

Exemption letter

No. 1-0684-25-01-04_TR1-R01

2025-Dec-16

Applicant	Husqvarna AB
Product Model	Connectivity device IRIS03
FCC ID	ZASIRIS03
Tested Technology	Bluetooth LE
Test Standard(s)	Interim procedure KDB 447498 D04

Verdict Exemption fulfilled

The test results relate only to devices specified in this document

This test report is electronically signed and valid without handwritten signature.
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1 Related cetecom advanced documents

Document	Contents	Reference Description	Total Pages
Annex 301	Information provided by the applicant	1-0684-25-01-04_TR1-A301-R01	2

2 Document history

Release No.	Applied changes	Date of release
R01	Initial release	2025-Dec-16

3 Test laboratory

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4 Client and test sample information

Customer	Product	Model	Type	HW Status	SW status
Husqvarna AB	Connectivity device	IRIS	IRIS03	5901016	IRIS_HCI-002

5 Measurement details

According to Interim procedure KDB 447498 D04 SAR testing can be exempted if the following exclusion threshold is met:

SAR-based Exemption

According 1.1307(b)(3)(i)(B) Option B – Available maximum time-averaged power or effective radiated power (ERP) at frequencies above 300 kHz and below 6 GHz, but with distances from 0.5 cm to 40 cm may be exempted as follows:

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

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where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

Power Calculation

Power calculation based on external document

"IRIS 03 - MPE Information Requirements 251015" provided by customer.

An extract from the document can be found in Annex 301.

Exemption acc. Formula of § 1.1307(b)(3)(i)(B) – SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION															
Band	Technology	Frequency	Distance = d	d ≥ 0.5 cm and d ≤ 40 cm fulfilled	Maximum Rated Conducted Output Power	Maximum Tolerance	Minimum Path Loss to Antenna connector	Minimum Path Loss to Antenna	Maximum Antenna Gain	Duty Cycle	EIRP	ERP	ERP	Threshold ERP	SAR Exemption fulfilled
		(MHz)	(cm)		(dBm)	(dB)	(dB)	(dB)	(dBi)	(%)	(dBm)	(dBm)	(mW)	(mW)	
2.4 GHz	Bluetooth LE	2402.0	1.0	yes	3.0	1.0	0.0	0.0	3.7	100.0	7.7	5.6	4	10	yes
		2440.0	1.0	yes							7.7	5.6	4	10	yes
		2480.0	1.0	yes							7.7	5.6	4	10	yes

The user manual must list the given usage position.

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