



TÜV SÜD, Octagon House,  
Concorde Way, Segensworth North, Fareham,  
Hampshire, United Kingdom, PO15 5RL  
Tel: +44 (0) 1489 558100  
Website: [www.tuvsud.com/en](http://www.tuvsud.com/en)

COMMERCIAL-IN-CONFIDENCE

# SAR EXCLUSION DOCUMENT

Document 75950946-10 Issue 01

**2425 – 2480 MHz Transmitter:**

FCC Standalone SAR Test Exclusion Considerations (KDB 447498 D01) Section 4.3.1 b)

100 MHz – 6 GHz – Separation Distance >50 mm

The SAR Test exclusion thresholds for 1500 MHz to 6 GHz test separation distances >50 mm are determined by:

Step a) Threshold result from Formula in Section 4.3.1 a):

The Step a) formula has to be re-arranged to give power allowed at numeric threshold at 50 mm test separation distance as required by Step b):

Power Allowed At Numeric Threshold =  $\{(\text{Numeric Threshold} / \sqrt{f_{\text{(GHz)}}}) \times 50 \text{ mm Separation Distance}\}$  mW

- Numeric threshold = 3 for Head/Body or 7.5 for Extremities
- f (GHz) is the RF channel transmit frequency in GHz.
- Power and distance are rounded to the nearest mW and mm before calculation.
- The result is rounded to one decimal place for comparison

Step b) 2) 1500MHz to 6GHz

Power threshold =  $\{[\text{Power allowed at numeric threshold for 50 mm \{Formula Step A\}}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$  mW

- Power and distance are rounded to the nearest mW and mm before calculation.
- The result is rounded to one decimal place for comparison

Approved by

  
Matt Russell  
Authorised Signatory

Date 30 June 2021



SAR Exclusion Result:

Frequency (MHz)	Power Output mW	Duty Cycle %	Maximum Power (Tune up Value) * (mW)	Test Separation Distance (mm)	SAR Exclusion Power Threshold (mW)	SAR Test Exclusion (Yes/No)
2425	6	100	6	200	1596.3	Yes
2480	6	100	6	200	1595.3	Yes

\* Maximum power including tolerance of the time averaged declared conducted output power of the device.

The SAR exclusion threshold has been evaluated using the formula described above from information supplied by the manufacturer below. Based on the calculation above, the EUT is categorically excluded from SAR testing.



## Manufacturer's Declaration of Product information:

### Equipment Description

Technical Description: (Please provide a brief description of the intended use of the equipment)	The product connects with all Sure PetCare "Connected" products. It is connected to end user's router and acts as the link between the "Connected" family product and the server/App. The hub communicates with the "Connected" family product via an 802.15.4 2.4 GHz wireless link.
Manufacturer:	SureFlap Ltd
Model:	iHB v2
Part Number:	iHB v2

If more than one frequency band is supported, please confirm which combinations of bands are capable of Simultaneous Transmit.	none
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### Frequency Band 1: Please detail (one entry for each band). e.g GSM 900 / WCDMA FDD I etc.

Antenna Model:	Built in PCB	
Antenna length:	18.75 mm	cm
Bottom frequency:	2425 MHz	MHz
Middle frequency:	2450 MHz	MHz
Top frequency:	2480 MHz	MHz

Maximum power (input to the antenna including a tolerance):	0.005	W
Antenna gain (or maximum gain allowed):	3	dBi

Or

Field Strength Measurement:		dBuA/M
Measurement Distance:		cm

Separation distance from antenna to the user/bystander	20	cm
Transmitter Duty Cycle:	1	%

I hereby declare that the information supplied is correct and complete.¶

Name: → Dr. David Hallas →  
Position held: → Managing Director →  
Date: → 10-2-2021¶