

REM-EMIESS25D916AGR-04Av1

This report cancels and replaces the test report N° REM-EMIESS25D916AGR-04Av0

MPE test report

According to the standard:

CFR 47 FCC PART 15

Equipment under test:

SafeScanPro
GPR2

FCC ID: QG2-30024

Company:

AGRIDENT GMBH

Distribution: Mr OTTO

(Company: AGRIDENT GMBH)

Number of pages: 7

Ed.	Date	Modified Page(s)	Technical Verification and Quality Approval	
			Name and Function	Visa
1	16-Mar-26	1	B. VOVARD, Radio Technician	

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This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole manufactured products of the tested sample.

Information in italics are declared by the manufacturer/customer and are under his responsibility

DESIGNATION OF PRODUCT: *SafeScanPro*

Serial number (S/N): *7CK00030WC000017*

Reference / model (P/N): *GPR2*

Firmware version: *2.0.1, Jul 30 2025 - 090813*

MANUFACTURER: *AGRIDENT GMBH*

COMPANY SUBMITTING THE PRODUCT:

Company: AGRIDENT GMBH

Address: DAHLKAMPSANGER 2
30890 BARSINGHAUSEN
GERMANY

Responsible: Mr OTTO

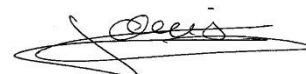
Person(s) present during the tests: Mr LANGOUET

DATES OF TEST: From 4-Aug-25 to 14-Oct-25

TESTING LOCATION: EMITECH ANGERS laboratory at BEAUCOUZE (49) FRANCE
FCC Accredited under US-EU MRA Designation Number: FR0009
Test Firm Registration Number: 873677

TESTED BY: S. LOUIS

VISA:

A handwritten signature in black ink, appearing to read "O. Louis", with a stylized flourish underneath.

WRITTEN BY: S. LOUIS

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REVISIONS HISTORY

Revision	Date	Modified pages	Modifications
0	22-Jan-26	/	Creation
1	02-Mar-26	1	Modification of FCC ID

1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: **SafeScanPro GPR2**, in accordance with normative reference.

The equipment under test integrates:

- WiFi 2.4 GHz transceiver radio function not already certified,
- BLE transceiver radio part function not already certified,
- 134.2kHz RFID Reader function not already certified.

2. PRODUCT DESCRIPTION

Class: B

Utilization: General use

NFC Radio part:

Antenna type and gain: integral antenna (unknown gain)

Operating frequency range: From 119 kHz to 135 kHz

Number of channels: 1

Single Frequency device

BLE Radio part:

Antenna type and gain: Integral Antenna
Low Channel :3.66 dBi
Central Channel :3.79 dBi
High Channel: 3.50 dBi

Operating frequency band: From 2400 MHz to 2483.5 MHz

Frequencies tested: 2402 MHz, 2426 MHz and 2480 MHz

Channel spacing: 2MHz

Modulation: GFSK

WiFi 2.4GHz Radio part:

Antenna type and gain:	Integral Antenna:	Low Channel :3.16 dBi Central Channel :3.27 dBi High Channel: 3.16 dBi
Operating frequency range:	From 2400 MHz to 2483.5 MHz	
Number of channels:	11	
Frequencies tested:	2412 MHz, 2437 MHz and 2462 MHz	
Channel spacing:	5MHz	
Modulation tested:	DBPSK OFDM: BPSK OFDM: 64-QAM	
Mode tested:	802.11 b 802.11 g 802.11 n	
Data rate tested:	For 802.11b: 1Mbit/s For 802.11g: 6Mbit/s For 802.11n: MCS0	
Power source:	7.4Vdc by lithium battery AC/USB-C Adapter	

Power level, frequency range and channels characteristics are not user adjustable.
The details pictures of the product and the circuit boards are joined with this file.

3. NORMATIVE REFERENCE

The standards and testing methods related throughout this report are those listed below.
They are applied on the whole test report even though the extensions (version, date and amendment) are not repeated.

CFR 47 (2025)	Radio Frequency Devices
ANSI C63.10	2020 + Corrigendum (2023) + Amendment 1 (2024) Procedures for Compliance Testing of Unlicensed Wireless Devices.
447498 D04 Interim General RF Exposure Guidance v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

4. RF EXPOSURE

Calculus for NFC 134.2kHz in standalone

In accordance with KDB 447498 D04 Interim General RF Exposure Guidance v01, Paragraph 4.3.1.

1-mW Test Exemption according paragraph 2.1.2

Maximum measured power = 70.54 dB μ V/m = 0.0000112 mW at 134.2 kHz

with $P = (E \times d)^2 / (30 \times G_p)$ with $d = 10$ m and $G_p = 1$

The equipment fulfils the requirements on 1-mW Test Exemption according §1.1307(b)(3)(i)(A).

Calculus for BLE 2.4GHz in standalone

MPE-Based Exemption according paragraph 2.1.4

At frequency 2402 MHz, this exemption apply for minimum distance ($\lambda/2\pi$) of 1.99 cm

The test separation distance measured is 2.7 cm.

According Table 1 of §1.1307, for this distance, the ERP exemption threshold is **14 mW ERP**

Maximum measured power = 105.6 dB μ V/m = **6.639 mW ERP at 2402 MHz**

with $P = (E \times d)^2 / (30 \times G_p)$ with $d = 3$ m and $G_p = 1.64$

The maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW).

The equipment fulfils the requirements on MPE-Based Exemption according §1.1307(b)(3)(i)(C).

Calculus for WiFi 2.4GHz in standalone

MPE-Based Exemption according paragraph 2.1.4

At frequency 2462 MHz, this exemption apply for minimum distance ($\lambda/2\pi$) of 1.94 cm
The test separation distance measured is 9.8 cm.

According Table 1 of §1.1307, for this distance, the ERP exemption threshold is **184.39 mW ERP**

Maximum measured power = **69.66 mW ERP at 2462 MHz**

with $P = (E \times d)^2 / (30 \times G_p)$ with $d = 3$ m and $G_p = 1$

The maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW).

The equipment fulfils the requirements on MPE-Based Exemption according §1.1307(b)(3)(i)(C).

Calculus for simultaneous transmission

$$\sum \text{ of MPE ratio} = \text{MPE ratio}(134.2 \text{ kHz}) + \text{MPE ratio(BLE)} + \text{MPE ratio (WiFi 2.4GHz)} = 0.0000112 + (6.639/14) + (69.66/184.39) = 0.0000112 + 0.474 + 0.377 = \mathbf{0.851} \leq \mathbf{1.0}$$

The product meet the requirement for Simultaneous transmission with both SAR-Based and MPE-Based Test exemptions from §2.2.2 of KDB 447498 D04 Interim General RF Exposure Guidance v01