

RF EXPOSURE REPORT

for

Shenzhen Elicks Technology Co., Ltd.

Model Number: **WF8300**

FCC ID: **2AK8V-WF8300**

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# 1. RF EXPOSURE EVALUATION

## Test Result of RF Exposure Evaluation

According to the KDB-447498 D01 V05, FCC 47CFR § 2.1093 the following RF exposure evaluation shall to demonstrate RF exposure compliance.

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

\* [  $\sqrt{f(\text{GHz})}$  ]

|           | Frequency | Antenna port | Maximum Conducted Output Power(PK) | Maximum Conducted Output Power(PK) | Total Conducted Output Power(PK) | Total Conducted Output Power(PK) | LIMIT |
|-----------|-----------|--------------|------------------------------------|------------------------------------|----------------------------------|----------------------------------|-------|
|           | (MHz)     |              | (dBm)                              | (mW)                               | (mW)                             | (dBm)                            | dBm   |
| 802.11b   | 2412      | Ant.1        | 7.85                               | 6.10                               | N/A                              | N/A                              | 30    |
|           |           | Ant.2        | 7.55                               | 5.69                               |                                  |                                  |       |
|           | 2437      | Ant.1        | 7.63                               | 5.79                               | N/A                              | N/A                              | 30    |
|           |           | Ant.2        | 7.45                               | 5.56                               |                                  |                                  |       |
|           | 2462      | Ant.1        | 7.57                               | 5.71                               | N/A                              | N/A                              | 30    |
|           |           | Ant.2        | 7.51                               | 5.64                               |                                  |                                  |       |
| 802.11g   | 2412      | Ant.1        | 6.86                               | 4.85                               | N/A                              | N/A                              | 30    |
|           |           | Ant.2        | 6.48                               | 4.45                               |                                  |                                  |       |
|           | 2437      | Ant.1        | 6.69                               | 4.67                               | N/A                              | N/A                              | 30    |
|           |           | Ant.2        | 6.37                               | 4.34                               |                                  |                                  |       |
|           | 2462      | Ant.1        | 6.35                               | 4.32                               | N/A                              | N/A                              | 30    |
|           |           | Ant.2        | 6.05                               | 4.03                               |                                  |                                  |       |
| 802.11n20 | 2412      | Ant.1        | 4.35                               | 2.72                               | 5.53                             | 7.43                             | 30    |
|           |           | Ant.2        | 4.48                               | 2.81                               |                                  |                                  |       |
|           | 2437      | Ant.1        | 4.39                               | 2.75                               | 5.52                             | 7.42                             | 30    |
|           |           | Ant.2        | 4.42                               | 2.77                               |                                  |                                  |       |
|           | 2462      | Ant.1        | 4.65                               | 2.92                               | 5.58                             | 7.47                             | 30    |
|           |           | Ant.2        | 4.25                               | 2.66                               |                                  |                                  |       |
| 802.11n40 | 2422      | Ant.1        | 3.87                               | 2.44                               | 4.66                             | 6.68                             | 30    |
|           |           | Ant.2        | 3.46                               | 2.22                               |                                  |                                  |       |
|           | 2437      | Ant.1        | 3.57                               | 2.28                               | 4.59                             | 6.62                             | 30    |
|           |           | Ant.2        | 3.63                               | 2.31                               |                                  |                                  |       |
|           | 2452      | Ant.1        | 3.76                               | 2.38                               | 4.70                             | 6.72                             | 30    |
|           |           | Ant.2        | 3.65                               | 2.32                               |                                  |                                  |       |

## 2.4G

|                  | Antenna port | Target power W/ tolerance (dBm) | Max tune up power tolerance (dBm) | Maximum Conducted Output Power (mW) | Antenna Gain (dBi) | Separation distance mm | RF exposure | Total RF exposure |
|------------------|--------------|---------------------------------|-----------------------------------|-------------------------------------|--------------------|------------------------|-------------|-------------------|
| 802.11b          | ANT1         | 7±1.0                           | 8                                 | 6.31                                | 1.26(1.0dBi)       | 5                      | 2.47        | 2.47              |
|                  | ANT2         | 7±1.0                           | 8                                 | 6.31                                | 1.26(1.0dBi)       |                        | 2.47        | 2.47              |
| 802.11g          | ANT1         | 6±1.0                           | 7                                 | 5.01                                | 1.26(1.0dBi)       | 5                      | 1.96        | 1.96              |
|                  | ANT2         | 6±1.0                           | 7                                 | 5.01                                | 1.26(1.0dBi)       |                        | 1.96        | 1.96              |
| 802.11n<br>20MHz | ANT1         | 4±1.0                           | 5                                 | 3.16                                | 1.26(1.0dBi)       | 5                      | 1.24        | 2.48              |
|                  | ANT2         | 4±1.0                           | 5                                 | 3.16                                | 1.26(1.0dBi)       |                        | 1.24        |                   |
| 802.11n<br>40MHz | ANT1         | 3±1.0                           | 4                                 | 2.51                                | 1.26(1.0dBi)       | 5                      | 0.78        | 1.56              |
|                  | ANT2         | 3±1.0                           | 4                                 | 2.51                                | 1.26(1.0dBi)       |                        | 0.78        |                   |

The Max RF exposure is 2.47.

Threshold at which no SAR required is  $\leq 3.0$  for 1-g SAR, Separation distance is 5mm.

### Conclusion:

So no SAR is required.