



Test Report No.: FM2505WDG0237



## RF EXPOSURE REPORT

|           |  |
|-----------|--|
| Applicant | CORSAIR MEMORY, Inc.                             |
| Address   | 115 North McCarthy Blvd, Milpitas, CA 95035, USA |

|                                     |  |
|-------------------------------------|--|
| Manufacturer or Supplier            | CORSAIR MEMORY, Inc.                             |
| Address                             | 115 North McCarthy Blvd, Milpitas, CA 95035, USA |
| Product                             | Wireless Controller                              |
| Brand Name                          | Corsair  |
| Model                               | RGP0180  |
| Additional Model & Model Difference | N/A  |
| Date of tests                       | Jun 08, 2025 ~ Jun. 22, 2025                     |

FCC Part 2 (Section 2.1093)

KDB 447498 D01 V06

IEEE C95.1

**CONCLUSION:** The submitted sample was found to COMPLY with the test requirement

|   |   |
|---|---|
| Prepared by Lucas Chen<br>Project Engineer / EMC Department | Approved by Glyn He<br>Assistant Manager / EMC Department |
|   |   |

Date: Jul. 30, 2025

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## RELEASE CONTROL RECORD

| ISSUE NO.     | REASON FOR CHANGE | DATE ISSUED   |
|---------------|-------------------|---------------|
| FM2505WDG0237 | Original release  | Jul. 30, 2025 |

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## 1. CERTIFICATION

|                        |                             |
|------------------------|-----------------------------|
| <b>FCC ID:</b>         | 2AAFM-RGP0180               |
| <b>PRODUCT:</b>        | Wireless Controller         |
| <b>BRAND NAME:</b>     | Corsair                     |
| <b>MODEL NO.:</b>      | RGP0180                     |
| <b>ADDITIONAL NO.:</b> | N/A                         |
| <b>APPLICANT:</b>      | CORSAIR MEMORY, Inc.        |
| <b>STANDARDS:</b>      | FCC Part 2 (Section 2.1093) |
|                        | KDB 447498 D01 V06          |
|                        | IEEE C95.1                  |



## 2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) 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)]  $\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, 16 where
  - $f(\text{GHz})$  is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation
  - 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) At 100 MHz to 6 GHz and for test separation distances  $> 50$  mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot (f(\text{MHz})/150)$ ] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot 10$ ] mW at  $> 1500$  MHz and  $\leq 6$  GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

## 3. CLASSIFICATION

The antenna of this product, under normal use condition, is less than 20cm away from the limb of the user. So, this device is classified as Portable Device.



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## 4. CALCULATED RESULT OF MAXIMUM CONDUCTED POWER

The measured conducted Average Power

| Mode          | Frequency (MHz) | Conducted Averaged Power (dBm) |
|---------------|-----------------|--------------------------------|
| BT-LE (1Mbps) | 2402            | 4.50                           |
| BT-LE (2Mbps) | 2402            | 4.49                           |
| 2.4GHz SRD    | 2440            | -5.64                          |

Note:

For 2.4GHz SRD, Averaged Power: 91.2dBuV/m

$$E = \frac{\sqrt{30 \cdot PG}}{d}$$

E = Electric field strength in V/m

$$V/m = 10^{(dBuV/m - 120)/20}$$

P = Power in Watts

G = Antenna gain in dBi

d = Measurement distance in metres

$$\text{Power} \approx 0.272974 \text{ (mW)}$$

$$dBm = 10 \cdot \log_{10}(0.292974) \approx -5.64 \text{ (dBm)}$$

The tuned conducted Average Power (declared by client)

| Mode          | Frequency (MHz) | Target Power (dBm) | Tolerance (dBm) | Lower Tolerance (dBm) | Upper Tolerance (dBm) |
|---------------|-----------------|--------------------|-----------------|-----------------------|-----------------------|
| BT-LE (1Mbps) | 2402-2480       | 4.5                | +1              | 3.5                   | 5.5                   |
| BT-LE (2Mbps) | 2402-2480       | 4.5                | +1              | 3.5                   | 5.5                   |
| 2.4GHz SRD    | 2404-2478       | -5.5               | +1              | -6.5                  | -4.5                  |



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### SAR Test Exclusion Thresholds

| Mode       | Frequency (MHz) | Maximum source-based time averaged conducted output power (dBm) | Minimum separation distance (mm) | Result of Eq. 1 | Limit for 1-g SAR | Limit for 10-g extremity SAR | Verdict         |
|------------|-----------------|---|----------------------------------|-----------------|-------------------|------------------------------|-----------------|
| BT-LE      | 2402-2480       | 5.5   | 5                                | 1.100           | 3.0               | 7.5                          | Exempt from SAR |
| 2.4GHz SRD | 2404-2478       | -4.5  | 5                                | 0.011           | 3.0               | 7.5                          | Exempt from SAR |

BT and 2.4GHz SRD can't transmit simultaneously.

### Conclusion

Therefore, this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

--- END ---