



F2 Labs
16740 Peters Road
Middlefield, Ohio 44062
United States of America
www.f2labs.com

SAR EXCLUSION REPORT

Manufacturer: Namatad, Inc.
1705 Dock Street, Unit 106
Tacoma, Washington 98402 USA

Applicant: Same as Above

Product Name: FIREFLY Device

Product Description: Network-accessible location-tracking device

Model: N1

FCC ID: 2A4GV-FIREFLYN1

Contains FCC ID: 2AC7Z-ESP32WROOM32E

Standard(s):

- KDB447498 Appendix A

Report Constructed by:

Julius Chiller, EMC/Wireless Engineer

Report Reviewed by:

Ken Littell, Vice President of EMC

F2 Labs
26501 Ridge Road
Damascus, MD 20872
Ph 301.253.4500

F2 Labs
16740 Peters Road
Middlefield, OH 44062
Ph 440.632.5541

F2 Labs
8583 Zionsville Road
Indianapolis, IN 46268
Ph 317.610.0611

This test report may be reproduced in full; partial reproduction only may be made with the written consent of F2 Labs. The results in this report apply only to the equipment tested.



TABLE OF CONTENTS

Section	Title	Page
1	ADMINISTRATIVE INFORMATION	3
2	SUMMARY OF TEST RESULTS/MODIFICATIONS	4
3	ENGINEERING STATEMENT	5
4	EUT INFORMATION AND DATA	6



Order No(s): F2P26332

Applicant: Namatad, Inc.

Model: N1

1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

1.2 Document History

Document Number	Description	Issue Date	Approved By
F2P26332-03E	First Issue	2022-07-14	K. Littell



Order No(s): F2P26332

Applicant: Namatad, Inc.

Model: N1

2 SUMMARY OF RESULTS

	Standard(s)	Results
SAR Exclusion	KDB447498, Appendix A	Complies

Modifications Made to the Equipment
None



3 ENGINEERING STATEMENT

This report has been prepared on behalf of Namatad, Inc to provide documentation for the SAR Exclusion herein. This equipment has been tested and found to comply with the SAR Exclusion levels listed in Appendix A of KDB447498. The minimum distance from the BT module antenna used inside of the N1, is 8mm. The output power of the BT classic is the highest at 10mW, which is well below the exclusion limit of 15.2mW at 8mm. The max EIRP is 13.4mW, which is still below the 15.2mW threshold.

Appendix A

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in section 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
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	
1900	11	22	33	44	54	
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	



Order No(s): F2P26332

Applicant: Namatad, Inc.

Model: N1

4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: FIREFLY Device

Model: N1

Serial No.: None Specified

FCC ID: **2A4GV-FIREFLYN1**

Contains FCC ID: 2AC7Z-ESP32WROOM32E

4.2 Trade Name:

Namatad, Inc.

4.3 Power Supply:

Wireless Charger

Trade Name: Chotech

Model: T511-S

4.4 Applicable Rules:

KDB447498

4.5 Equipment Category:

A network-accessible location-tracking device

4.6 Antenna:

Integral Antenna

4.7 Accessories:

N/A