CMA Testing and Certification Laboratories
廠商會檢定中心

TEST REPORT

Report No.	:	AU0038614(0) Date : 30 Jun 2016
Application No.	:	LU020622(1)
Applicant	:	Zego Electronic Company Limited (Shenzhen Yangri Electronic Ltd) Room 703, Kowloon Building, 555 Nathan Road, Kowloon, HK
Sample Description	:	One(1) item of submitted sample stated to be Copter of Vektor of Model No. 6001431 Sample registration No. : RU023238-002 Radio Frequency : 2402MHz – 2475MHz Transceiver Rating : 3.7V rechargeable battery : USB 5V charging adaptor No. of submitted sample : Two (2) set (s)
Date Received	:	02 Jun 2016
Test Period	:	14 Jun 2016 to 16 Jun 2016
Test Requested	:	FCC Part 15 Permissive Change
Test Method	:	47 CFR Part 15 (10-1-15 Edition) ANSI C63.4 – 2014, ANSI C63.10 – 2013
Test Engineer	:	Mr. LEUNG Shu-kan, Ken
Test Result	:	See attached sheet(s) from page 2 to 36.
Conclusion	:	The submitted sample was found to comply with requirement of FCC Part 15 Subpart B and C.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____

Mr. WONG Lap-pong, Andrew
Manager
Electrical Division

FCC ID: 2ACS64RX

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1 General Information

1.1 General Description

The equipment under test (EUT) is a copter for Vektor Drone. The EUT is power by 3.7V rechargeable battery. It operates at 2402MHz – 2475MHz. When the receiver receives radio signal from transmitter, it will take the corresponding actions.

The brief circuit description is listed as follows:

- U1, U2	and its associated circuit act as MCU
- U3	and its associated circuit act as RF circuit
- Y1	and its associated circuit act as oscillator
- Q6	and its associated circuit act as LED
- M1, M2, M3, M4	and its associated circuit act as motor

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1.2 Location of the test site

FCC Registered Test Site Number: 552221

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 – 2013. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
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1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date	Calibration Period
EMI Test Receiver	R&S	ESCI	100152	27 Sep 2016	1Year
Spectrum Analyzer	R&S	FSV40	100628	09 Feb 2017	1Year
Broadband Antenna	Schaffner	CBL6112B	2718	15 Mar 2017	2Years
Loop Antenna	EMCO	6502	00056620	25 Jan 2018	2Years
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	24 Nov 2016	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	24 Nov 2016	2Years
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	02 Aug 2017	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	02 Aug 2017	2Years
Coaxial Cable	Schaffner	RG 213/U	N/A	18 May 2017	1Years
Coaxial Cable	Suhner	RG 214/U	N/A	18 May 2017	1Years
Coaxial Cable	Suhner	Sucoflex_104	N/A	13 Dec 2016	1Years
LISN	R&S	ENV216	101323	21 Oct 2016	1Year
Coaxial Cable	Tyco Electronics	RG 58C/U	N/A	01 Nov 2016	1Year

Support equipment:

Adaptor
Model: A1299

Supply by CMA

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1.4 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.

Radiated emissions

Frequency	Uncertainty (U_{lab})
30MHz ~ 200MHz (Horizontal)	4.83dB
30MHz ~ 200MHz (Vertical)	4.84dB
200MHz ~1000MHz (Horizontal)	4.87dB
200MHz ~1000MHz (Vertical)	5.94dB
1GHz ~6GHz	4.41dB
6GHz ~18GHz	4.64dB

Conducted emissions

Frequency	Uncertainty (U_{lab})
150kHz~30MHz	2.64dB

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2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

For 30MHz to 1GHz, broadband antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. And the reference point of antenna shall be 1 m above the ground.

For above 1GHz, horn antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. Preamplifier and High Pass filter was used for measurements. The reference point of antenna shall be 1 m above the ground.

The device was rotated through three orthogonal to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement.

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2.2 Test Result

Subpart C:
Peak Detector data were measured unless otherwise stated.

"#" means emissions appear within the restricted bands shall follow the requirement of section 15.205.

The Frequencies from fundamental up to tenth harmonics were investigated, and emissions more 20dB below limited were not reported. Thus, those higher emissions were presented in next page (section 2.3).

Subpart B:
Quasi-Peak Detector data were measured unless otherwise stated.

"#" means emissions appear within the restricted bands shall follow the requirement of section 15.205.

The emissions meet the requirement of section 15.109 are based on measurements employing the CISPR quasi-peak detector below 1000MHz and average detector for frequencies above 1000MHz.

The frequencies from 30MHz to 1000MHz were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next page (section 2.3).

It was found that the EUT meet the FCC requirement.

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2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	26	° C
Relative humidity:	75	%

Measurement: Peak RBW: 1MHz VBW: 3MHz Operation mode: Transmission
Testing frequency range: 9kHz to 25GHz

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBµV)	Transducer Factor (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
2401.676	H	80.0	- 4.2	75.8	114.0	- 38.2
#4803.805	V	47.2	3.7	50.9	74.0	- 23.1
7206.385	H	43.4	11.5	54.9	74.0	- 19.1
7206.464	V	45.3	11.5	56.8	74.0	- 17.2
2432.656	H	82.4	- 4.2	78.2	114.0	- 35.8
#4863.781	V	46.0	3.7	49.7	74.0	- 24.3
#7298.121	H	47.0	11.5	58.5	74.0	- 15.5
#7299.544	V	47.5	11.5	59.0	74.0	- 15.0
2474.652	H	78.2	- 4.3	73.9	114.0	- 40.1
#4948.166	V	45.4	4.0	49.4	74.0	- 24.6
#7423.936	V	47.5	11.5	59.0	74.0	- 15.0
#7424.015	H	46.8	11.5	58.3	74.0	- 15.7

Remark: Other emissions more than 20dB below the limit are not reported.

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2.3 Radiated Emission Measurement Data (Con't)

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	26	° C
Relative humidity:	75	%

Measurement: Average RBW: 1MHz VBW: 10Hz Operation mode: Transmission
Testing frequency range: 9kHz to 25GHz

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV)	Transducer Factor (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
2401.844	H	40.7	- 4.2	36.5	94.0	- 57.5
#4803.720	V	29.4	3.7	33.1	54.0	- 20.9
7205.056	H	24.1	11.5	35.6	54.0	- 18.4
7205.105	V	25.1	11.5	36.6	54.0	- 17.4
2432.878	H	41.2	- 4.2	37.0	94.0	- 57.0
#4863.861	V	28.7	3.7	32.4	54.0	- 21.6
#7298.155	V	26.1	11.5	37.6	54.0	- 16.4
#7298.221	H	25.8	11.5	37.3	54.0	- 16.7
2474.840	H	39.8	- 4.3	35.5	94.0	- 58.5
#4949.761	V	28.2	4.0	32.2	54.0	- 21.8
#7424.096	V	26.1	11.5	37.6	54.0	- 16.4
#7424.165	H	25.7	11.5	37.2	54.0	- 16.8

Remark: Other emissions more than 20dB below the limit are not reported.

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2.3 Radiated Emission Measurement Data (Con't)

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	26	° C
Relative humidity:	75	%

Detector: Quasi-peak
Mode; Transmission
RBW: 120kHz
VBW: 300kHz
Testing frequency range: 9kHz to 25GHz

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBµV)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
89.110	H	8.3	9.7	18.0	43.5	- 25.5
122.980	H	8.2	14.4	22.6	43.5	- 20.9
161.340	H	8.1	11.9	20.0	43.5	- 23.5
189.510	H	8.9	11.2	20.1	43.5	- 23.4
222.180	H	8.6	11.8	20.4	46.0	- 25.6
279.120	H	8.9	15.4	24.3	46.0	- 21.7
313.920	H	8.3	16.8	25.1	46.0	- 20.9

Remark: Other emissions more than 20dB below the limit are not reported.

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2.3 Radiated Emission Measurement Data (Con't)

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart B

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	26	° C
Relative humidity:	75	%

Detector: Quasi-peak
Mode: Receiving
RBW: 120kHz
VBW: 300kHz
Testing frequency range: 9kHz to 25GHz

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBµV)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
111.590	H	9.7	12.2	21.9	43.5	- 21.6
136.760	H	8.1	14.4	22.5	43.5	- 21.0
162.840	H	8.1	11.9	20.0	43.5	- 23.5
202.700	H	8.4	12.0	20.4	43.5	- 23.1
236.560	H	8.7	13.2	21.9	46.0	- 24.1
294.710	H	9.2	15.4	24.6	46.0	- 21.4
335.160	H	9.2	16.8	26.0	46.0	- 20.0

Remark: Other emissions more than 20dB below the limit are not reported.

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2.3 Radiated Emission Measurement Data (Con't)

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart B

Environmental conditions:

Parameter	Recorded value	
Ambient temperature:	26	° C
Relative humidity:	75	%

Detector: Quasi-peak
Mode; Charging
RBW: 120kHz
VBW: 300kHz
Testing frequency range: 9kHz to 25GHz

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBµV)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
60.040	H	7.8	7.6	15.4	40.0	- 24.6
99.300	H	10.0	10.1	20.1	43.5	- 23.4
147.850	H	7.5	14.1	21.6	43.5	- 21.9
206.590	H	8.2	12.0	20.2	43.5	- 23.3
244.660	H	9.9	13.2	23.1	46.0	- 22.9
286.010	H	9.0	15.4	24.4	46.0	- 21.6
342.660	H	9.6	16.8	26.4	46.0	- 19.6

Remark: Other emissions more than 20dB below the limit are not reported.

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3 Description of the Line-conducted Test

3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 – 2013. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The EUT connected to an adaptor for charging.

It was found that the EUT met the FCC requirement.

3.3 Graph and Table of Conducted Emission Measurement Data

The plots in Appendices A6 show the graph and data of conducted emission.

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4 Photograph

4.1 Photographs of the Test Setup for Radiated Emission and Conducted Emission

For electronic filing, the photos are saved with filename 2ACS64RX TSup.pdf.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename 2ACS64RX ExPho.pdf and 2ACS64RX InPho.pdf.

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5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename
ID Label/Location	LabelSmp.jpg
Block Diagram	BlkDia.pdf
Schematic Diagram	Schem.pdf
Users Manual	UserMan.pdf
Operational Description	OpDes.pdf

5.1 Bandwidth

The plot in Appendices A8 shows the fundamental emission is confined in the specified band. It shows the 20dB bandwidth met the 15.215 requirement for frequency band 2400 to 2483.5 MHz. .

The plot in Appendices A7 shows the band edge is fulfil 15.209 requirement.

5.2 Antenna requirement

Appendices A4 shows the antenna is permanently attached and cannot be changed. Therefore it fulfils the section 15.203 requirement.

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6 Appendices

A1	Photos of the set-up of Radiated Emissions	4	pages
A2	Photos of the set-up of Conducted Emissions	2	pages
A3	Photos of External Configurations	4	pages
A4	Photos of Internal Configurations	2	pages
A5	ID Label/Location	1	page
A6	Conducted Emission Measurement Data	2	pages
A7	Band Edge	2	pages
A8	20dB Bandwidth Plot	2	pages

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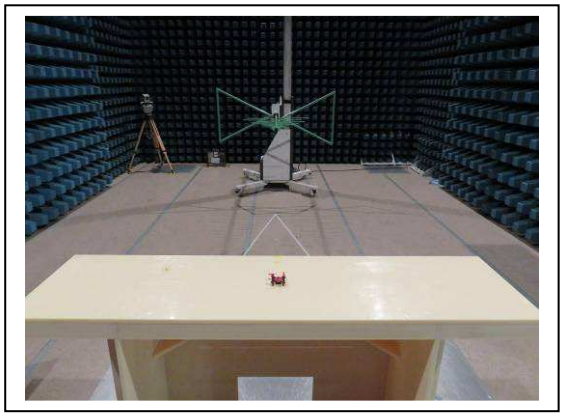
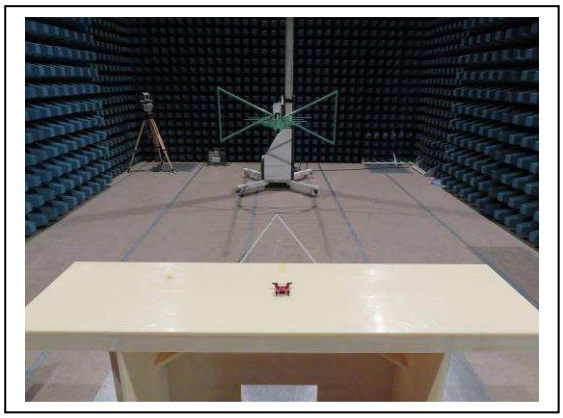
A1. Photos of the set-up of Radiated Emissions



(Front view, 30MHz – 1GHz)



(Back view, 30MHz – 1GHz)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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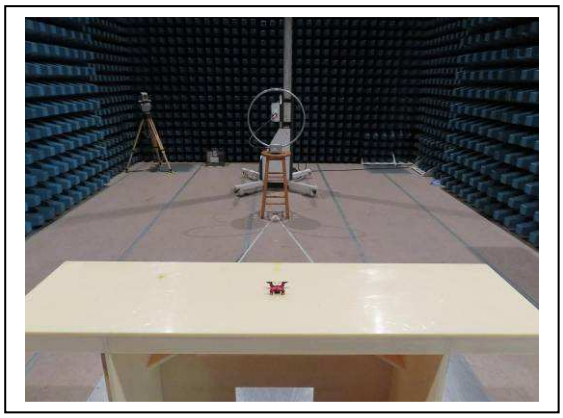
A1. Photos of the set-up of Radiated Emissions

(Front view, 9KHz – 30MHz)



(Back view, 9KHz – 30MHz)

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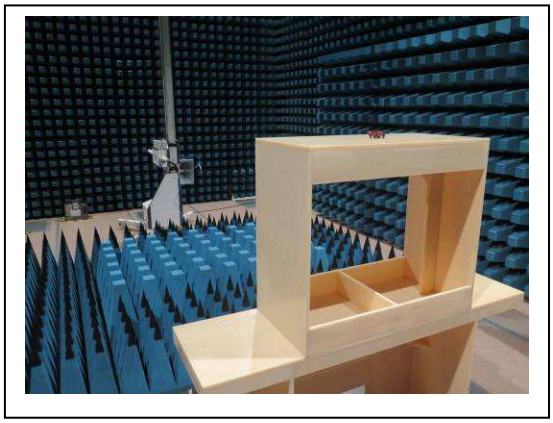
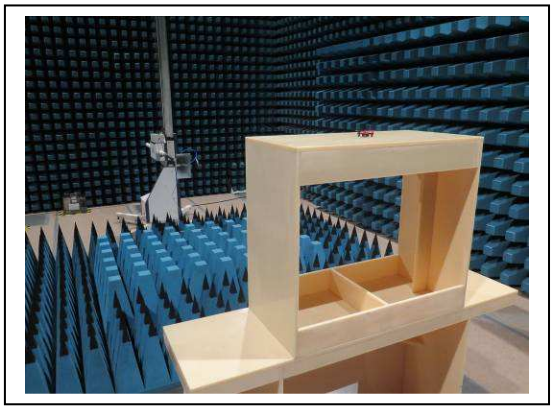
A1. Photos of the set-up of Radiated Emissions



(front view, 1GHz – 25GHz)



(rear view, 1GHz – 25GHz)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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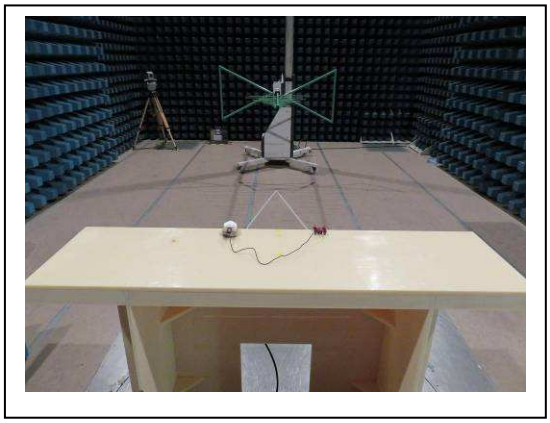
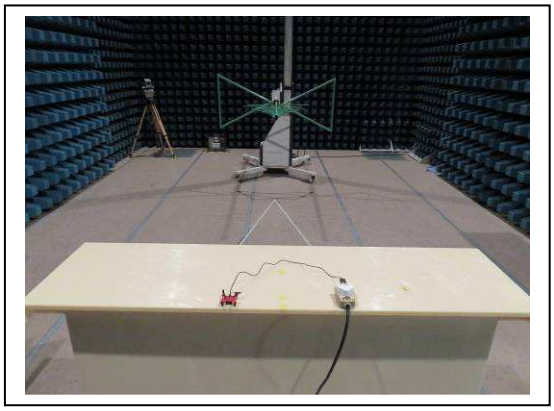
A1. Photos of the set-up of Radiated Emissions



(front view, charging)



(rear view, charging)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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A2 Photos of the set-up of Conducted Emission

(front view)

(rear view)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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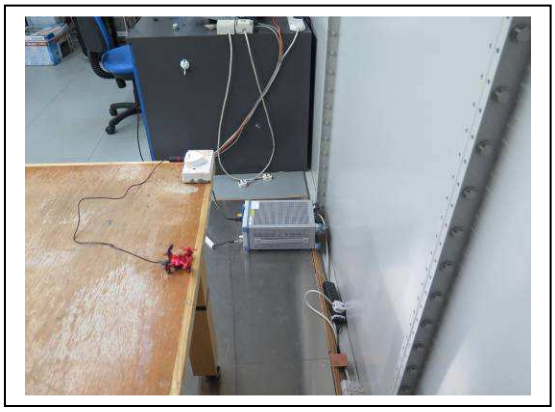
A2 Photos of the set-up of Conducted Emission



(side view)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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A3. Photos of External Configuration

External Configuration 1

External Configuration 2

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

TEST REPORT

Report No. : AU0038614(0) Date : 30 Jun 2016

A3. Photos of External Configuration

External Configuration 3

External Configuration 4

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

A3. Photos of External Configuration

External Configuration 5

External Configuration 6

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

TEST REPORT

Report No. : AU0038614(0) Date : 30 Jun 2016

A3. Photos of External Configuration

External Configuration 7

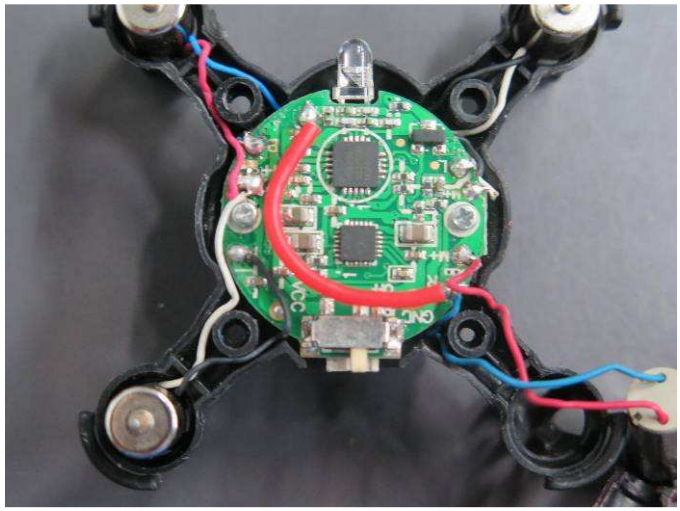
Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

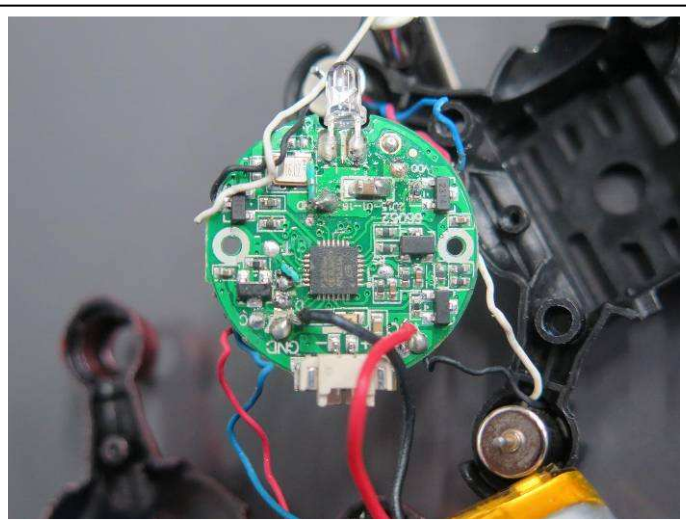
TEST REPORT

Report No. : AU0038614(0) Date : 30 Jun 2016

A4. Photos of Internal Configuration



Internal Configuration 1



Internal Configuration 2

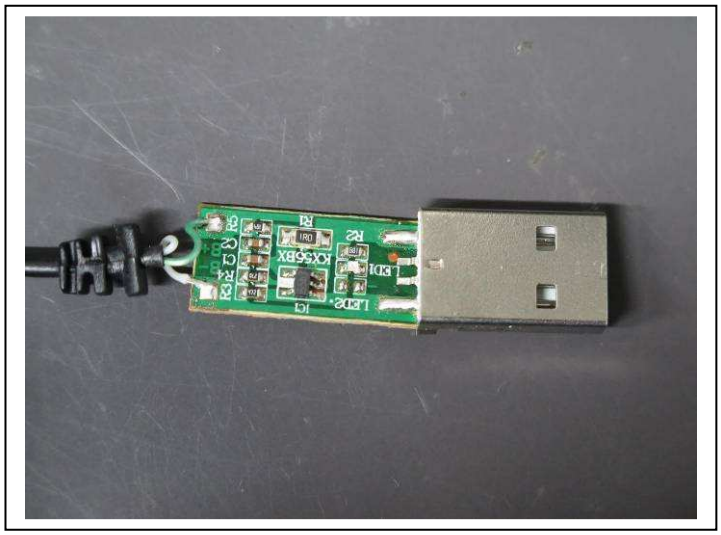
Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

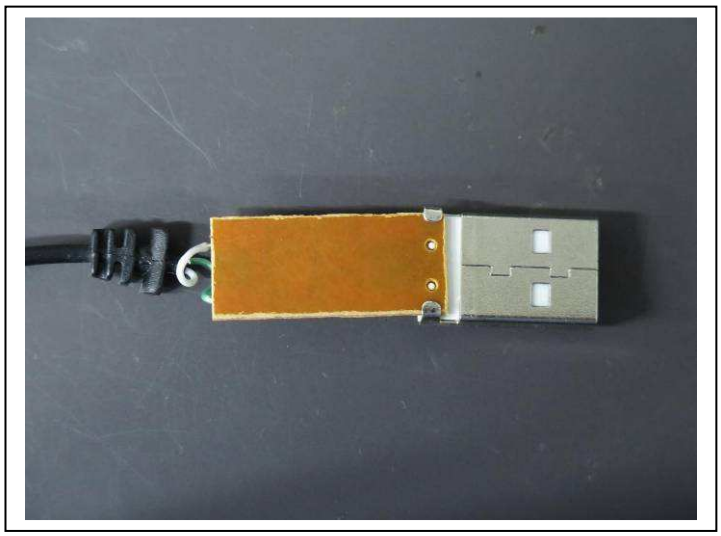
TEST REPORT

Report No. : AU0038614(0) Date : 30 Jun 2016

A4. Photos of Internal Configuration



Internal Configuration 3



Internal Configuration 4

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

TEST REPORT

Report No. : AU0038614(0) Date : 30 Jun 2016

A5. ID Label/Location

Label 1

Label 2

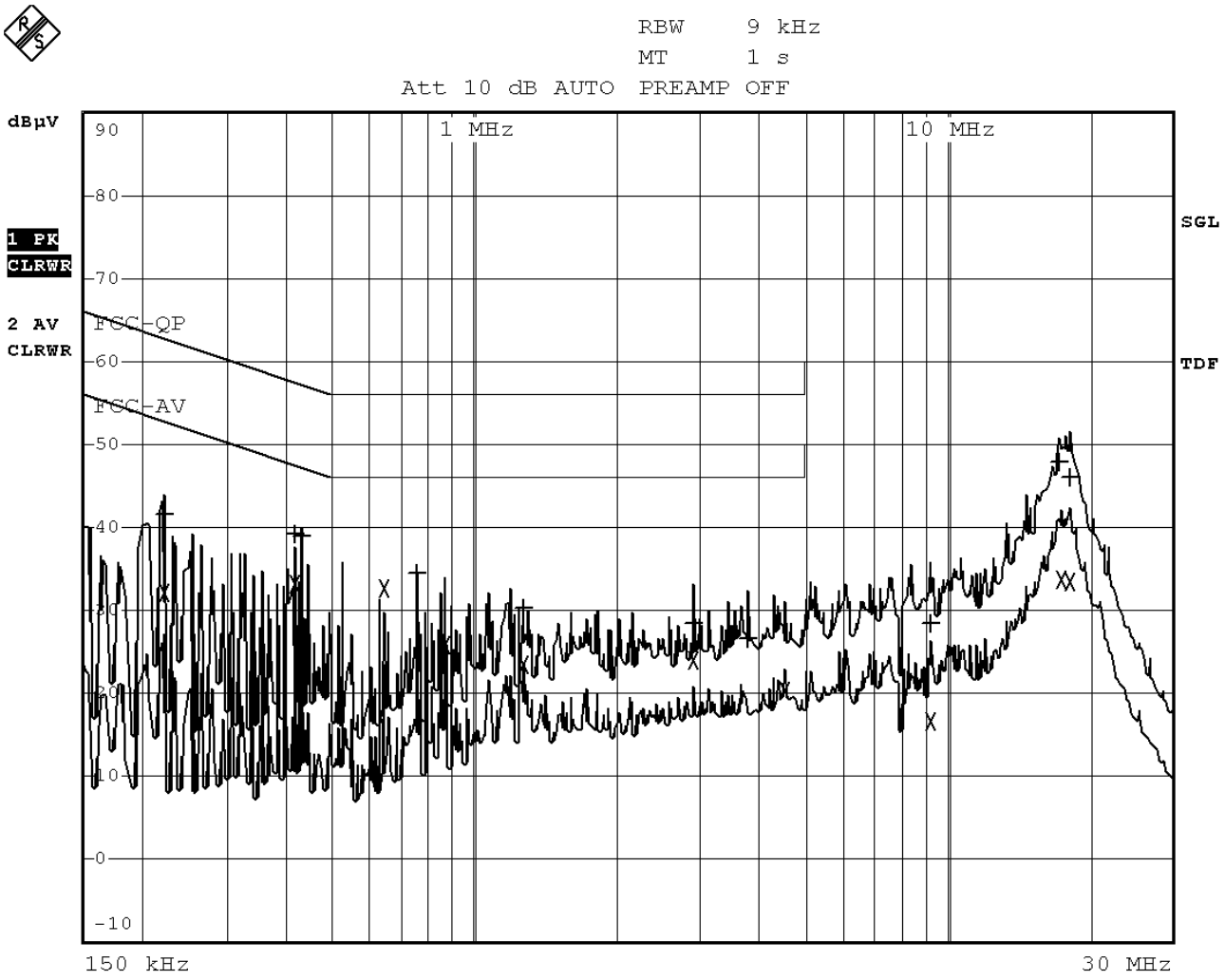
Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

TEST REPORT

Report No. : AU0038614(0) Date : 30 Jun 2016

A6 Conducted Emission Measurement Date



Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

FCC ID: 2ACS64RX

TEST REPORT

Report No. : AU0038614(0) Date : 30 Jun 2016

A6 Conducted Emission Measurement Date

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC-QP		
Trace2:	FCC-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	222 kHz	41.67 L1 gnd	-21.07
2 Average	222 kHz	32.11 N gnd	-20.63
1 Quasi Peak	420 kHz	39.13 N gnd	-18.31
2 Average	420 kHz	33.22 N gnd	-14.22
1 Quasi Peak	433.5 kHz	39.07 N gnd	-18.10
2 Average	644 kHz	32.65 N gnd	-13.34
1 Quasi Peak	756.5 kHz	34.41 N gnd	-21.58
2 Average	864.5 kHz	25.85 N gnd	-20.15
1 Quasi Peak	1.274 MHz	30.36 N gnd	-25.63
2 Average	1.274 MHz	23.53 N gnd	-22.46
1 Quasi Peak	2.912 MHz	28.57 N gnd	-27.42
2 Average	2.912 MHz	23.96 N gnd	-22.04
1 Quasi Peak	3.776 MHz	26.55 N gnd	-29.44
2 Average	4.532 MHz	20.31 N gnd	-25.68
1 Quasi Peak	9.284 MHz	28.39 N gnd	-31.60
2 Average	9.284 MHz	16.75 L1 gnd	-33.24
1 Quasi Peak	17.348 MHz	47.98 N gnd	-12.01
2 Average	17.4785 MHz	33.59 N gnd	-16.40
1 Quasi Peak	18.2345 MHz	46.01 N gnd	-13.98
2 Average	18.2345 MHz	33.53 N gnd	-16.46

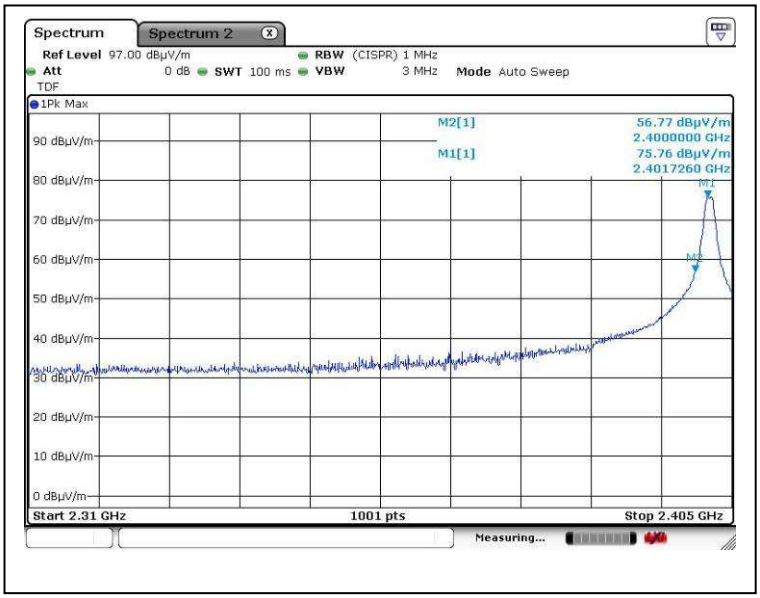
Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

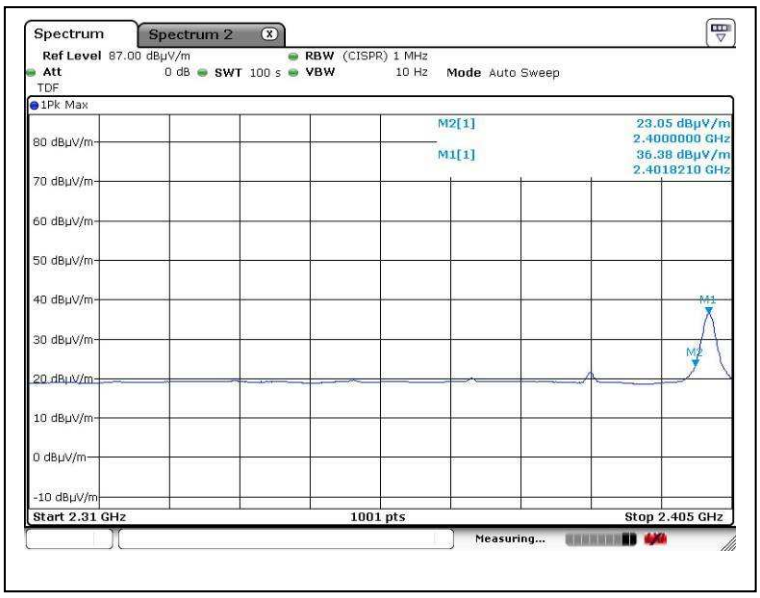
TEST REPORT

Report No. : AU0038614(0) Date : 30 Jun 2016

A7. Band Edge



Lower edge (Peak measurement)



Lower edge (Average measurement)

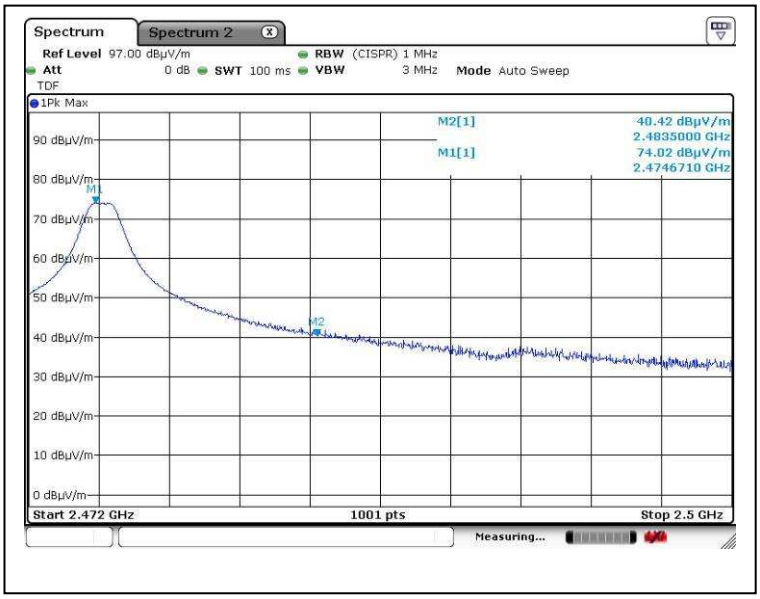
Tested by: Reviewed by:

Mr. LEUNG Shu-kan, Ken Mr. WONG Lap-pong, Andrew

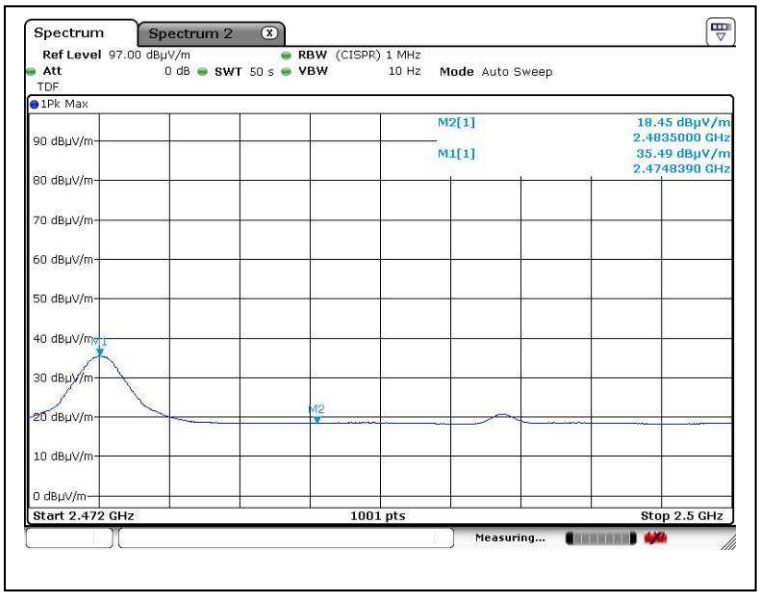
TEST REPORT

Report No. : AU0038614(0) Date : 30 Jun 2016

A7. Band Edge



Upper edge (Peak measurement)



Upper edge (Average measurement))

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TEST REPORT

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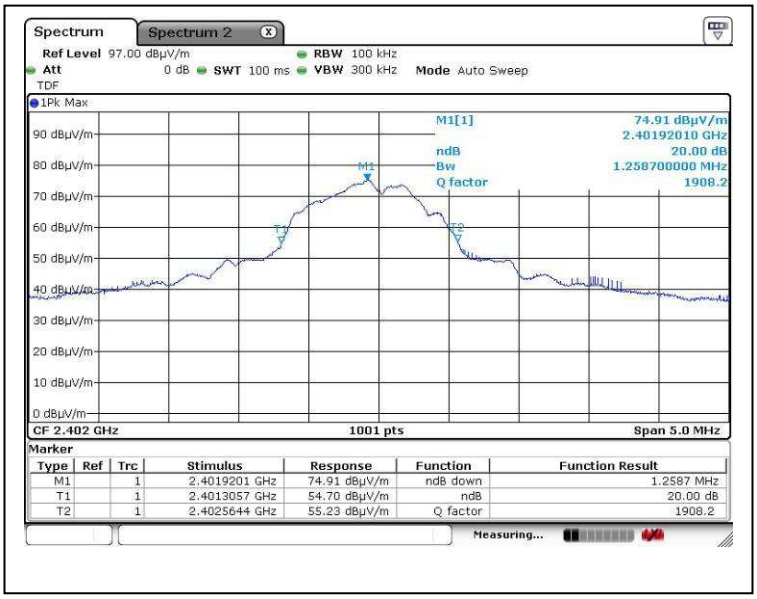
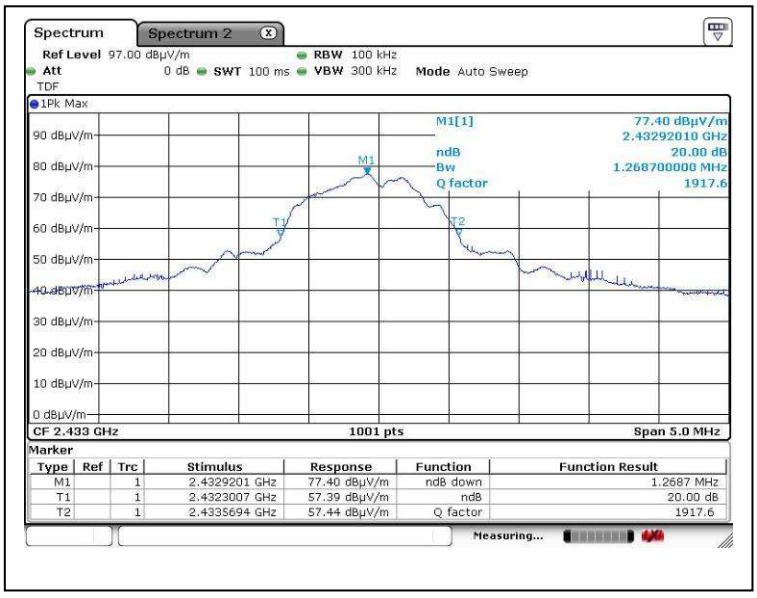
A8. 20dB Bandwidth Plot



Bandwidth 1 (2402MHz)



Bandwidth 2 (2433MHz)

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TEST REPORT

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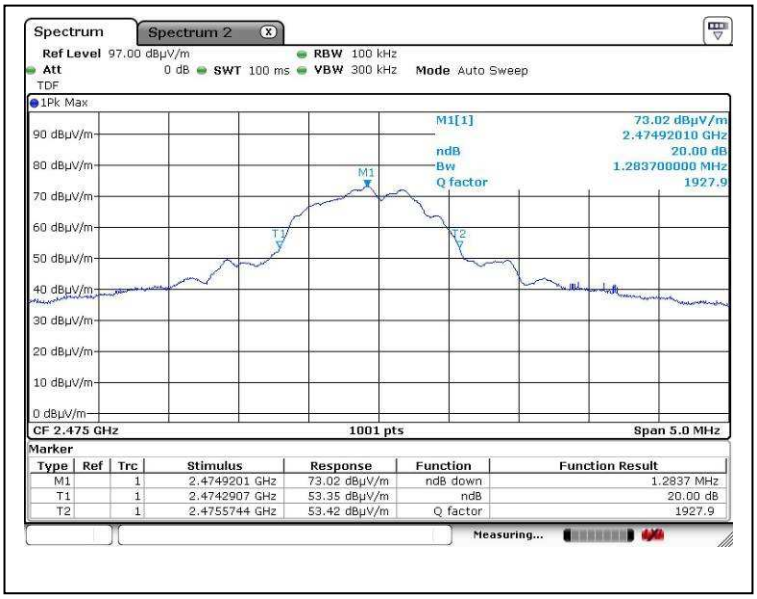
A8. 20dB Bandwidth Plot



Bandwidth 3 (2475MHz)

***** End of Report *****

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

FCC ID: 2ACS64RX

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