

| RF Exposure Evaluation Report | | | | | |
|--|---|----------------------------------|--|--|--|
| Report Reference No | MTEB22111522-H 2A57D-GG-AT50EW | | | | |
| Compiled by (position+printed name+signature): | File administrators Alisa Luo | Aisa Luo Sunny Deng Wetter | | | |
| Supervised by (position+printed name+signature): | Test Engineer Sunny Deng | Sunny Deng | | | |
| Approved by (position+printed name+signature): | Manager Yvette Zhou | futter | | | |
| Date of issue | December 12,2022 | | | | |
| Representative Laboratory Name .: | Shenzhen Most Technology Ser | rvice Co., Ltd. | | | |
| Address: | No.5, 2nd Langshan Road, North Nanshan, Shenzhen, Guangdong | | | | |
| Applicant's name | ZHUHAI NINESTAR INFORMAT | ION TECHNOLOGY CO.,LTD | | | |
| Address: | NO.3883,Zhuhai Avenue ,Xiangzh Guangdong,P.R. China. | nou District,Zhuhai, | | | |
| Test specification/ Standard: | 47 CFR Part 1.1307 | | | | |
| | 47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06 | | | | |
| TRF Originator | · · · · · · | | | | |
| Shenzhen Most Technology Service | | | | | |
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| Test item description | Portable Lable Printer | | | | |
| Trade Mark: | G&G | | | | |
| Manufacturer: | ZHUHAI NINESTAR INFORMATI | ON TECHNOLOGY CO.,LTD | | | |
| Model/Type reference | GG-AT 50EW | | | | |
| Listed Models | GG-D1100MW, GG-D110ACW, R | RM-GG-950, GG-D15 | | | |
| Modulation Type: | GFSK, π/4DQPSK | | | | |
| Operation Frequency: | 2402MHz to 2480MHz | | | | |
| Hardware Version | BR2551e | | | | |
| Software Version | BR8051A01B_00_210311_r605 | 5 | | | |
| Rating: | DC 5V by USB Port DC 7.4V by Battery | | | | |
| Result: | PASS | | | | |

TEST REPORT

| Equipment under Test | : | Portable Lable Printer |
|----------------------|---|--|
| Model /Type | : | GG-AT 50EW |
| Listed Models | : | GG-D1100MW, GG-D110ACW, RM-GG-950, GG-D15 |
| Remark | | Only the model name is different |
| Applicant | : | ZHUHAI NINESTAR INFORMATION TECHNOLOGY CO., LTD |
| Address | : | NO.3883,Zhuhai Avenue ,Xiangzhou District,Zhuhai, Guangdong,P.R. China. |
| Manufacturer | : | ZHUHAI NINESTAR INFORMATION TECHNOLOGY CO., LTD |
| Address | : | NO.3883,Zhuhai Avenue ,Xiangzhou District,Zhuhai, Guangdong,P.R. China. |

| Test Result: | PASS |
|--------------|------|
|--------------|------|

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. <u>Revision History</u>

| Revision | Issue Date | Revisions | Revised By |
|----------|------------|---------------|------------|
| 00 | 2022-12-12 | Initial Issue | Alisa Luo |
| | | | |
| | | | |

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷ The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

2.1.3 EUT RF Exposure

Antenna Gain: 1.32dbi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.4 in linear scale. Output Power Into Antenna & RF Exposure Evaluation Distance:

BLE

| GFSK | | | | | | |
|------------------|-------------------|-------------------|-----------------------|--|--|--|
| Test channel | Peak Output Power | Tune up tolerance | Maximum tune-up Power | | | |
| | (dBm) | (dBm) | (dBm) | | | |
| Lowest(2402 MHz) | -3.628 | -3.628±1 | -2.628 | | | |
| Middle(2440MHz) | -3.789 | -3.789±1 | -2.789 | | | |
| Highest(2480MHz) | -4.063 | -4.063±1 | -3.063 | | | |

BLE

| Worst case: GFSK | | | | | | |
|-----------------------------------|--------------------------|--------|------------|-----------|-----------|-----------|
| Channel Maximum Peak Conducted | Maximum tune-up Power | | Calculated | Exclusion | SAR Test | |
| | Output Power (dBm) | (dBm) | (mW) | value | threshold | Exclusion |
| Middle(2402MHz) | -3.628 | -2.628 | 055 | 0.1694 | 3.0 | Yes |

| EDR | | | | | | |
|------------------|-------------------|-------------------|-----------------------|--|--|--|
| GFSK | | | | | | |
| Test channel | Peak Output Power | Tune up tolerance | Maximum tune-up Power | | | |
| (dBm) | (dBm) | (dBm) | | | | |
| Lowest(2402 MHz) | -3.707 | -3.707±1 | -2.707 | | | |
| Middle(2441MHz) | -3.910 | -3.910±1 | -2.910 | | | |
| Highest(2480MHz) | -4.418 | -4.418±1 | -3.418 | | | |

| π/4DQPSK | | | | | | |
|------------------|-------------------|-------------------|-----------------------|--|--|--|
| Test channel | Peak Output Power | Tune up tolerance | Maximum tune-up Power | | | |
| | (dBm) | (dBm) | (dBm) | | | |
| Lowest(2402 MHz) | -4.778 | -4.778±1 | -3.778 | | | |
| Middle(2441MHz) | -4.985 | -4.985±1 | -3.985 | | | |
| Highest(2480MHz) | -5.292 | -5.292±1 | -4.292 | | | |

EDR

| Worst case: GFSK | | | | | | |
|--|--------------------------|--------|------------|-----------|-----------|-----------|
| Channel Maximum Peak Conducted Output Power (dBm) | Maximum tune-up Power | | Calculated | Exclusion | SAR Test | |
| | Output Power | (dBm) | (mW) | value | threshold | Exclusion |
| Middle(2402MHz) | -3.707 | -2.707 | 0.54 | 0.166 | 3.0 | Yes |

.....THE END OF REPORT.....