12. Radio Frequency Exposure

12.1 Applicable Standards

TZ.1 Applicable Sta						_			
	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 and antenna / radiating structure, where R > λ /2 π . TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION								
		RF Source				ım I	istance	Threshold	
		equency MHz		£	λ _L / 2π		λ _H / 2π	ERP	
§1.1307(b)(3)(i)(c)	JL 1	IVIIIZ		f _н ИНz	ΛL / Zπ		Λ _H / Z _L	W	
§1.1307(b)(3)(l)(c)).3 -	_	1.34	159 m	_	35.6 m	1,920 R ²	
	1	.34 -	-	30	35.6 m	_	1.6 m	$3,450 \text{ R}^2/f^2$	
		30 -	_	300	1.6 m	_	159 mm	3.83 R ²	
	_	500 -	_	,500	159 mm	_	31.8 mm	$0.0128 \text{ R}^2 f$	
		500	- 10	00,00	31.8 mm	_	0.5 mm	19.2R ²	
	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								
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$								
	Where				20 cm		20 0	1 u _ 10 u	
§ 1.1307(b)(3)(i)(B).	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz};$								
	and								
	$ERP_{20 \ cm} \ (\text{mW}) = \begin{cases} 2040 f & 0.3 \ \text{GHz} \le f < 1.5 \ \text{GHz} \\ \\ 3060 & 1.5 \ \text{GHz} \le f \le 6 \ \text{GHz} \end{cases}$								
	<pre>d = the separation distance (cm);</pre>								

Cerpass Technology Corp. T-FD-506-0 Ver 1.6

Issued Date : Jan. 16, 2024 Page No. : 47 of 48

Report No.: 23120165-TRFCC01

FCC ID. : 2ASCN-PW2031

12.2 EUT Specification

<u> </u>							
	☐ WLAN: 2412MHz ~ 2462MHz						
	☐ WLAN: 5150MHz ~ 5250MHz						
Frequency band	☐ WLAN: 5250MHz ~ 5350MHz						
(Operating)							
	⊠ Bluetooth: 2402MHz ~ 2480MHz						
Davisa astagony	□ Portable (<20cm separation)						
Device category	☐ Mobile (>20cm separation)						
	Single antenna						
Antenna diversity	☐ Tx diversity						
	Rx diversity						
	☐ Tx/Rx diversity						
	☐ Blanket 1 mW Blanket Exemption						
Evaluation applied	MPE-based Exemption						
	SAR-based Exemption						
Remark:							
The maximum conducted output power is 2.63dBm (1.832mW) at 2402MHz (with -15.90dBi							
antenna gain.)							

12.3 Result

Channel Frequency (MHz)	•	Max. Tune up power (dBm)	power	Antenna Gain(dBi)	Max.Tune up e.i.r.p. Power (dBm)	Max.Tune up e.r.p. Power (dBm)	Max.Tune up e.r.p. Power (mW)		SAR test exclusion thresholds (mW)
2402-2480	2.63	3.13	2.06	-15.90	-12.77	-14.92	0.03	5	2.72

No non-compliance noted.

-----THE END OF REPORT-----

Cerpass Technology Corp. T-FD-506-0 Ver 1.6 Issued Date : Jan. 16, 2024
Page No. : 48 of 48

Report No.: 23120165-TRFCC01

FCC ID. : 2ASCN-PW2031