



## RF Exposure Assessment

<b>Product</b>	DECT Base Station
<b>Name and address of the applicant</b>	Savox Communications Oy Ab Keilaranta 15 B 02150 Espoo, Finland
<b>Name and address of the manufacturer</b>	Savox Communications Oy Ab Keilaranta 15 B 02150 Espoo, Finland
<b>Model</b>	Savox IMP WIM
<b>Rating</b>	5.0V DC
<b>Trademark</b>	Savox
<b>Additional information</b>	DECT 6.0
<b>Evaluated according to</b>	<b>FCC Part 1.1310(e)</b> RF Exposure Assessment <b>FCC KDB 447498 D01 v06</b> General RF Exposure Guidance
<b>Order number</b>	<b>PRJ0057593</b>
<b>Issue date</b>	<b>2025-03-31</b>
<b>Name and address of the testing laboratory</b>	  Nemko Scandinavia AS Instituttveien 6 2007 Kjeller, Norway www.nemko.com CAB Number: FCC: NO0001 ISED: NO0470 ISED No: 2040D-1 <b>An accredited technical test executed under the Norwegian accreditation scheme</b>
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">   Prepared by [Frode Sveinsen] </div> <div style="width: 45%;"></div> </div>	
This report was originally distributed electronically with digital signatures. For more information, please contact Nemko Scandinavia AS.	

## Revision history

Revision	Date	Comment	Sign
A	2024-10-30	First Edition	FS
B	2025-03-31	Corrected Antenna Gain value	FS

## GENERAL REMARKS

This report applies only to the sample(s) tested. It is the manufacturer's responsibility to ensure the additional production units of this product are manufactured with identical electrical and mechanical components. The manufacturer is solely responsible for any modifications to the product that could result in non-compliance with the relevant regulations.

This report shall not be reproduced, except in full, without the written approval of Nemko.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Nemko Group accepts no responsibility for damage suffered by any third party because of decisions made or actions based on this report.

Opinions expressed within this report regarding general assessments and qualifications for PASS or FAIL to the standards limits and requirements, are not part of the current accreditation. Neither are opinions expressed regarding model variants covered by the testing of this report.

# 1 Exposure Evaluation

## 1.1 EUT Technical Information

<b>Product</b>	DECT Base Station
<b>Manufacturer</b>	Savox Communications Oy Ab
<b>Model</b>	Savox IMP WIM
<b>FCC ID</b>	TUFWIM
<b>Hardware identity and/or version</b>	6.4
<b>Software identity and/or version</b>	D20240514
<b>Frequency Range</b>	1921.536 – 1928.448 MHz
<b>Operating Modes</b>	DECT 6.0
<b>Number of Antennas</b>	2
<b>Antennas</b>	External Antennas
<b>Antenna Diversity</b>	Yes
<b>Smart Antennas Supported</b>	No
<b>Type of Power Supply</b>	USB or External DC Supply
<b>Device Category</b>	Mobile or Fixed
<b>Reference to RF Test Report</b>	Nemko REP038942B

## 1.2 Evaluation Summary

Maximum whole body power density is calculated using formula 3) from OET Bulletin 65 Edition 97-01 (page 19):

$$S = \frac{PG}{4\pi R^2}$$

Where: S = power density  
P = power input to the antenna  
G = power gain of the antenna in the direction of interest relative to an isotropic radiator  
R = distance to the center of radiation of the antenna

Determination of Exemption for Single RF Sources		
Conducted Power including Tune Up Tolerance	19.3	dBm
Antenna Gain	2.9	dBi
Separation Distance	20	cm
Frequency Range Evaluated	1921.536	MHz
Duty Cycle	100	%
Calculated Power Density	0.330	W/m <sup>2</sup>
Power density Limit ref. FCC §1.1310(e), Table 1	10	W/m <sup>2</sup>
Margin on Compliance	14.8	dB
CONCLUSION	EXEMPTED	

Output Power values are from Nemko test report REP038942B, with added Tune-Up tolerance.

Antenna Gain is maximum allowed antenna gain without reducing output power, value is used only to show compliance with the exposure requirements.

### References

- 1) OET Bulletin 65 Edition 97-01, August 1997
- 2) KDB 447498 D01 General RF Exposure Guidance v06, October 23, 2015
- 3) Code of Federal Regulations, Title 47, FCC §1.1310
- 4) Code of Federal Regulations, Title 47, FCC Part 15, Subpart D