simulators

TX

EUT

(EUT: MATTRESS INFLATION AIR PUMP)

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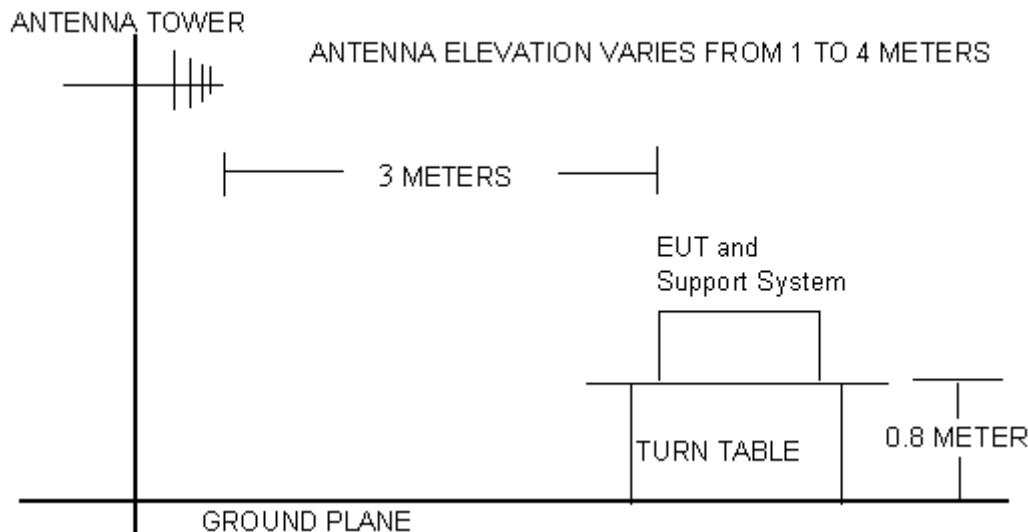
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6.2.2 Anechoic Chamber Setup Diagram



6.3.Radiated Emission Limit :

Standard:FCC 15.249 ,FCC 15.109 FCC 15.209.

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (μ V/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	3	---	63.0
0.490 1.705	3	---	43.0
1.705 30	3	----	49.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark: (1) Emission level $dB\mu$ V = $20 \log$ Emission level μ V/m
 (2) The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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6.4. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

6.5. Radiated Emission Test Results

PASSED.

The frequency range from 9KHz~30MHz, 30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated.

Please see the following pages.

Test Mode:	TX -X Position Mode 2402 MHz	Result:	<input checked="" type="checkbox"/> - passed
Frequency range:	9KHz~30MHz		<input type="checkbox"/> - not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.8504	16.36	20.00	36.36	43.00	-6.64	QP
2	2.6535	17.42	19.86	37.28	49.50	-12.22	QP
3	3.4949	17.74	18.78	36.52	49.50	-12.98	QP
4	14.7340	20.57	12.04	32.61	49.50	-16.89	QP
5	22.5473	22.58	12.46	35.04	49.50	-14.46	QP
6	28.9182	23.79	12.62	36.41	49.50	-13.09	QP

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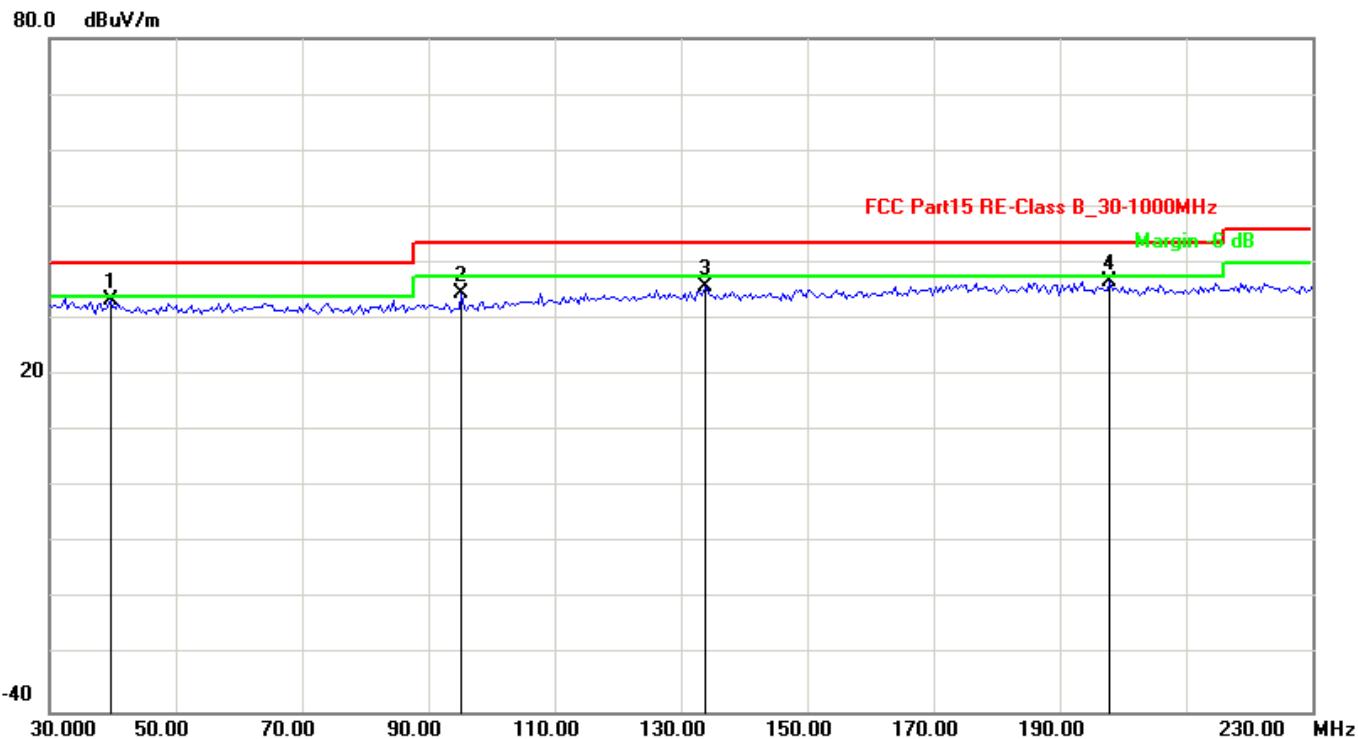
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Channel:	TX -X Position Mode 2402MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30MHz~1000MHz		

EUT	MATTRESS INFLATION AIR PUMP
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC 3V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	12 Dec. ~15 Dec. 2011
Operator	Peter
MODEL NO	AMAS-2618



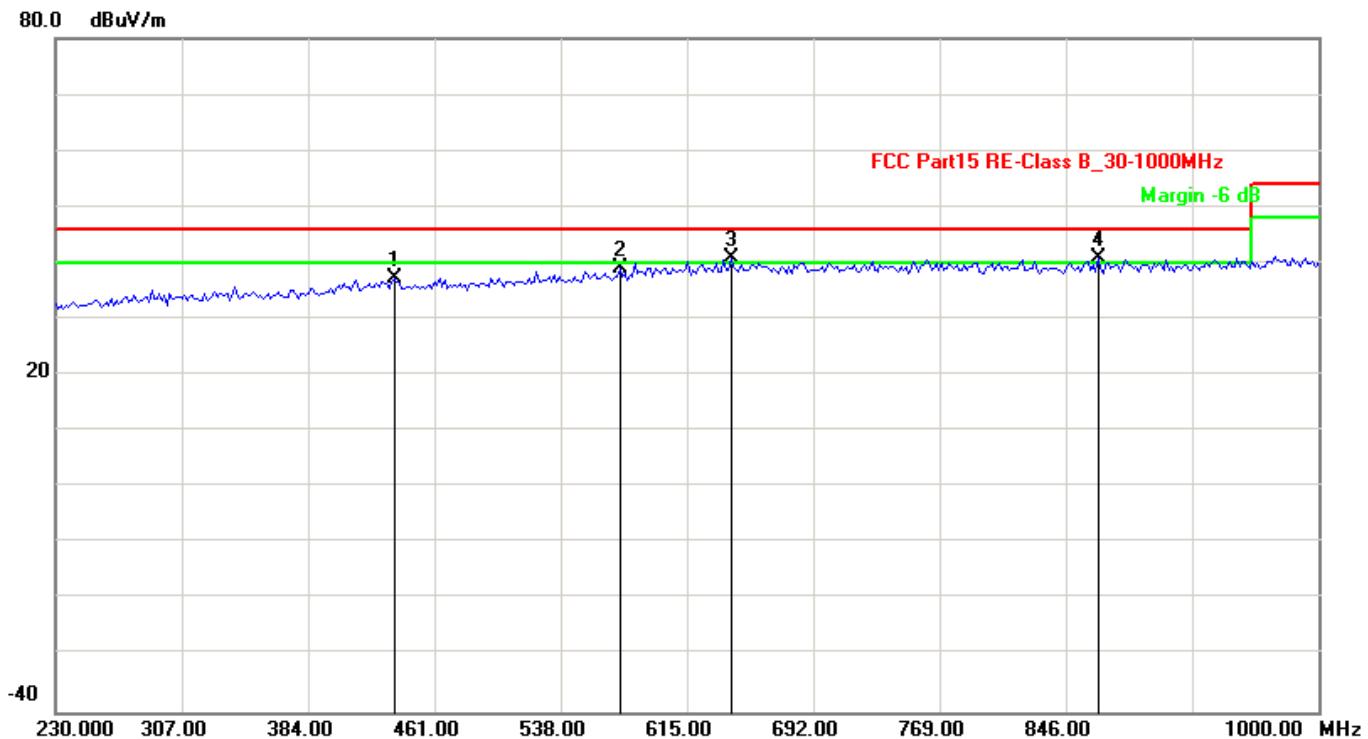
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	39.6192	5.73	27.54	33.27	40.00	-6.73	QP
2	95.3307	5.01	29.52	34.53	43.50	-8.97	QP
3	133.8076	6.52	29.08	35.60	43.50	-7.90	QP
4	197.9359	7.36	29.34	36.70	43.50	-6.80	QP

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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	436.7735	8.25	28.88	37.13	46.00	-8.87	QP
2	574.1082	9.14	29.83	38.97	46.00	-7.03	QP
3	642.0040	9.75	31.02	40.77	46.00	-5.23	QP
4	865.7515	10.41	30.48	40.89	46.00	-5.11	QP

Note: 1. Emission level=Read level + Factor
 2. Factor=Antenna factor + Cable loss
 3. Margin=Level-Limit.

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Channel:	TX -X Position Mode 914.8MHz	Result:	<input checked="" type="checkbox"/> - passed <input type="checkbox"/> - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

EUT	MATTRESS INFLATION AIR PUMP
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC 6V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	12 Dec. ~15 Dec. 2011
Operator	Peter
MODEL NO	AMAS-2618

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.000	17.79	74.29	92.08	114.00	-21.92	peak
2	2402.000	17.79	63.73	81.52	94.00	-12.48	AVG
3	2939.880	20.10	34.06	54.16	74.00	-19.84	peak
4	2939.880	20.10	21.16	41.26	54.00	-12.74	AVG
5	4805.210	22.93	33.91	56.84	74.00	-17.16	peak
6	4805.210	22.93	21.08	44.01	54.00	-9.99	AVG
7	6092.184	24.86	30.36	55.22	74.00	-18.78	peak
8	6092.184	24.86	17.83	42.69	54.00	-11.31	AVG
9	8142.285	26.91	23.73	50.64	74.00	-23.36	peak
10	8142.285	26.91	12.30	39.21	54.00	-14.79	AVG
11	9442.886	28.09	25.50	53.59	74.00	-20.41	peak
12	9442.886	28.09	12.96	41.05	54.00	-12.95	AVG
13	11691.383	29.63	26.54	56.17	74.00	-17.83	peak
14	11691.383	29.63	13.63	43.26	54.00	-10.74	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Note: 1. Emission level=Read level + Factor
 2. Factor=Antenna factor + Cable loss
 3. Margin=Level-Limit.

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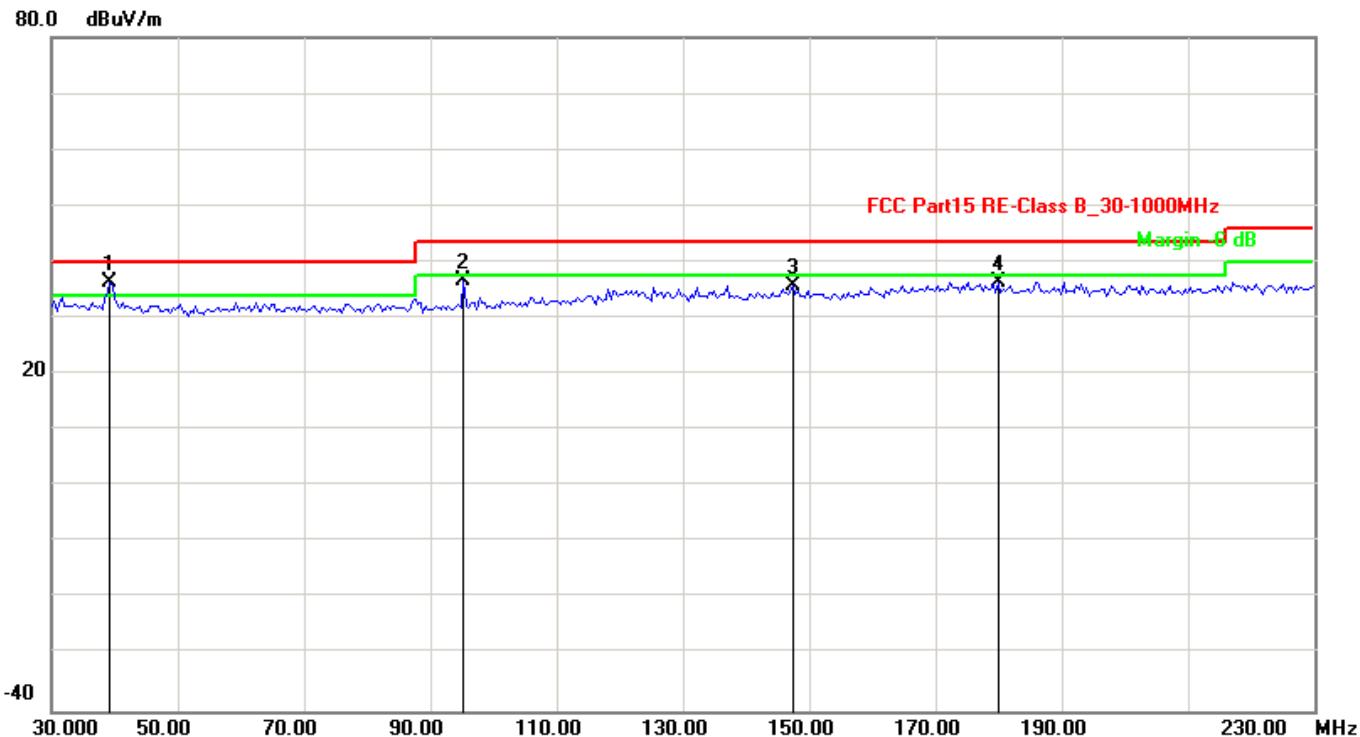
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Channel:	TX -X Position Mode 2402MHz	Result:	■ - passed □ - not passed
Test point:	Vertical		
Frequency range:	30-230MHz and 230-1000MHz		

EUT	MATTRESS INFLATION AIR PUMP
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC3V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	12 Dec. ~15 Dec. 2011
Operator	Peter
MODEL NO	AMAS-2618



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	39.2184	5.75	30.47	36.22	40.00	-3.78	QP
2	95.3307	5.01	31.50	36.51	43.50	-6.99	QP
3	147.4349	6.36	29.44	35.80	43.50	-7.70	QP
4	179.8998	7.45	28.88	36.33	43.50	-7.17	QP

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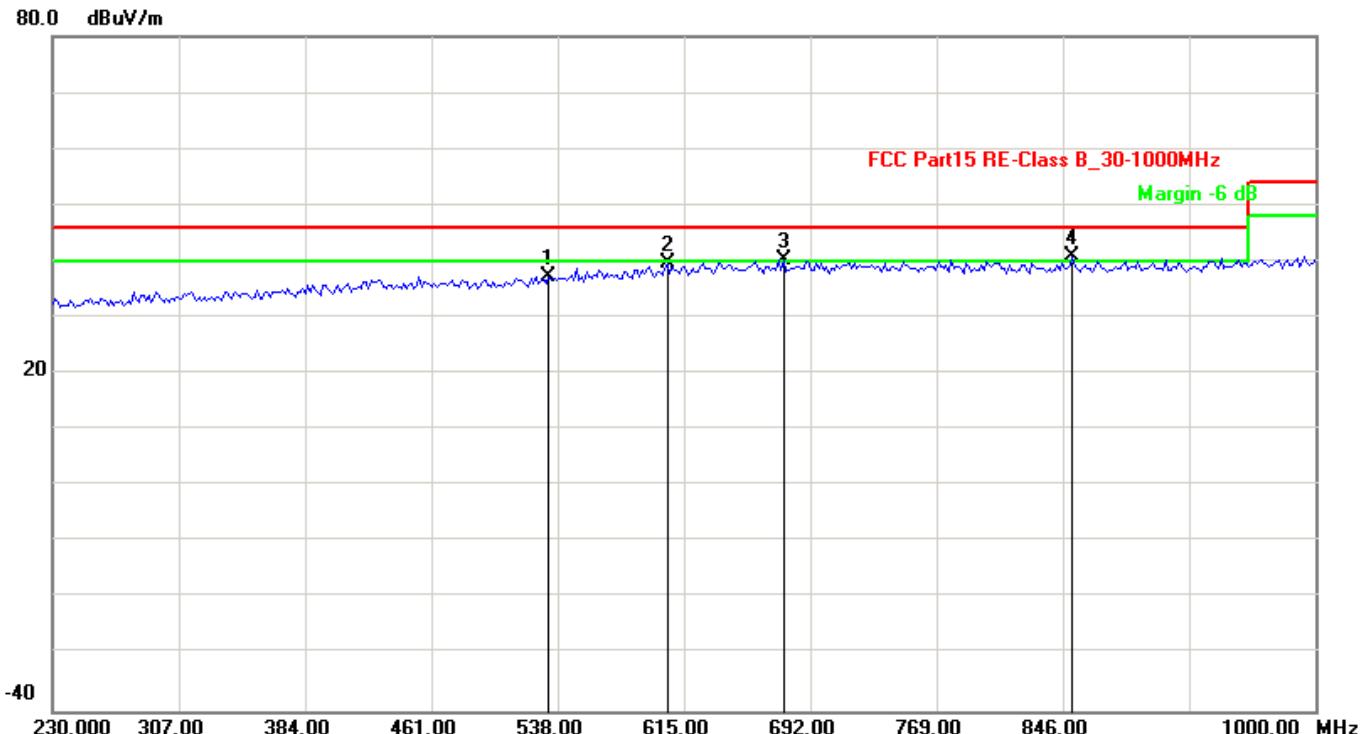
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	532.4449	8.72	28.46	37.18	46.00	-8.82	QP
2	604.9699	9.39	30.13	39.52	46.00	-6.48	QP
3	675.9519	10.16	30.02	40.18	46.00	-5.82	QP
4	851.8637	10.27	30.72	40.99	46.00	-5.01	QP

Note: 1. Emission level=Read level + Factor
 2. Factor=Antenna factor + Cable loss
 3. Margin=Level- Limit.

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Channel:	TX –X Position Mode 2402MHz	Result:	<input checked="" type="checkbox"/> - passed <input type="checkbox"/> - not passed
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

EUT	MATTRESS INFLATION AIR PUMP
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC 3V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	12 Dec. ~15 Dec. 2011
Operator	Peter
MODEL NO	AMAS-2618

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.000	17.81	67.75	85.56	114.00	-28.44	peak
2	2402.000	17.81	56.98	74.79	94.00	-19.21	AVG
3	2785.571	19.44	36.07	55.51	74.00	-18.49	peak
4	2785.571	19.44	23.58	43.02	54.00	-10.98	AVG
5	4805.210	22.93	35.76	58.69	74.00	-15.31	peak
6	4805.210	22.93	22.24	45.17	54.00	-8.83	AVG
7	5959.920	24.77	31.29	56.06	74.00	-17.94	peak
8	5959.920	24.77	17.38	42.15	54.00	-11.85	AVG
9	6973.948	25.16	34.54	59.70	74.00	-14.30	peak
10	6973.948	25.16	21.05	46.21	54.00	-7.79	AVG
11	8891.784	27.11	29.13	56.24	74.00	-17.76	peak
12	8891.784	27.11	16.47	43.58	54.00	-10.42	AVG
13	10302.605	28.99	28.64	57.63	74.00	-16.37	peak
14	10302.605	28.99	14.27	43.26	54.00	-10.74	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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8. Band Edge Compliance test

8.1. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2010/12
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2010/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12
4	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12

8.2. Test Information

EUT	MATTRESS INFLATION AIR PUMP
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC 3V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	12 Dec. ~15 Dec. 2011
Operator	Peter
MODEL NO	AMAS-2618

8.3. Test procedure

1. The EUT operates at TX mode. The transmitter channel are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Max hold the trace of the setp 1, and the EUT operates at Normal test mode to verify the largest spurious emissions power.

8.4. Test Results

PASSED.

The EUT operates at TX test mode. The transmitter channel are tested to verify the band edge emissions.

Test Mode	Channel Marked Frequency	Test Result Highest Emission (dBuv/m)			
		Horizontal		Vertical	
		Peak	Average	Peak	Average
Low Channel	2390MHz	43.56	25.72	37.10	24.32
	2400MHz	68.41	55.73	62.60	48.77
High Channel	2483.5MHz	34.67	23.88	34.76	23.62
	2500MHz	34.43	23.56	34.72	23.53

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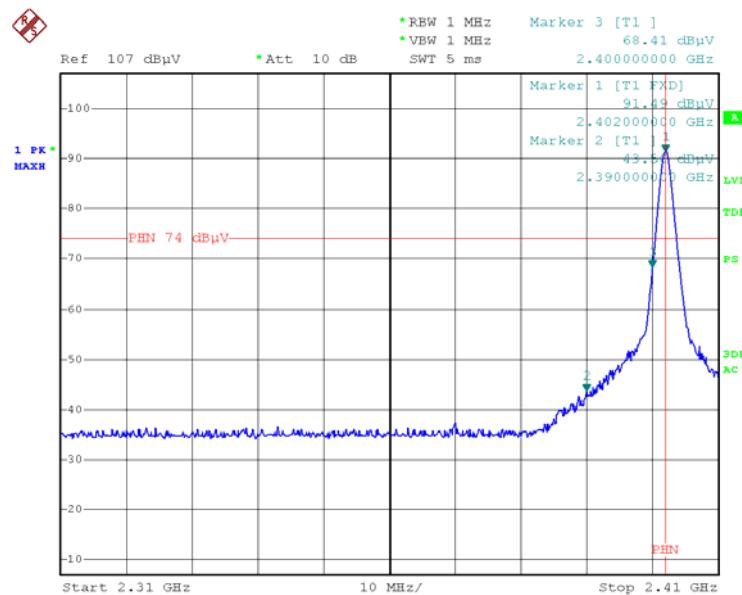
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Band Edges(Low)

Detector mode:Peak

Polarity:Horizontal

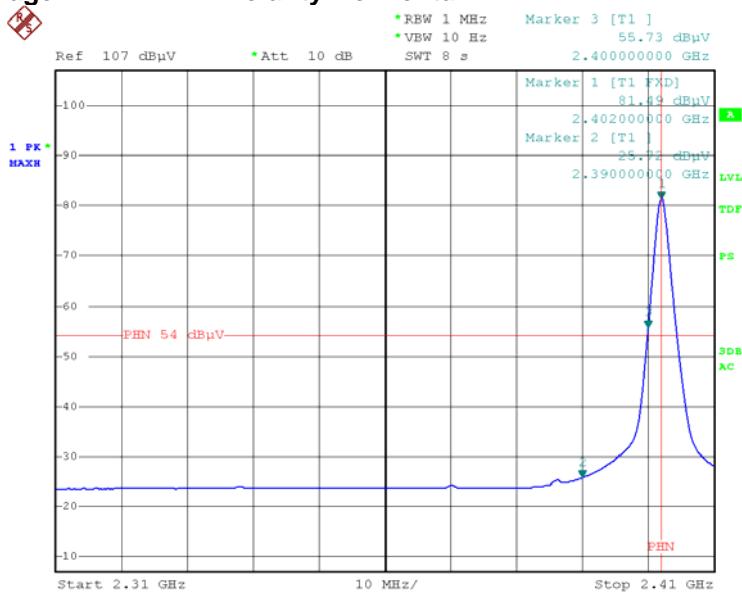


Date: 14.DEC.2011 10:01:25

Band Edges(CH Low)

Detector mode:Average

Polarity:Horizontal



Date: 14.DEC.2011 10:08:30

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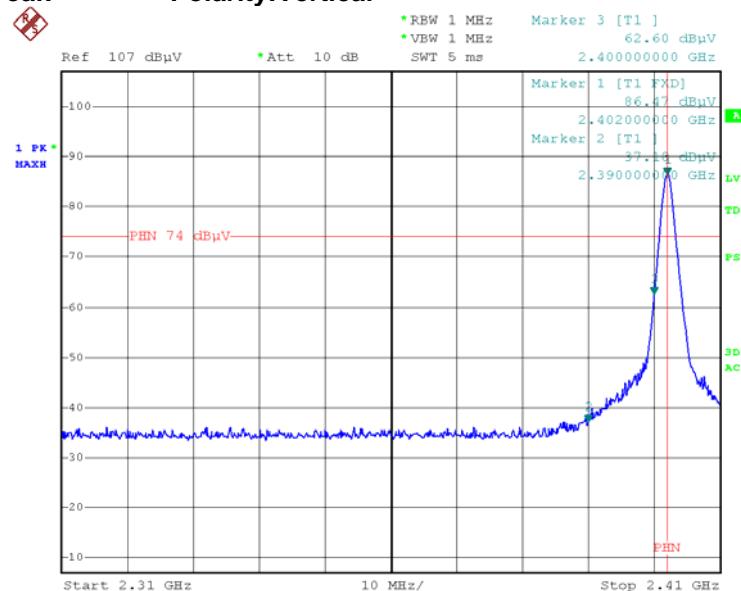
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Band Edges(CH Low)
Detector mode:Peak

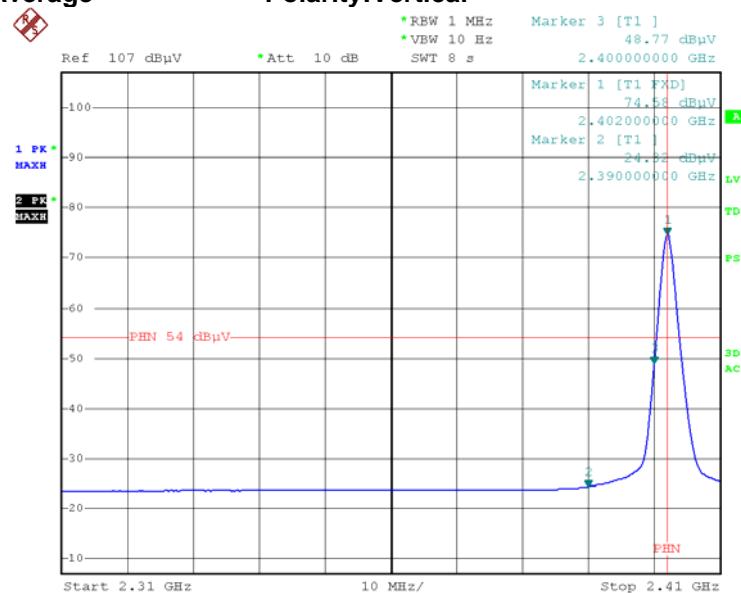
Polarity:Vertical



Date: 14.DEC.2011 10:02:47

Band Edges(CH Low)
Detector mode:Average

Polarity:Vertical



Date: 14.DEC.2011 10:09:30

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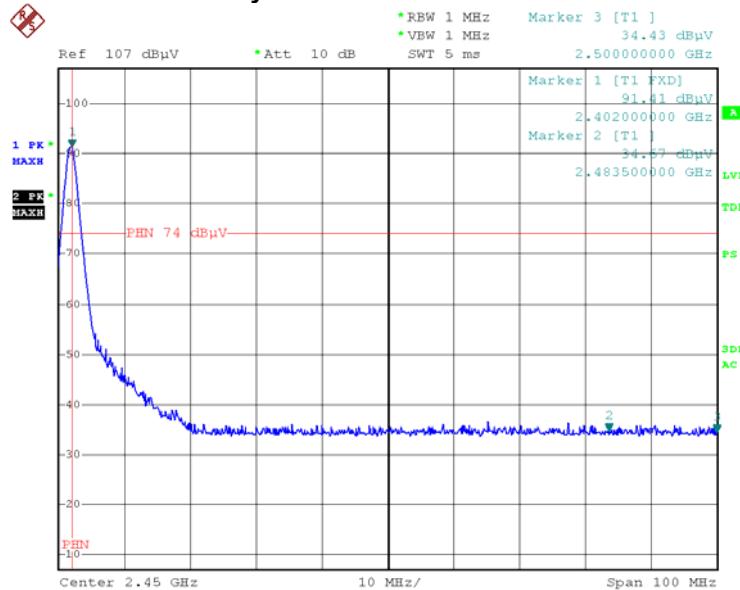
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Band Edges(CH High)

Detector mode:Peak

Polarity:Horizontal

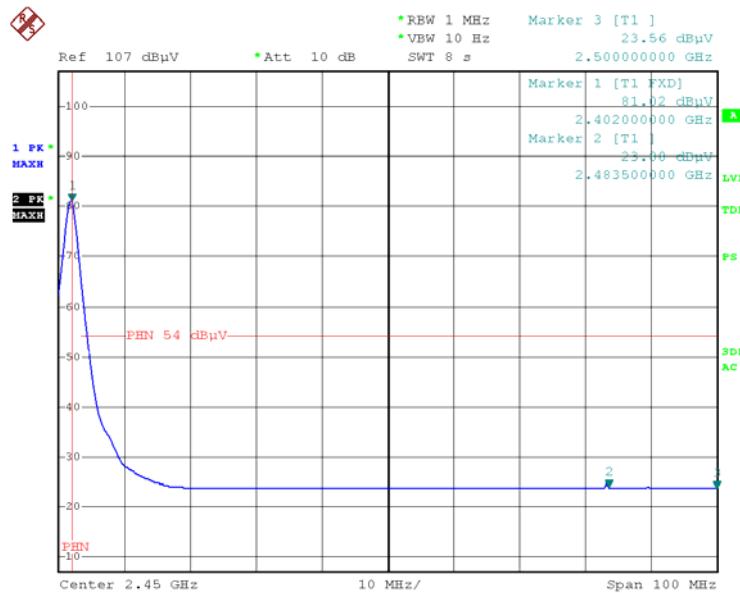


Date: 14.DEC.2011 10:11:05

Band Edges(CH High)

Detector mode:Average

Polarity:Horizontal



Date: 14.DEC.2011 10:16:46

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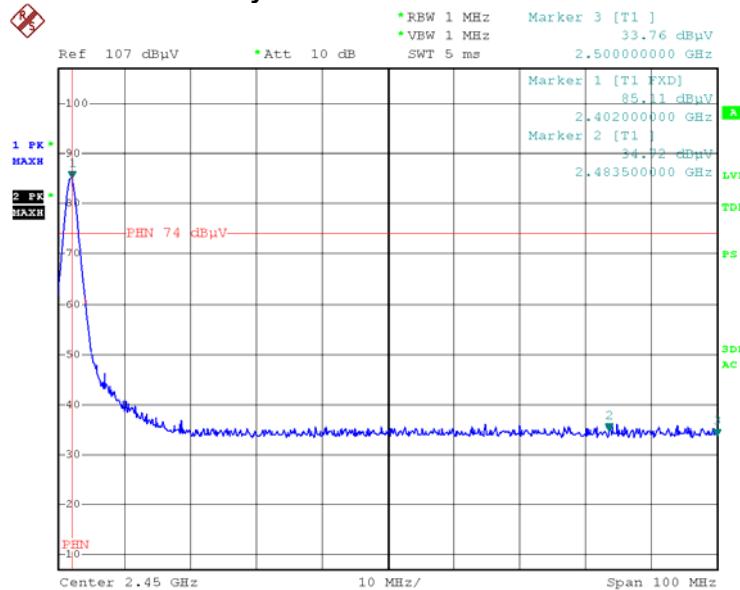
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Band Edges(CH High)

Detector mode:Peak

Polarity:Vertical

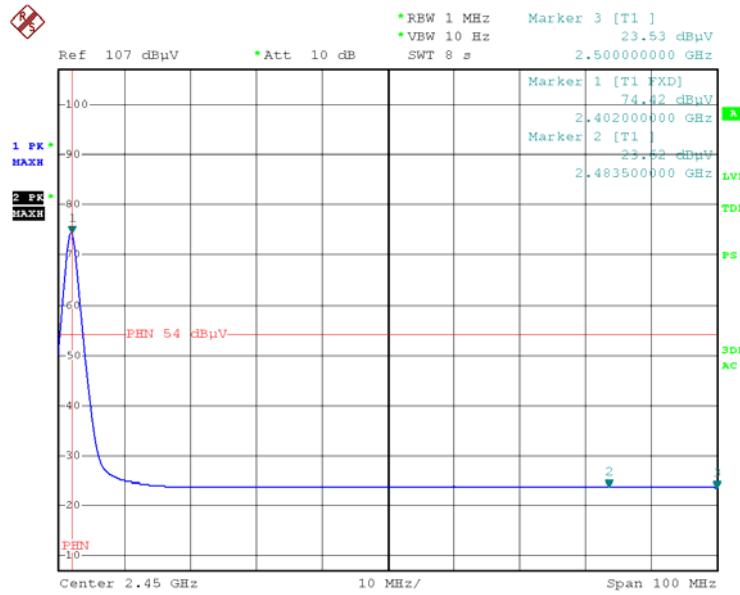


Date: 14.DEC.2011 10:12:19

Band Edges(CH High)

Detector mode:Average

Polarity:Vertical



Date: 14.DEC.2011 10:19:12

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9 20 dB Bandwidth test

9.1. Test Equipment

20 dB Bandwidth test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2010/12
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12
3	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2010/12
4	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12

9.2. Test Information

EUT	MATTRESS INFLATION AIR PUMP
Firm Name	VENTURE GLOBAL LTD.
Operating Condition	DC 3V By Battery
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	12 Dec. ~15 Dec. 2011
Operator	Peter
MODEL NO	AMAS-2618

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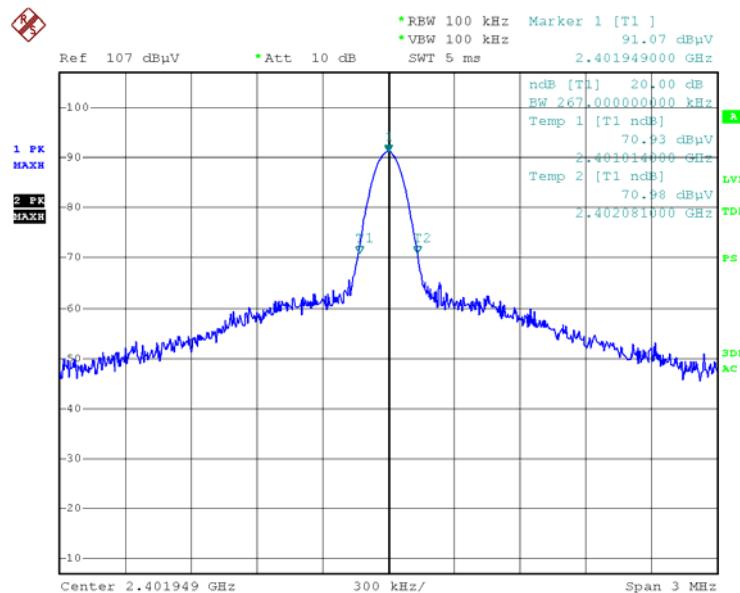
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9.3. Test Results

PASSED.

The testing data was attached in the next pages.



Date: 14.DEC.2011 10:22:20

10. Deviation to test specifications

[NONE]

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