

RF EXPOSURE

Report Number		ESTRGC2304-007(1)	
Applicant	Company name	ID Secure LLC	
	Address	10 Crooked Hill Oakland New Jersey United States 07436	
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	Contac person	Darren Reid	
Product	Product name	Rugged Biometric Device	
	Model No.	EID10 ALPHA	Manufacturer Gen2wave
	Serial No.	NONE	Country of origin KOREA
Test date	20-Mar-23 ~ 22-Mar-23		Date of issue 15-Jun-23
Testing location	140-16, Eongmalli-ro, Majang-myeon, Icheon-si, Gyeonggi-do, Rep. of Korea		
FCC ID	2BA25-EID10ALPHA		
ISED ID	30760-EID10ALPHA		
Standard	KDB 447498 D01 General RF Exposure Guidance v06		
Measurement facility registration number		659627	
Tested by	Engineer H.G. Lee		(Signature)
Reviewed by	Engineering Manager I.K Hong		(Signature)
Abbreviation	OK, Pass = Passed, Fail = Failed, N/A = not applicable		
* Note - This test report is not permitted to copy partly without our permission - This test result is dependent on only equipment to be used - This test result based on a single evaluation of one sample of the above mentioned - This test report is not related to KOLAS accreditation - This is the reissue report due to the change of the applicant			

1.0 INTRODUCTION

These calculations are based on the highest EIRP possible from the EUT, measured in the radiated mode for the RFID portion

EIRP was calculated using the following.

EIRP = $(E \times d)^2/30$, where:

- **E** = electric field strength in V/m,
- **d** = measurement distance in meters (m).

It was measured to be 69.06 dBuV/m at 125 kHz at 3 meters or -26.17 dBm (0.001 47 mW) EIRP.

It was measured to be 58.55 dBuV/m at 13.56 MHz at 3 meters or -36.68 dBm (0.000 013 mW) EIRP.

The field strength is calculated without distance correction factors.

FCC RF EXPOSURE COMPLIANCE RESULT:

In accordance with FCC KDB Publication 447498 D01 V06 Clause 4.3.1 a) for transmit frequencies below 100 MHz:

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ 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 calculation³¹
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as *numeric thresholds* in step b) 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 4.1 f) is applied to determine SAR test exclusion.

Mode	Freq. (MHz)	max (dBm)	Max Power (mW)	Distance (mm)	1g (x=7.5)	Results
RFID(LF)	0.125	-26.17	0.00242	5	7.5	0.000 000 720
RFID(HF)	13.56	-36.68	0.00021	5	7.5	0.000 000 667