

TEST REPORT

Applicant: Adept Industries Limited
Address: 9-10.20F, Mega Trade Center, 1 Mei Wan ST. Tsuen Wan HongKong, China
Equipment Type: Wireless follow sensor
Model Name: Sidekick 1.0
Brand Name: ALPHARD
FCC ID: 2ANDF-WFSMAIN
Test Standard: KDB 447498 D04 v01
Test Date: Oct. 25, 2022 - Nov. 29, 2022
Date of Issue: Nov. 30, 2022

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Julie Zhu

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(Chief Engineer)

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Revision History

| Version | Issue Date | Revisions Content |
|----------------|----------------------|--|
| <u>Rev. 01</u> | <u>Nov. 21, 2022</u> | <u>Initial Issue</u> |
| <u>Rev. 02</u> | <u>Nov. 30, 2022</u> | <u>Corrected the data related to UBW in Section 5.1&5.2&5.3.</u> |

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1 GENERAL INFORMATION

1.1 Test Laboratory

| | |
|--------------|--|
| Name | Shenzhen BALUN Technology Co., Ltd. |
| Address | Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100 |

1.2 Test Location

| | |
|---------------------------|---|
| Name | Shenzhen BALUN Technology Co., Ltd. |
| Location | <input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| | <input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Accreditation Certificate | The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. |

2 PRODUCT INFORMATION

2.1 Applicant Information

| | |
|-----------|--|
| Applicant | Adept Industries Limited |
| Address | 9-10.20F, Mega Trade Center, 1MeiWan ST. Tsuen Wan HongKong, China |

2.2 Manufacturer Information

| | |
|--------------|---|
| Manufacturer | GuangZhou Prominent Industrial Co., Ltd |
| Address | Room 401, Jinkeng Industrial Road, Nancun Village, Panyu District, Guangzhou, Guangdong 511400, China |

2.3 Factory Information

| | |
|---------|-----|
| Factory | N/A |
| Address | N/A |

2.4 General Description for Equipment under Test (EUT)

| | |
|---|------------------------|
| EUT Name | Wireless follow sensor |
| Model Name Under Test | Sidekick 1.0 |
| Series Model Name | N/A |
| Description of Model name differentiation | N/A |
| Hardware Version | 5.0 |
| Software Version | 1.0 |
| Dimensions (Approx.) | N/A |
| Weight (Approx.) | N/A |

2.5 Ancillary Equipment

| | | |
|-----------------------|----------------------|----------------------|
| Ancillary Equipment 1 | Battery | |
| | Brand Name | PinGe |
| | Model No. | 734253(1S2P)-3800mAh |
| | Serial No. | N/A |
| | Capacity | 3800mAh |
| | Rated Voltage | 3.7 V |
| | Limit Charge Voltage | 4.2 V |

2.6 Technical Information

| | |
|-----------------------------------|----------------------|
| Network and Wireless connectivity | Bluetooth (BLE), UWB |
|-----------------------------------|----------------------|

The requirement for the following technical information of the EUT was tested in this report:

| | | |
|-------------------|--|-------------------|
| Operating Mode | Bluetooth; UWB | |
| Frequency Range | Bluetooth | 2400 ~ 2483.5 MHz |
| | UWB | 6240 ~ 6739.2 MHz |
| Antenna Type | Bluetooth | PCB Antenna |
| | UWB | PCB Antenna |
| Exposure Category | General Population/Uncontrolled Exposure | |
| EUT Stage | Portable Device | |

3 SUMMARY OF TEST RESULT

3.1 Test Standards

| No. | Identity | Document Title |
|-----|--------------------|---|
| 1 | KDB 447498 D04 v01 | KDB 447498 D04 Interim General RF Exposure Guidance v01 |

4 DEVICE CATEGORY AND LEVELS LIMITS

FCC KDB 447498 Derives:

According with FCC KDB 447498 D04, Appendix A, Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

When maximum available power each individual transmitting antenna within the same time averaging period is ≤ 1 mW, and the nearest parts of the antenna structures of the simultaneously operating transmitters are separated by at least 2 cm.

When the aggregate maximum available power of all transmitting antennas is ≤ 1 mW in the same time-averaging period.

5 ASSESSMENT RESULT

5.1 Output Power

| Bluetooth | | | |
|--|--------------|----------------|--------------|
| Mode | GFSK (BLE) | | |
| | Low Channel | Middle Channel | High Channel |
| Conducted Power (dBm) | -8.09 | -8.50 | -8.77 |
| Antenna Gain (dBi) | -0.24 | | |
| EIRP (dBm) | -8.33 | -8.74 | -9.01 |
| Note: This report listed the maximal case power value, please refer to Report No. BL-SZ2290653-601 for more details. | | | |

| UWB | |
|--|--------|
| Mode | CH5 |
| EIRP (dBm) | -38.58 |
| Note: This report listed the maximal case power value, please refer to Report No. BL-SZ2290653-602 for more details. | |

5.2 Tune-up power

| Mode | Conducted Power Range (dBm) | EIRP Range (dBm) | ERP Range (dBm) |
|---|-----------------------------|------------------|------------------|
| Bluetooth | [-10.09, -8.09] | [-10.33, -8.33] | [-12.48, -10.48] |
| UWB | / | [-40.58, -38.58] | [-42.73, -40.73] |
| Note1: ERP= EIRP -2.15dB. | | | |
| Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth. | | | |

5.3 RF Exposure Evaluation Result

| Mode | Calculation Frequency (MHz) | Tune-up limit power (dBm) | Tune-up limit power (mW) | Threshold Value(mW) | Verdict |
|---|-----------------------------|---------------------------|--------------------------|---------------------|------------|
| Bluetooth | 2480 | -8.09 | 0.1552 | 1.00 | Compliance |
| UWB | 6489.7 | -40.73 | 0.0001 | 1.00 | Compliance |
| Note: The available maximum time-averaged power is no more than 1 Mw, a single RF source is exempt. | | | | | |

5.4 Collocated Power Calculation

| Evolution mode | Frequency(MHz) | Power(mW) | Σ Power(mW) of Bluetooth + UWB | Verdict |
|--|----------------|-----------|---|---------|
| Bluetooth | 2480 | 0.1552 | 0.1553 | Pass |
| UWB | 6489.7 | 0.0001 | | |
| Note: The aggregate maximum available power of all transmitting antennas is ≤ 1 mW in the same time-averaging period. | | | | |

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

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--END OF REPORT--