

SAR Exclusion Report

Applicant: EBT Medical US Inc

Equipment Under Test: EBT Pulse Generator

FCC ID: 2A3S8-MODEL20010

Applicable Standards: 47 CFR §§ 2.1093;

FCC KDB 447498 D01 General RF Exposure Guidance v06

Report issued on: 28 April 2022

Result: Exempt

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1 General Information

1.1 *Applicant Information*

Name: EBT Medical US
Address: 34 Hayden Rowe Suite 154
City, State, Zip, Country: Hopkinton, MA 01748, USA

1.2 *General Information of EUT*

Product Description: EBT Pulse Generator

Frequency Range: 2402 - 2480 MHz
Data Modes: GFSK (1M / 2M)
Antenna: On-board dipole, +2.1 dBi

Rated Voltage: 4Vdc

1.3 *Operating Modes and Conditions*

Maximum measured conducted power levels were utilized for all calculations.

2 SAR Exclusion Calculations

447498 D01 General RF Exposure Guidance v06

SAR test exclusion calculations

Section 4.3: General SAR test exclusion guidance / Section 4.3.1: Standalone SAR test exclusion considerations

	Input	Select Units
Max Power:	-3.42	dBm
Duty Cycle:	100.0%	
Min separation distance:	1	mm
Frequency, f:	2480	MHz

<== Source based time average duty cycle

Value reference Number	Values used for Calculation	Reference number definition
v1	0.455	mW
v2	1	mm
v3	1.575	[Nf(GHz)]

- a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

Exclusion Calculation(1g):	0.7165	number	<== [v2 / v3] must be less than 3
Exclusion Calculation(10g):	0.7165	number	<== [v2 / v3] must be less than 7.5

Conclusions (Body):	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Body applications
Conclusions (Extremity):	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Extremity applications