

RADIO TEST REPORT

S T S

A B Report No: STS2109117H01

Issued for

TerreStar 1.4 Holdings LLC

344 Maple Avenue NW, #275 Vienna VA 22180 USA

Product Name:	Patient Worn Device
Brand Name:	N/A
Model Name:	PWD1400A
Series Model:	N/A
FCC ID:	2A24SPWD1400A
Test Standard:	FCC 47CFR §2.1093

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Test Report Certification

Applicant's Name : TerreStar 1.4 Holdings LLC	
Address 344 Maple Avenue NW, #275 Vienna VA 22180 US	SA
Manufacturer's Name: TerreStar 1.4 Holdings LLC	
Address : 344 Maple Avenue NW, #275 Vienna VA 22180 US	3A
Product Description	
Product Name : Patient Worn Device	
Brand Name: N/A	
Model Name : PWD1400A	
Series Model : N/A	
Standards FCC 47CFR §2.1093	

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Date of Test	
Date of receipt of test item	Sept. 14, 2021
Date (s) of performance of tests	Sept. 14, 2021~ Sept. 22, 2021
Date of Issue	Sept. 22, 2021
Test Result	Pass

Testing Engineer

(Chris Chen) **Technical Manager** ean She 1 (Sean she) Authorized Signatory : (Vita Li)

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents	
00	Sept. 22, 2021 STS2109117H01		ALL	Initial Issue	



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Report No.: STS2109117H01

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Patient Worn Devi	Patient Worn Device			
Brand Name	N/A	N/A			
Model Name	PWD1400A				
Series Model	N/A				
Model Difference	N/A	N/A			
	The EUT is Patien	t Worn Device			
	Licensed	1390-1392 MHz,1392-1395 MHz,1432-1435			
	frequency range	MHz			
	Operating	1390-1395 MHz;			
Product Description	frequency range	1432-1435 MHz			
	Modulation Type:	GFSK			
	Antenna gain:	Integral antenna			
	Antenna 0 dBi				
Power input	3 pcs AA 1.5V batteries				
Hardware Version	N/A				
Software Version	N/A				

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

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2. FCC 47CFR §2.1093 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in KDB 447498 D01 General RF Exposure Guidance v06 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached. Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm		
150	39	77	116	155	194			
300	27	55	82	110	137			
450	22	45	67	89	112			
835	16	33	49	66	82			
900	16	32	47	63	79			
1500	12	24	37	49	61	SAR Test Exclusion		
1900	11	22	33	44	54	Threshold (mW)		
2450	10	19	29	38	48			
3600	8	16	24	32	40			
5200	7	13	20	26	33			
5400	6	13	19	26	32			
5800	6	12	19	25	31			
MHz	30	35	40	45	50	mm		
150	232	271	310	349	387			
300	164	192	219	246	274			
450	134	157	179	201	224			
835	98	115	131	148	164			
900	95	111	126	142	158			
1500	73	86	98	110	122	SAR Test Exclusion		
1900	65	76	87	98	109	Threshold (mW)		
2450	57	67	77	86	96	()		
3600	47	55	63	71	79			
5200	39	46	53	59	66			
5400	39	45	52	58	65			
5800	37	44	50	56	62			

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The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

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[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f}(GHz)$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,where 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

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



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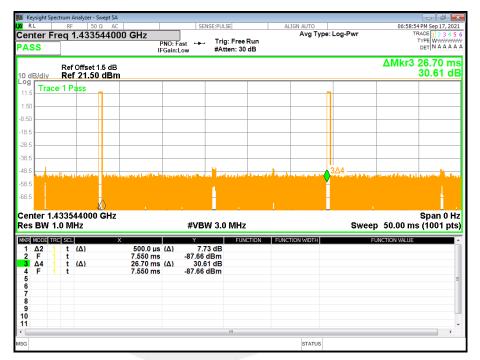
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2.3 TEST RESULT

MAX Power:

RF Function	Peak Power (dBm)	AVG Power (dBm)	Duty cycle fator (dB)	T (ms)	Ton (ms)	Duty cycle (%)
1391.650	15	-2.28	17.27541257	26.7	0.5	1.87%
1433.544	14	-3.28	17.27541257	26.7	0.5	1.87%

Duty cycle



Protocol	Max Turn up Power	Max Turn up Power	Power Density	Limit (mW/c	Result
	(dBm)	(mW)	(mW/cm²)	m²)	
1391.650	-2.28	0.59	0.1397	3.000	Pass
1433.544	-3.28	0.47	0.1126	3.000	Pass

* * * * * END OF THE REPORT * * * * *

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