

# CENTRE OF TESTING SERVICE INTERNATIONAL

**OPERATE ACCORDING TO ISO/IEC 17025** 

# FCC ID/IC TEST REPORT

TEST REPORT NUMBER: CGZ3130402-00239-EFI



CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.





# TEST REPORT For FCC ID/IC FCC Part 15:2012.

RSS-210 ISSUE 8, RSS-Gen ISSUE 3		
Report Reference No	. CGZ3130402-00239-EFI	
Date of issue	. 19 April 2013	
Testing Laboratory Name	. CENTRE OF TESTING SERVICE CO., LTD.	
Address	Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.	
Testing location/ procedure	. Full application of Harmonised standards ■	
	Partial application of Harmonised standards $\square$	
	Other standard testing method $\square$	
Applicant's name	BELLMATE HOLDINGS LTD.	
Address	. UNIT206, STERLING CENTRE.11 CHEUNG YUE STREET, CHEUNG SHA WAN, KOWLOON HONG KONG.	
Test specification		
Standard	RSS-210 ISSUE 8 RSS-Gen ISSUE 3	
	FCC Part 15:2012	
Test Report Form No	. CTSEMC-1.0	
TRF Originator	. CENTRE OF TESTING SERVICE CO., LTD	
Master TRF	. Dated 2009-01	
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Test item description...... Wireless controller

Trade Mark..... PRO 1

Manufacturer..... BELLMATE HOLDINGS LTD.

Ratings...... Battery 1.5V\*2 for Z955W; Battery 1.5V\*2 for RZ251W;

AC 24V for ZDA250W; Battery 1.5V\*2 for RZ250W;

AC 18~30V for Z270W; AC 18~30V for Z260W

Operating Frequency ...... 916.0 MHz/ FSK

Result ..... Positive

Compiled by:

Supervised by:

Approved by:

Kate zhang / File administrators

Duke yang / Technique principal

Vincent yao / Manager

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# FCC ID/IC -- TEST REPORT

**Test Report No. : CGZ3130402-00239-EFI** <u>19 April 2013</u> Date of issue

Type / Model	Z955W / RZ251W / ZDA250W / RZ250W / Z270W / Z260W
EUT	Wireless controller
Applicant	BELLMATE HOLDINGS LTD.
Address	UNIT206, STERLING CENTRE.11 CHEUNG YUE STREET, CHEUNG SHA WAN, KOWLOON HONG KONG.
Telephone	+852-27850364
Fax	+852-29646390
Contact	Mr.zhao
Manufacturer	BELLMATE HOLDINGS LTD.
Address	UNIT206, STERLING CENTRE.11 CHEUNG YUE STREET, CHEUNG SHA WAN, KOWLOON HONG KONG.
Telephone	+852-27850364
Fax	+852-29646390
Contact	Mr.zhao
Factory	BELLMATE HOLDINGS LTD.
Address	UNIT206, STERLING CENTRE.11 CHEUNG YUE STREET, CHEUNG SHA WAN, KOWLOON HONG KONG.
Telephone	+852-27850364
Fax	+852-29646390
Contact	Mr.zhao

Test Result according to the standards on page 1: PASSED

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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#### 1. TEST STANDARDS

The tests were performed according to following standards:

- RSS-210 ISSUE 8
- RSS-Gen ISSUE 3
- FCC Part 15:2012
- ANSI C63.4-2009

#### 2. SUMMARY

#### 2.1 GENERAL REMARKS

Date of receipt of test sample	02 April 2013
Testing commenced on	02~11 April 2013
Testing concluded on	19 April 2013

#### 2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- fulfilled.
- $\Box$ - not fulfilled.

The equipment under test

- fulfils the IC requirements cited on page 1.
- П - does not fulfil the IC requirements cited on page 1.

#### 3. EQUIPMENT UNDER TEST

# 3.1 Power supply system utilised

Battery 1.5V\*2 for Z955W; Battery 1.5V\*2 for RZ251W ;AC 24V for ZDA250W ; Battery 1.5V\*2 for RZ250W ;AC 18~30V for Z270W ; AC 18~30V for Z260W Power supply voltage

# 3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

#### 3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

TX- Y position

TX- Zposition 

TX- X position

TX-X position: TX-X Position

TX-X position: RX

Note: TX -X position of EUT is the worst case, so only these test results be recorded in the test report.

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# 3.4 EUT configuration

# 3.4.1. Description of configuration (EUT)

Description	:	Wireless controller
Model Number	:	Z955W / RZ251W / ZDA250W / RZ250W / Z270W / Z260W
Operation frequency	:	916.0 MHz
Radio Technology	:	ASK
Modulation Technology	:	ASK modulation
Antenna	:	Integral antenna

# 3.4.2. Tested Supporting System Details

N/A

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#### 4. TEST ENVIRONMENT

# 4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

#### 4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

# IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 6, 2011.

#### FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.791995, July 13,2012.

#### 4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

#### 4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- □ The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

#### 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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# 4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
	30MHz~300MHz	±3.14dB	(1)
Radiation emission (3m)	300MHz~1000MHz	±3.18dB	(1)
	1GHz~18GHz	±3.54dB	(1)

<sup>(1).</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 5. SUMMARY OF STANDARDS AND RESULTS

# 5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Transmitter Output power and Spurious Emissions	FCC Part 15 C: 15.249 RSS-Gen:7.2 RSS-210 A7 ANSI C63.4-2009	PASSED
Receiver Spurious Emission	FCC Part 15 C: 15.249 RSS-Gen:6.1 RSS-210 2.3 ANSI C63.4-2009	PASSED
Conducted Emission Test	FCC Part 15 : 15.207 ANSI C63.4-2009 RSS-Gen:7.2.4	PASSED
Band Edge Compliance Test	FCC Part 15 C: 15.249 RSS-Gen 7.2.2 ANSI C63.4-2009	PASSED
20dB bandwith	FCC Part 15 C: 15.249 RSS-Gen:4.6.3 ANSI C63.4-2009	PASSED
99% Bandwidth	RSS-210 Annex 8 RSS-Gen 4.6.1	PASSED
N/A is an abbreviation for Not Applicable.		

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#### **6 TEST CONDITIONS AND RESULTS**

#### 6.1 Power Line Conducted Emission Test

For test instruments and accessories used see section 6.1.5

#### 6.1.1 Description of the test location

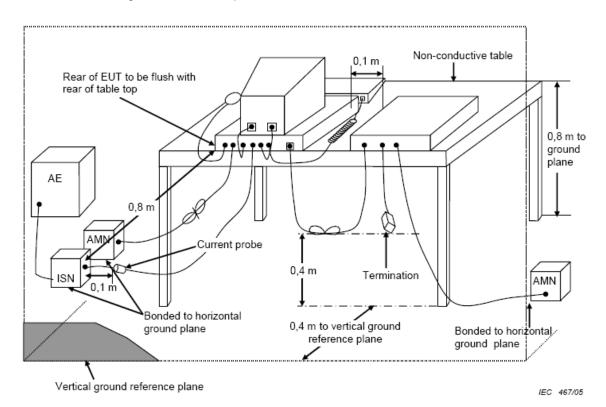
Test location : Shielding Room

# 6.1.2 Description of the test set-up

6.1.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

#### 6.1.2.2 Block Diagram of Test Setup



#### 6.1.3 Limits of disturbance (Class B)

		20 = 1	
		Maximum RF I	_ine Voltage
Fred	quency	Quasi-Peak Level	Average Level
	10.0	dB(μV)	dB(μV)
150kHz	~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz	~ 5MHz	56	46
5MHz	~ 30MHz	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

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# 6.1.4.Block Diagram of Test Setup

# 6.1.4.1 Block Diagram of connection between EUT and simulators

# TX and RX

**EUT** 

(EUT: Wireless controller)

# 6.1.5. Conduced disturbance Test Equipment

Condu	ucted Disturbance				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2012/11
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2012/11
3	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2012/11
4	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2012/11

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#### 6.1.6 Test result

The requirements are	Fulfilled
Band width	9kHz
Frequency range	0.15kHz - 30 MHz
Min. limit margin	>33.10 at 0.15MHz - 30 MHz

Remarks: The test result only for ZDA250W, Z270W and Z260W test model. Others

model all power supply by battery, not applicable.

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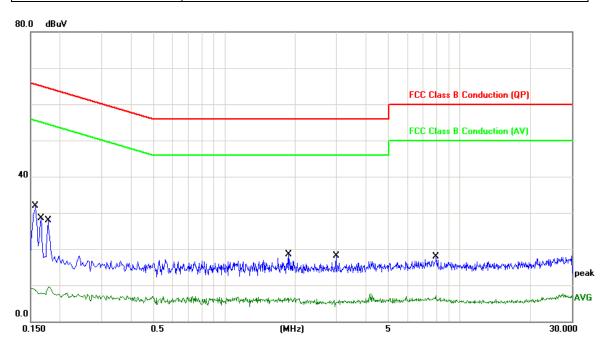
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Test Model:	ZDA250W	Result:	■ - passed
Test point:	L		☐ - not passed
Frequency range:	0.15MHz~30MHz		

EUT	Wireless controller
Firm Name	BELLMATE HOLDINGS LTD.
Operating Condition	AC 24V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Duke



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1580	9.99	1.79	11.78	65.57	-53.79	QP
2	0.1580	9.99	-2.59	7.40	55.57	-48.17	AVG
3	0.1660	9.99	0.78	10.77	65.16	-54.39	QP
4	0.1660	9.99	-2.81	7.18	55.16	-47.98	AVG
5	0.1780	9.99	2.81	12.80	64.58	-51.78	QP
6	0.1780	9.99	-1.33	8.66	54.58	-45.92	AVG
7	1.8780	10.08	-1.35	8.73	56.00	-47.27	QP
8	1.8780	10.08	-4.46	5.62	46.00	-40.38	AVG
9	2.9780	10.03	-0.54	9.49	56.00	-46.51	QP
10	2.9780	10.03	-5.14	4.89	46.00	-41.11	AVG
11	7.9740	10.13	0.17	10.30	60.00	-49.70	QP
12	7.9740	10.13	-4.53	5.60	50.00	-44.40	AVG

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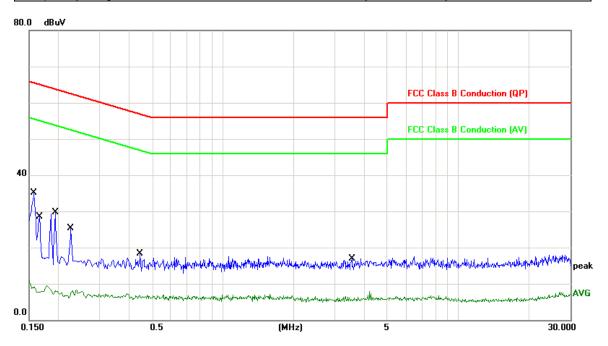




Test Model : ZDA250W Result: □ - passed

Test point: N □ - not passed

Frequency range: 0.15MHz~30MHz



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1580	9.99	12.15	22.14	65.57	-43.43	QP
2	0.1580	9.99	-2.16	7.83	55.57	-47.74	AVG
3	0.1660	9.99	7.81	17.80	65.16	-47.36	QP
4	0.1660	9.99	-2.50	7.49	55.16	-47.67	AVG
5	0.1940	9.99	3.22	13.21	63.86	-50.65	QP
6	0.1940	9.99	-2.98	7.01	53.86	-46.85	AVG
7	0.2260	9.99	4.67	14.66	62.60	-47.94	QP
8	0.2260	9.99	-3.09	6.90	52.60	-45.70	AVG
9	0.4460	10.00	-0.85	9.15	56.95	-47.80	QP
10	0.4460	10.00	-4.01	5.99	46.95	-40.96	AVG
11	3.5380	10.05	-0.28	9.77	56.00	-46.23	QP
12	3.5380	10.05	-5.09	4.96	46.00	-41.04	AVG

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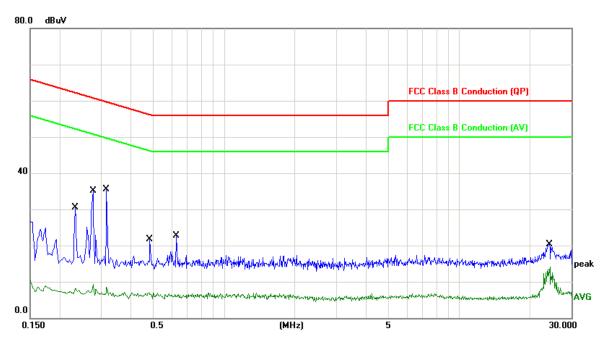
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Test Model:	Z270W	Result:	■ - passed
Test point:	L		☐ - not passed
Frequency range:	0.15MHz~30MHz		

EUT	Wireless controller
Firm Name	BELLMATE HOLDINGS LTD.
Operating Condition	AC 24V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Duke



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.2340	9.99	5.17	15.16	62.31	-47.15	QP
2	0.2340	9.99	-3.10	6.89	52.31	-45.42	AVG
3	0.2780	9.99	1.23	11.22	60.88	-49.66	QP
4	0.2780	9.99	-3.56	6.43	50.88	-44.45	AVG
5	0.3180	9.99	-0.37	9.62	59.76	-50.14	QP
6	0.3180	9.99	-3.70	6.29	49.76	-43.47	AVG
7	0.4860	10.01	-1.02	8.99	56.24	-47.25	QP
8	0.4860	10.01	-4.08	5.93	46.24	-40.31	AVG
9	0.6300	10.07	-1.01	9.06	56.00	-46.94	QP
10	0.6300	10.07	-4.18	5.89	46.00	-40.11	AVG
11	24.2500	10.47	5.37	15.84	60.00	-44.16	QP
12	24.2500	10.47	0.88	11.35	50.00	-38.65	AVG

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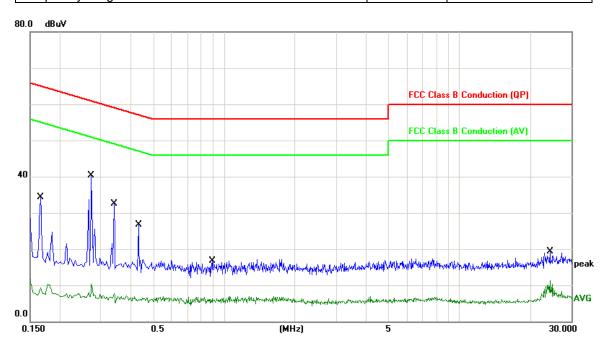
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Test Model:	Z270W	Result:	■ - passed
Test point:	N		□ - not passed
Frequency range:	0.15MHz~30MHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1660	9.99	0.78	10.77	65.16	-54.39	QP
2	0.1660	9.99	-2.80	7.19	55.16	-47.97	AVG
3	0.2740	9.99	-0.30	9.69	61.00	-51.31	QP
4	0.2740	9.99	-3.58	6.41	51.00	-44.59	AVG
5	0.3420	9.99	-0.53	9.46	59.15	-49.69	QP
6	0.3420	9.99	-3.80	6.19	49.15	-42.96	AVG
7	0.4340	10.00	-0.93	9.07	57.18	-48.11	QP
8	0.4340	10.00	-4.05	5.95	47.18	-41.23	AVG
9	0.8940	10.11	-1.09	9.02	56.00	-46.98	QP
10	0.8940	10.11	-4.31	5.80	46.00	-40.20	AVG
11	24.3700	10.47	4.05	14.52	60.00	-45.48	QP
12	24.3700	10.47	0.07	10.54	50.00	-39.46	AVG

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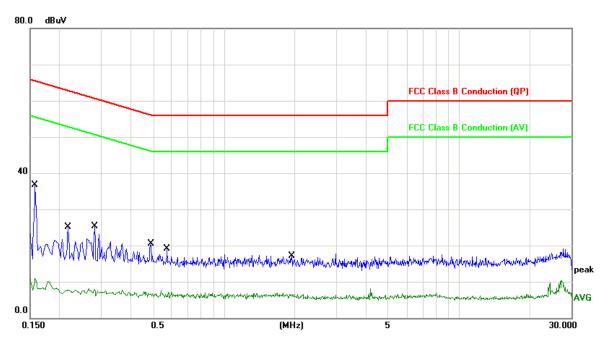
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Test Model:	Z260W	Result:	■ - passed
Test point:	L		☐ - not passed
Frequency range:	0.15MHz~30MHz		

EUT	Wireless controller
Firm Name	BELLMATE HOLDINGS LTD.
Operating Condition	AC 24V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Operator	Duke



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1580	9.99	22.48	32.47	65.57	-33.10	QP
2	0.1580	9.99	-0.69	9.30	55.57	-46.27	AVG
3	0.2180	9.99	4.14	14.13	62.89	-48.76	QP
4	0.2180	9.99	-2.74	7.25	52.89	-45.64	AVG
5	0.2820	9.99	2.08	12.07	60.76	-48.69	QP
6	0.2820	9.99	-3.17	6.82	50.76	-43.94	AVG
7	0.4900	10.01	0.29	10.30	56.17	-45.87	QP
8	0.4900	10.01	-3.25	6.76	46.17	-39.41	AVG
9	0.5740	10.04	-0.77	9.27	56.00	-46.73	QP
10	0.5740	10.04	-4.08	5.96	46.00	-40.04	AVG
11	1.9420	10.08	-1.52	8.56	56.00	-47.44	QP
12	1.9420	10.08	-4.45	5.63	46.00	-40.37	AVG

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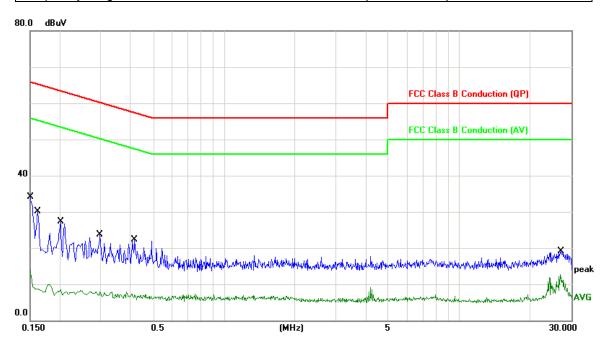
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Test Model : Z260W Result: □ - passed □ - not passed □ - not passed



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1500	9.99	9.52	19.51	66.00	-46.49	QP
2	0.1500	9.99	0.60	10.59	56.00	-45.41	AVG
3	0.1620	9.99	2.37	12.36	65.36	-53.00	QP
4	0.1620	9.99	-2.32	7.67	55.36	-47.69	AVG
5	0.2020	9.99	2.54	12.53	63.53	-51.00	QP
6	0.2020	9.99	-2.74	7.25	53.53	-46.28	AVG
7	0.2980	9.99	1.79	11.78	60.30	-48.52	QP
8	0.2980	9.99	-3.01	6.98	50.30	-43.32	AVG
9	0.4180	10.00	0.36	10.36	57.49	-47.13	QP
10	0.4180	10.00	-3.67	6.33	47.49	-41.16	AVG
11	27.2500	10.58	5.20	15.78	60.00	-44.22	QP
12	27.2500	10.58	1.19	11.77	50.00	-38.23	AVG

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# 7. TRANSMITTER OUPUT POWER AND SPURIOUS EMISSION (electric field)

# 7.1.Test Equipment

Radia	Radiated disturbance (electric field)										
Item	n Test Equipment Manufacturer Model No. Serial No. La										
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2012/11						
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2012/11						
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2012/11						
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2012/11						
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11						
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2012/11						

# 7.2.Block Diagram of Test Setup

6.2.1 Block Diagram of connection between EUT and simulators

EUT

(EUT: Wireless controller)

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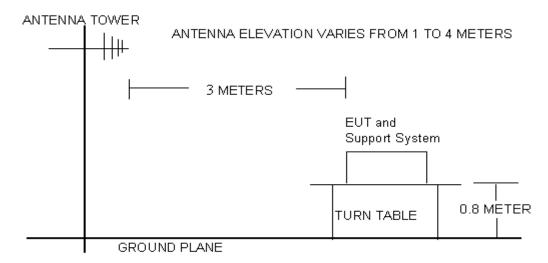
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### 7.2.2 Anechoic Chamber Setup Diagram



# 7.3. Transmitter Output power and Spurious Emissions Limit:

Standard: RSS-210 A7, FCC Part 15:249.

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (µV/m)
//		7
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Frequency (Hz)	Field Strength (μV/m at meter)	Measurement Distance (meter)
0.009 - 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Remark: (1) Emission level  $dB\mu V = 20 \log Emission level \mu V/m$ 

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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#### 7.4.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

#### 7.5. Radiated Emission Test Results

#### PASSED.

The frequency range from 9KHz~30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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Test Mode: TX –X Position Mode Result: □ - passed □ - not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
Ren Lim	Remark:Other frequency no specific emission form the EUT (Margin > 6dB form the applicable						

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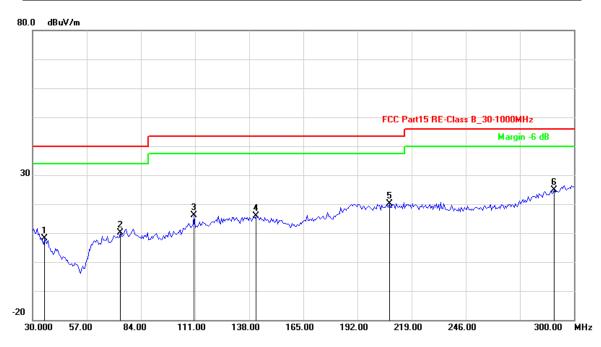
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EUT	Wireless controller		
Firm Name	BELLMATE HOLDINGS LTD.		
Operating Condition	Battery 1.5V*2		
Test Condition	Ambient Temperature: 25°C Humidity: 56%		
Test distance	3 Meter		
Operator	Duke		



No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	35.9519	-23.57	31.81	8.24	40.00	-31.76	QP
2	73.8277	-21.84	31.94	10.10	40.00	-29.90	QP
3	110.6212	-20.40	36.60	16.20	43.50	-27.30	QP
4	141.4629	-16.52	32.34	15.82	43.50	-27.68	QP
5	208.0160	-12.18	32.30	20.12	43.50	-23.38	QP
6	290.2605	-7.02	31.95	24.93	46.00	-21.07	QP

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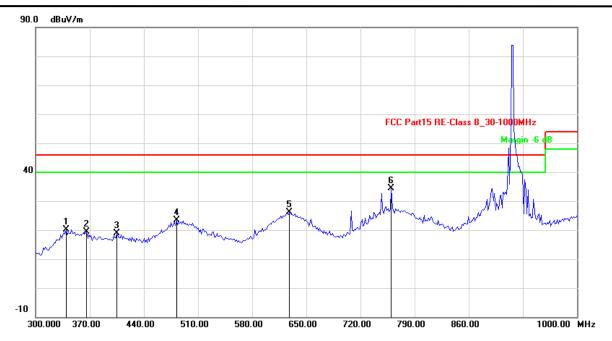
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	916.0	-4.40	94.78	90.38	114.00	-23.62	Peak
2	916.0	-4.40	80.82	76.42	94.00	-17.58	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	339.2786	-13.29	33.37	20.08	46.00	-25.92	QP
2	365.9319	-14.18	33.57	19.39	46.00	-26.61	QP
3	405.2104	-14.96	33.90	18.94	46.00	-27.06	QP
4	482.3647	-9.75	33.04	23.29	46.00	-22.71	QP
5	628.2565	-7.29	33.44	26.15	46.00	-19.85	QP
6	760.1202	-5.49	39.78	34.29	46.00	-11.71	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2168.337	0.51	42.03	42.54	74.00	-31.46	peak
2	2168.337	0.51	27.33	27.84	54.00	-26.16	AVG
3	2741.483	5.14	49.95	55.09	74.00	-18.91	peak
4	2741.483	5.14	35.07	40.21	54.00	-13.79	AVG
5	4571.142	11.15	39.18	50.33	74.00	-23.67	peak
6	4571.142	11.15	26.39	37.54	54.00	-16.46	AVG
7	5915.832	15.11	39.91	55.02	74.00	-18.98	peak
8	5915.832	15.11	25.21	40.32	54.00	-13.68	AVG
9	6665.331	16.99	42.68	59.67	74.00	-14.33	peak
10	6665.331	16.99	27.53	44.52	54.00	-9.48	AVG
11	8847.695	21.58	37.22	58.80	74.00	-15.20	peak
12	8847.695	21.58	21.63	43.21	54.00	-10.79	AVG

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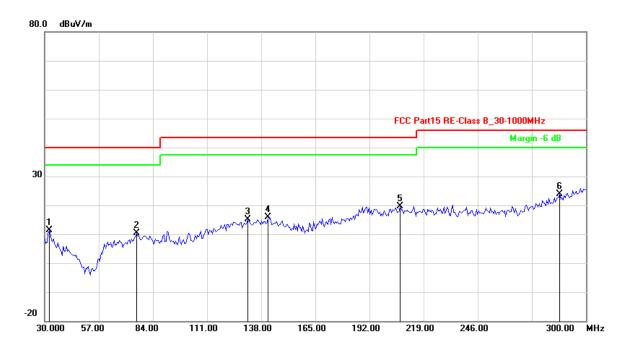
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Test Model:	Z955W	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30MHz~18GHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	32.1643	-24.17	35.66	11.49	40.00	-28.51	QP
2	75.9920	-21.44	31.84	10.40	40.00	-29.60	QP
3	131.1824	-16.98	32.13	15.15	43.50	-28.35	QP
4	141.4629	-16.52	32.41	15.89	43.50	-27.61	QP
5	207.4750	-12.21	31.73	19.52	43.50	-23.98	QP
6	287.0140	-7.74	31.57	23.83	46.00	-22.17	QP

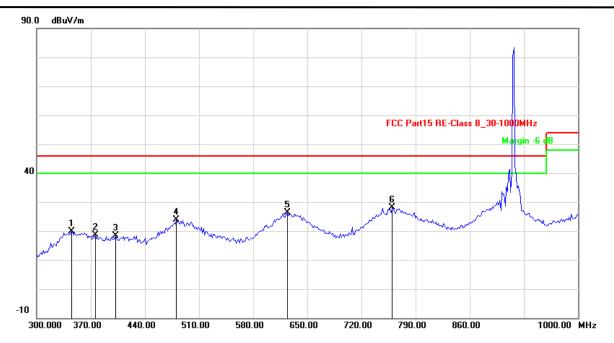
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	No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
ĺ	1	916.0	-4.40	100.04	95.64	114.00	-18.36	Peak
	2	916.0	-4.40	86.47	82.07	94.00	-11.93	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	344.8898	-13.30	33.14	19.84	46.00	-26.16	QP
2	375.7515	-14.65	33.23	18.58	46.00	-27.42	QP
3	402.4048	-15.00	33.45	18.45	46.00	-27.55	QP
4	480.9619	-9.71	33.55	23.84	46.00	-22.16	QP
5	624.0481	-7.18	33.62	26.44	46.00	-19.56	QP
6	760.1202	-5.49	33.65	28.16	46.00	-17.84	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1815.631	-1.23	67.26	66.03	74.00	-7.97	peak
2	1815.631	-1.23	52.65	51.42	54.00	-2.58	AVG
3	2741.483	5.14	57.17	62.31	74.00	-11.69	peak
4	2741.483	5.14	42.42	47.56	54.00	-6.44	AVG
5	4571.142	11.15	37.88	49.03	74.00	-24.97	peak
6	4571.142	11.15	23.17	34.32	54.00	-19.68	AVG
7	5871.743	14.97	38.99	53.96	74.00	-20.04	peak
8	5871.743	14.97	23.58	38.55	54.00	-15.45	AVG
9	6951.904	17.68	43.57	61.25	74.00	-12.75	peak
10	6951.904	17.68	28.44	46.12	54.00	-7.88	AVG
11	8737.475	21.27	37.61	58.88	74.00	-15.12	peak
12	8737.475	21.27	21.51	42.78	54.00	-11.22	AVG

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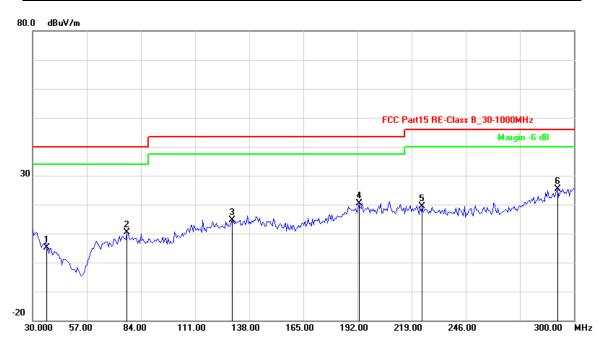
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Test Model:	RZ251W	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30MHz~18GHz		

EUT	Wireless controller
Firm Name	BELLMATE HOLDINGS LTD.
Operating Condition	Battery 1.5V*2
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Operator	Duke



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	37.0341	-24.22	29.28	5.06	40.00	-34.94	QP
2	77.0741	-21.43	31.84	10.41	40.00	-29.59	QP
3	129.5591	-17.11	31.76	14.65	43.50	-28.85	QP
4	192.8657	-12.20	32.47	20.27	43.50	-23.23	QP
5	224.2485	-12.39	31.82	19.43	46.00	-26.57	QP
6	291.8838	-6.78	32.23	25.45	46.00	-20.55	QP

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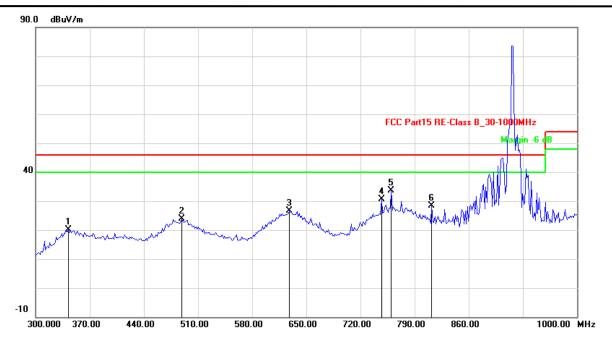
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	916.0	-4.40	94.87	90.47	114.00	-23.53	Peak
2	916.0	-4.40	82.33	77.93	94.00	-16.07	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	342.0842	-13.19	33.43	20.24	46.00	-25.76	QP
2	489.3788	-9.92	33.78	23.86	46.00	-22.14	QP
3	628.2565	-7.29	33.87	26.58	46.00	-19.42	QP
4	747.4950	-6.54	37.19	30.65	46.00	-15.35	QP
5	760.1202	-5.49	39.24	33.75	46.00	-12.25	QP
6	812.0240	-9.28	37.70	28.42	46.00	-17.58	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1617.234	-1.33	41.93	40.60	74.00	-33.40	peak
2	1617.234	-1.33	26.96	25.63	54.00	-28.37	AVG
3	3050.100	6.76	43.56	50.32	74.00	-23.68	peak
4	3050.100	6.76	29.56	36.32	54.00	-17.68	AVG
5	5078.156	12.41	37.92	50.33	74.00	-23.67	peak
6	5078.156	12.41	24.16	36.57	54.00	-17.43	AVG
7	6180.361	15.82	40.09	55.91	74.00	-18.09	peak
8	6180.361	15.82	25.19	41.01	54.00	-12.99	AVG
9	6973.948	17.74	42.73	60.47	74.00	-13.53	peak
10	6973.948	17.74	28.13	45.87	54.00	-8.13	AVG
11	8010.020	19.22	36.77	55.99	74.00	-18.01	peak
12	8010.020	19.22	26.54	45.76	54.00	-8.24	AVG

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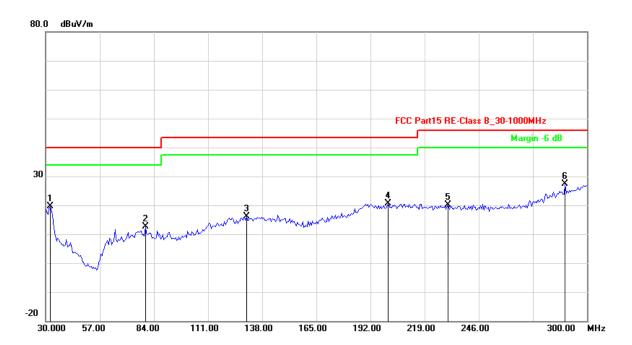
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			Т
Test Model:	RZ251W	Result:	- passed
			_ passes
Test point:	Vertical		☐ - not passed
Fraguenov range.	20141- 4001-		- Hot passed
Frequency range:	30MHz~18GHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	32.1643	-24.17	43.68	19.51	40.00	-20.49	QP
2	79.7796	-21.41	33.92	12.51	40.00	-27.49	QP
3	130.1002	-17.05	33.18	16.13	43.50	-27.37	QP
4	200.9820	-12.60	33.18	20.58	43.50	-22.92	QP
5	230.7415	-12.40	32.64	20.24	46.00	-25.76	QP
6	289.1784	-7.25	34.55	27.30	46.00	-18.70	QP

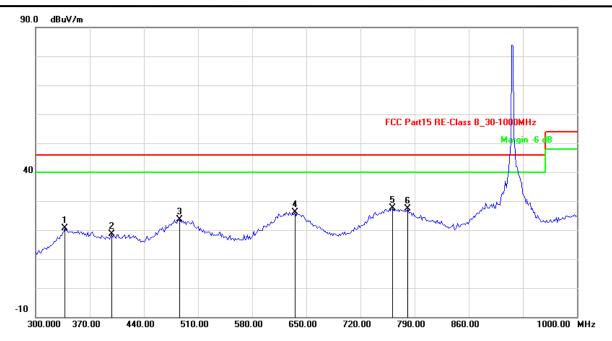
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	916.0	-4.40	100.26	95.86	114.00	-18.14	Peak
2	916.0	-4.40	-94.58	82.18	94.00	-11.82	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	337.8758	-13.63	34.35	20.72	46.00	-25.28	QP
2	398.1964	-15.01	33.55	18.54	46.00	-27.46	QP
3	486.5731	-9.85	33.42	23.57	46.00	-22.43	QP
4	635.2705	-7.48	33.68	26.20	46.00	-19.80	QP
5	761.5230	-5.53	33.04	27.51	46.00	-18.49	QP
6	781.1623	-6.10	33.60	27.50	46.00	-18.50	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2741.483	5.14	55.40	60.54	74.00	-13.46	peak
2	2741.483	5.14	39.98	45.12	54.00	-8.88	AVG
3	3931.864	9.59	40.02	49.61	74.00	-24.39	peak
4	3931.864	9.59	24.93	34.52	54.00	-19.48	AVG
5	4571.142	11.15	42.89	54.04	74.00	-19.96	peak
6	4571.142	11.15	29.06	40.21	54.00	-13.79	AVG
7	5871.743	14.97	40.11	55.08	74.00	-18.92	peak
8	5871.743	14.97	26.56	41.53	54.00	-12.47	AVG
9	6951.904	17.68	43.99	61.67	74.00	-12.33	peak
10	6951.904	17.68	29.10	46.78	54.00	-7.22	AVG
11	8142.285	19.59	38.52	58.11	74.00	-15.89	peak
12	8142.285	19.59	23.74	43.33	54.00	-10.67	AVG

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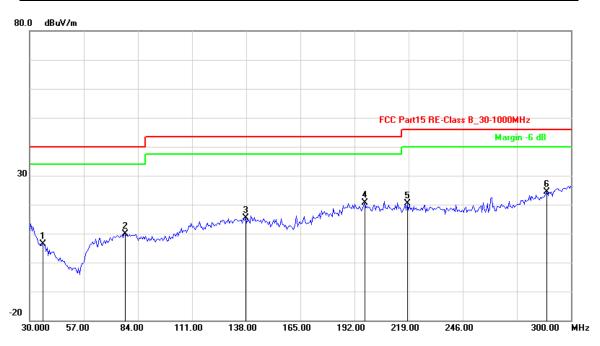
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Test Model:	ZDA250W	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30MHz~18GHz		

EUT	Wireless controller		
Firm Name	BELLMATE HOLDINGS LTD.		
Operating Condition	AC 24V		
Test Condition	Ambient Temperature: 25°C Humidity: 56%		
Test distance	3 Meter		
Operator	Duke		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	36.4930	-23.89	30.23	6.34	40.00	-33.66	QP
2	77.6152	-21.43	31.20	9.77	40.00	-30.23	QP
3	137.6754	-16.54	32.03	15.49	43.50	-28.01	QP
4	197.1944	-12.48	33.04	20.56	43.50	-22.94	QP
5	218.2966	-12.37	32.75	20.38	46.00	-25.62	QP
6	288.0962	-7.50	31.95	24.45	46.00	-21.55	QP

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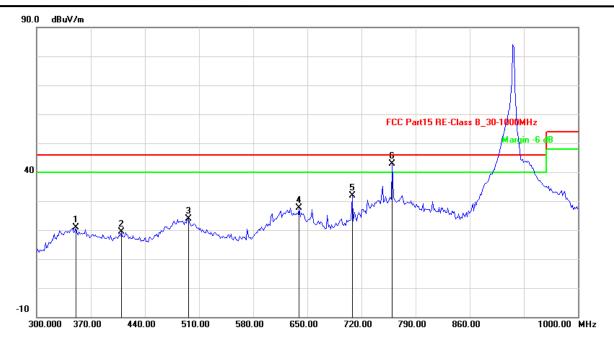
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	No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
ĺ	1	916.0	-4.40	95.15	90.75	114.00	-23.25	Peak
	2	916.0	-4.40	81.39	76.99	94.00	-17.01	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	350.5010	-13.52	34.45	20.93	46.00	-25.07	QP
2	409.4188	-14.91	34.38	19.47	46.00	-26.53	QP
3	496.3928	-10.08	34.07	23.99	46.00	-22.01	QP
4	639.4790	-7.60	35.32	27.72	46.00	-18.28	QP
5	708.2164	-12.64	44.58	31.94	46.00	-14.06	QP
6	760.1202	-5.49	48.34	42.85	46.00	-3.15	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1969.940	-1.16	41.48	40.32	74.00	-33.68	peak
2	1969.940	-1.16	27.57	26.41	54.00	-27.59	AVG
3	2961.924	6.38	42.55	48.93	74.00	-25.07	peak
4	2961.924	6.38	26.87	33.25	54.00	-20.75	AVG
5	4438.878	10.84	38.55	49.39	74.00	-24.61	peak
6	4438.878	10.84	24.63	35.47	54.00	-18.53	AVG
7	6224.449	15.92	40.89	56.81	74.00	-17.19	peak
8	6224.449	15.92	25.86	41.78	54.00	-12.22	AVG
9	6775.551	17.26	42.28	59.54	74.00	-14.46	peak
10	6775.551	17.26	27.60	44.86	54.00	-9.14	AVG
11	8715.431	21.21	37.97	59.18	74.00	-14.82	peak
12	8715.431	21.21	24.34	45.55	54.00	-8.45	AVG

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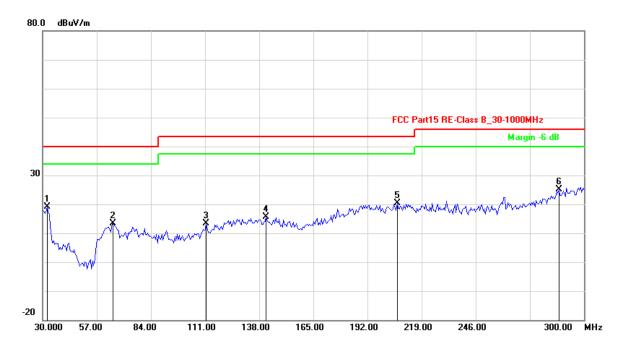
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Test Model:	ZDA250W	Result:	■ - passed
Test point:	Vertical		☐ - not passed
Frequency range:	30MHz~18GHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	32.1643	-24.17	43.28	19.11	40.00	-20.89	QP
2	65.1703	-23.81	37.13	13.32	40.00	-26.68	QP
3	111.7034	-20.14	33.61	13.47	43.50	-30.03	QP
4	141.4629	-16.52	32.10	15.58	43.50	-27.92	QP
5	206.9339	-12.24	32.57	20.33	43.50	-23.17	QP
6	287.5551	-7.62	32.72	25.10	46.00	-20.90	QP

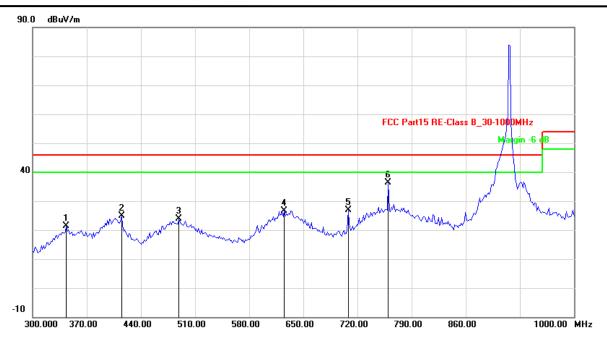
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	916.0	-4.40	99.36	94.96	114.00	-19.04	Peak
2	916.0	-4.40	86.62	82.22	94.00	-11.78	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	343.4870	-13.25	34.55	21.30	46.00	-24.70	QP
2	415.0301	-14.83	39.68	24.85	46.00	-21.15	QP
3	489.3788	-9.92	33.78	23.86	46.00	-22.14	QP
4	625.4509	-7.22	33.97	26.75	46.00	-19.25	QP
5	708.2164	-12.64	39.57	26.93	46.00	-19.07	QP
6	760.1202	-5.49	41.84	36.35	46.00	-9.65	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1815.631	-1.23	46.12	44.89	74.00	-29.11	peak
2	1815.631	-1.23	31.68	30.45	54.00	-23.55	AVG
3	2939.880	6.26	42.58	48.84	74.00	-25.16	peak
4	2939.880	6.26	26.97	33.23	54.00	-20.77	AVG
5	3424.850	7.96	41.32	49.28	74.00	-24.72	peak
6	3424.850	7.96	26.55	34.51	54.00	-19.49	AVG
7	4482.966	10.94	38.09	49.03	74.00	-24.97	peak
8	4482.966	10.94	23.62	34.56	54.00	-19.44	AVG
9	5937.876	15.18	40.17	55.35	74.00	-18.65	peak
10	5937.876	15.18	26.02	41.20	54.00	-12.80	AVG
11	8010.020	19.22	37.38	56.60	74.00	-17.40	peak
12	8010.020	19.22	22.67	41.89	54.00	-12.11	AVG

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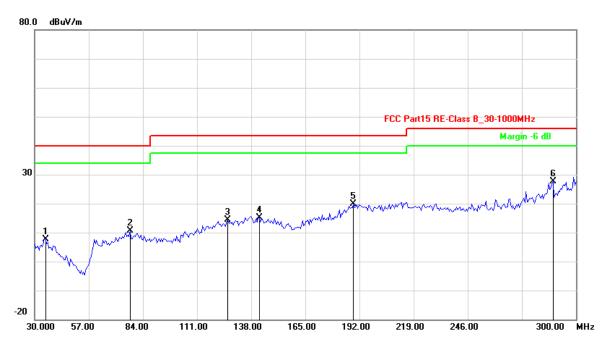
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Test Model:	RZ250W	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30MHz~18GHz		

EUT	Wireless controller	
Firm Name	BELLMATE HOLDINGS LTD.	
Operating Condition	Battery 1.5V*2	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Test distance	3 Meter	
Operator	Duke	



No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	35.4108	-23.24	30.97	7.73	40.00	-32.27	QP
2	77.6152	-21.43	31.97	10.54	40.00	-29.46	QP
3	126.3126	-17.45	31.78	14.33	43.50	-29.17	QP
4	142.0040	-16.57	31.81	15.24	43.50	-28.26	QP
5	189.0782	-12.34	32.22	19.88	43.50	-23.62	QP
6	288.6373	-7.37	35.07	27.70	46.00	-18.30	QP

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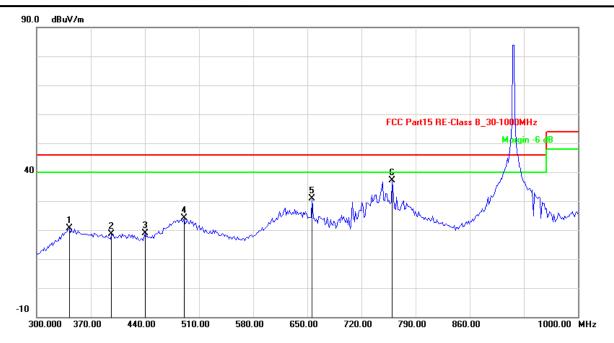
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	No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
ĺ	1	916.0	-4.40	95.45	91.05	114.00	-22.95	Peak
	2	916.0	-4.40	82.98	78.58	94.00	-15.42	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	342.0842	-13.19	33.78	20.59	46.00	-25.41	QP
2	396.7936	-15.00	33.60	18.60	46.00	-27.40	QP
3	440.2806	-16.04	34.98	18.94	46.00	-27.06	QP
4	490.7816	-9.95	33.97	24.02	46.00	-21.98	QP
5	656.3126	-10.25	41.06	30.81	46.00	-15.19	QP
6	760.1202	-5.49	42.61	37.12	46.00	-8.88	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2036.072	-0.80	40.91	40.11	74.00	-33.89	peak
2	2036.072	-0.80	26.16	25.36	54.00	-28.64	AVG
3	3028.056	6.69	42.29	48.98	74.00	-25.02	peak
4	3028.056	6.69	28.05	34.74	54.00	-19.26	AVG
5	3777.555	9.10	40.12	49.22	74.00	-24.78	peak
6	3777.555	9.10	26.11	35.21	54.00	-18.79	AVG
7	5078.156	12.41	39.15	51.56	74.00	-22.44	peak
8	5078.156	12.41	24.03	36.44	54.00	-17.56	AVG
9	6070.140	15.55	39.89	55.44	74.00	-18.56	peak
10	6070.140	15.55	25.23	40.78	54.00	-13.22	AVG
11	8671.343	21.08	36.46	57.54	74.00	-16.46	peak
12	8671.343	21.08	21.48	42.56	54.00	-11.44	AVG

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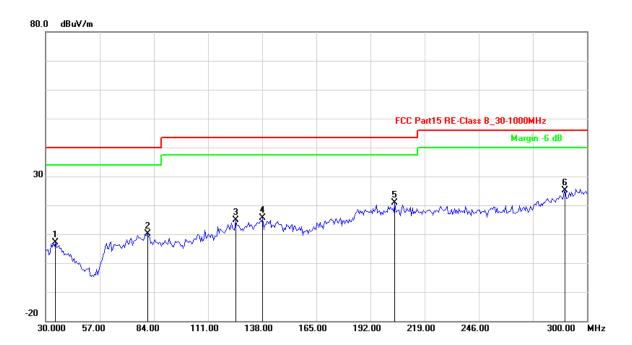
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Test Model:	RZ250W	l Result:	- passed
			<b>—</b> paccea
Test point:	Vertical		☐ - not passed
			- Hot passed
Frequency range:	30MHz~18GHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34.8697	-23.04	30.08	7.04	40.00	-32.96	QP
2	80.8617	-21.60	31.74	10.14	40.00	-29.86	QP
3	124.6894	-17.63	32.61	14.98	43.50	-28.52	QP
4	138.2164	-16.50	32.21	15.71	43.50	-27.79	QP
5	204.2285	-12.41	33.28	20.87	43.50	-22.63	QP
6	289.1784	-7.25	32.44	25.19	46.00	-20.81	QP

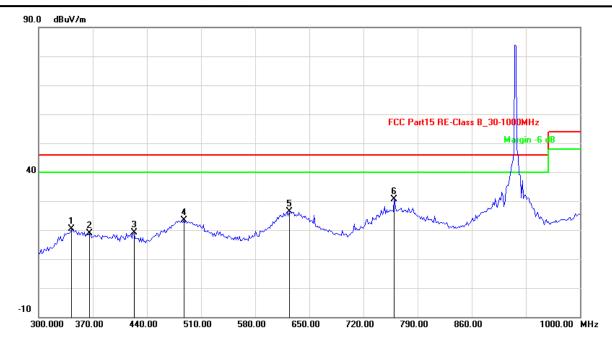
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1	No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
	1	916.0	-4.40	102.06	97.66	114.00	-16.34	Peak
	2	916.0	-4.40	88.21	83.81	94.00	-10.19	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	342.0842	-13.19	33.55	20.36	46.00	-25.64	QP
2	365.9319	-14.18	33.17	18.99	46.00	-27.01	QP
3	423.4469	-15.00	34.17	19.17	46.00	-26.83	QP
4	487.9760	-9.88	33.38	23.50	46.00	-22.50	QP
5	624.0481	-7.18	33.55	26.37	46.00	-19.63	QP
6	760.1202	-5.49	36.24	30.75	46.00	-15.25	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1815.631	-1.23	47.02	45.79	74.00	-28.21	peak
2	1815.631	-1.23	31.55	30.32	54.00	-23.68	AVG
3	2741.483	5.14	54.79	59.93	74.00	-14.07	peak
4	2741.483	5.14	39.07	44.21	54.00	-9.79	AVG
5	4042.084	9.91	39.96	49.87	74.00	-24.13	peak
6	4042.084	9.91	24.61	34.52	54.00	-19.48	AVG
7	5034.068	12.27	37.23	49.50	74.00	-24.50	peak
8	5034.068	12.27	23.60	35.87	54.00	-18.13	AVG
9	6356.713	16.24	40.18	56.42	74.00	-17.58	peak
10	6356.713	16.24	25.50	41.74	54.00	-12.26	AVG
11	8142.285	19.59	37.40	56.99	74.00	-17.01	peak
12	8142.285	19.59	22.74	42.33	54.00	-11.67	AVG

Remark: Others frequency test result margin all >6dB of the limit.

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Report No.: CGZ3130402-00239-EFI





# 8. RECEIVER SPURIOUS EMISSION (electric field)

# 8.1.Test Equipment

Radia	Radiated disturbance (electric field)									
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.					
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2012/11					
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2012/11					
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2012/11					
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2012/11					
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11					
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2012/11					

# 8.2.Block Diagram of Test Setup

#### 6.2.1 Block Diagram of connection between EUT and simulators

IX and RX	
EUT	

(EUT: Wireless controller)

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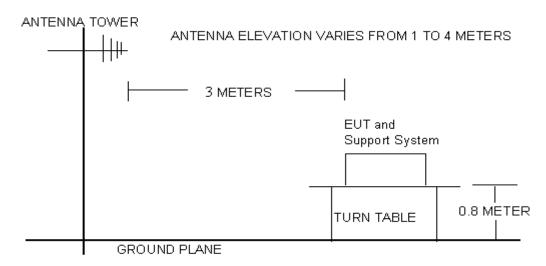
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#### 8.2.2 Anechoic Chamber Setup Diagram



# 8.3. Receiver Spurious Emission Limit:

Standard: RSS-210 A7, RSS-Gen 6.1, FCC Part 15:249.

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency (Hz)	Field Strength (µV/m at meter)	Measurement Distance (meter)
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Remark:

- (1) Emission level  $dB\mu V = 20 \log Emission level \mu V/m$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

#### 8.4.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

### 8.5. Radiated Emission Test Results

#### PASSED.

The frequency range from 30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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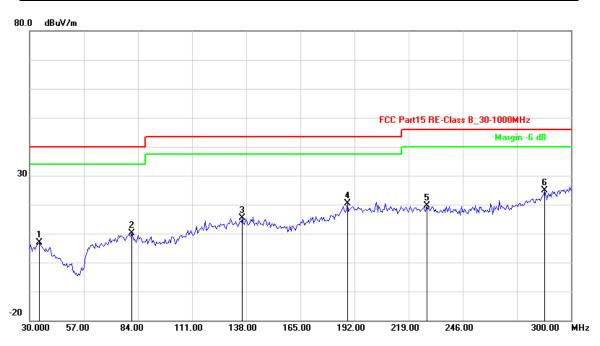
Report No.: CGZ3130402-00239-EFI Page 40 of 64





Test Model:	Z270W	Result:	■ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	30MHz~18GHz		

EUT	Wireless controller
Firm Name	BELLMATE HOLDINGS LTD.
Operating Condition	AC 24V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Operator	Duke



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34.8697	-23.04	29.94	6.90	40.00	-33.10	QP
2	80.8617	-21.60	31.67	10.07	40.00	-29.93	QP
3	136.0521	-16.65	31.92	15.27	43.50	-28.23	QP
4	188.5371	-12.53	32.81	20.28	43.50	-23.22	QP
5	228.0361	-12.36	31.92	19.56	46.00	-26.44	QP
6	287.0140	-7.74	32.51	24.77	46.00	-21.23	QP

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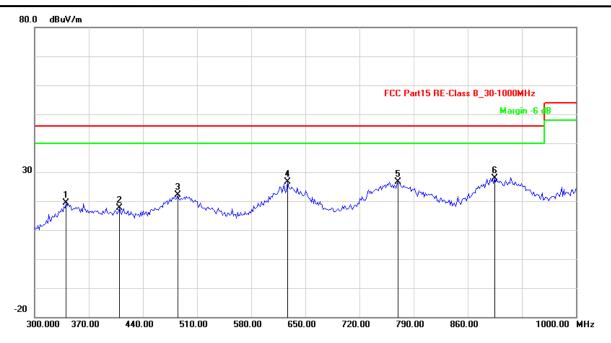
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	340.6814	-13.14	32.61	19.47	46.00	-26.53	QP
2	409.4188	-14.91	32.59	17.68	46.00	-28.32	QP
3	485.1703	-9.81	31.90	22.09	46.00	-23.91	QP
4	626.8537	-7.26	33.83	26.57	46.00	-19.43	QP
5	769.9399	-5.72	32.31	26.59	46.00	-19.41	QP
6	894.7896	-4.18	32.12	27.94	46.00	-18.06	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1991.984	-1.15	42.42	41.27	74.00	-32.73	peak
2	1991.984	-1.15	28.80	27.65	54.00	-26.35	AVG
3	3513.026	8.25	40.62	48.87	74.00	-25.13	peak
4	3513.026	8.25	25.63	33.88	54.00	-20.12	AVG
5	4923.848	11.98	36.74	48.72	74.00	-25.28	peak
6	4923.848	11.98	22.53	34.51	54.00	-19.49	AVG
7	6356.713	16.24	39.27	55.51	74.00	-18.49	peak
8	6356.713	16.24	24.18	40.42	54.00	-13.58	AVG
9	7503.006	18.50	36.55	55.05	74.00	-18.95	peak
10	7503.006	18.50	22.53	41.03	54.00	-12.97	AVG
11	8737.475	21.27	37.62	58.89	74.00	-15.11	peak
12	8737.475	21.27	22.29	43.56	54.00	-10.44	AVG

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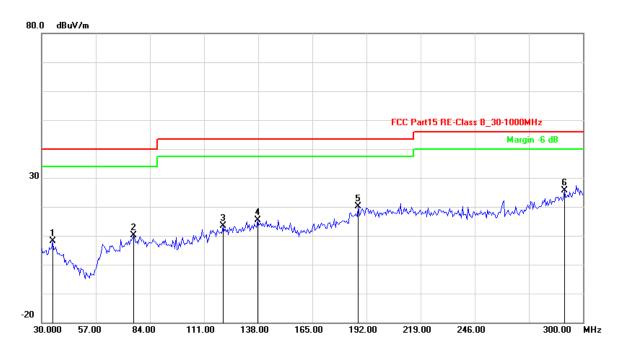
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Test Model:	Z270W	Result:	■ - passed
Test point:	Vertical		☐ - not passed
Frequency range:	30MHz~18GHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	35.4108	-23.24	31.48	8.24	40.00	-31.76	QP
2	75.9920	-21.44	31.45	10.01	40.00	-29.99	QP
3	120.3607	-18.09	31.40	13.31	43.50	-30.19	QP
4	137.6754	-16.54	31.91	15.37	43.50	-28.13	QP
5	187.9960	-12.72	32.93	20.21	43.50	-23.29	QP
6	290.8016	-6.94	32.58	25.64	46.00	-20.36	QP

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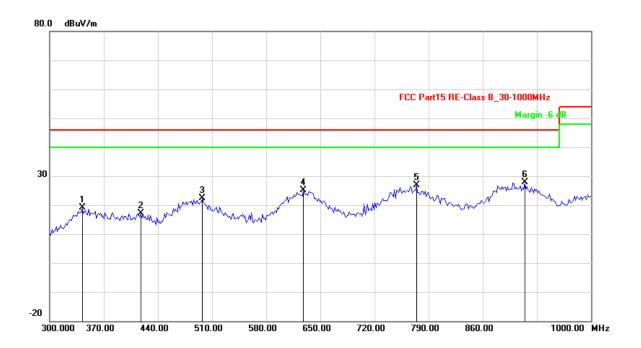
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	342.0842	-13.19	32.27	19.08	46.00	-26.92	QP
2	417.8357	-14.80	31.82	17.02	46.00	-28.98	QP
3	497.7956	-10.12	32.47	22.35	46.00	-23.65	QP
4	628.2565	-7.29	32.45	25.16	46.00	-20.84	QP
5	774.1483	-5.82	32.70	26.88	46.00	-19.12	QP
6	914.4289	-4.35	32.28	27.93	46.00	-18.07	QP

### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2146.293	0.29	40.79	41.08	74.00	-32.92	peak
2	2146.293	0.29	26.82	27.11	54.00	-26.89	AVG
3	3028.056	6.69	41.77	48.46	74.00	-25.54	peak
4	3028.056	6.69	26.52	33.21	54.00	-20.79	AVG
5	3843.687	9.31	38.79	48.10	74.00	-25.90	peak
6	3843.687	9.31	24.11	33.42	54.00	-20.58	AVG
7	5452.906	13.62	36.50	50.12	74.00	-23.88	peak
8	5452.906	13.62	22.14	35.76	54.00	-18.24	AVG
9	6555.110	16.72	41.07	57.79	74.00	-16.21	peak
10	6555.110	16.72	24.81	41.53	54.00	-12.47	AVG
11	8384.770	20.28	36.90	57.18	74.00	-16.82	peak
12	8384.770	20.28	22.37	42.65	54.00	-11.35	AVG

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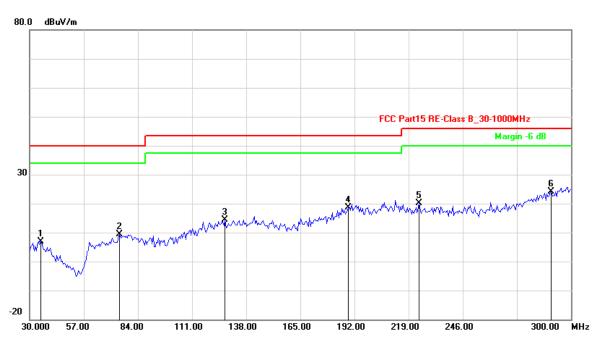
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Test Model:	Z260W	Result:	■ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	30MHz~18GHz		

EUT	Wireless controller
Firm Name	BELLMATE HOLDINGS LTD.
Operating Condition	AC 24V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Operator	Duke



No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	35.4108	-23.24	30.19	6.95	40.00	-33.05	QP
2	74.9098	-21.48	30.83	9.35	40.00	-30.65	QP
3	127.3948	-17.34	31.80	14.46	43.50	-29.04	QP
4	189.0782	-12.34	30.87	18.53	43.50	-24.97	QP
5	224.2485	-12.39	32.59	20.20	46.00	-25.80	QP
6	290.2605	-7.02	31.22	24.20	46.00	-21.80	QP

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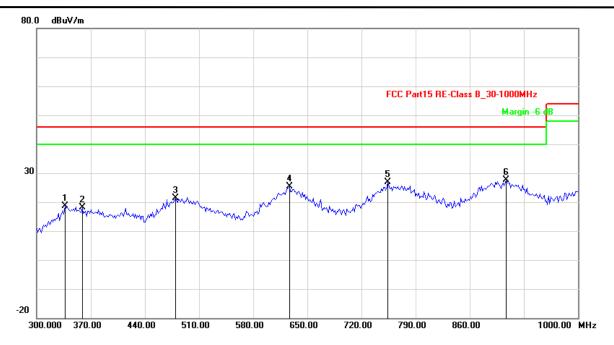
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	336.4729	-13.97	32.61	18.64	46.00	-27.36	QP
2	358.9178	-13.85	32.02	18.17	46.00	-27.83	QP
3	479.5591	-9.77	31.05	21.28	46.00	-24.72	QP
4	626.8537	-7.26	32.66	25.40	46.00	-20.60	QP
5	754.5090	-5.95	32.79	26.84	46.00	-19.16	QP
6	907.4148	-4.14	31.71	27.57	46.00	-18.43	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1683.367	-1.30	40.91	39.61	74.00	-34.39	peak
2	1683.367	-1.30	27.83	26.53	54.00	-27.47	AVG
3	3072.144	6.83	42.18	49.01	74.00	-24.99	peak
4	3072.144	6.83	27.92	34.75	54.00	-19.25	AVG
5	4042.084	9.91	38.63	48.54	74.00	-25.46	peak
6	4042.084	9.91	23.87	33.78	54.00	-20.22	AVG
7	5827.655	14.83	40.28	55.11	74.00	-18.89	peak
8	5827.655	14.83	25.49	40.32	54.00	-13.68	AVG
9	6577.154	16.78	41.71	58.49	74.00	-15.51	peak
10	6577.154	16.78	27.01	43.79	54.00	-10.21	AVG
11	8693.387	21.15	37.04	58.19	74.00	-15.81	peak
12	8693.387	21.15	22.81	43.96	54.00	-10.04	AVG

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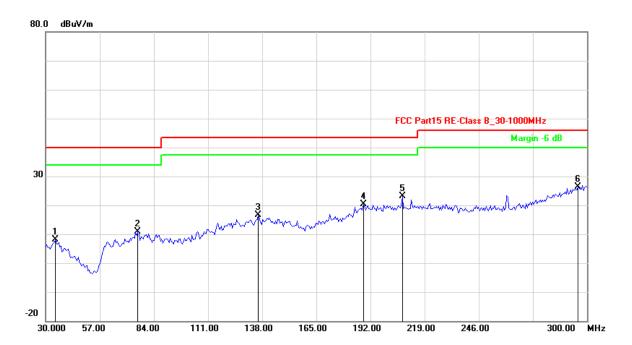
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Test Model:	Z260W	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30MHz~18GHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34.8697	-23.04	31.11	8.07	40.00	-31.93	QP
2	75.9920	-21.44	32.34	10.90	40.00	-29.10	QP
3	136.0521	-16.65	33.24	16.59	43.50	-26.91	QP
4	188.5371	-12.53	32.96	20.43	43.50	-23.07	QP
5	208.0160	-12.18	35.40	23.22	43.50	-20.28	QP
6	295.6713	-6.21	32.64	26.43	46.00	-19.57	QP

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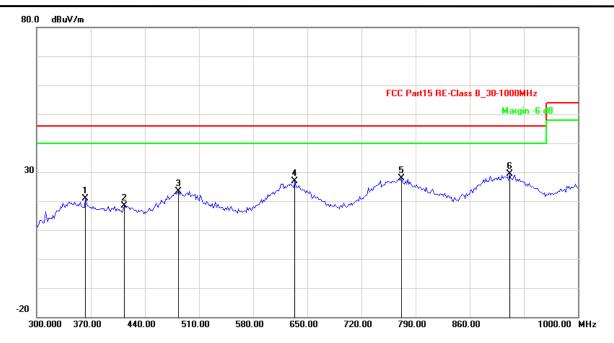
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	363.1263	-14.04	34.92	20.88	46.00	-25.12	QP
2	413.6273	-14.85	33.19	18.34	46.00	-27.66	QP
3	483.7675	-9.78	33.21	23.43	46.00	-22.57	QP
4	633.8677	-7.44	34.20	26.76	46.00	-19.24	QP
5	771.3427	-5.75	33.51	27.76	46.00	-18.24	QP
6	911.6232	-4.26	33.67	29.41	46.00	-16.59	QP

#### Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2454.910	3.33	43.59	46.92	74.00	-27.08	peak
2	2454.910	3.33	28.09	31.42	54.00	-22.58	AVG
3	3006.012	6.62	43.07	49.69	74.00	-24.31	peak
4	3006.012	6.62	27.92	34.54	54.00	-19.46	AVG
5	4813.627	11.72	36.96	48.68	74.00	-25.32	peak
6	4813.627	11.72	22.02	33.74	54.00	-20.26	AVG
7	6048.096	15.50	39.17	54.67	74.00	-19.33	peak
8	6048.096	15.50	24.73	40.23	54.00	-13.77	AVG
9	8098.196	19.47	37.41	56.88	74.00	-17.12	peak
10	8098.196	19.47	22.31	41.78	54.00	-12.22	AVG
11	8715.431	21.21	36.93	58.14	74.00	-15.86	peak
12	8715.431	21.21	22.30	43.51	54.00	-10.49	AVG

Remark: Others frequency test result margin all >6dB of the limit.

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#### 9. BAND EDGE COMPLIANCE TEST

## 9.1. Test Equipment

Band Edge Co	Band Edge Compliance test						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2012/11		
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2012/11		
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11		
4	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2012/11		

#### 9.2. Test Information

EUT	Wireless controller	
Firm Name	BELLMATE HOLDINGS LTD.	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Test distance	3 Meter	
Operator	Duke	

# 9.3. Test procedure

- 1. The EUT operates at TX mode. The transmitter channel are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setp 1,and the EUT operates at Normal test mode to verify the largest spurious emissions power.

#### 9.4. Test Results

#### PASSED.

The EUT operates at TX test mode. The transmitter channel are tested to verify the band edge emissions.

	Channel	Test Result Highest Emission (dBuv/m)				
Test Mode	Marked Frequency	Horizontal		Vertical		
	rrequericy	Peak	Limit	Peak	Limit	
Z955W	614MHz	41.54	46	41.15	46	
2955	960MHz	41.84	54	40.83	54	
RZ251W	614MHz	40.09	46	40.58	46	
KZZSTVV	960MHz	40.96	54	41.40	54	
ZDA250W	614MHz	40.43	46	40.59	46	
ZDAZJOVV	960MHz	41.58	54	40.84	54	
RZ250W	614MHz	39.91	46	40.97	46	
1\25000	960MHz	41.29	54	40.58	54	
Remark: Other Spurious Emissions mini margin all >6 dB of Limit.						

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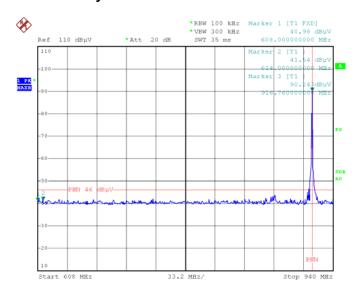
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#### Band Edges(Z955W Low) Detector mode:Peak

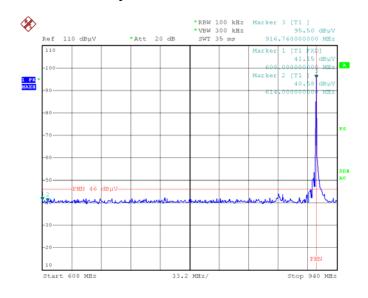
## **Polarity:Horizontal**



Date: 11.APR.2013 17:07:39

#### Band Edges(Z955W Low) Detector mode:Peak

## Polarity:Vertical



Date: 11.APR.2013 17:05:02

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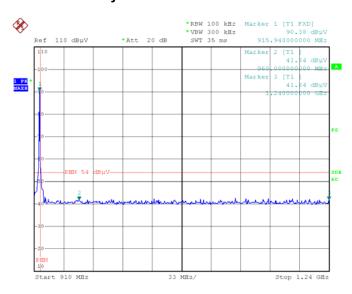
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#### Band Edges(Z955W High) Detector mode:Peak

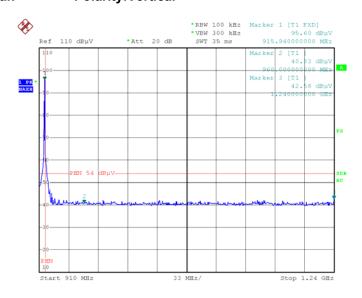
#### **Polarity:Horizontal**



Date: 11.APR.2013 17:11:22

#### Band Edges(Z955W High) Detector mode:Peak

# Polarity:Vertical



Date: 11.APR.2013 17:13:32

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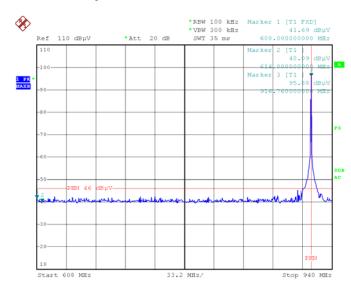
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# Band Edges(RZ251W Low) Detector mode:Peak

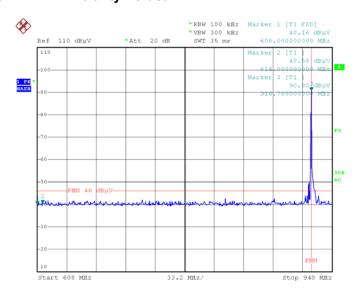
#### **Polarity:Horizontal**



Date: 11.APR.2013 17:23:43

# Band Edges(RZ251W Low) Detector mode:Peak

# Polarity:Vertical



Date: 11.APR.2013 17:22:02

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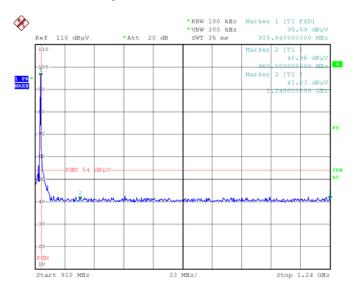
E-mail: cts@cts-lab.com.cn





# Band Edges(RZ251W High) Detector mode:Peak

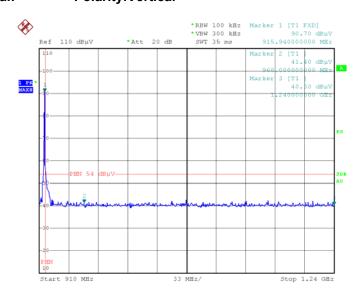
#### **Polarity:Horizontal**



Date: 11.APR.2013 17:17:50

#### Band Edges(RZ251W High) Detector mode:Peak

## Polarity:Vertical



Date: 11.APR.2013 17:19:07

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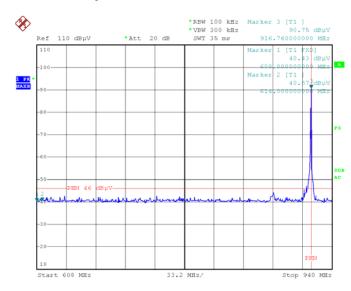
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# Band Edges(ZDA250W Low) Detector mode:Peak

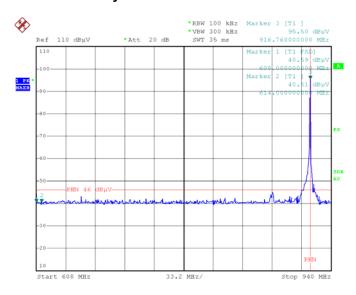
# Polarity:Horizontal



Date: 11.APR.2013 18:16:46

# Band Edges(ZDA250W Low) Detector mode:Peak

#### **Polarity:Vertical**



Date: 11.APR.2013 18:19:58

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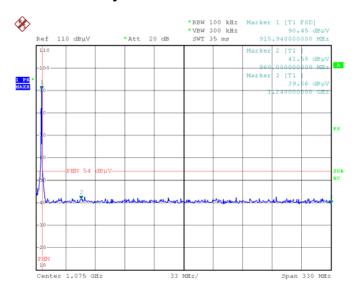
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# Band Edges(ZDA250W High) Detector mode:Peak P

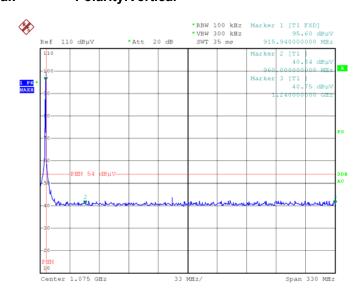
## Polarity:Horizontal



Date: 11.APR.2013 18:26:21

#### Band Edges(ZDA250W High) Detector mode:Peak

#### Polarity:Vertical



Date: 11.APR.2013 18:24:20

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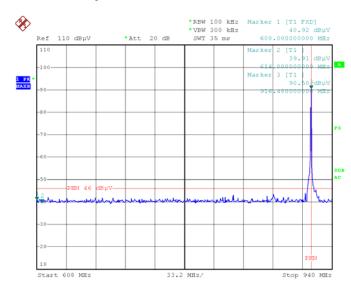
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# Band Edges(RZ250W Low) Detector mode:Peak

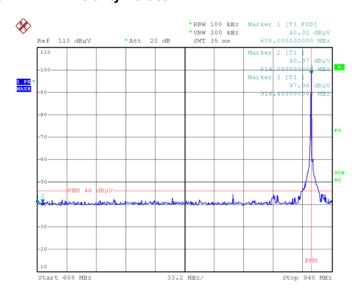
#### **Polarity:Horizontal**



Date: 11.APR.2013 17:49:05

# Band Edges(RZ250W Low) Detector mode:Peak

# Polarity:Vertical



Date: 11.APR.2013 17:47:04

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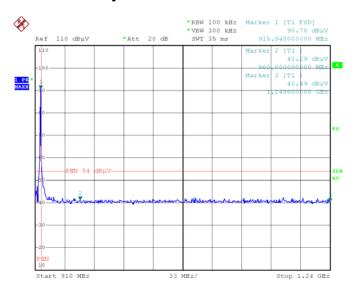
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# Band Edges(RZ250W High) Detector mode:Peak

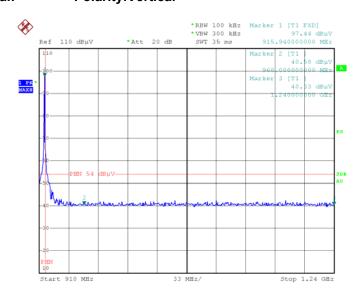
### **Polarity:Horizontal**



Date: 11.APR.2013 17:51:46

# Band Edges(RZ250W High) Detector mode:Peak

## Polarity:Vertical



Date: 11.APR.2013 17:54:06

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# 10 20 dB BANDWIDTH TEST

# 10.1. Test Equipment

20 dB I	20 dB Bandwidth test						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2012/11		
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2012/11		
3	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2012/11		
4	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11		

## 10.2. Test Information

EUT	Wireless controller
Firm Name	BELLMATE HOLDINGS LTD.
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Operator	Duke

# 10.3. Test Results PASSED.

The testing data was attached in the next table.

Test Model	Frequency (MHz)	20dB Bandwidth (MHz)
Z955W	916.0	0.510
RZ251W	916.0	0.546
ZDA250W	916.0	0.606
RZ250W	916.0	0.588

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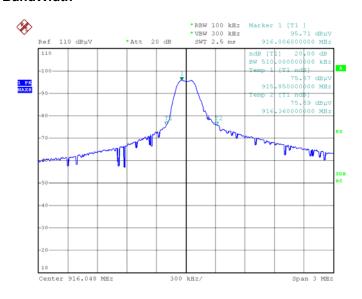
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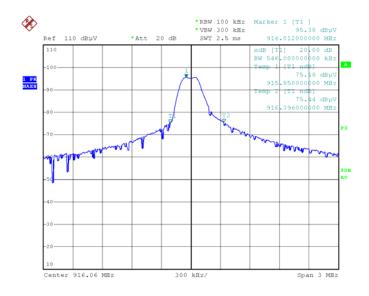


#### Z955W 20dB BandWidth



Date: 11.APR.2013 16:55:53

#### RZ251W 20dB BandWidth



Date: 11.APR.2013 17:28:29

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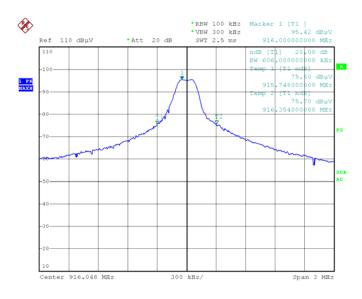
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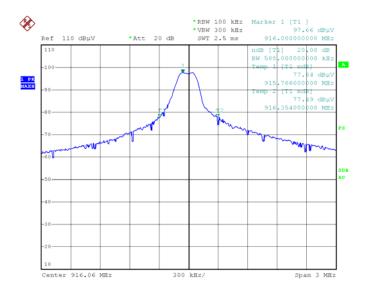


#### ZDA250W 20dB BandWidth



Date: 11.APR.2013 18:33:18

#### RZ250W 20dB BandWidth



Date: 11.APR.2013 17:43:24

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# 11. 99% BANDWIDTH

# 11.1 Test procedure

According to RSS-210 Annex 8 and RSS-Gen 4.6.1 The transmitter output is connected to the spectrum analyzer. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used given that a peak or peak hold may produce a wider bandwidth than actual. The sweep time is coupled.

## 11.2. Test Equipment

Band I	Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2012/11	
2	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2012/11	
3	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2012/11	
4	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11	

#### 11.3. Test Information

EUT	Wireless controller
Firm Name	BELLMATE HOLDINGS LTD.
Operating Condition	Battery 3V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	12~25 December 2012
Operator	Duke
MODEL NO	T631W-2

#### 11.4. Test Results

#### PASSED.

The testing data was attached in the next table.

Test Model	Frequency (MHz)	Bandwidth (MHz)
Z955W	916.0	0.936
RZ251W	916.0	0.894
ZDA250W	916.0	0.894
RZ250W	916.0	1.014

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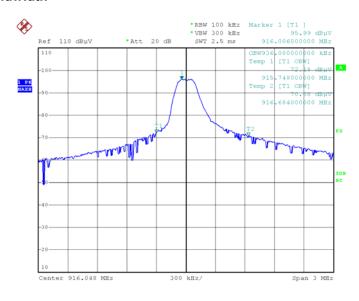
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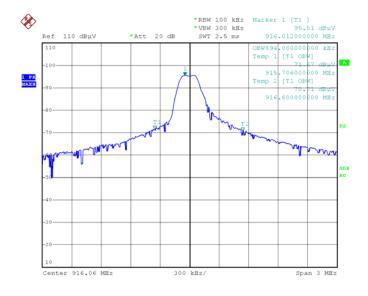


#### Z955W 99% Bandwidth



Date: 11.APR.2013 16:59:50

#### RZ251W 99% Bandwidth



Date: 11.APR.2013 17:32:44

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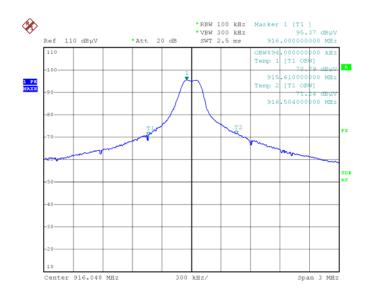
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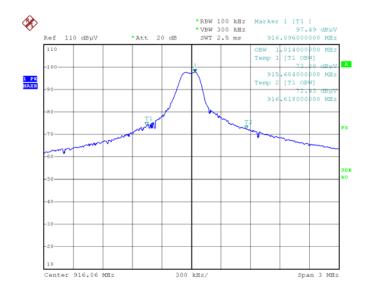


#### ZDA250W 99% Bandwidth



Date: 11.APR.2013 18:38:17

#### RZ250W 99% Bandwidth



Date: 11.APR.2013 17:39:28

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## 12. DEVIATION TO TEST SPECIFICATIONS

The following identical model(s):

T955WH, T955W, R251W, R250W, B270WH, **B270W** 

Belong to the tested device:

Product description: Wireless controller

Model name: Z955W / RZ251W / ZDA250W / RZ250W / Z270W / Z260W

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