RF Exposure Evaluation Report

Equipment under Test: Interactive IoT Device

Model No. : NCP IOT-01

Applicant: New Century Products Co., Ltd.

Address : 1F., No. 415, Sec. 5, Nanjing E. Rd., Songshan

Dist., Taipei City

Date of Receipt : October 14, 2021

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Prepared by

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Page : 2/2

1 Requirement for Compliance

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

1. For the test separation distance <= 50mm

$$\frac{\text{Max.Tune up Power}_{(mW)}}{\text{Min.Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \leq 3.0$$

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2. For the test separation distance > 50 mm, and the frequency at 100 MHz to 1500MHz $\left[(\text{Threshold at } 50 \text{ mm in Step 1}) + (\text{Test Separation Distance} 50 \text{ mm}) \times \left(\frac{f_{(\text{MHz})}}{150} \right) \right]_{(\text{mW})}$
- 3. For the test separation distance > 50 mm, and the frequency at > 1500 MHz to 6GHz $[(Threshold at 50 mm in Step 1) + (Test Separation Distance 50 mm) \times 10]_{(mW)}$

Frequency	Maximium		Antenna	Calculated	Limit
Range	Power		distance	Result	(mW)
(MHz)	(dBm)	(mW)	(mm)	(mW)	
2402~2480	-8.4	0.1	5	0.03	3.0

2 Result

According to result, the SAR testing for this device is not required.

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