



# CTC Laboratories, Inc.

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## RF Exposure Evaluation

FCC ID: 2AAVD-D1027C8

According to KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

### EUT Specification

|                            |   |
|----------------------------|---|
| EUT                        | Wireless Mouse  |
| Model/Type reference:      | D1027C8   |
| Listed Model(s):           | M502  |
| Frequency band (Operating) | <input checked="" type="checkbox"/> BR: 2.402GHz ~ 2.480GHz<br><input checked="" type="checkbox"/> BLE: 2.402GHz ~ 2.480GHz<br><input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz<br><input checked="" type="checkbox"/> Others <u>2.4GHz ISM Band: 2.402GHz ~ 2.479GHz</u> |
| Device category            | <input checked="" type="checkbox"/> Portable (<5mm separation)<br><input type="checkbox"/> Mobile (>20cm separation)<br><input type="checkbox"/> fixed (>20cm separation)<br><input type="checkbox"/> Others ____   |
| Antenna diversity          | <input checked="" type="checkbox"/> Single antenna<br><input type="checkbox"/> Multiple antennas<br><input type="checkbox"/> Tx diversity<br><input type="checkbox"/> Rx diversity<br><input type="checkbox"/> Tx/Rx diversity  |
| Antenna gain (Max)         | 0.61dBi   |

### Limit

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f<sub>(GHz)</sub>] ≤ 3.0

Where

-f<sub>(GHz)</sub> is the RF channel transmit frequency in GHz

-Power and distance are rounded to the nearest mW and mm before calculation

-The test exclusions are applicable only when the minimum test separation distance is ≤ 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 according to 4.1 f) is applied to determine SAR test exclusion.



Measurement Result

| BR - Worst case |                         |                           |                          |        |       |
|-----------------|-------------------------|---------------------------|--------------------------|--------|-------|
| Mode            | Channel Frequency (MHz) | Max. Measured Power (dBm) | Max. Tune up Power (dBm) | Result | Limit |
| TX              | 2480                    | -2.45                     | -2.00                    | 0.1987 | 3.0   |

| BLE - Worst case |                         |                           |                          |        |       |
|------------------|-------------------------|---------------------------|--------------------------|--------|-------|
| Mode             | Channel Frequency (MHz) | Max. Measured Power (dBm) | Max. Tune up Power (dBm) | Result | Limit |
| TX               | 2480                    | -2.00                     | -1.50                    | 0.2230 | 3.0   |

| 2.4GHz ISM Band - Worst case |                         |                           |                          |        |       |
|------------------------------|-------------------------|---------------------------|--------------------------|--------|-------|
| Mode                         | Channel Frequency (MHz) | Max. Measured Power (dBm) | Max. Tune up Power (dBm) | Result | Limit |
| TX                           | 2437                    | -2.65                     | -2.00                    | 0.1943 | 3.0   |

Note:

1. Calculate by Worst-case mode.
2. Max. Tune Up Power by Manufacturer's Declaration, and Max. Tune Up Power is used to calculate.
3. For a more detailed features description, please refer to the RF Test Report.

\*\*\*\*\*THE END\*\*\*\*\*