

RF exposure test exclusion evaluation report

Product:	Laser Range Finder
Model no.:	GENEPRO S1, GENEPRO S2, GENEPRO S3, GENEPRO S4, GENEPRO S5, GENEPRO S6, GENEPRO S7, GENEPRO S8, GENEPRO S9, PFX-S1, NANO, S1, S8, PFS1, PF1 PRO, PFS2, PFS3, PFS5, PFS6, PFS7, PFS8, PFS9
FCC ID:	2AEOGGENES1
Rating:	3.0VDC supplied by 1pc non-rechargeable CR2 battery
RF Transmission Frequency:	2402MHz-2480MHz
Modulation:	GFSK
Antenna Type:	FPC Antenna
Max Antenna Gain:	3.71dBi
Description of the EUT:	The Equipment Under Test (EUT) is a Laser Range Finder which supports BLE-1Mbps function.
Reference Report	6895025022001

1. Limit and Guidelines on Exposure to Electromagnetic Fields

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance v06, Mobile Portable RF Exposure, no SAR required if power is lower than the flowing threshold:

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

2. Calculation method

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

Max Tune-up power = 0.5dBm = 1.122mW

Distance = 5 mm

f = 2.480 GHz

$[1.122/5] \cdot \text{SQRT}(2.480) = 0.353$

$0.353 \leq 3.0$

Therefore, excluded from SAR testing.

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