



ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : OT-203-RWD-066

AGR No. : A19DA-366R1

Applicant : BROS&COMPANY INC.

Address : A-402, InnoValley, 253, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

Manufacturer : BROS&COMPANY INC.

Address :A-402, InnoValley, 253, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

Type of Equipment : EYES8

FCC ID. : 2AQIS-POUT-02001

Model Name : POUT-02001

Serial number : N/A

Total page of Report : 12 pages (including this page)

Date of Incoming : January 02, 2020

Date of issue : March 25, 2020

SUMMARY

The equipment complies with the regulation; FCC CFR 47 PART 1.1310

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by:

Ha-Ram Lee / Manager ONETECH Corp.

Approved by:

Jae-Ho Lee / General Manager ONETECH Corp.

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Revision History

Issue Report No.	Issued Date	Revisions	Effect Section
OT-203-RWD-066	March 25, 2020	Initial Release	All



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1. VERIFICATION OF COMPLIANCE

Applicant : BROS&COMPANY INC.

Address : A-402, InnoValley, 253, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

Contact Person : KIYEOL PARK / CEO

Telephone No. : +82-31-286-8646

FCC ID : 2AQIS-POUT-02001

Model Name : POUT-02001

Serial Number : N/A

Date : March 25, 2020

EQUIPMENT CLASS	DCD – Part 15 Low Power Transmitter Below 1 705 kHz
KIND OF EQUIPMENT	EYES8
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC CFR 47 PART 1.1310
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	No
FINAL TEST WAS CONDUCTED ON	3 m, Semi Anechoic Chamber

^{-.} The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.





2. GENERAL INFORMATION

2.1 Product Description

The BROS&COMPANY INC., Model: POUT-02001 (referred to as the EUT in this report) is an EYES8. Product specification information described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Wireless Charger
OPERATING FREQUENCY	111 kHz ~ 205 kHz
RATED RF OUTPUT POWER	54.0 dBμV/m
ANTENNA TYPE	Coil Antenna
MODULATION	ASK
RATED SUPPLY VOLTAGE	DC 5.0 V, DC 9.0 V, DC 12.0 V

2.2 Model Differences

-. None

3. EUT MODIFICATIONS

-. None





4. RADIO FREQUENCY EXPOSURE

4.1 Environmental evaluation and exposure limit

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), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter

Frequency Range [MHz]	Electric Field Strength [V/m]	Magnetic Field	Magnetic Field Power Density Strength [A/m] [mW/cm²]								
[MHz] Strength [V/m] Strength [A/m] [mW/cm²] [minutes] (A) Limits for Occupational / Control Exposures											
0.3 – 3.0 614 1.63 *(100) 6											
3.0 – 30	1 842/f	4.89/f	*(900/f ²⁾	6							
30 – 300	61.4	0.163	1.0	6							
300 – 1 500			f/300	6							
1 500 – 100 000			5	6							
	(B) Limits for Ge	eneral Population/Unconti	rolled Exposure								
0.3 – 3.0	614	1.63	*(100)	30							
3.0 – 30	824/f	2.19/f	*(180/f ²⁾	30							
30 – 300	27.5	0.073	0.2	30							
300 – 1 500			f/1 500	30							
1 500 – 100 000			1.0	30							

f = frequency in MHz

Note 1 to Table 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Note 2 to Table 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

^{* =} Plane wave equivalent power density



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The EUT does meet the requirement of section 5. b) of KDB 680106 D01 RF Exposure Wireless Charging Apps v03

- 1. Power transfer frequency is less than 1MHz
- 2. Output power from each primary coil is less than 15 watts.
- 3. 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.
- 4. Client devices is inserted in or placed directly in contact with the transmitter.
- 5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- 6. 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.

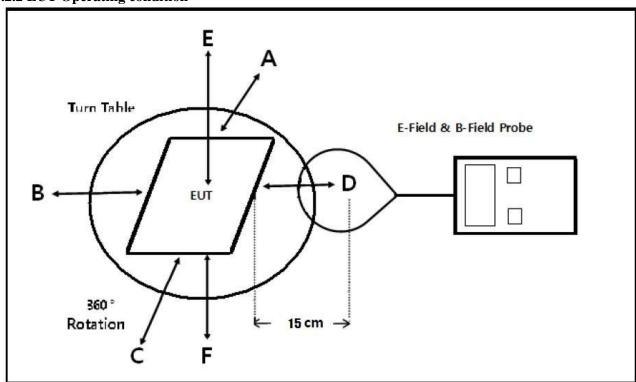


4.2 H / E field strength

4.2.1 EUT Operating condition

Mode	Charging current	Description
	1 000 mA	Using Max load
Charging Mode With load	500 mA	Using Mid load
	100 mA	Using Min load

4.2.2 EUT Operating condition



4.2.3 Measurement procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

Remark: The EUT's test position A, B, C, D, E and F is valid for the E and H field measurements.



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4.2.4 E - field strength (5V)

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Limits [V/m]
Charging Mode With Max. load	66.73	64.93	68.23	64.34	81.99	50.87	307.00	614.00
Charging Mode With Mid. load	64.93	63.44	67.33	62.84	81.09	49.67	307.00	614.00
Charging Mode With Min. load	63.74	61.34	65.83	61.34	79.30	47.58	307.00	614.00

4.2.5 H - field strength (5V)

Mode	Position A [A/m]	Position B	Position C	Position D	Position E	Position F	50% Limits [A/m]	Limits [A/m]
Charging Mode With Max. load	0.178	0.173	0.182	0.171	0.218	0.135	0.815	1.630
Charging Mode With Mid. load	0.173	0.169	0.179	0.167	0.216	0.132	0.815	1.630
Charging Mode With Min. load	0.170	0.163	0.175	0.163	0.211	0.127	0.815	1.630

Tested by: Sieon Lee / Assistant Manager



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4.2.6 E - field strength (9V)

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Limits [V/m]
Charging Mode With Max. load	70.92	68.82	71.82	68.23	84.98	55.36	307.00	614.00
Charging Mode With Mid. load	69.42	67.63	70.02	67.33	83.49	54.46	307.00	614.00
Charging Mode With Min. load	67.03	66.13	68.82	65.83	81.39	53.26	307.00	614.00

4.2.7 H - field strength (9V)

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Limits [A/m]
Charging Mode With Max. load	0.189	0.183	0.191	0.182	0.226	0.147	0.815	1.630
Charging Mode With Mid. load	0.185	0.180	0.186	0.179	0.222	0.145	0.815	1.630
Charging Mode With Min. load	0.178	0.176	0.183	0.175	0.217	0.142	0.815	1.630

Tested by: Sieon Lee / Assistant Manager



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4.2.8 E - field strength (12V)

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Limits [V/m]
Charging Mode With Max. load	73.61	71.82	75.11	71.52	87.97	58.65	307.00	614.00
Charging Mode With Mid. load	73.01	70.02	73.91	70.92	87.08	57.75	307.00	614.00
Charging Mode With Min. load	71.82	68.82	72.71	68.52	84.98	56.56	307.00	614.00

4.2.9 H - field strength (12V)

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Limits [A/m]
Charging Mode With Max. load	0.196	0.191	0.200	0.190	0.234	0.156	0.815	1.630
Charging Mode With Mid. load	0.194	0.186	0.197	0.189	0.232	0.154	0.815	1.630
Charging Mode With Min. load	0.191	0.183	0.193	0.182	0.226	0.150	0.815	1.630

Tested by: Sieon Lee / Assistant Manager



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4.3 LIST OF TEST EQUIPMENT

No.	EQUIPMENTS	MFR.	MODEL	SER. NO.	LAST CAL	DUE CAL	USE
1	Exposure Level Meter	NARDA	ELT-400	H-0013	Jun. 04, 2019	One Year	