

FCC PART 15.247



TEST REPORT

For

SZ DJI TECHNOLOGY CO., LTD

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Shenzhen, Guangdong, China

FCC ID: SS3-GL3001510

Report Type: Original Report	Product Type: Remote Controller
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Report Number: RDG151013014-00A	
Report Date: 2015-10-23	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *SZ DJI TECHNOLOGY CO., LTD*'s product, model number: *GL300C (FCC ID: SS3-GL3001510)* (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 or DC 17.4V from adapter.

Adapter information:

Model: ADE019

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

Output: DC 17.5V, 5.7A

Model: A14-057N1A

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

Output: DC 17.4V, 3.3A

** All measurement and test data in this report was gathered from production sample serial number: 151013014 (Assigned by BACL.Dongguan). The EUT was received on 2015-10-08.*

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 C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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 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, 34 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2404	18	2438
2	2406
...
...
..	...	33	2468
17	2436	34	2470

3channels were tested: 2404MHz, 2436MHz, 2470MHz

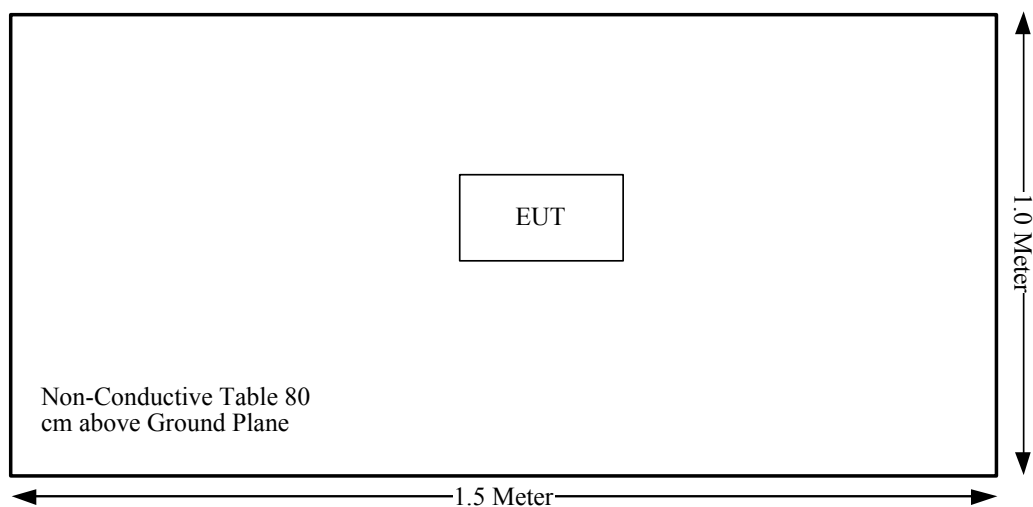
EUT Exercise Software

The software “sscom32” was used for testing, which was provided by the manufacture. The maximum power was configured by system default setting.

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.

FCC §1.1310 & §2.1093 - RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RDG151013014-20A.

FCC §15.203 - ANTENNA REQUIREMENT

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

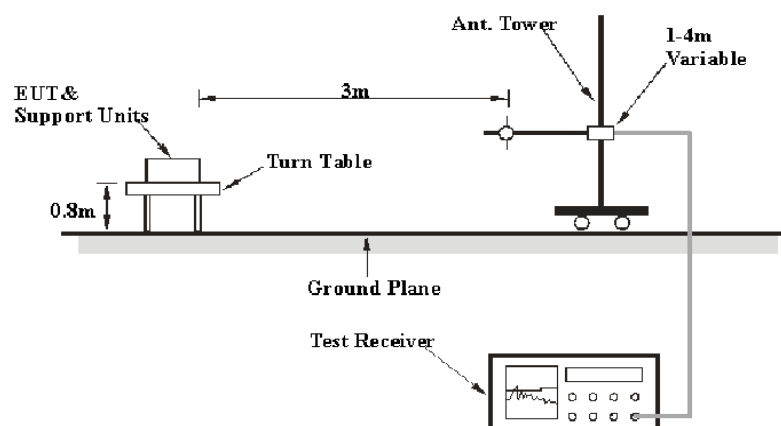
6G~18GHz: 5.23 dB

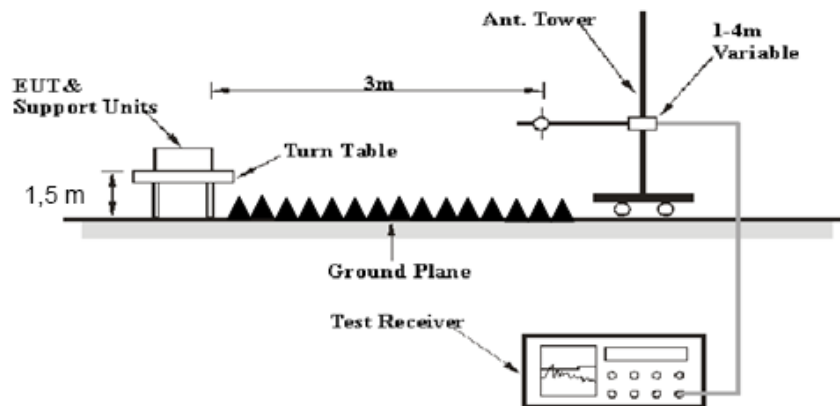
Table 2 – Values of U_{cisp}

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 C63.10-2013. 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	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2014-12-04	2015-12-04
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2015-09-06	2016-09-06

* **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:

5.62 dB at 2483.5 MHz in the Vertical polarization

Test Data

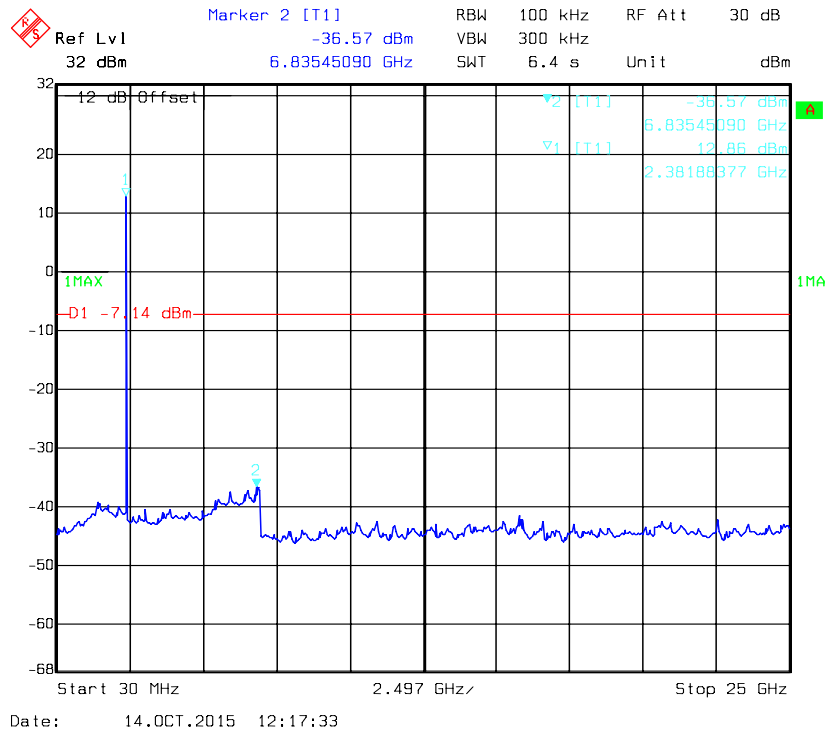
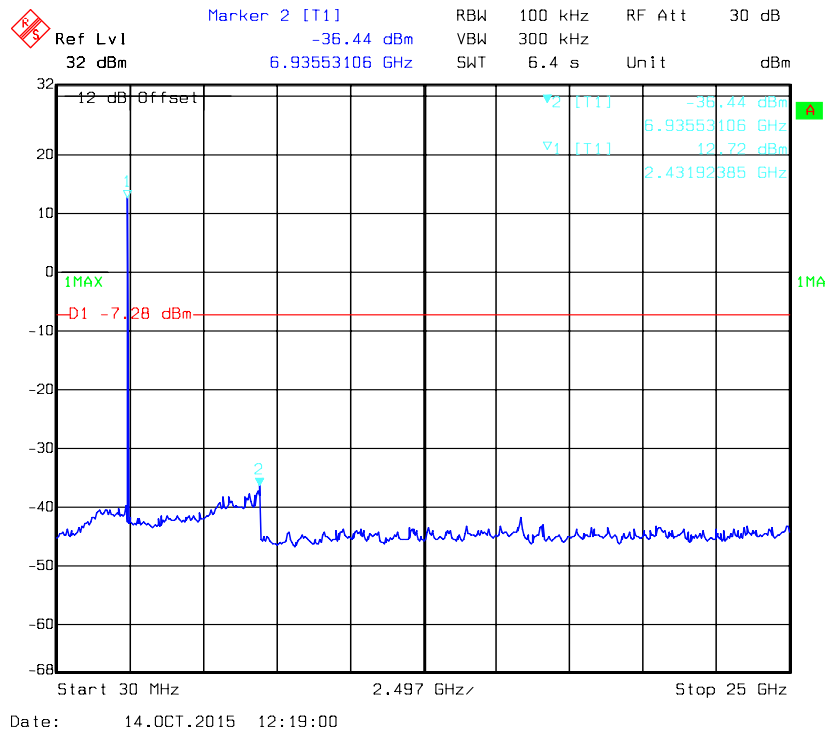
Environmental Conditions

Temperature:	25.4 °C
Relative Humidity:	42 %
ATM Pressure:	101.1 kPa

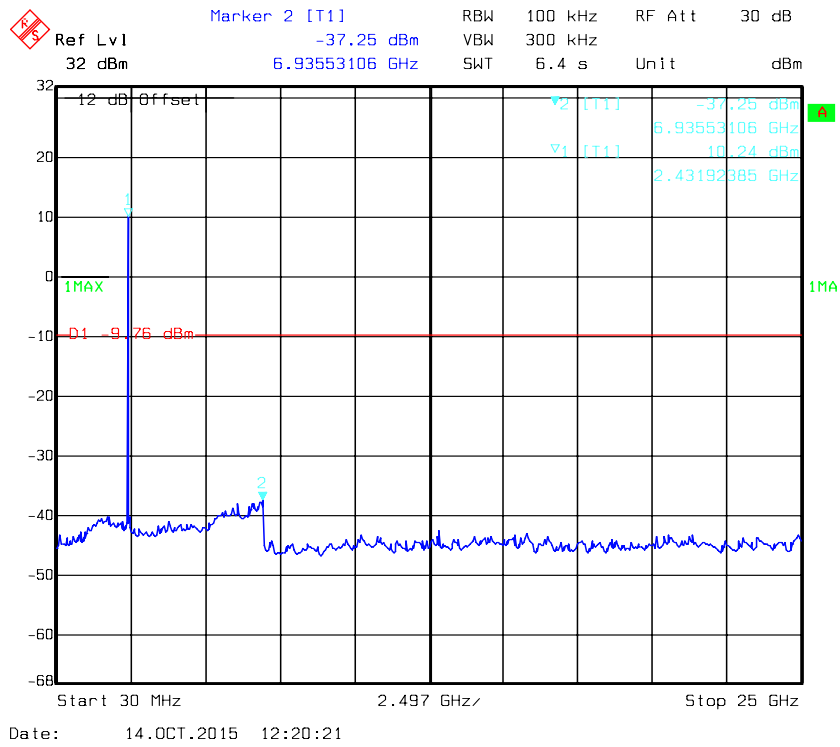
The testing was performed by Allen Qiao on 2015-10-14.

Mode: Transmitting

Frequency MHz	Receiver		Rx Antenna		Cable loss dB	Amplifier Gain dB	Corrected Amplitude dBμV/m	Limit dBμV/m	Margin dB
	Reading dBμV	Detector PK/QP/AV	Polar H/V	Factor dB(1/m)					
Frequency:2404MHz									
2404	75.4	PK	H	28.47	3.66	0.00	107.53	N/A	N/A
2404	51.63	AV	H	28.47	3.66	0.00	83.76	N/A	N/A
2404	83.53	PK	V	28.47	3.66	0.00	115.66	N/A	N/A
2404	59.64	AV	V	28.47	3.66	0.00	91.77	N/A	N/A
2390	27.73	PK	V	28.44	3.63	0.00	59.80	74.00	14.20
2390	13.94	AV	V	28.44	3.63	0.00	46.01	54.00	7.99
4808	44.37	PK	V	33.15	5.06	27.41	55.17	74.00	18.83
4808	23.13	AV	V	33.15	5.06	27.41	33.93	54.00	20.07
7212	31.84	PK	V	36.38	6.62	25.91	48.93	74.00	25.07
7212	18.46	AV	V	36.38	6.62	25.91	35.55	54.00	18.45
9616	30.08	PK	V	38.38	8.53	27.53	49.46	74.00	24.54
9616	16.47	AV	V	38.38	8.53	27.53	35.85	54.00	18.15
3115	33.26	PK	V	31.24	6.88	27.44	43.94	74.00	30.06
3115	20.42	AV	V	31.24	6.88	27.44	31.10	54.00	22.90
840.9	31.5	QP	V	22.16	3.50	22.28	34.88	46.00	11.12
Frequency:2436MHz									
2436	78.75	PK	H	28.55	3.75	0.00	111.05	N/A	N/A
2436	54.73	AV	H	28.55	3.75	0.00	87.03	N/A	N/A
2436	87.03	PK	V	28.55	3.75	0.00	119.33	N/A	N/A
2436	63.1	AV	V	28.55	3.75	0.00	95.40	N/A	N/A
4872	49.64	PK	V	33.36	5.13	27.42	60.71	74.00	13.29
4872	26.89	AV	V	33.36	5.13	27.42	37.96	54.00	16.04
7308	36.48	PK	V	36.55	6.73	25.88	53.88	74.00	20.12
7308	18.76	AV	V	36.55	6.73	25.88	36.16	54.00	17.84
9744	31.87	PK	V	38.35	8.61	27.25	51.58	74.00	22.42
9744	15.9	AV	V	38.35	8.61	27.25	35.61	54.00	18.39
3115	33.87	PK	V	31.24	6.88	27.44	44.55	74.00	29.45
3115	21.09	AV	V	31.24	6.88	27.44	31.77	54.00	22.23
3730	34.93	PK	V	32.42	4.58	27.34	44.59	74.00	29.41
3730	22.15	AV	V	32.42	4.58	27.34	31.81	54.00	22.19
840.9	31.2	QP	V	22.16	3.50	22.28	34.58	46.00	11.42
Frequency:2470MHz									
2470	81.63	PK	H	28.63	3.72	0.00	113.98	N/A	N/A
2470	57.63	AV	H	28.63	3.72	0.00	89.98	N/A	N/A
2470	89.58	PK	V	28.63	3.72	0.00	121.93	N/A	N/A
2470	65.63	AV	V	28.63	3.72	0.00	97.98	N/A	N/A
2483.5	32.99	PK	V	28.66	3.67	0.00	65.32	74.00	8.68
2483.5	16.05	AV	V	28.66	3.67	0.00	48.38	54.00	5.62
4940	55.93	PK	V	33.60	5.36	27.43	67.46	74.00	6.54
4940	30.11	AV	V	33.60	5.36	27.43	41.64	54.00	12.36
7410	43.31	PK	V	36.74	6.85	25.89	61.01	74.00	12.99
7410	19.87	AV	V	36.74	6.85	25.89	37.57	54.00	16.43
9880	35.88	PK	V	38.32	8.68	26.82	56.06	74.00	17.94
9880	17.68	AV	V	38.32	8.68	26.82	37.86	54.00	16.14
3115	34.53	PK	V	31.24	6.88	27.44	45.21	74.00	28.79
3115	21.76	AV	V	31.24	6.88	27.44	32.44	54.00	21.56
840.9	31.8	QP	V	22.16	3.50	22.28	35.18	46.00	10.82

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

High Channel

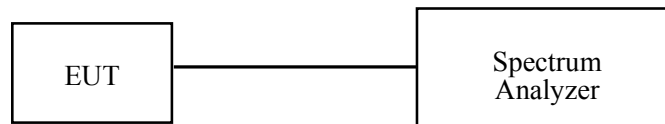


FCC §15.247(a) (2) – 6dB BANDWIDTH**Applicable Standard**

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	2015-05-09	2016-05-09

* **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:	101.4 kPa

The testing was performed by Allen Qiao on 2015-10-13.

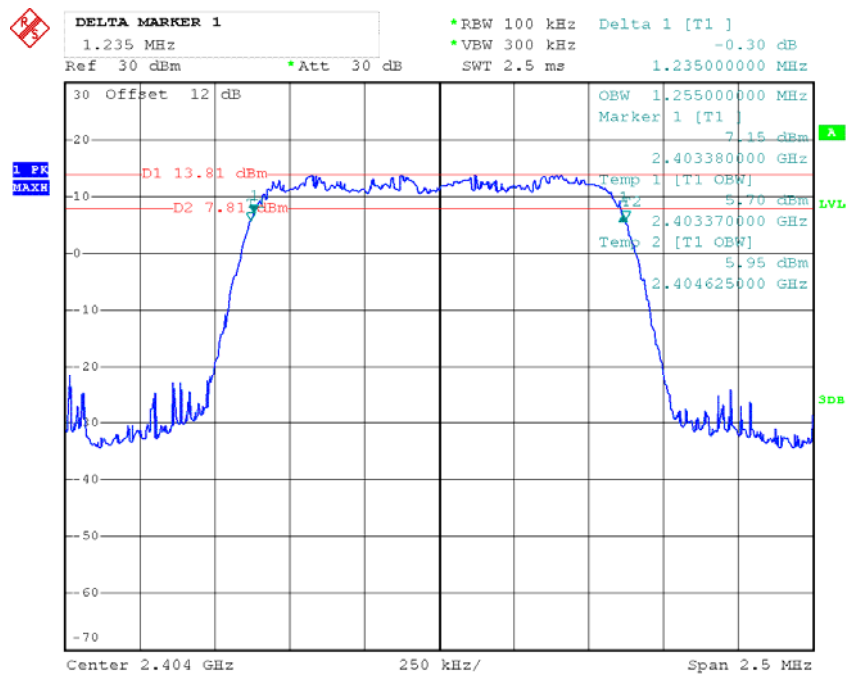
Test Result: Compliance.

Please refer to the following tables and plots.

Test Mode: Transmitting

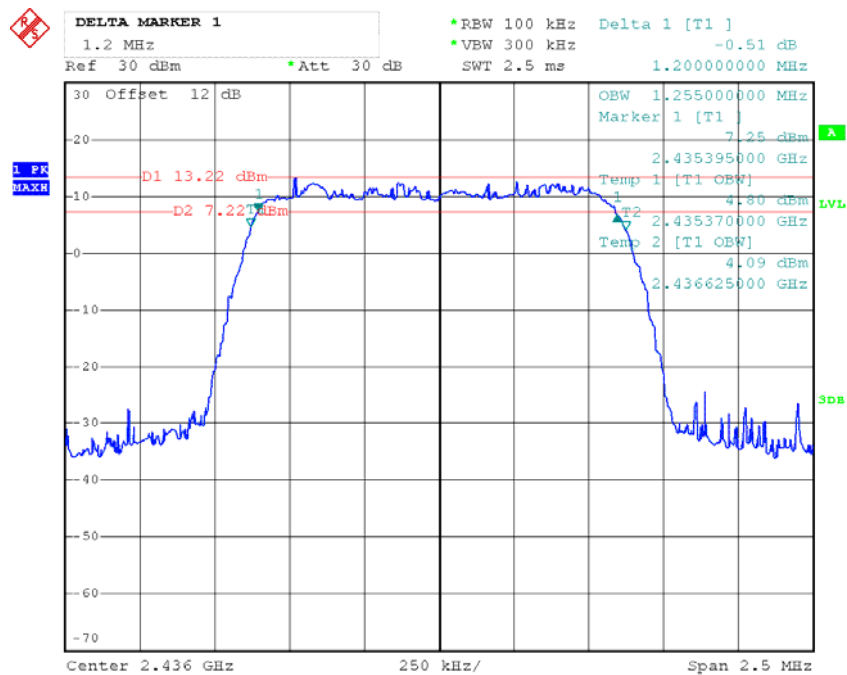
Channel	Frequency	6 dB Bandwidth
	(MHz)	(MHz)
Low	2404	1.235
Middle	2436	1.200
High	2470	1.210

Low Channel



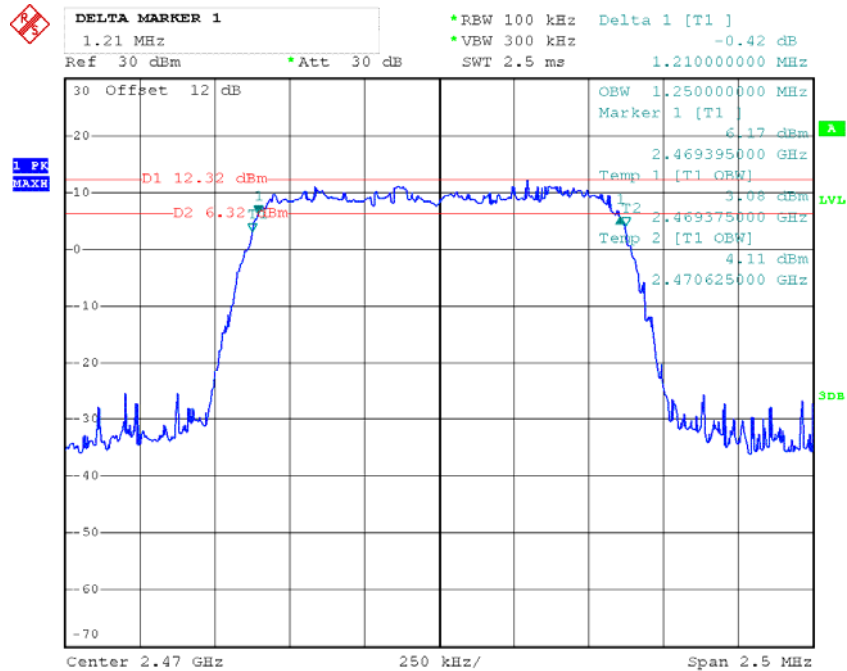
Date: 13.OCT.2015 18:51:00

Middle Channel



Date: 13.OCT.2015 18:49:57

High Channel



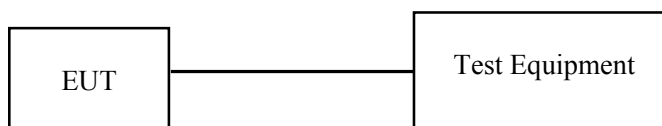
Date: 13.OCT.2015 18:48:52

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 v03r03, 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:	101.4 kPa

The testing was performed by Allen Qiao on 2015-10-14.

Test Mode: Transmitting

Channel	Frequency	Max Conducted Peak Output Power	Max Conducted Average Output Power	Limit	Result
	(MHz)	(dBm)	(dBm)	(dBm)	
Low	2404	24.82	12.14	30	Compliance
Middle	2436	23.17	10.89	30	Compliance
High	2470	22.02	10.92	30	Compliance

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	2015-05-09	2016-05-09

* **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:	43 %
ATM Pressure:	101.4 kPa

The testing was performed by Allen Qiao on 2015-10-13.

Test Result: *Compliance*

Band Edge, Left Side



Date: 13.OCT.2015 18:54:40

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	2015-05-09	2016-05-09

* **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:	43 %
ATM Pressure:	101.4 kPa

The testing was performed by Allen Qiao on 2015-10-13.

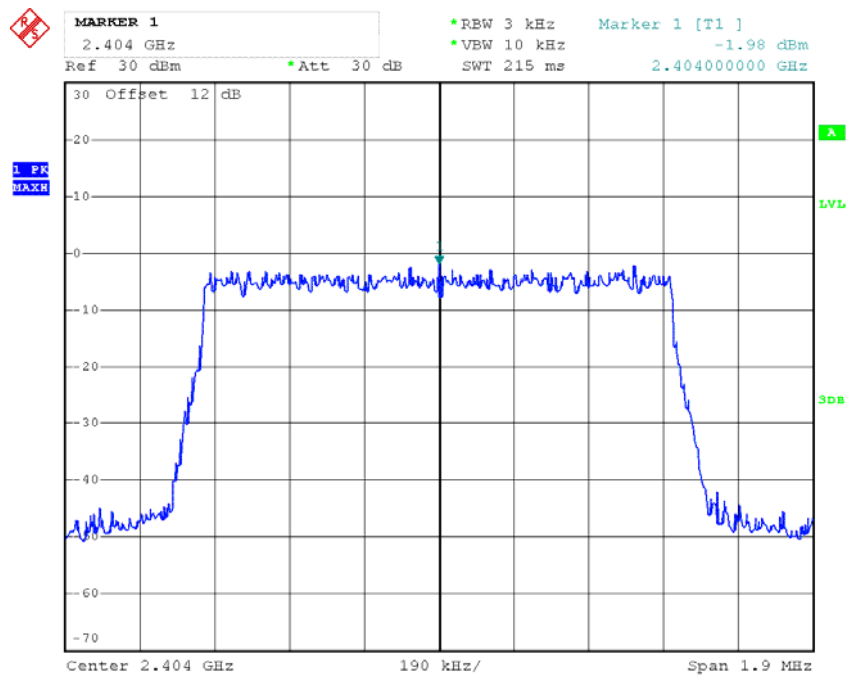
Test Mode: Transmitting

Test Result: Compliance*Test Mode: Transmitting*

Channel	Frequency	Power Spectral Density	Limits	Result
	MHz	dBm/MHz	dBm/3kHz	
Low	2404	-1.98	8	Compliance
Middle	2436	-3.17	8	Compliance
High	2470	-4.08	8	Compliance

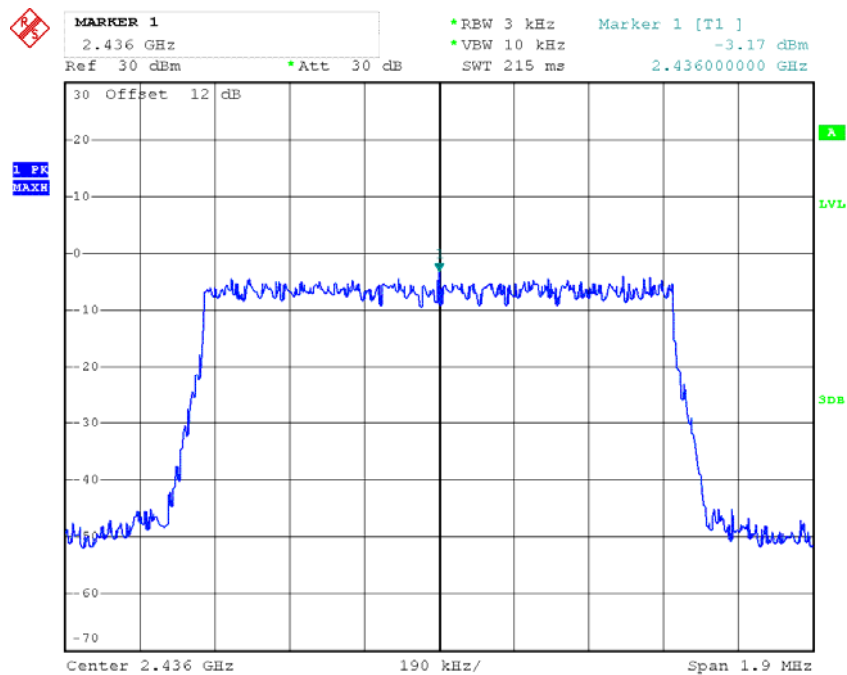
Please refer to the following plots

Power Spectral Density, Low Channel



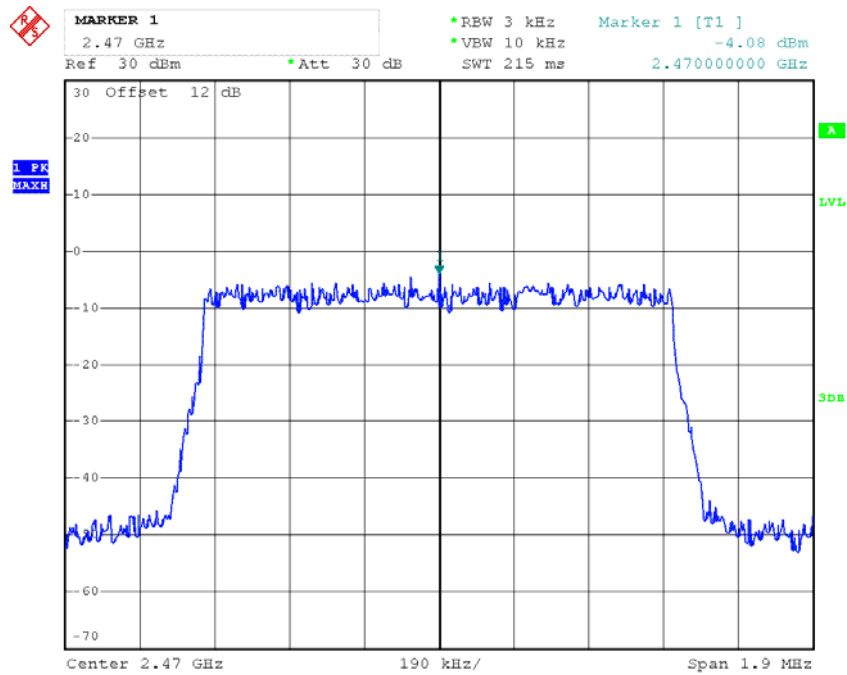
Date: 13.OCT.2015 19:33:09

Power Spectral Density, Middle Channel



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Power Spectral Density, High Channel



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