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RF Exposure Evaluation

Product : AquaHue Bluetooth Smart LED Aquarium Light

Model Number: AH-1015; AH-1020; AH-1030; AH-1040

Applicant: Yalumi Corporation

Address: 14125 Telephone Ave., STE #7, Chino, CA 91710,

USA

Issued By: Interocean EMC Technology Corp.

Interocean EMC Technology Tin-Fu Laboratory

LAB Location: No. 5-2, Lin 1, Tin-Fu, Lin-Kou Dist., New Taipei City,

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Report Issued :	2019/09/10	
Project Engineer :	Ivan Wang	Approved: KCChen
	Ivan Wang	K.C. Chen

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1 RF Exposure Evaluation

Portable Device

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB 447498_D01_V06 4.3.1(a) SAR exclusion thresholds by: [max. power of channel, including tune-up tolerance, mW]/(min, test separation distances, mm)]*[$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

Maximum measured transmitter power

BLE mode

Frequency Range (MHz)	Maximum measured transmitter power (dBm)	Tune-up power tolerance (dB)	Total Maximum power (dBm)	Total Maximum power (mW)
2402	-16.10	(±)2	-14.10	0.00004
2440	-16.71	(±)2	-14.71	0.00003
2480	-17.28	(±)2	-15.28	0.00002

 $(0.00004/5)*(\sqrt{2.402}) = 0.00001 \le 7.5$

Conclusion:

No SAR is required.

SIMULTANEOUS TRANSMISSION EVALUATION

N/A