Federal Communications Commission Authorization and Evaluation Division 7435 Oakland Mills Road Columbia, Maryland 21046

Re: Attestation letter FCC ID: WP5TWN4F20

To whom it may concern,

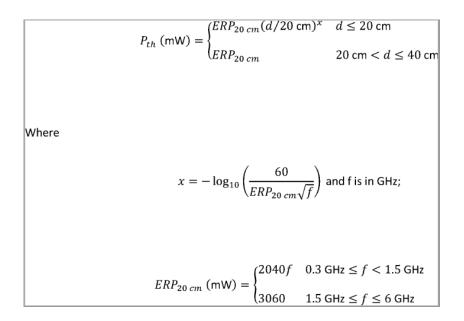
Herby we declare the compliance with human exposure requirements.

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Christian Kiermeier (Agent)

According to §2.1093(c)(1):

Evaluation of compliance with the exposure limits in \$1.1310 of this chapter, and preparation of an EA if the limits are exceeded, is necessary for portable devices having single RF sources with more than an available maximum time-averaged power of 1 mW, more than the ERP listed in Table 1 to \$1.1307(b)(3)(i)(C), or more than the P<sub>th</sub> in the following formula, whichever is greater. The following formula shall only be used in conjunction with portable devices not exempt by \$1.1307(b)(3)(i)(C) at distances from 0.5 centimeters to 20 centimeters and frequencies from 0.3 GHz to 6 GHz.



d = the minimum separation distance (cm) in any direction from any part of the device antenna(s) or radiating structure(s) to the body of the device user.

## **RF technology 1:**

The following data are based on applicants document: Test report 210716-AU01+W04 of the test laboratory Element Materials Technology Straubing GmbH

Application:	RFID		
Operating frequency:	125 kHz		
Antenna model	Loop antenna		
Antenna connector:	none		
Antenna type:	internal		
	not detachable		
Maximum field strength:	-19.41 dBµV/m at 300 m		
Information related to Exposure:			
Tune-up tolerance (according to the manufacturer):	4 dB		
Separation distance:	< E mm		

Separation distance:< 5 mm</th>Exposure tier:general publicPower averaging over time:not applied

Separation	Channel	EIRP	EIRP	Limit	Ratio	Result
distance	frequency	+ tolerance	+ tolerance	(mW)	of limit	
( <i>mm</i> )	(kHz)	(dBm)	(mW)			
< 5	125	-70.57	8.8 * 10 <sup>-8</sup>	1.00	8.8 * 10 <sup>-8</sup>	Passed

Table 1: Result of SAR test exclusion, exposure to the head and body

EIRP is calculated using the formula of ANSI C63.10-2013 clause 9.5:

EIRP = E + 20log(d) - 104.7

Where: EIRP = equivalent isotropically radiated power in dBm

E = electric field strength in  $dB\mu V/m$ 

d = measurement distance in meters (m)

## **RF technology 2:**

The following data are based on applicants document: Test report 210716-AU01+W05 of the test laboratory Element Materials Technology Straubing GmbH

Application:	RFID	
Operating frequency:	13.56 MHz	
Antenna model	Loop antenna	
Antenna connector:	none	
Antenna type:	internal	
	not detachable	
Maximum field strength:	50.09 dBµV/m at 30 m	

Information related to Exposure:

Tune-up tolerance (according to the manufacturer):	4 dB
Separation distance:	< 5 mm
Exposure tier:	general public
Power averaging over time:	not applied

Separation	Channel	EIRP	EIRP	Limit	Ratio	Result
distance	frequency	+ tolerance	+ tolerance	(mW)	of limit	
(mm)	(MHz)	(dBm)	(mW)			
< 5	13.56	-21.07	0.008	1.00	0.008	Passed

Table 2: Result of SAR test exclusion, exposure to the head and body

EIRP is calculated using the formula of ANSI C63.10-2013 clause 9.5:

EIRP = E + 20log(d) - 104.7

Where: EIRP = equivalent isotropically radiated power in dBm

 $E = electric field strength in dB\mu V/m$ 

d = measurement distance in meters (m)