

MPE ESTIMATION

FCC ID: 2ARCP-BLACK-BOX

1. Limit for Portable Equipment Exposure

Frequency	1-g SAR
100MHz-6GHz	3.0

According to 447498 D01 General RF Exposure Guidance v06

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 calculation

2. Estimation Result

BT (Worst case):

Frequency	Reading result(dBμV/m)	PK Output Power (dBm)	Output Power(mW)	Test Separation Distance (mm)	Measurement Result	1-g SAR
8DPSK 2441 MHz	104.34	9.14	8.204	5	2.5635	3.0

Note: PK Output Power (dBm)= Reading result(dBμV/m)-95.2

Reading result see the test report UNIA24050933ER-61.

BLE:

Frequency	Reading result(dBμV/m)	PK Output Power (dBm)	Output Power(mW)	Test Separation Distance (mm)	Measurement Result	1-g SAR
BLE 1M GFSK 2440 MHz	103.41	8.21	6.622	5	2.0688	3.0
BLE 2M GFSK 2440 MHz	103.82	8.62	7.278	5	2.2737	3.0

Note: PK Output Power (dBm)= Reading result(dBμV/m)-95.2

Reading result see the test report UNIA24050933ER-62.

The SAR evaluation is not required.

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