



## SAR exemption evaluation

**Applicant** Cypress Semiconductor  
**FCC ID** WAP6045  
**Product** EZ-BLE PSoC Module  
**Model** CYBLE-416045-02  
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**Conducted Power**

| Network Standards      | Carrier frequency (MHz) | Average Output Power (dBm) | Conclusion |
|------------------------|-------------------------|----------------------------|------------|
| Bluetooth (Low Energy) | 2402                    | 3.77                       | PASS       |
|                        | 2440                    | 3.47                       | PASS       |
|                        | 2480                    | 3.13                       | PASS       |

Per KDB 447498 D01, 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:

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

- $f(\text{GHz})$  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

Per KDB 447498 D01, when the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

| Bluetooth | Distance (mm) | MAX Power (dBm) | Frequency (MHz) | Ratio | Evaluation |
|-----------|---------------|-----------------|-----------------|-------|------------|
| Head      | 5             | 4               | 2480            | 0.79  | No         |
| Body      | 5             | 4               | 2480            | 0.79  | No         |