

FCC PART 15.249 TEST REPORT

For

Dongguan Robstep Robot Co.,Ltd

#6 South Industrial Road, High-tech industrial park, Songshan Lake, Dongguan, China

FCC ID: ZO4-M1IOS

Report Type: Original Report		Product Type: Robstep
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Report Number:	RDG14082600	5-00B
Report Date:	2014-10-15	
Reviewed By:	Sula Huang RF Engineer	Sinha Hugof
Test Laboratory:	Bay Area Comp No.69 Pulonger	86858891

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Dongguan Robstep Robot Co.,Ltd*'s product, model number: *M1* (*FCC ID: ZO4-M1IOS*) (the "EUT") in this report was a *Robstep*, which was measured approximately: 46.7cm (L) x 46.4 cm (W) x 100 cm (H), rated input voltage: DC 48 V from rechargeable Li-ion battery or DC48V charging from adapter.

Report No.: RDG140826005-00B

* All measurement and test data in this report was gathered from production sample serial number: 140826005. (Assigned by BACL.Dongguan). The EUT was received on 2014-08-27.

Objective

This type approval report is prepared on behalf of *Dongguan Robstep Robot Co.,Ltd* in accordance with Part 2-Subpart J, and Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.249 rules.

Related Submittal(s)/Grant(s)

FCC Part15C DTS submissions with FCC ID: ZO4-M11OS for BLE mode.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in engineering mode which was configured under maximum power output and channel.

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The device only employ 1 channel: 2464 MHz, that was provided by the manufacturer

EUT Exercise Software

No software was used in the test.

Equipment Modifications

No modifications were made to the unit tested.

Support Equipment List and Details

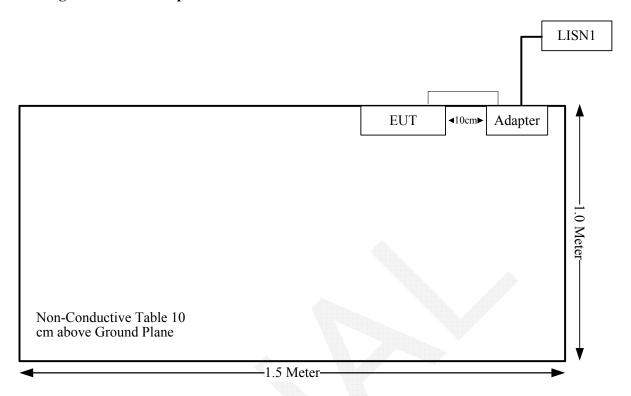
Manufacturer	Description	Model	Serial Number	
/	/	1	1	

External I/O Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
/			/	/	/

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Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207(a)	Conduction Emissions	Compliance
15.205, §15.209, §15.249	Radiated Emissions	Compliance
§15.215 (c)	20 dB Bandwidth	Compliance
§15.249(d)	Outside of Band Emission (50dB attenuation)	Compliance

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FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

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Antenna Connector Construction

The EUT has two PCB antenna arrangement, both two antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

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FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

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If $U_{\rm lab}$ is less than or equal to $U_{\rm cispr}$ of Table 1, then:

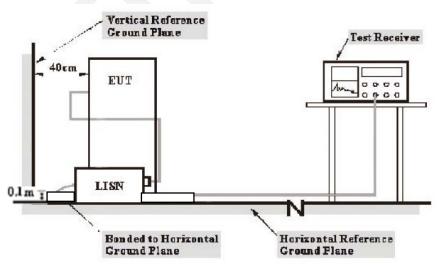
- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If U_{lab} is greater than U_{cispr} of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} U_{\text{cispr}})$, exceeds the disturbance limit.

Based on CISPR 16-4-2-2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cispr}

Measurement	U_{cispr}
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 limits.

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The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W	
150 kHz – 30 MHz	9 kHz	

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Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$
$$C_f = A_C + VDF$$

Herein,

V_C (cord. Reading): corrected voltage amplitude

 V_R : reading voltage amplitude A_c : attenuation caused by cable loss VDF: voltage division factor of AMN

C_f: Correction Factor

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

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Test Equipment List and Details

Manufacturer	Description	Description Model Serial Number		Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2013-11-20	2014-11-20
R&S	L.I.S.N	ESH3-Z5	843331/015	2013-09-25	2014-09-25
R&S	Two-line V-network	ENV 216	3560.6550.12	2014-01-22	2015-01-22
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

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Test Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Part 15.207</u>, with the worst margin reading of:

8.9 dB at 0.193566MHz in the Neutral conducted mode

Test Data

Environmental Conditions

Temperature:	25.4° C
Relative Humidity:	51%
ATM Pressure:	101.3 kPa

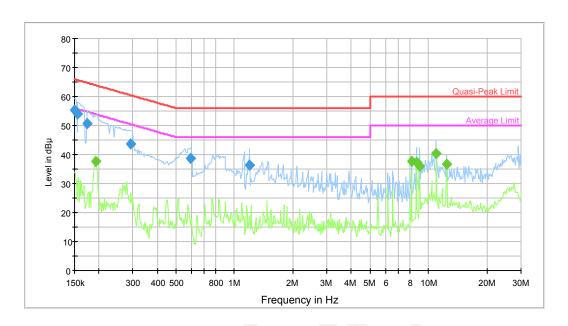
The testing was performed by Dean Liu on 2014-10-15.

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Mode: Charging and Transmitting

AC120 V, 60 Hz, Line:



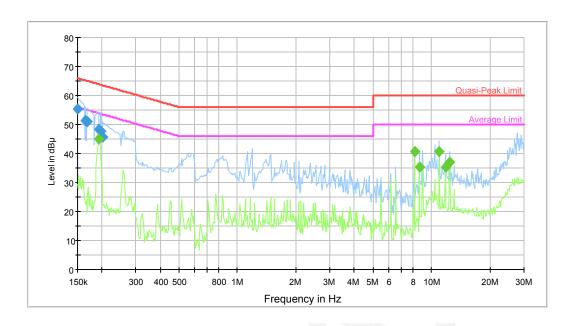
Report No.: RDG140826005-00B

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	55.3	9.000	L1	10.0	10.7	66.0	Compliance
0.156097	54.1	9.000	L1	10.1	11.6	65.7	Compliance
0.173134	50.7	9.000	L1	10.3	14.2	64.8	Compliance
0.290613	43.8	9.000	L1	10.7	16.7	60.5	Compliance
0.595338	38.8	9.000	L1	10.4	17.2	56.0	Compliance
1.200302	36.3	9.000	L1	10.4	19.7	56.0	Compliance

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
0.192030	37.6	9.000	L1	10.6	16.3	53.9	Compliance
8.189901	37.5	9.000	L1	10.6	12.5	50.0	Compliance
8.659691	37.4	9.000	L1	10.6	12.6	50.0	Compliance
9.011665	36.1	9.000	L1	10.7	13.9	50.0	Compliance
10.998118	40.2	9.000	L1	10.6	9.8	50.0	Compliance
12.394424	36.7	9.000	L1	10.6	13.3	50.0	Compliance

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AC120 V, 60 Hz, Neutral:



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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	55.5	9.000	N	10.2	10.5	66.0	Compliance
0.165051	51.5	9.000	N	10.5	13.7	65.2	Compliance
0.167702	50.9	9.000	N	10.6	14.2	65.1	Compliance
0.192030	48.4	9.000	N	11.2	15.6	63.9	Compliance
0.196675	47.5	9.000	N	11.3	16.2	63.7	Compliance
0.201433	45.7	9.000	N	11.4	17.8	63.6	Compliance

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
0.193566	45.0	9.000	N	11.2	8.9	53.9	Compliance
8.189901	40.7	9.000	N	10.6	9.3	50.0	Compliance
8.659691	35.5	9.000	N	10.6	14.5	50.0	Compliance
10.998118	40.8	9.000	N	10.6	9.2	50.0	Compliance
11.815800	35.4	9.000	N	10.6	14.6	50.0	Compliance
12.394424	37.2	9.000	N	10.6	12.8	50.0	Compliance

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FCC§15.205, §15.209&§15.249- RADIATED EMISSIONS

Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

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As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If U_{lab} is greater than U_{cispr} of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} U_{\text{cispr}})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:

30M~200MHz: 5.0 dB 200M~1GHz: 6.2 dB 1G~6GHz: 4.45 dB 6G~18GHz: 5.23 dB

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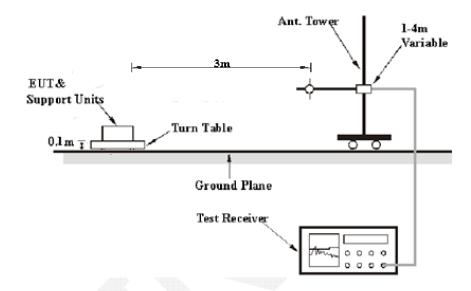
Table 1 – Values of U_{cispr}

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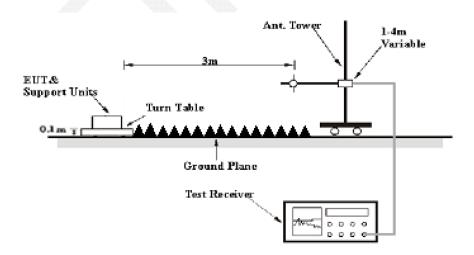
Measurement			
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB		
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB		
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB		

EUT Setup

Below 1 GHz:



Above 1 GHz:



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

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The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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The adapter was connected to a 120 VAC/60 Hz power source.

Test Equipment Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
Above I GHZ	1MHz	10 Hz	1	Ave.

Test Procedure

For the radiated emissions test, the adapter was connected to the first AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz, Peak and average detection mode above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit –Extrapolation result

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Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2014-05-09	2015-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-09
ETS-Lindgren	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Quinstar	Amplifier	QLW- 18405536-JO	15964001001	2014-09-06	2015-09-06

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Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 &15.205 & 15.249, with the worst margin reading of:

9.35 dB at 7392 MHz in the Vertical polarization

Test Data

Environmental Conditions

Temperature:	26.8 °C
Relative Humidity:	54 %
ATM Pressure:	100.5 kPa

The testing was performed by Dean Liu on 2014-10-09.

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Mode: Transmitting

E	R	eceiver	Rx A	Antenna	Cable	Amplifier	Corrected	T * *4	M	
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB(1/m))	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
			I	requency: 2	464 MH	Z				
2464 86.21 PK V 25.81 4.44 27.35 89.11 114 24.89										
2464	77.35	AV	V	25.81	4.44	27.35	80.25	94	13.75	
2464	88.67	PK	Н	25.81	4.44	27.35	91.57	114	22.43	
2464	80.34	AV	Н	25.81	4.44	27.35	83.24	94	10.76	
4928	48.21	PK	V	30.91	5.96	27.43	57.65	74	16.35	
4928	30.4	AV	V	30.91	5.96	27.43	39.84	54	14.16	
7392	39.7	PK	V	34.54	7.55	25.86	55.93	74	18.07	
7392	28.42	AV	V	34.54	7.55	25.86	44.65	54	9.35	
9856	35.31	PK	V	36.55	8.86	26.91	53.81	74	20.19	
9856	25.17	AV	V	36.55	8.86	26.91	43.67	54	10.33	
2483.5	49.97	PK	V	25.86	4.49	27.36	52.96	74	21.04	
2483.5	26.54	AV	V	25.86	4.49	27.36	29.53	54	24.47	
5520	35.21	PK	V	32.1	5.92	26.86	46.37	74	27.63	
5520	21.02	AV	V	32.1	5.92	26.86	32.18	54	21.82	
105.2	34.25	QP	Н	11.89	1.26	21.4	26.00	43.5	17.50	

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^{*}Within measurement uncertainty!

FCC §15.215(c) – 20 dB BANDWIDTH TESTING

Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

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Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

		The second secon			
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	26.2 °C
Relative Humidity:	41%
ATM Pressure:	101.3 kPa

^{*} The testing was performed by Dean Liu on 2014-10-14.

Test Result: Compliant.

Please refer to following tables and plots

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Test Mode: Transmitting

Frequency	20 dB Bandwidth
(MHz)	(MHz)
2464	4.208

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Low Channel



Date: 14.OCT.2014 20:32:21

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FCC§15.249(d) - OUT OF BAND EMISSION (50 dB ATTENUATION)

Applicable Standard

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation

Report No.: RDG140826005-00B

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	26.2 °C
Relative Humidity:	41%
ATM Pressure:	101.3 kPa

^{*} The testing was performed by Dean Liu on 2014-10-14.

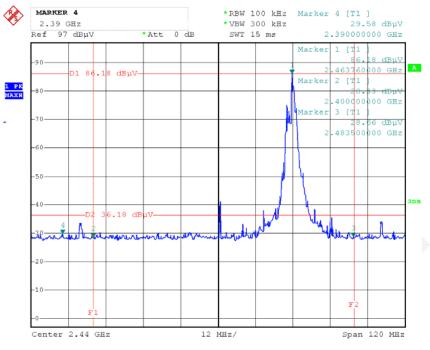
Test Result: Compliant.

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Please refer to the following plots:

Band Edge

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***** END OF REPORT *****

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