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Maximum Permissible Exposure Evaluation

FCC ID: 2A2ZP-SD810

1. Client Information

| Applicant | 1 | Shenzhen BaoYouFa Trading Co., Ltd. |
|--------------|------------|--|
| Address | • | T1-3211, Vanke Shennan Square, 2011 Shennan East Road, Xinnan Community, Nanhu Street, Luohu District, Shenzhen, China |
| Manufacturer |) [| Shenzhen BaoYouFa Trading Co., Ltd. |
| Address | (1) | T1-3211, Vanke Shennan Square, 2011 Shennan East Road, Xinnan Community, Nanhu Street, Luohu District, Shenzhen, China |

2. General Description of EUT

| EUT Name | | Dash Camera | | | | |
|------------------------|------------|--|------------------------------------|--|--|--|
| Models No. | : | SD810, SD910, SD710, SD930, SD830, SD730, SD610, SD630, SD310, SD330, SD510, SD530 | | | | |
| Model Different | : | All these models are the same in the same PCB, layout and circuit, the only difference is the color and model name. | | | | |
| | | Operation Frequency: | 802.11b/g/n(HT20): 2412MHz~2462MHz | | | |
| Product Description | 1 | Number of Channel: | 802.11b/g/n(HT20):11 channels | | | |
| | | RF Output Power: 802.11b: 14.12dBm(MAX) | | | | |
| | | Antenna Gain: | 2.4dBi PIFA Antenna | | | |
| Power Rating | | Input: DC 5V1.5A Output: DC 3.7V by 240 mAh Rechargeable Li-ion battery#1 Output: DC 3.7V by 240 mAh Rechargeable Li-ion battery#2 | | | | |
| Software Version | | N/A | | | | |
| Hardware Version | : | V0.3 | | | | |
| Connecting I/O Port(S) |) : | Please refer to the User's Manual | | | | |
| Remark | 10 | the evaluation report used the EUT(20210811-04-02#). | | | | |

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MPE Calculations for WIFI

1. Antenna Gain:

PIFA Antenna:2.4dBi.

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=(PG)/4\pi R^2$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

4. Test Result:

2.4G WiFi

| Mode | Conducted Power(max) (dBm) | Turn-up Power (dB) | Max tune up power (dBm) [P] | ANT Gain (dBi) [G] | Distance (cm) [R] | Power Density (mW/ cm ²) [S] | Limit of Power Density (mW/ cm ²) (S) |
|---------------|----------------------------------|--------------------------|--------------------------------------|--------------------------|-------------------------|---|---|
| 802.11B | 14.12 | 14±1 | 15 | 2.4 | 20 | 0.01093 | 13 |
| 802.11G | 11.87 | 11±1 | 12 | 2.4 | 20 | 0.00548 | 1 |
| 802.11N(HT20) | 11.98 | 11±1 | 12 | 2.4 | 20 | 0.00548 | 701 |

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

| Frequency Range (MHz) | Power density (mW/ cm²) | |
|--------------------------|-------------------------|--|
| 300-1,500 | F/1500 | |
| 1,500-100,000 | 1.0 | |

For 2.4WIFI:2412~2462 MHz

MPE limit S: 1mW/ cm²



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The MPE is calculated as **0.01093** mW / cm² < limit 1mW / cm². So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

----END OF REPORT----