CMA Testing and Certification Laboratories
廠商會檢定中心

TEST REPORT

Report No.	:	AS0047564(4) Date : 18 Aug 2014
Application No.	:	LS025878(8)
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 Receiver of Surveyor Drone of Model No. 6001145 Sample registration No. : RS031557-001 Radio Frequency : 2402MHz – 2475 MHz Transceiver Rating : 3.7V rechargeable battery No. of submitted sample : Eight (8) set (s)
Date Received	:	25 Jul 2014, 15 Aug 2014
Test Period	:	25 Jul 2014 to 15 Aug 2014.
Test Requested	:	FCC Part 15 Certificate
Test Method	:	47 CFR Part 15 (10-1-12 Edition) ANSI C63.4 – 2009
Test Engineer	:	Mr. LEUNG Shu-kan, Ken
Test Result	:	See attached sheet(s) from page 2 to 29.
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: 2ACS62RX

CMA Industrial Development Foundation Limited
Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.
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1 General Information

1.1 General Description

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

The brief circuit description is listed as follows:

- U5 and its associated circuit act as MCU
- U4 and its associated circuit act as RF circuit
- Y1 and its associated circuit act as oscillator
- Q1, Q2, Q3 and its associated circuit act as LED
- M1, M2, M4, 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 C63.4 – 2009. 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 C63.4 – 2009. 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	ESCS30	100001	21 Nov 2014	1Year
Spectrum Analyzer	R&S	FSV40	100964	17 Dec 2014	1Year
Broadband Antenna	Schaffner	CBL6112B	2718	06 Jan 2015	1Year
Loop Antenna	EMCO	6502	00056620	28 Oct 2015	1Year
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	09 Oct 2014	1Year
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	17 Jun 2015	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	09 Oct 2014	1Year
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	17 Jun 2015	2Years
LISN	R&S	ENV216	101232	21 Oct 2014	1Year
Coaxial Cable	Schaffner	RG 213/U	N/A	06 Jan 2015	1Year
Coaxial Cable	Suhner	RG 214/U	N/A	06 Jan 2015	1Year
Coaxial Cable	Suhner	Sucoflex_102	N/A	09 Oct 2014	1Year
Coaxial Cable	Tyco Electronics	RG58C/U	N/A	21 Oct 2014	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)	4.63dB
30MHz ~ 200MHz (Vertical)	4.65dB
200MHz ~1000MHz (Horizontal)	4.45dB
200MHz ~1000MHz (Vertical)	4.41dB

Conducted emissions

Frequency	Uncertainty (U_{lab})
150kHz~30MHz	2.47dB

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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 C63.4 – 2009.

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

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 that tenth harmonics 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:	27	° C
Relative humidity:	65	%

Detector: Peak RBW: 1MHz VBW: 3MHz
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)
2401.888	V	84.9	- 6.3	78.6	114.0	- 35.4
#4803.678	V	61.2	2.4	63.6	74.0	- 10.4
#4803.765	H	61.0	2.4	63.4	74.0	- 10.6
7205.490	V	52.0	10.8	62.8	74.0	- 11.2
2432.887	H	92.4	- 6.3	86.1	114.0	- 27.9
#4865.752	H	62.5	2.4	64.9	74.0	- 9.1
#4865.765	V	62.2	2.4	64.6	74.0	- 9.4
#7298.785	H	47.8	10.8	58.6	74.0	- 15.4
2474.869	H	84.8	- 6.3	78.5	114.0	- 35.5
#4949.736	V	59.8	2.4	62.2	74.0	- 11.8
#4949.798	H	58.4	2.4	60.8	74.0	- 13.2
#7424.652	H	41.9	10.8	52.7	74.0	- 21.3

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:	27	° C
Relative humidity:	65	%

Detector: Average RBW: 1MHz VBW: 10Hz
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)
2401.877	V	84.9	- 6.3	78.6	94.0	- 15.4
4803.764	V	48.7	2.4	51.1	54.0	- 2.9
4803.765	H	48.6	2.4	51.0	54.0	- 3.0
7205.648	V	40.9	10.8	51.7	54.0	- 2.3
2432.884	H	92.4	- 6.3	86.1	94.0	- 7.9
4865.772	V	49.7	2.4	52.1	54.0	- 1.9
4865.774	H	50.0	2.4	52.4	54.0	- 1.6
7298.659	H	36.2	10.8	47.0	54.0	- 7.0
2474.905	H	84.6	- 6.3	78.3	94.0	- 15.7
4949.765	V	49.3	2.4	51.7	54.0	- 2.3
4949.767	H	47.8	2.4	50.2	54.0	- 3.8
7424.652	H	38.7	10.8	49.5	54.0	- 4.5

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:	25	° C
Relative humidity:	50	%

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)
121.910	H	9.3	14.4	23.7	43.5	- 19.8
222.795	H	10.0	11.8	21.8	46.0	- 24.2
314.304	H	9.4	16.8	26.2	46.0	- 19.8
415.308	H	9.1	20.6	29.7	46.0	- 16.3
505.180	H	9.4	22.2	31.6	46.0	- 14.4
590.817	H	10.3	22.2	32.5	46.0	- 13.5
682.003	H	10.6	22.8	33.4	46.0	- 12.6

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:	25	° C
Relative humidity:	50	%

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)
129.020	H	9.4	14.4	23.8	43.5	- 19.7
192.115	H	10.1	11.2	21.3	43.5	- 22.2
298.817	H	10.4	15.4	25.8	46.0	- 20.2
419.500	H	9.2	20.6	29.8	46.0	- 16.2
521.980	H	9.5	22.2	31.7	46.0	- 14.3
630.108	H	10.1	22.8	32.9	46.0	- 13.1
712.899	H	10.3	23.5	33.8	46.0	- 12.2

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 C63.4 – 2009. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The EUT is connected to adaptor.

It was found that the EUT met the FCC requirement.

3.3 Graph and Table of Conducted Emission Measurement Data

For electronic filling, the document is saved with filename TestRpt2.pdf.

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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 TSup1.jpg to TSup9.jpg.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename ExPho1.jpg to ExPho2.jpg and InPho1.jpg to InPho2.jpg.

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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 saved in TestRpt3.pdf 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.

5.2 Duty cycle

Not Applicable

5.3 Transmission time

Not Applicable

5.4 Power Spectral Density

Not Applicable

5.5 Average on time

Not Applicable

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6 Appendices

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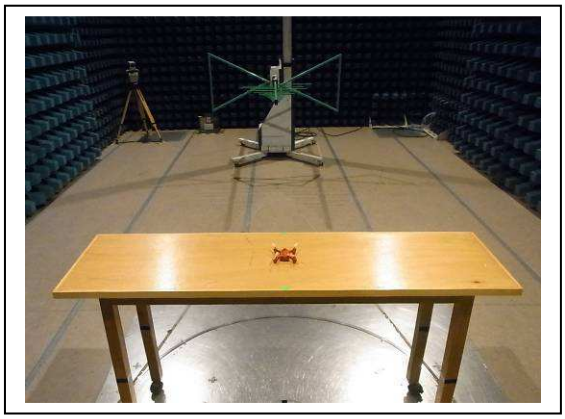
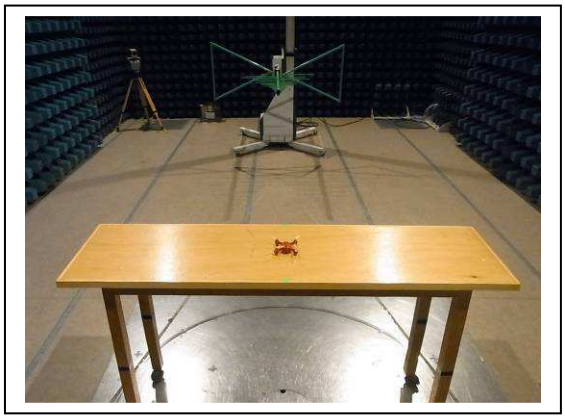
A1. Photos of the set-up of Radiated Emissions



(Front view, 30MHz – 1GHz)



(Back view, 30MHz – 1GHz)

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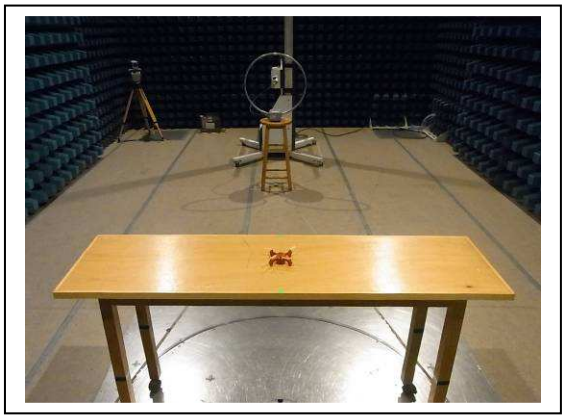
A1. Photos of the set-up of Radiated Emissions

(Front view, 9KHz – 30MHz)



(Back view, 9KHz – 30MHz)

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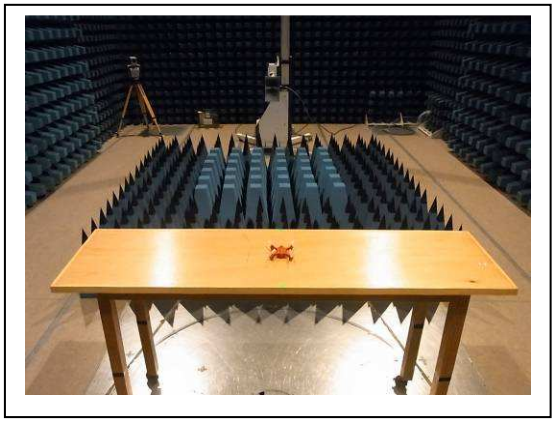
A1. Photos of the set-up of Radiated Emissions



(front view, 1GHz – 25GHz)

(rear view, 1GHz – 25GHz)

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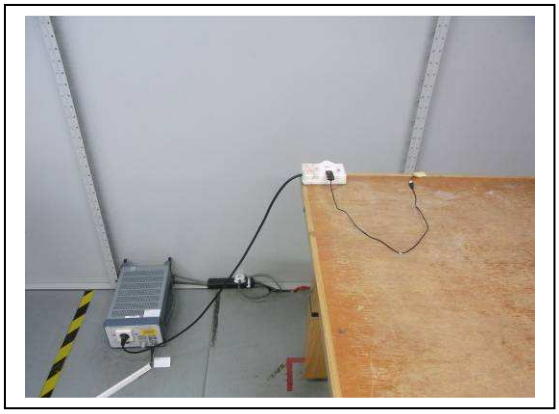
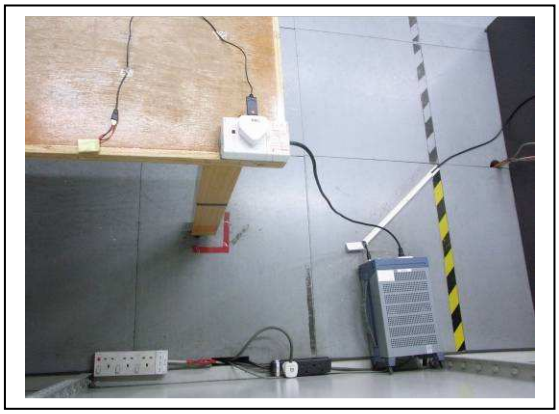
A2 Photos of the set-up of Conducted Emission



(front view)



(rear view)

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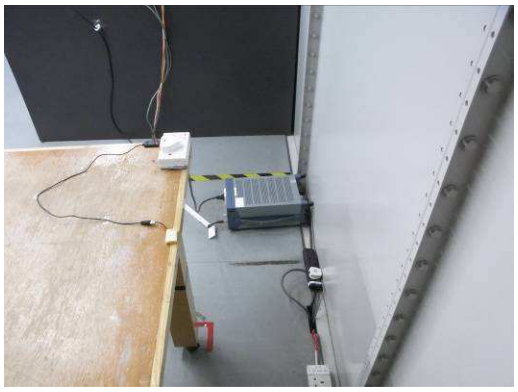
A2 Photos of the set-up of Conducted Emission



(side view)

Tested by: Mr. LEUNG Shu-kan, Ken

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A3. Photos of External Configuration

External Configuration 1

External Configuration 2

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A3. Photos of External Configuration

External Configuration 3

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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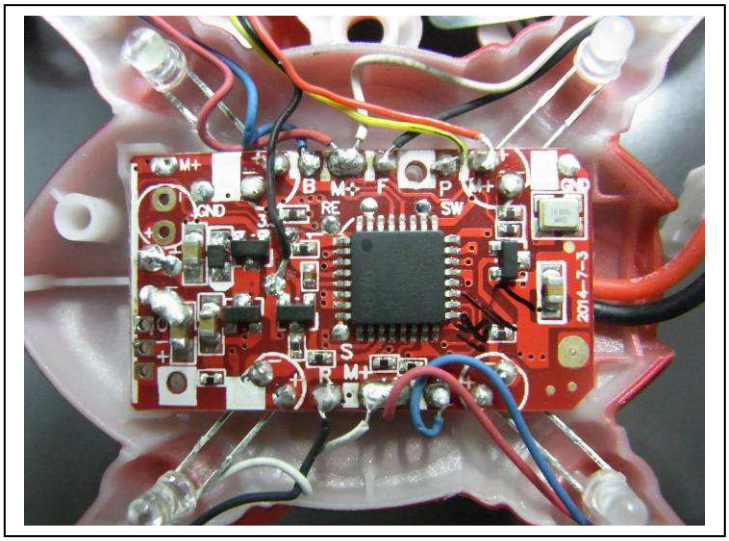
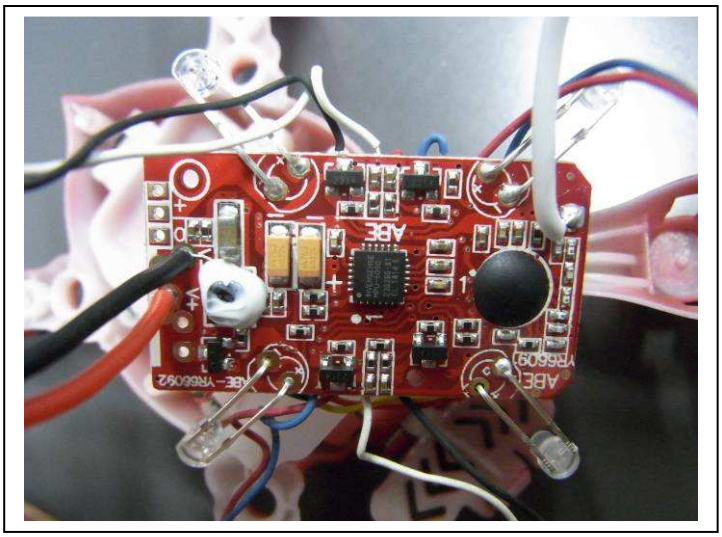
A4. Photos of Internal Configuration



Internal Configuration 1



Internal Configuration 2

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

FCC ID: 2ACS62RX

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TEST REPORT

Report No. : AS0047564(4) Date : 18 Aug 2014

A5. ID Label/Location

Label 1

Label 2

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A6 Conducted Emission Measurement Date

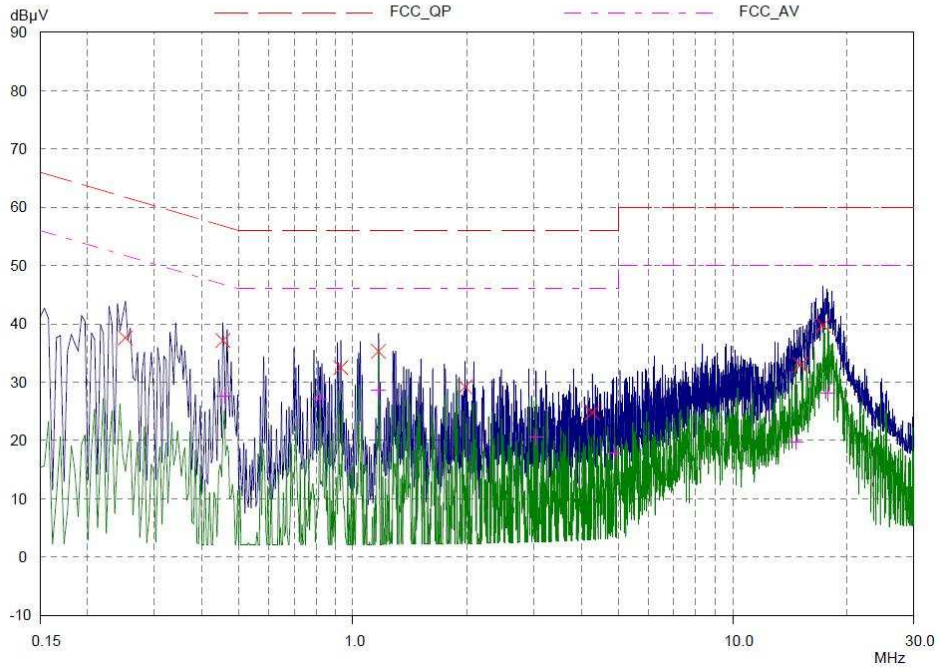
Scan Settings (2 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	500kHz	3.9063kHz	9kHz	PK+AV	5msec	10 dB	OFF	60dB
500kHz	30MHz	3.9063kHz	9kHz	PK+AV	2msec	10 dB	OFF	60dB

Transducer	No.	Start	Stop	Name
	12	9kHz	30MHz	EL228

Final Measurement:

Detectors:	X QP / + AV
Meas Time:	1sec
Subranges:	8
Acc Margin:	25 dB



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A6 Conducted Emission Measurement Date

Scan Settings (2 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	500kHz	3.9063kHz	9kHz	PK+AV	5msec	10 dB	OFF	60dB
500kHz	30MHz	3.9063kHz	9kHz	PK+AV	2msec	10 dB	OFF	60dB

Transducer	No.	Start	Stop	Name
	12	9kHz	30MHz	EL228

Final Measurement: Detectors: X QP / + AV
Meas Time: 1sec
Subranges: 8
Acc Margin: 25 dB

Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.25156	37.58	61.71	24.13	N	gnd
0.45468	37.14	56.79	19.65	N	gnd
0.92968	32.47	56.00	23.53	N	gnd
1.16796	35.27	56.00	20.73	N	gnd
1.97265	29.18	56.00	26.82	N	gnd
4.26953	24.74	56.00	31.26	L1	gnd
15.08984	32.93	60.00	27.07	N	gnd
17.29687	39.76	60.00	20.24	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.45859	27.66	46.72	19.06	N	gnd
0.8164	27.09	46.00	18.91	N	gnd
1.16796	28.66	46.00	17.34	N	gnd
3.04296	20.51	46.00	25.49	N	gnd
4.89062	17.79	46.00	28.21	N	gnd
14.62109	19.75	50.00	30.25	L1	gnd
17.82421	28.06	50.00	21.94	N	gnd

* limit exceeded

Indicated Phase/PE shows Configuration of max. Emission

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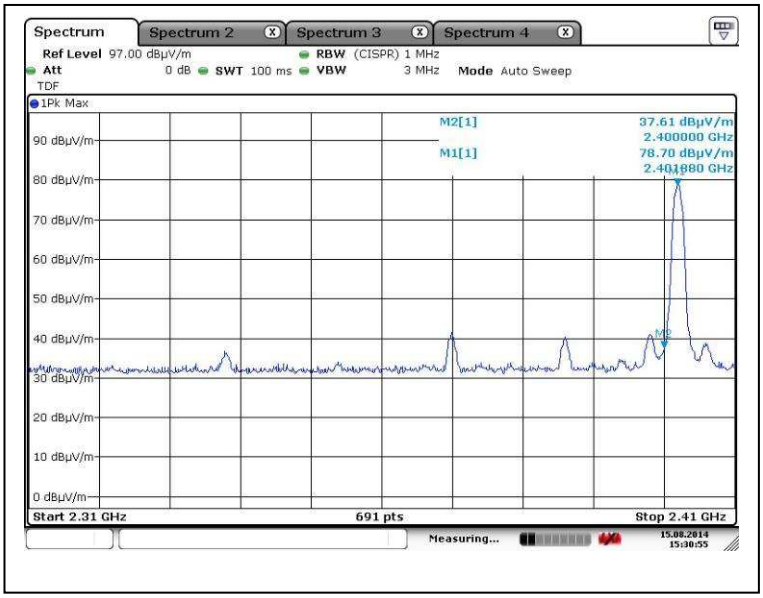
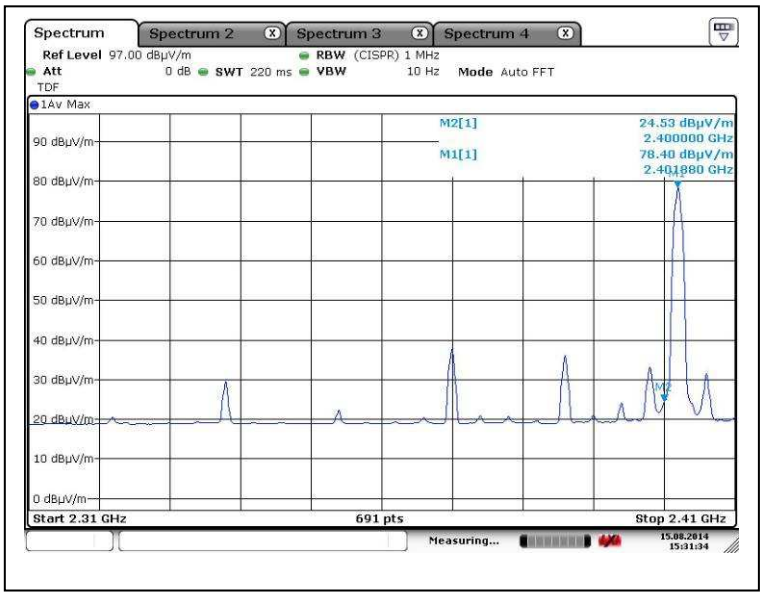
A7. Band Edge



Lower edge (Peak measurement)



Lower edge (Average measurement)

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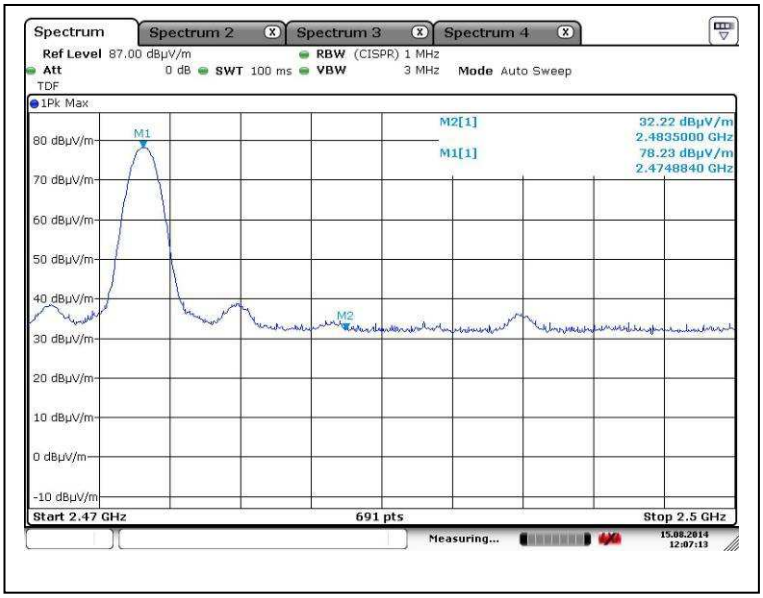
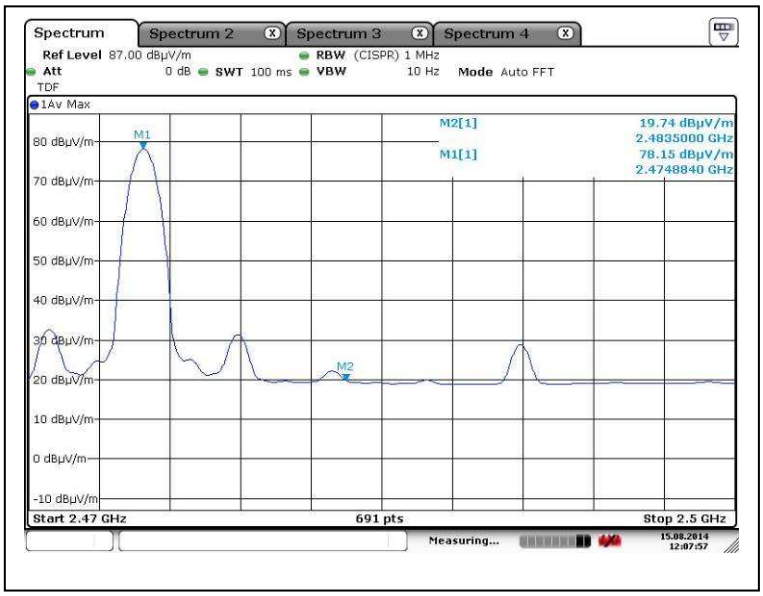
A7. Band Edge



Upper edge (Peak measurement)



Upper edge (Average measurement)

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

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Reviewed by: Mr. WONG Lap-pong, Andrew

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