

RF Exposure Assessment

Product	Animal Monitoring Device
Name and address of the applicant	DeLaval International AB Gustav De Laval's väg 15 SE-14147 Tumba, Sweden
Name and address of the manufacturer	DeLaval International AB Gustav De Laval's väg 15 SE-14147 Tumba, Sweden
Model	AM2
Rating	3.0V _{DC} (Primary Battery Fuji CR8LHC)
Trademark	DeLaval
Additional information	418MHz
Evaluated according to	FCC Part 1.1307(b) RF Exposure Assessment FCC KDB 447498 D04 Interim General RF Exposure Guidance v01
Order number	PRJ0039211
Issue date	2024-09-10
Name and address of the testing laboratory	 <div> Nemko Scandinavia AS Instituttveien 6 2007 Kjeller, Norway www.nemko.com </div> <div> CAB Number: FCC: NO0001 ISED: NO0470 ISED No: 2040D-1 </div> <p style="color: red; font-weight: bold;">An accredited technical test executed under the Norwegian accreditation scheme</p>
<div style="border: 1px solid black; padding: 10px; display: flex; justify-content: space-between;"> <div style="width: 40%;">  </div> <div style="width: 55%;"></div> </div> <p style="text-align: center;">Prepared by [Frode Sveinsen]</p>	
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Revision history

Revision	Date	Comment	Sign
A	2024-09-10	First Edition	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.

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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

Name	DeLaval
Model/version	AM2
FCC ID	UCS2150043281
Hardware identity and/or version	00
Software identity and/or version	1.1.0.5967
Frequency Range	417.33 – 418.32 MHz
Modulation	2-GFSK
Number of Antennas	1
Antennas	Integral Antenna
Antenna Diversity	No
Smart Antennas Supported	No
Type of Power Supply	Primary Battery (Fuji CR8LHC)
Reference to RF Test Report	REP041455

1.2 Evaluation Summary

The EUT has been evaluated to FCC 1.1307(b) and has been found to be exempt from SAR Evaluation.

FCC 1.1307(b)(3)(i)(B)			
Determination of Exemption for Single RF Sources			
Average Output Power, Conducted		3.20	mW
Average Output Power, Radiated		0.08	mW
Separation Distance d (cm)(valid for d ≤40 cm)	d (cm)	20.0	cm
Frequency f (GHz) (valid for f ≥300MHz and f ≤6 GHz)	f (MHz)	418	MHz
ERP @20cm (mW)	ERP _{20cm}	852.7	mW
value used in Threshold calculation	X	0.96	
Threshold value at Separation distance d (mW)	P _{th} (mW)	852.7	mW
Verdict:		EXEMPTED	

The above calculation is based on the formulas from FCC Part 1.1307(b)(3)(B).

Radiated Output Power values are from Nemko Test Report REP041455D.

The evaluation is valid at the declared separation distance of 20 cm.

References

- 1) OET Bulletin 65 Edition 97-01, August 1997
- 2) KDB 447498 D04 Interim General RF Exposure Guidance v01, November 29, 2021
- 3) Code of Federal Regulations, Title 47, FCC §1.1310
- 4) Code of Federal Regulations, Title 47, FCC Part 15C