RF EXPOSURE EVALUATION

Report No.	:	AY0021380(3) Date: Mar 11, 2019
Application No.	:	LY000793(8)
Applicant	:	KONDOR LIMITED CHRISTCHURCH BUSINESS PARK, RADAR WAY, BH23 4FL. UK
Sample Description	:	One(1) item of submitted sample stated to be

Product Descriptin	: KitSound DIGGIT XL
Model	: KSDIGXL
Sample registration No.	: RY047348-002(6)
Radio Frequency	: 2402 – 2480MHz
Supply voltage	: DC7.4V (Li-ion rechargeable battery) DC5.0V (Charging pad)
No. of submitted sample	: 1

FCC ID	:	2ADFF-KSDIGXL
Date Received	:	Jan 08, 2019
Evaluation Period	:	Jan 08, 2019 to Mar 8, 2019
Evaluation Method	:	447498 D01 General RF Exposure Guidance v06 - RF Exposure Procedure and Equipment Authorization Policies for Mobile and Portable Devices
Conclusion	:	The transmissionof Bluetooth operation were satisfied RF exposure requirements.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____

Mr. WONG Lap-pong, Andrew
Manager

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Simultaneous power

No simulateous transmission.

RF Exposure Evaluation

According to KDB 447498 D01 clause 7, power density at 20cm is calculated according to the maximum e.i.r.p. and compare with MPE limit for general population/uncontrolled in OET Bulletin 65

[(*max. power of channel, including tune-up tolerance, mW*) / (*min. test separation distance, mm*)] · [√f(GHz)]

Calculation

- Frequency range : 2402 – 2480MHz
- Max. e.i.r.p., including tune-up tolerance : 15.7mW
- Minimum separation distances : 20cm
- Power density at 20cm : 0.00312mW/cm^2

$$PD = \frac{P}{4*\pi*d}$$

PD: Power Density in mW/cm^2
P: Radiated Power in mW
d: distance in cm

Requirements: ≤ 1.0mW/cm^2 for general population/uncontrolled exposure between 1500 – 100,000MHz

Conclusion

The calculated power density at 20cm is 0.00312mW/cm^2 which is less than the MPE limit, 1.0mW/cm^2 for general population/uncontrolled exposure with frequency range from 1500 – 100,000MHz. It comply the RF exposure requirement under KDB 447498 clause 7.

***** End of Evaluation *****

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