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SAR EXCLUSION DOCUMENT

Document 75954182-04 Issue 02
FCC ID: 2AHWR-SS05

2400 MHz Bluetooth Low Energy Transmitter:

FCC General RF Exposure Test Exemption Guidance (KDB 447498 D04 v01 Appendix B)

SAR or MPE based evaluation is not required if any of the applicable Steps 1, 2 or 3 are met (Ref: KDB 447448 Figure A.1).

Step 1: All Devices: Blanket 1 mW Exemption (100 kHz – 100 GHz)

Reference: FCC CFR 47 Part 1.1307(b)(3)(i)(A).

Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	All devices: 1.1307(b)(3)(i)(A) Blanket 1 mW Exemption (Yes/No)* (100 kHz to 100 GHz)
2402	10	32	3.2	1.288	4.123	2.51	21	No

*Based on conducted power output or ERP whichever is greater, compared to the 1 mW exemption threshold.

Step 2: All devices: MPE Exemption (300 kHz to 100 GHz)

Reference: FCC CFR 47 Part 1.1307(b)(3)(i)(C).

Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	Threshold ERP at separation distance R (W)	All devices: 1.1307(b)(3)(i)(C) MPE Exemption (Yes/No)** (300 kHz to 100 GHz)
2402	10	32	3.2	1.288	4.123	2.51	21	0.0085	Yes

**Based on ERP compared to the KDB 447498 Table B.1 Threshold ERP calculated for the separation distance R.

Approved by


.....
Steve Marshall
Authorised Signatory

Date

25 May 2022
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Manufacturer's Declaration of Product information:

Equipment Description

Technical Description: <i>(Please provide a brief description of the intended use of the equipment)</i>	Shot Scope H4 is a handheld unit used by golfers to provide distance information from their position to their target. It also tracks how far each golf shot is hit and what golf club was used.
Manufacturer:	Shot Scope Technologies Ltd
Model:	Shot Scope H4
Part Number:	SS04

If more than one frequency band is supported, please confirm which combinations of bands are capable of Simultaneous Transmit.	BLE and RFID do not transmit simultaneously.
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Frequency Band 1: 2400 MHz Bluetooth Low Energy

Antenna Model:	Pulse W3008	
Antenna length:	Chip Antenna (Length not applicable)	cm
Bottom frequency:	2402	MHz
Middle frequency:	2440	MHz
Top frequency:	2480	MHz

Maximum power (input to the antenna including a tolerance):	10	dBm
Antenna gain (or maximum gain allowed):	1.1	dBi

Or

Field Strength Measurement:		dBµA/M
Measurement Distance:		cm

Separation distance from antenna to the user/bystander	0.21	cm
Transmitter Duty Cycle:	32	%



Frequency Band 2: 13.56 MHz RFID

Antenna Model:	Custom PCB Loop Antenna, 4 turns	
Antenna length:	0.26 x 0.19 (loop antenna)	cm
Bottom frequency:	-	MHz
Middle frequency:	13.56	MHz
Top frequency:	-	MHz

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

Or

Field Strength Measurement:	28.88	dB μ V/m at 3m
Measurement Distance:		cm

Separation distance from antenna to the user/bystander	0.21	cm
Transmitter Duty Cycle:	100	%

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

Name: Lewis Allison

Position held: Chief Technology Officer

Date: 31 January 2022