

RF EXPOSURE EVALUATION

EUT Specification

| | |
|----------------------------|--|
| EUT | Bluetooth Beacon |
| Model Number | M4P, eTA1, M4P-PNHAX, M4P-PNHNX, M4P-PNHN, M4P-PNHA , M4 Pro |
| FCC ID | 2AO94- M4PRO |
| Antenna gain (Max) | -0.7dBi |
| Operation Frequency | 2402-2480MHz |
| Input Rating | DC 3.0V |
| Standard | 47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06 |
| Modulation | BLE |

Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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 ≤ 7.5 for 10-g extremity SAR, where $f(\text{GHz})$ is the RF channel transmit frequency in GHz • Power and distance are rounded to the nearest mW and mm before calculation¹⁷ • The result is rounded to one decimal place for comparison 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 is applied to determine SAR test exclusion

Calculated Result and Limit

| Operation Mode: BLE | | | | | | |
|---|--|-------------------------------|--------------------------|------|---------------------|------------------------|
| Channel | Maximum Peak Conducted Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power | | Calculated value | Exclusion threshold |
| | | | (dBm) | (mW) | | |
| Lowest (2402MHz) | 1.68 | 1±1 | 2 | 1.58 | 0.49 | 3.0 |
| Middle (2440MHz) | 1.52 | 1±1 | 2 | 1.58 | 0.49 | |
| Highest (2480MHz) | 1.43 | 1±1 | 2 | 1.58 | 0.50 | |
| Conclusion: the calculated value ≤3.0, SAR is exempted. | | | | | | |

The Maximum power is less than the limit, complies with the exemption requirements, SAR is exempted.

Remark: The Max Conducted Peak Output Power data refer to report Report No.:
91108-24-72-24-PP001