## 8. Radio Frequency Exposure

## 8.1. Applicable Standards

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	The available maximum time-averaged power is no more than 1 mW,								
§1.1307(b)(3)(i)(A)	regardless of separation distance.								
	ERP is below a threshold calculated based on the distance , R between the person an antenna / radiating structure, where R > $\lambda$ /2 $\pi$ . TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES								
		RF Sou		10 KOU	TINE ENVIRONMENTAL E  Minimum Distance			Threshold	
		Frequer			Minimum Distance			ERP	
\$1.1307(b)(3)(i)(c)		$f_{\rm L}$ MHz		f <sub>H</sub> MHz	$\lambda_L / 2\pi$		$\lambda_{\mathrm{H}}$ / $2\pi$	W	
31.1007 (5)(0)(1)(0)		0.3	-	1.34	159 m	_	35.6 m	1,920 R <sup>2</sup>	
		1.34	_	30	35.6 m	_	1.6 m	3,450 R <sup>2</sup> /f <sup>2</sup>	
		30	_	300	1.6 m	_	159 mm	3.83 R <sup>2</sup>	
		300	_	1,500	159 mm	_	31.8 mm	0.0128 R <sup>2</sup> f	
		1,500	-	100,00	31.8 mm	-	0.5 mm	19.2R <sup>2</sup>	
	Subscripts L and H are low and high; λ is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.								
	Device operates between 300 MHz and 6 GHz and the maximum time-averaged								
	power or effective radiated power (ERP), whichever is greater, <= Pth								
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$								
				(E	$RP_{20\ cm}$		20 cm	$< d \le 40 \text{ cm}$	
	Where								
§ 1.1307(b)(3)(i)(B).	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$ and $f$ is in GHz;								
	and								
				$ERP_{20}$	<sub>cm</sub> (mW) =	${204 \choose 306}$	0.3 GH 0 1.5 GH	$z \le f < 1.5   ext{GHz}$ $z \le f \le 6   ext{GHz}$	
	<pre>d = the separation distance (cm);</pre>								
	a – the separation distance (cit),								

Cerpass Technology Corp. T-FD-504-0 Ver 1.7 Issued date : Oct. 16, 2024
Page No. : 31 of 32
FCC ID. : SWX-UAG3

Report No.: 24070590-TRFCC01

## 8.2. EUT Specification

Frequency band (Operating)	13.553MHz ~ 13.567MHz		
Device category	<ul><li>☐ Portable (&lt;20cm separation)</li><li>☑ Mobile (&gt;20cm separation)</li></ul>		
Antenna diversity	<ul> <li>Single antenna</li> <li>Multiple antennas</li> <li>☐ Tx diversity</li> <li>☐ Rx diversity</li> <li>☐ Tx/Rx diversity</li> </ul>		
Evaluation applied	<ul><li>☑ Blanket 1 mW Blanket Exemption</li><li>☑ MPE-based Exemption</li><li>☑ SAR-based Exemption</li></ul>		
Remark:			
<ol> <li>The maximum Fund gain.)</li> </ol>	damental Emission is <u>60.648dBuV/m</u> at <u>13.56MHz</u> (with <u>0dBi antenna</u>		

Report No.: 24070590-TRFCC01

## 8.3. Test Results

Modulation Mode	Channel Frequency (MHz)	Fundamental Emission (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max.Tune up e.i.r.p. Power (dBm)	Max.Tune up e.i.r.p. Power (W)	Limit (W)
0	13.56	-34.58	-34.08	0	-34.08	0.000000391	1

Antenna	Antenna	Diatanas	Fundamental	Fundamental	Fundamental	Fundamental	
Gain	Gain	Distance	Emission	Emission	Emission	Emission	
(dBi)	(linear)	(m)	(dBuV/m)	(V/m)	(W)	(dBm)	
0	1	3	60.648	0.00108	0.000000348	-34.58	

No non-compliance noted.

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 Cerpass Technology Corp.
 Issued date
 : Oct. 16, 2024

 T-FD-504-0 Ver 1.7
 Page No.
 : 32 of 32

 FCC ID.
 : SWX-UAG3