

RF Exposure Evaluation Report

Product Name	ROG BALTEUS Qi
Model No.	NH01
FCC ID.	EMJMNH01

Applicant	Primax Electronics Ltd
Address	669 Ruey Kuang Road Neihu 114, Taipei, Taiwan

Date of Receipt	Aug. 16, 2018
Date of Declaration	Oct. 05, 2018
Report No.	1880235R-RFUSP02V00

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Oct. 05, 2018
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Product Name	ROG BALTEUS Qi
Applicant	Primax Electronics Ltd
Address	669 Ruey Kuang Road Neihu 114, Taipei, Taiwan
Manufacturer	Primax Electronics Ltd
Model No.	NH01
FCC ID.	EMJMNH01
EUT Rated Voltage	DC 5V
EUT Test Voltage	DC 5V
Trade Name	ASUS
Applicable Standard	FCC 47 CFR 1.1310 KDB 680106 D01
Test Result	Complied

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Tested By : Anson Lu
 (Engineer / Anson lu)

Approved By : Vincent Lin
 (Director / Vincent Lin)

1. RF Exposure Evaluation

1.1. Test Equipment

Equipment	Manufacturer	Model No./Serial No.	Last Cal.	
X	EM Field Meter	ENAC	SMP2 / 18SN0747	Apr., 2018

1.2. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/F	4.89/F	*(900/F ²)	6
30-300	61.4	0.163	1	6
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/F	2.19/F	*(180/F ²)	30
300-1500	27.5	0.073	0.2	30
300-1500	--	--	F/1500	30
1500-100,000	--	--	1	30

Note:

1. RF Exposure evaluation should be conducted assuming a separation distance of 10 cm
2. The EUT is including four models for different marketing requirement.

1.3. Test Procedure

The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils per the FCC 's request. (reference KDB 680106 D01 RF Exposure Wireless Charging Apps v03)

The temperature and related humidity: 18°C and 62% RH.

1.4. Test Result of RF Exposure Evaluation for WPT

<i>Items to be covered</i>	<i>Answer from applicant</i>
Power transfer frequency is less than 1 MHz.	Operation frequency range is 110-190kHz.
Output power from each primary coil is less than or equal to 15 watts.	Output Power equal to 5W.
The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes, allow coupling only between individual pairs of coils.
Client device is placed directly in contact with the transmitter.	Yes, meet the requirements.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes, meet the requirements.
The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	<p>*Electric Field Strength (V/m) @20cm = 1.12 V/m (< 307 V/m) MPE Limit (614 V/m) *50% =307 V/m</p> <p>*Magnetic Field Strength (A/m) @20cm =0.003 A/m (< 0.815 A/m) MPE Limit (1.63 A/m) *50%= 0.815 A/m</p>

Product : ROG BALTEUS Qi
 Test Item : RF Exposure Evaluation
 Test Site : No.7 Chamber
 Test Date : 2018/09/18

E-Field Emissions

Test Position	Frequency (MHz)	Measurement Level @15cm (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Side 1	0.142	0.720	614.0	307.0	PASS
Side 2	0.142	0.920	614.0	307.0	PASS
Side 3	0.142	0.300	614.0	307.0	PASS
Side 4	0.142	0.370	614.0	307.0	PASS

Test Position	Frequency (MHz)	Measurement Level @20cm (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Top	0.142	1.120	614.0	307.0	PASS
Bottom	0.142	0.740	614.0	307.0	PASS

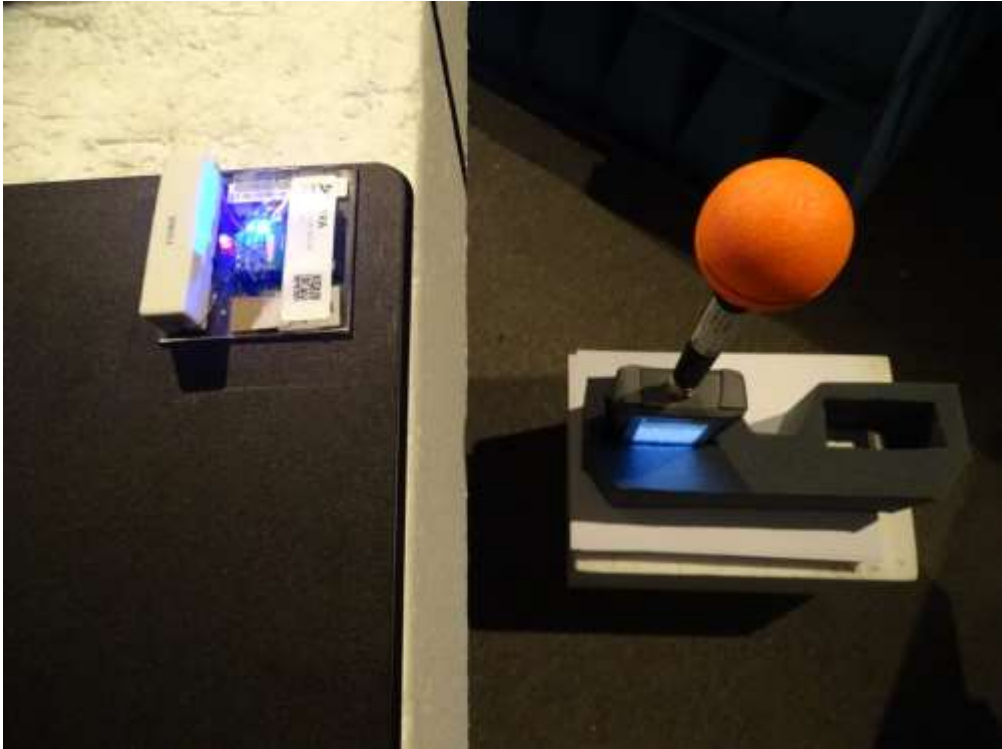
H-Field Emissions

Test Position	Frequency (MHz)	Measurement Level @15cm (A/m)	Limit (A/m)	50% Limit (A/m)	Result
Side 1	0.142	0.002	1.63	0.815	PASS
Side 2	0.142	0.003	1.63	0.815	PASS
Side 3	0.142	0.0009	1.63	0.815	PASS
Side 4	0.142	0.001	1.63	0.815	PASS

Test Position	Frequency (MHz)	Measurement Level @20cm (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Top	0.142	0.003	1.63	0.815	PASS
Bottom	0.142	0.002	1.63	0.815	PASS

1.5. EUT Test Setup Photographs

Side 1



Side 2



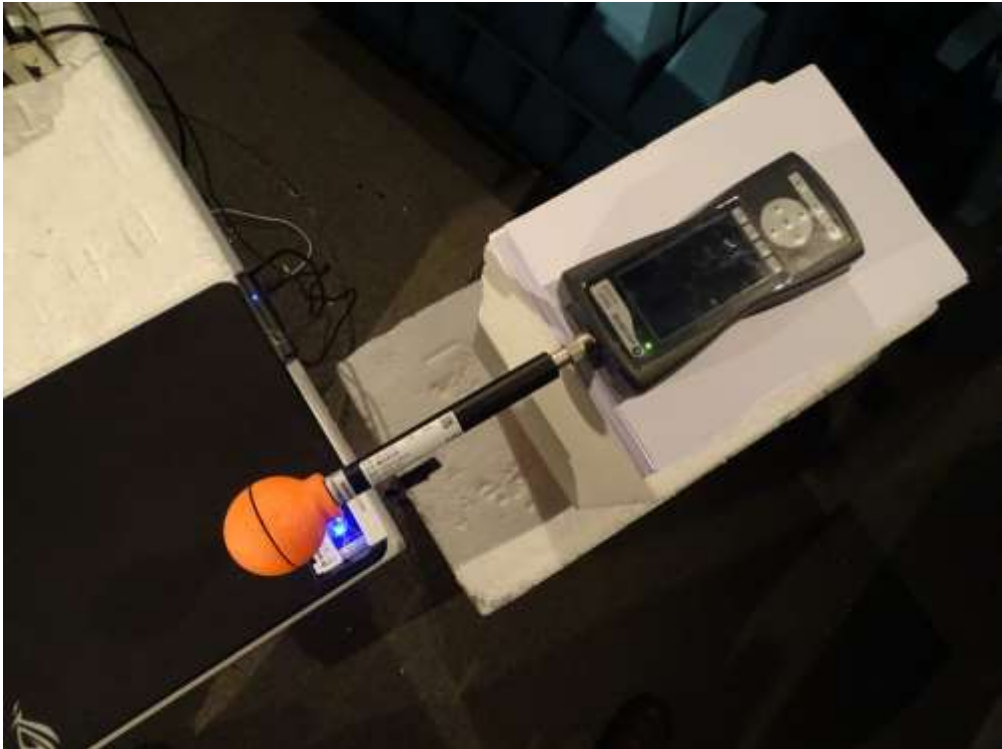
Side 3



Side 4



Top



Bottom

