

## FCC PART 15.247

## TEST REPORT

For

### SZ DJI TECHNOLOGY CO., LTD

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Shenzhen, Guangdong, China

**FCC ID: SS3-GL3001501**

|                                        |                                                                                                                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Type:</b><br>Original Report | <b>Product Type:</b><br>Remote Controller                                                                                                                                                                                                               |
| <b>Test Engineer:</b>                  | Allen Qiao                                                                                                                                                                                                                                              |
| <b>Report Number:</b>                  | RDG150107008-00A                                                                                                                                                                                                                                        |
| <b>Report Date:</b>                    | 2015-04-02                                                                                                                                                                                                                                              |
| <b>Reviewed By:</b>                    | Sula Huang<br>RF Leader                                                                                                                                                                                                                                 |
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## **TABLE OF CONTENTS**

|                                                                        |           |
|------------------------------------------------------------------------|-----------|
| <b>GENERAL INFORMATION.....</b>                                        | <b>4</b>  |
| PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....               | 4         |
| OBJECTIVE .....                                                        | 4         |
| TEST METHODOLOGY .....                                                 | 4         |
| TEST FACILITY .....                                                    | 5         |
| <b>SYSTEM TEST CONFIGURATION.....</b>                                  | <b>6</b>  |
| DESCRIPTION OF TEST CONFIGURATION .....                                | 6         |
| EUT EXERCISE SOFTWARE .....                                            | 6         |
| EQUIPMENT MODIFICATIONS .....                                          | 6         |
| BLOCK DIAGRAM OF TEST SETUP .....                                      | 6         |
| <b>SUMMARY OF TEST RESULTS.....</b>                                    | <b>7</b>  |
| <b>FCC §1.1310 &amp; §2.1093 - RF EXPOSURE.....</b>                    | <b>8</b>  |
| APPLICABLE STANDARD .....                                              | 8         |
| TEST RESULT .....                                                      | 8         |
| <b>FCC §15.203 - ANTENNA REQUIREMENT.....</b>                          | <b>9</b>  |
| APPLICABLE STANDARD .....                                              | 9         |
| ANTENNA CONNECTOR CONSTRUCTION .....                                   | 9         |
| <b>FCC §15.209, §15.205 &amp; §15.247(d) - SPURIOUS EMISSIONS.....</b> | <b>10</b> |
| APPLICABLE STANDARD .....                                              | 10        |
| MEASUREMENT UNCERTAINTY .....                                          | 10        |
| EUT SETUP .....                                                        | 10        |
| EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP .....                      | 11        |
| TEST PROCEDURE .....                                                   | 11        |
| CORRECTED AMPLITUDE & MARGIN CALCULATION .....                         | 12        |
| TEST EQUIPMENT LIST AND DETAILS.....                                   | 12        |
| TEST RESULTS SUMMARY .....                                             | 12        |
| TEST DATA .....                                                        | 12        |
| <b>FCC §15.247(a) (2) – 6dB BANDWIDTH.....</b>                         | <b>17</b> |
| APPLICABLE STANDARD .....                                              | 17        |
| TEST PROCEDURE .....                                                   | 17        |
| TEST EQUIPMENT LIST AND DETAILS.....                                   | 17        |
| TEST DATA .....                                                        | 17        |
| <b>FCC §15.247(b) (3) - MAXIMUM PEAK CONDUCTED OUTPUT POWER.....</b>   | <b>20</b> |
| APPLICABLE STANDARD .....                                              | 20        |
| TEST PROCEDURE .....                                                   | 20        |
| TEST EQUIPMENT LIST AND DETAILS.....                                   | 20        |
| TEST DATA .....                                                        | 20        |
| <b>FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE.....</b>  | <b>22</b> |
| APPLICABLE STANDARD .....                                              | 22        |
| TEST PROCEDURE .....                                                   | 22        |
| TEST EQUIPMENT LIST AND DETAILS.....                                   | 22        |
| TEST DATA .....                                                        | 22        |
| <b>FCC §15.247(e) - POWER SPECTRAL DENSITY .....</b>                   | <b>24</b> |

APPLICABLE STANDARD .....24

TEST PROCEDURE .....24

TEST EQUIPMENT LIST AND DETAILS.....24

TEST DATA .....24

**DECLARATION LETTER .....28**

FINAL

## GENERAL INFORMATION

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### Product Description for Equipment under Test (EUT)

The SZ DJI TECHNOLOGY CO., LTD's product, model number: GL300A (FCC ID: SS3-GL3001501) (the "EUT") in this report was a Remote Controller (called as C1), which was measured approximately: 18.2cm (L) x 17.14 cm (W) x 10.52 cm (H), rated input voltage: DC 7.4V from battery, DC 17.5V from P3X adapter and DC 17.4V from P3S adapter.

P3X Adapter information:

Model: ADE019

Input: AC 100-240V, 50/60Hz, 1.4A

Output: DC 17.5V, 5.7A

P3S Adapter information:

Model: A14-057N1A

Input: AC 100-240V, 50/60Hz, 1.8A

Output: DC 17.4V, 3.3A

*Note: The series product, model GL300A and GL300B are electrically identical, the difference between them please refer declaration letter, we selected GL300A for fully testing and selected GL300B for Radiation emission test, the details was explained in the attached declaration letter.*

*\* All measurement and test data in this report was gathered from production sample serial number: GL300A: 150107008-1. GL300B: 150107008-2(Assigned by BACL.Dongguan). The EUT was received on 2015-01-15.*

### Objective

This report is prepared on behalf of SZ DJI TECHNOLOGY CO., LTD in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communications Commission's rules

The tests were performed in order to determine the compliance of the EUT with FCC Part 15-Subpart C, section 15.203, 15.205, 15.209 and 15.247 rules.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, 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 emissions measurement was performed and 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 Communications 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 06, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

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.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

For 2.4G band, 39 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1       | 2404            | 21      | 2444            |
| 2       | 2406            | ...     | ...             |
| ...     | ...             | ...     | ...             |
| ...     | ...             | ...     | ...             |
| ..      | ...             | 38      | 2478            |
| 20      | 2442            | 39      | 2480            |

3channels were tested: 2404MHz, 2442MHz, 2480 MHz

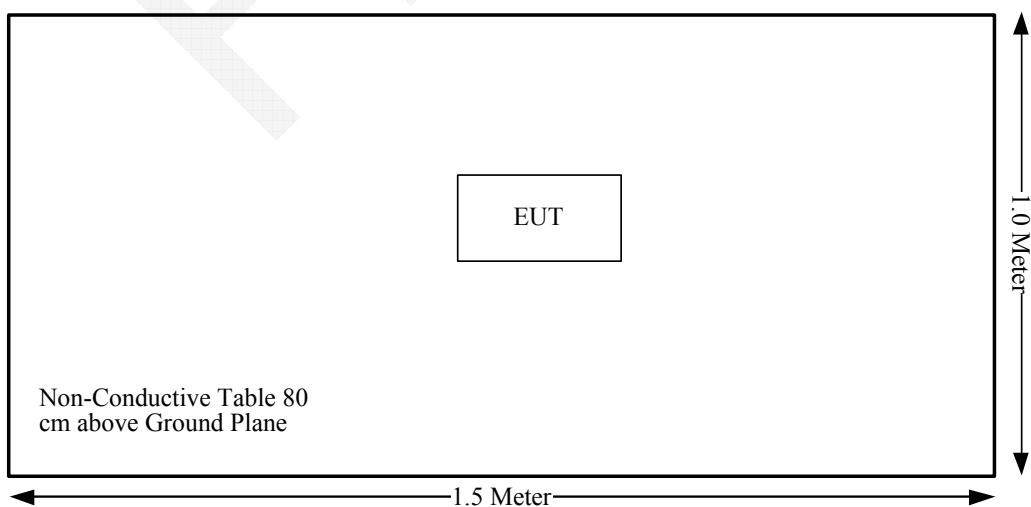
### EUT Exercise Software

No software was used in test, the system configured maximum power and switched the channel by keys.

### Equipment Modifications

No modification was made to the EUT.

### Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

| FCC Rules                           | Description of Test                      | Result         |
|-------------------------------------|------------------------------------------|----------------|
| FCC §15.247 (i) & §1.1310 & §2.1093 | RF EXPOSURE                              | Compliance     |
| §15.203                             | Antenna Requirement                      | Compliance     |
| §15.207 (a)                         | AC Line Conducted Emissions              | Not Applicable |
| §15.247(d)                          | Spurious Emissions at Antenna Port       | Compliance     |
| §15.205, §15.209, §15.247(d)        | Spurious Emissions                       | Compliance     |
| §15.247 (a)(2)                      | 6 dB Bandwidth                           | Compliance     |
| §15.247(b)(3)                       | Maximum Peak Conducted Output Power      | Compliance     |
| §15.247(d)                          | 100 kHz Bandwidth of Frequency Band Edge | Compliance     |
| §15.247(e)                          | Power Spectral Density                   | Compliance     |

Not Applicable: The EUT powered by lithium battery in normal operation.

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## **FCC §1.1310 & §2.1093 - RF EXPOSURE**

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### **Applicable Standard**

FCC§1.1310 and §2.1093.

### **Test Result**

Compliance, please refer to the SAR report: RDG150107008-20A.

FINAL

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## FCC §15.203 - ANTENNA REQUIREMENT

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### Applicable Standard

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 with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

### Antenna Connector Construction

The EUT has an integral antenna arrangement for transmitting, the antenna gain is 3.5dBi, and another antenna only for receiving, fulfill the requirement of the item. Please refer to the internal photos.

**Result:** Compliance.

## FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

### Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

### 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  $U_{cisp}$  of Table 2, 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  $U_{cisp}$  of Table 2, then:

- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cisp})$ , exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cisp})$ , 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

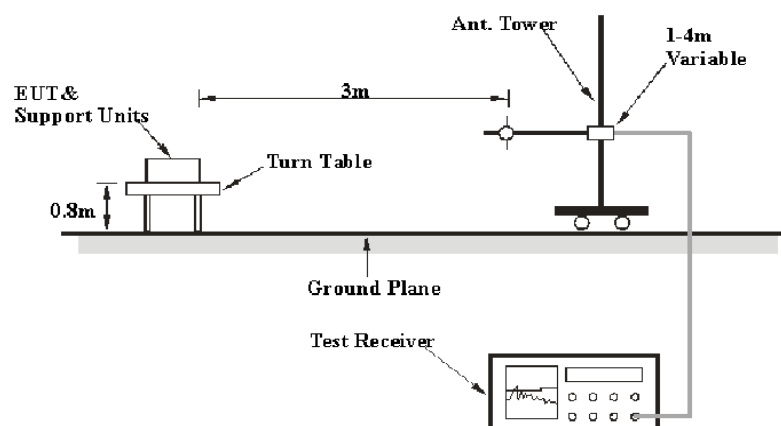
6G~18GHz: 5.23 dB

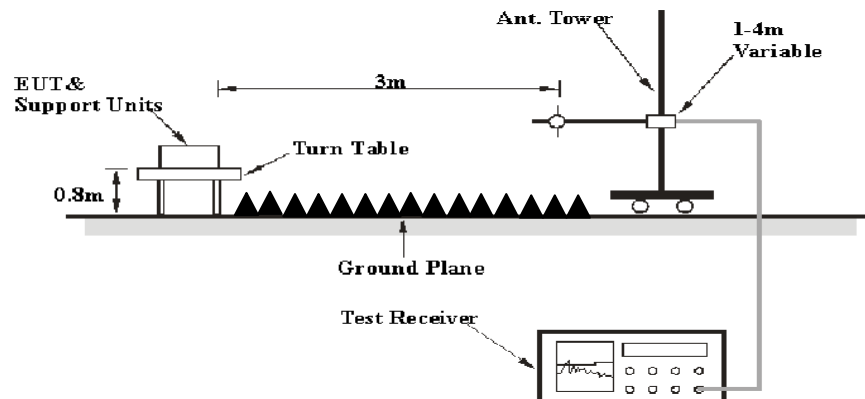
Table 2 – Values of  $U_{cisp}$

| Measurement                                                                                | $U_{cisp}$ |
|--------------------------------------------------------------------------------------------|------------|
| 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 1GHz:



**Above 1GHz:**

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209, and FCC 15.247 limits.

The spacing between the peripherals was 10 cm.

**EMI Test Receiver & Spectrum Analyzer 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 |
|------------------|---------|-----------|--------|----------|
| 30MHz – 1000 MHz | 120 kHz | 300 kHz   | 120kHz | QP       |
| Above 1 GHz      | 1MHz    | 3 MHz     | /      | PK       |
|                  | 1MHz    | 10 Hz     | /      | Ave.     |

**Test Procedure**

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

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

## Corrected Amplitude & Margin Calculation

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

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

## 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          | 2015-02-19       | 2016-02-19           |
| R&S                   | Spectrum Analyzer | FSP 38          | 100478             | 2014-05-09       | 2015-05-09           |
| Ducommun Technologies | Horn Antenna      | ARH-4223-02     | 1007726-01<br>1304 | 2014-06-16       | 2017-06-15           |
| Quinstar              | Amplifier         | QLW-18405536-JO | 15964001001        | 2014-09-06       | 2015-09-06           |

\* **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 Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Section 15.205, 15.209 and 15.247, with the worst margin reading of:

**3.32 dB at 215.27MHz in the Vertical polarization**

## Test Data

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 22.4 °C   |
| Relative Humidity: | 62 %      |
| ATM Pressure:      | 100.8 kPa |

The testing was performed by Allen Qiao on 2015-03-19.

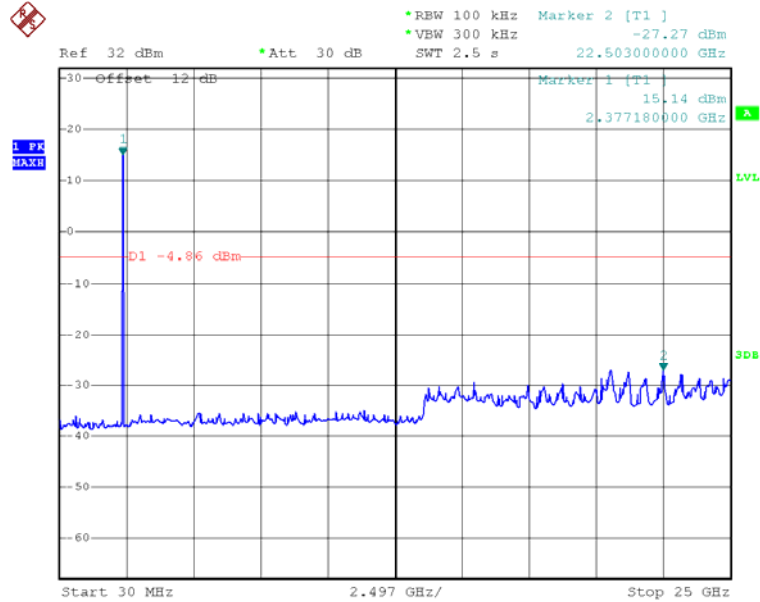
Mode: Transmitting (model GL300A, GL300B were pretested, the worse case is GL300A and record in report)

| Frequency<br>MHz  | Receiver        |                      | Rx Antenna   |                   | Cable<br>loss<br>dB | Amplifier<br>Gain<br>dB | Corrected<br>Amplitude<br>dBμV/m | Limit<br>dBμV/m | Margin<br>dB |
|-------------------|-----------------|----------------------|--------------|-------------------|---------------------|-------------------------|----------------------------------|-----------------|--------------|
|                   | Reading<br>dBμV | Detector<br>PK/QP/AV | Polar<br>H/V | Factor<br>dB(1/m) |                     |                         |                                  |                 |              |
| Frequency:2404MHz |                 |                      |              |                   |                     |                         |                                  |                 |              |
| 2404              | 86.11           | PK                   | H            | 25.65             | 4.42                | 0.00                    | 116.18                           | N/A             | N/A          |
| 2404              | 62.38           | AV                   | H            | 25.65             | 4.42                | 0.00                    | 92.45                            | N/A             | N/A          |
| 2404              | 91.35           | PK                   | V            | 25.65             | 4.42                | 0.00                    | 121.42                           | N/A             | N/A          |
| 2404              | 67.11           | AV                   | V            | 25.65             | 4.42                | 0.00                    | 97.18                            | N/A             | N/A          |
| 2390              | 29.22           | PK                   | V            | 25.61             | 4.39                | 0.00                    | 59.22                            | 74.00           | 14.78        |
| 2390              | 17.28           | AV                   | V            | 25.61             | 4.39                | 0.00                    | 47.28                            | 54.00           | 6.72         |
| 4808              | 38.98           | PK                   | V            | 30.60             | 5.99                | 27.41                   | 48.16                            | 74.00           | 25.84        |
| 4808              | 20.37           | AV                   | V            | 30.60             | 5.99                | 27.41                   | 29.55                            | 54.00           | 24.45        |
| 7212              | 42              | PK                   | V            | 34.11             | 7.45                | 25.91                   | 57.65                            | 74.00           | 16.35        |
| 7212              | 21.38           | AV                   | V            | 34.11             | 7.45                | 25.91                   | 37.03                            | 54.00           | 16.97        |
| 9616              | 33.14           | PK                   | V            | 35.98             | 8.80                | 27.53                   | 50.39                            | 74.00           | 23.61        |
| 9616              | 18.37           | AV                   | V            | 35.98             | 8.80                | 27.53                   | 35.62                            | 54.00           | 18.38        |
| 3096              | 33.94           | PK                   | V            | 27.51             | 7.35                | 27.45                   | 41.35                            | 74.00           | 32.65        |
| 3096              | 20.13           | AV                   | V            | 27.51             | 7.35                | 27.45                   | 27.54                            | 54.00           | 26.46        |
| 215.27            | 48.2            | QP                   | V            | 11.38             | 1.77                | 21.47                   | 39.88                            | 43.50           | 3.62*        |
| Frequency:2442MHz |                 |                      |              |                   |                     |                         |                                  |                 |              |
| 2442              | 88.37           | PK                   | H            | 25.75             | 4.40                | 0.00                    | 118.52                           | N/A             | N/A          |
| 2442              | 64.25           | AV                   | H            | 25.75             | 4.40                | 0.00                    | 94.40                            | N/A             | N/A          |
| 2442              | 93.43           | PK                   | V            | 25.75             | 4.40                | 0.00                    | 123.58                           | N/A             | N/A          |
| 2442              | 69.91           | AV                   | V            | 25.75             | 4.40                | 0.00                    | 100.06                           | N/A             | N/A          |
| 4884              | 38.51           | PK                   | V            | 30.80             | 6.08                | 27.42                   | 47.97                            | 74.00           | 26.03        |
| 4884              | 20.03           | AV                   | V            | 30.80             | 6.08                | 27.42                   | 29.49                            | 54.00           | 24.51        |
| 7326              | 43.36           | PK                   | V            | 34.38             | 7.52                | 25.88                   | 59.38                            | 74.00           | 14.62        |
| 7326              | 31.58           | AV                   | V            | 34.38             | 7.52                | 25.88                   | 47.60                            | 54.00           | 6.40         |
| 9768              | 33.42           | PK                   | V            | 36.34             | 8.83                | 27.19                   | 51.40                            | 74.00           | 22.60        |
| 9768              | 18.47           | AV                   | V            | 36.34             | 8.83                | 27.19                   | 36.45                            | 54.00           | 17.55        |
| 3096              | 33.16           | PK                   | V            | 27.51             | 7.35                | 27.45                   | 40.57                            | 74.00           | 33.43        |
| 3096              | 20.17           | AV                   | V            | 27.51             | 7.35                | 27.45                   | 27.58                            | 54.00           | 26.42        |
| 1424              | 33.38           | PK                   | V            | 23.40             | 3.12                | 27.10                   | 32.80                            | 74.00           | 41.20        |
| 1424              | 20.84           | AV                   | V            | 23.40             | 3.12                | 27.10                   | 20.26                            | 54.00           | 33.74        |
| 215.27            | 48.5            | QP                   | V            | 11.38             | 1.77                | 21.47                   | 40.18                            | 43.50           | 3.32*        |

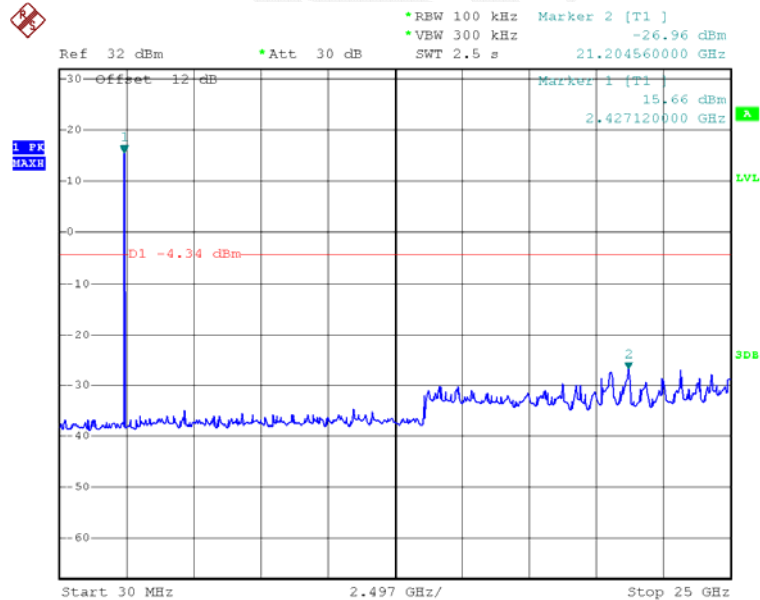
\*Within measurement uncertainty!

| Frequency<br>MHz  | Receiver        |                      | Rx Antenna   |                   | Cable<br>loss<br>dB | Amplifier<br>Gain<br>dB | Corrected<br>Amplitude<br>dBμV/m | Limit<br>dBμV/m | Margin<br>dB |
|-------------------|-----------------|----------------------|--------------|-------------------|---------------------|-------------------------|----------------------------------|-----------------|--------------|
|                   | Reading<br>dBμV | Detector<br>PK/QP/AV | Polar<br>H/V | Factor<br>dB(1/m) |                     |                         |                                  |                 |              |
| Frequency:2480MHz |                 |                      |              |                   |                     |                         |                                  |                 |              |
| 2480              | 89.16           | PK                   | H            | 25.85             | 4.48                | 0.00                    | 119.49                           | N/A             | N/A          |
| 2480              | 65.84           | AV                   | H            | 25.85             | 4.48                | 0.00                    | 96.17                            | N/A             | N/A          |
| 2480              | 95.39           | PK                   | V            | 25.85             | 4.48                | 0.00                    | 125.72                           | N/A             | N/A          |
| 2480              | 71.67           | AV                   | V            | 25.85             | 4.48                | 0.00                    | 102.00                           | N/A             | N/A          |
| 2483.5            | 39.7            | PK                   | V            | 25.86             | 4.49                | 0.00                    | 70.05                            | 74.00           | 3.95*        |
| 2483.5            | 18.32           | AV                   | V            | 25.86             | 4.49                | 0.00                    | 48.67                            | 54.00           | 5.33         |
| 4960              | 38.04           | PK                   | V            | 31.00             | 5.90                | 27.43                   | 47.51                            | 74.00           | 26.49        |
| 4960              | 20.39           | AV                   | V            | 31.00             | 5.90                | 27.43                   | 29.86                            | 54.00           | 24.14        |
| 7440              | 48.32           | PK                   | V            | 34.66             | 7.58                | 25.97                   | 64.59                            | 74.00           | 9.41         |
| 7440              | 23.13           | AV                   | V            | 34.66             | 7.58                | 25.97                   | 39.40                            | 54.00           | 14.60        |
| 9920              | 34.65           | PK                   | V            | 36.71             | 8.87                | 26.66                   | 53.57                            | 74.00           | 20.43        |
| 9920              | 19.2            | AV                   | V            | 36.71             | 8.87                | 26.66                   | 38.12                            | 54.00           | 15.88        |
| 3096              | 34.25           | PK                   | V            | 27.51             | 7.35                | 27.45                   | 41.66                            | 74.00           | 32.34        |
| 3096              | 21.21           | AV                   | V            | 27.51             | 7.35                | 27.45                   | 28.62                            | 54.00           | 25.38        |
| 215.27            | 48              | QP                   | V            | 11.38             | 1.77                | 21.47                   | 39.68                            | 43.50           | 3.82*        |

\*Within measurement uncertainty!

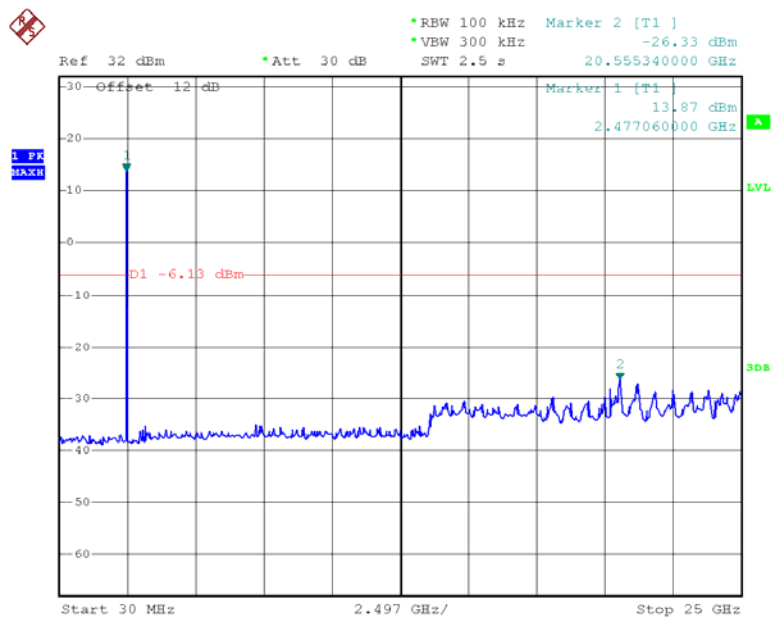
**Conducted Spurious Emissions at Antenna Port****Low Channel**

Date: 19.MAR.2015 17:27:42

**Middle Channel**

Date: 19.MAR.2015 17:29:33

## High Channel



Date: 19.MAR.2015 17:30:54

**FCC §15.247(a) (2) – 6dB BANDWIDTH****Applicable Standard**

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

**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 it to measurement instrument. 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 6 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**

| Manufacturer | Description       | Model  | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|--------|---------------|------------------|----------------------|
| 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:       | 25 °C     |
| Relative Humidity: | 63 %      |
| ATM Pressure:      | 100.8 kPa |

The testing was performed by Allen Qiao on 2015-03-19.

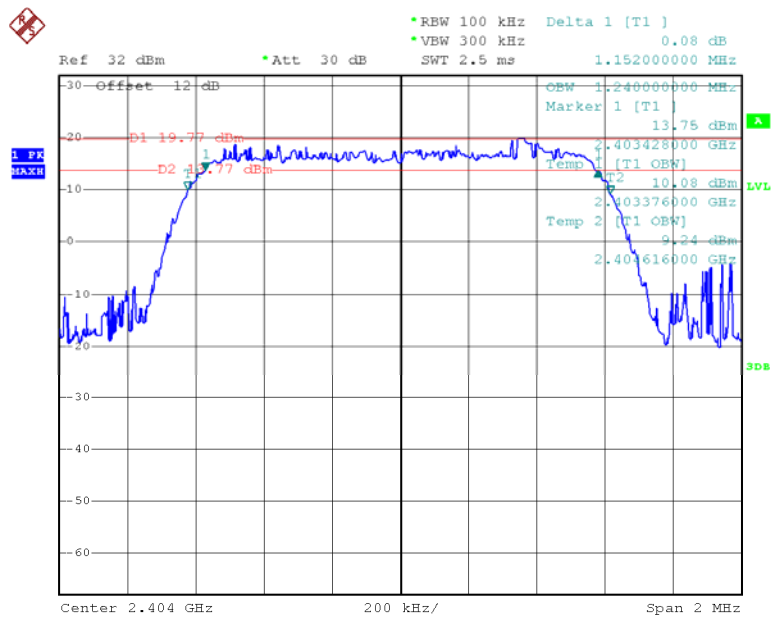
**Test Result:** Pass.

Please refer to the following tables and plots.

Test Mode: Transmitting

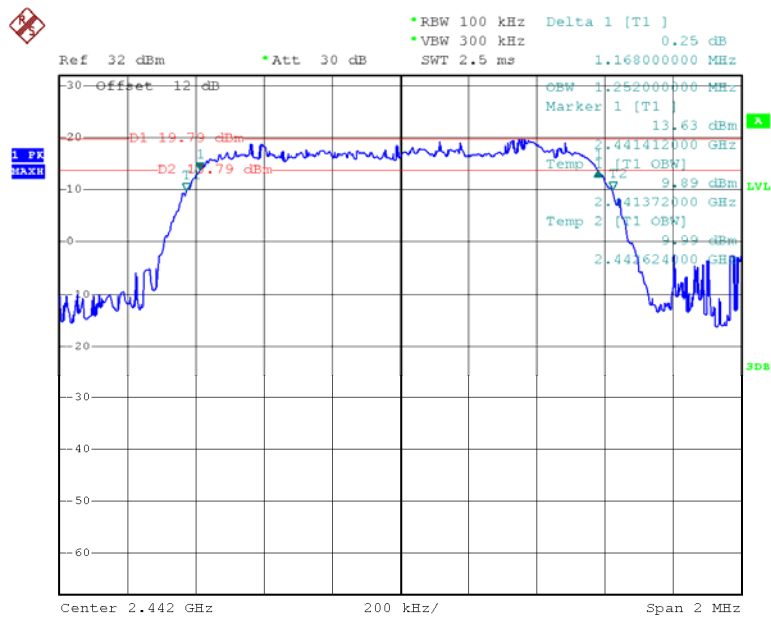
| Channel | Frequency | 6 dB Bandwidth |
|---------|-----------|----------------|
|         | (MHz)     | (MHz)          |
| Low     | 2404      | 1.152          |
| Middle  | 2442      | 1.168          |
| High    | 2480      | 1.168          |

### Low Channel



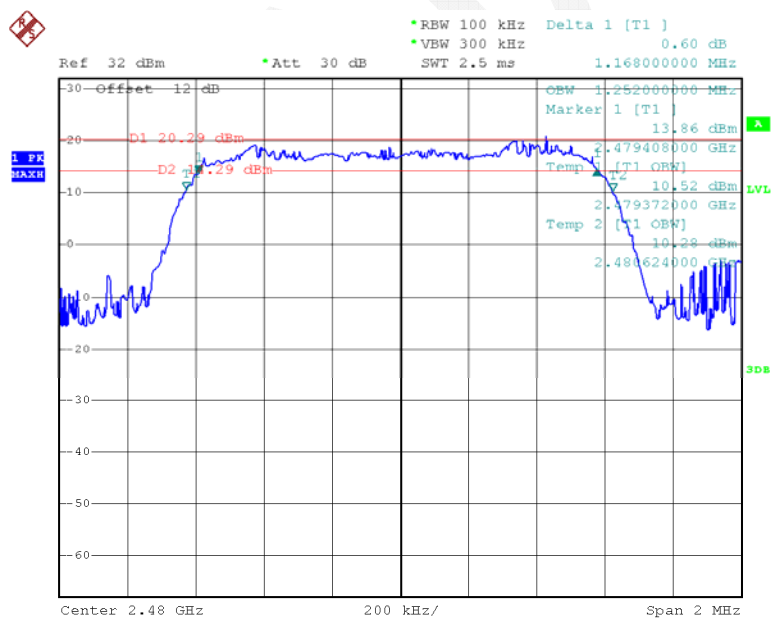
Date: 19.MAR.2015 17:07:43

### Middle Channel



Date: 19.MAR.2015 17:08:39

### High Channel



Date: 19.MAR.2015 17:09:35

## FCC §15.247(b) (3) - MAXIMUM PEAK CONDUCTED OUTPUT POWER

### Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### Test Procedure

1. According to KDB 558074 D01 DTS Meas Guidance v03r02, place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to a Test Equipment.



### Test Equipment List and Details

| Manufacturer | Description           | Model  | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-----------------------|--------|---------------|------------------|----------------------|
| Agilent      | Wideband Power Sensor | N1921A | MY54210016    | 2014-11-03       | 2015-11-03           |
| Agilent      | Wideband Power Sensor | N1921A | MY54170013    | 2014-11-03       | 2015-11-03           |
| Agilent      | P-Series Power Meter  | N1912A | MY5000448     | 2014-11-03       | 2015-11-03           |

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

### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 25 °C     |
| Relative Humidity: | 63 %      |
| ATM Pressure:      | 100.8 kPa |

The testing was performed by Allen Qiao on 2015-03-19.

*Test Mode: Transmitting*

| Channel | Frequency | Max Conducted<br>Peak Output<br>Power | Max Conducted<br>Average Output<br>Power | Limit | Result |
|---------|-----------|---------------------------------------|------------------------------------------|-------|--------|
|         | (MHz)     | (dBm)                                 | (dBm)                                    | (dBm) |        |
| Low     | 2404      | 27.09                                 | 15.17                                    | 30    | Pass   |
| Middle  | 2442      | 27.35                                 | 15.62                                    | 30    | Pass   |
| High    | 2480      | 27.58                                 | 15.84                                    | 30    | Pass   |

**FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE****Applicable Standard**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

**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 |
|--------------|-------------------|--------|---------------|------------------|----------------------|
| 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 in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

**Test Data****Environmental Conditions**

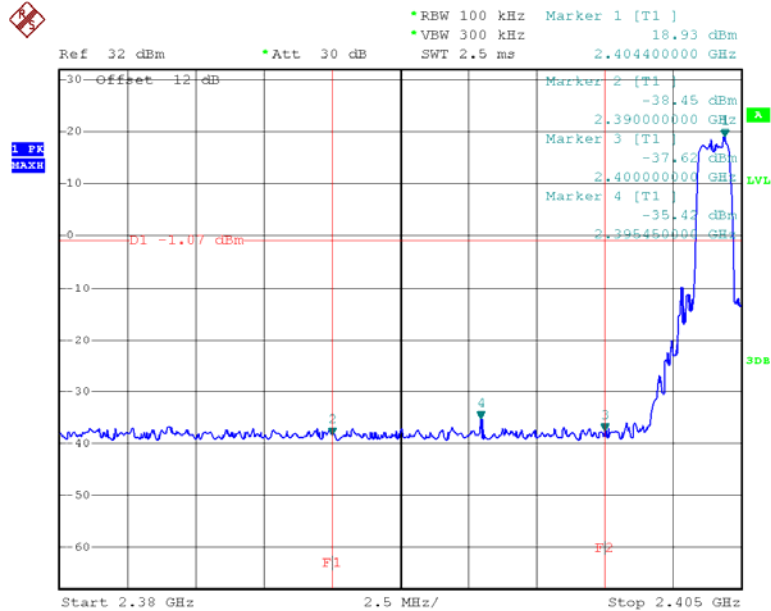
|                    |           |
|--------------------|-----------|
| Temperature:       | 25 °C     |
| Relative Humidity: | 63 %      |
| ATM Pressure:      | 100.8 kPa |

*The testing was performed by Allen Qiao on 2015-03-19.*

**Test Result:** Compliance

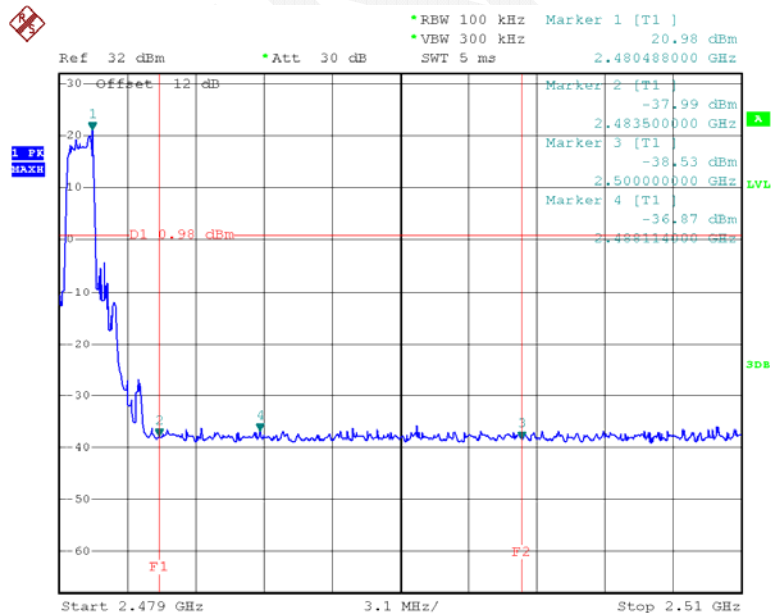
Please refer to following plots.

### Band Edge, Left Side



Date: 19.MAR.2015 17:12:47

### Band Edge, Right Side



Date: 19.MAR.2015 17:11:29

## FCC §15.247(e) - POWER SPECTRAL DENSITY

### Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 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 was set 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 the RBW = 3 kHz, VBW = 10 kHz, Set the span to 1.5 times the DTS bandwidth.
4. Use the peak marker function to determine the maximum amplitude level.

### Test Equipment List and Details

| Manufacturer | Description       | Model  | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|--------|---------------|------------------|----------------------|
| 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 in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 25 °C     |
| Relative Humidity: | 63 %      |
| ATM Pressure:      | 100.8 kPa |

*The testing was performed by Allen Qiao on 2015-03-19.*

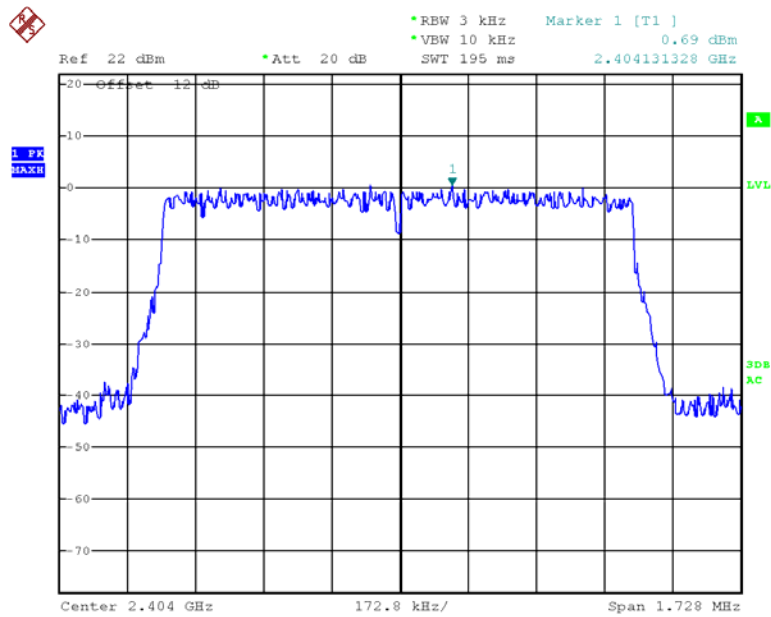
*Test Mode: Transmitting*

**Test Result:** Pass*Test Mode: Transmitting*

| Channel | Frequency | Power Spectral Density | Limits   | Result |
|---------|-----------|------------------------|----------|--------|
|         | MHz       | dBm/MHz                | dBm/3kHz |        |
| Low     | 2404      | 0.69                   | 8        | Pass   |
| Middle  | 2442      | 1.36                   | 8        | Pass   |
| High    | 2480      | 1.67                   | 8        | Pass   |

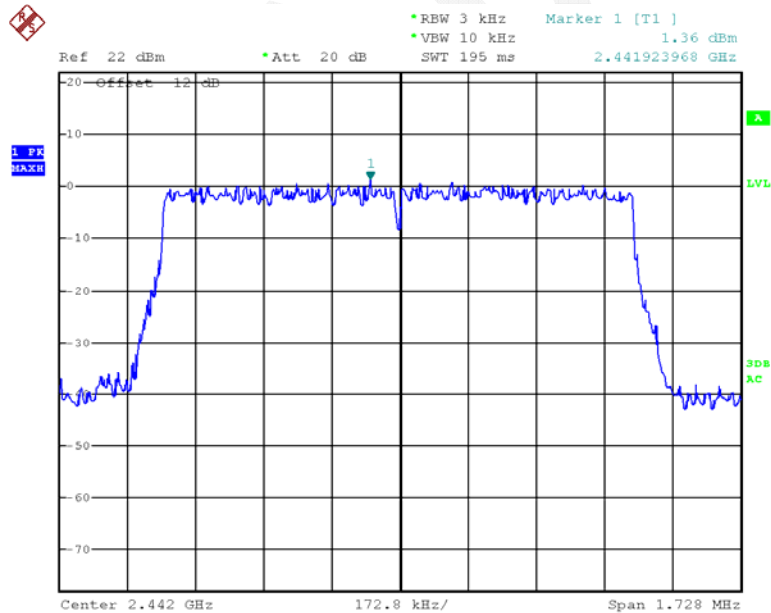
Please refer to the following plots

### Power Spectral Density, Antenna 1 Low Channel



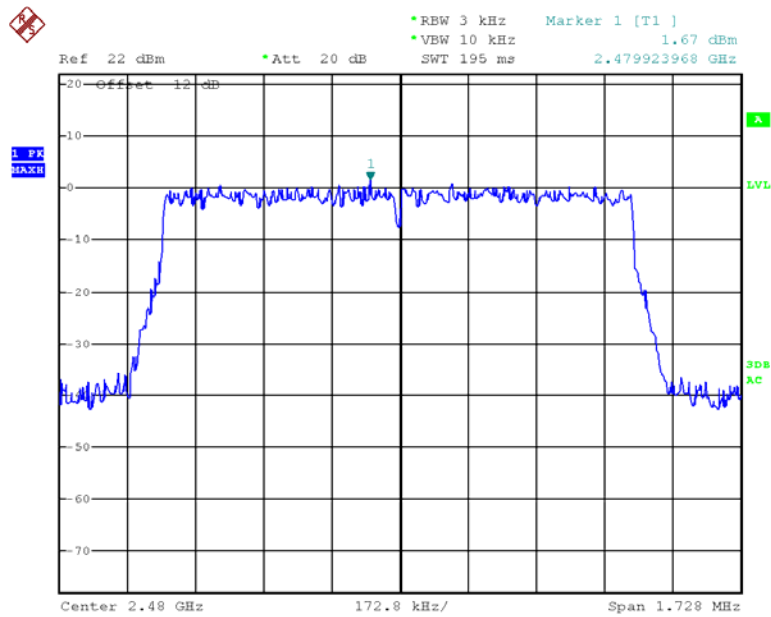
Date: 19.MAR.2015 12:15:20

### Power Spectral Density, Antenna 1 Middle Channel



Date: 19.MAR.2015 12:16:52

### Power Spectral Density, Antenna 1 High Channel



Date: 19.MAR.2015 12:17:49

## DECLARATION LETTER

### Declaration of Alteration

To Whom It May Concern,

We, SZ DJI TECHNOLOGY CO., LTD, hereby declare that there are some differences between our Multiple Models and testing products. Details as below:

(This is for your reference only.)

(This is for your reference only.)

|                         |                 |                                                                                                                                                 |                                                                                                                                                                   |
|-------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Products Description    | Name            | C1                                                                                                                                              |                                                                                                                                                                   |
|                         | Brand           | DJI                                                                                                                                             |                                                                                                                                                                   |
|                         | Manufacturer    | SZ DJI TECHNOLOGY CO., LTD                                                                                                                      |                                                                                                                                                                   |
|                         | Project No.     | RDG150107007,RDG150107008,RDG150107009, RDG150107010,RDG150107011,RDG150107012, R2DG150107007-03, RDG150107008-20                               |                                                                                                                                                                   |
| Differences Description |                 |                                                                                                                                                 |                                                                                                                                                                   |
| Testing Products        | Multiple Models | Differences Items                                                                                                                               | Details                                                                                                                                                           |
| GL300A                  | GL300B          | 1.GL300B delete DM368 and its additional circuit.<br>2.GL300B delete CY7C68013,add CYUSB2014.<br>3.GL300B add CW2015CWAD fuel guage IC circuit. | 1&2:GL300B delete DM368 and CY7C68013,add CYUSB2014 instand.They have the same function.<br>3.GL300B adds fuel guage IC CW2015CWAD for accurate power estimating. |

Notes: Testing products-the products tested by BACL

Multiple Model- have the same or similar appearance, structure, PCB, Material and function to the testing products, and only are different for little parameters.

Besides the differences in the table above, we declare the products are identical

We guarantee all the information provided above is true, and notice that we'll bear all the consequences caused by any false information or concealing

Best Regards,

Signature:   
Print Name: Lisa Li  
Title: Certification Supervisor

ADD: 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18 Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, China Tel: 0755-86152250 Fax: 0755-86965903 Email: lisa.li@dji.com

QPDG004R32 Version1.0 (20140717)

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