

RF Exposure Evaluation declaration

Product Name : NFC module
Model No. : NFC module, AWM-001
FCC ID : MSQ-NFCAWM001

Applicant : ADVANCED WIRELESS & ANTENNA INC.
Address : B2-F, No. 207-1, Sec. 3, Bei-Hsin Rd., Xindian Dist.,
New Taipei City, 231, Taiwan

Date of Receipt : Jul. 22, 2021
Date of Declaration : Sep. 17, 2021
Report No. : 2170944R-RFUSMPEV03-A
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

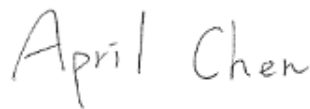
Issued Date: Sep. 17, 2021

Report No.: 2170944R-RFUSMPEV03-A



Product Name	NFC module	
Applicant	ADVANCED WIRELESS & ANTENNA INC.	
Address	B2-F, No. 207-1, Sec. 3, Bei-Hsin Rd., Xindian Dist., New Taipei City, 231, Taiwan	
Manufacturer	ADVANCED WIRELESS & ANTENNA INC.	
Model No.	NFC module, AWM-001	
FCC ID.	MSQ-NFCAWM001	
Trade Name	awan	
Applicable Standard	KDB 447498 D01 v06	☐ Minimum test separation distance ≥ 20 cm ☒ For low power devices
Test Result	Complied	

Documented By :



(Senior Project Specialist / April Chen)

Tested By :



(Supervisor / Wen Lee)

Approved By :



(Manager / Tim Sung)

Revision History

Report No.	Version	Description	Issued Date
2170944R-RFUSMPEV03-A	V0.1	Initial issue of report.	Sep. 17, 2021

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	NFC module
Trade Name	awan
Model No.	NFC module, AWM-001
FCC ID	MSQ-NFCAWM001
Frequency Range	13.56MHz
Modulation	ASK
Antenna Type	Loop coil Antenna

2. RF Exposure Evaluation

2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 ($\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0$), SAR is required as shown in the table below where calculated values are greater than 3.0:

- 1.) Operation frequency = 10MHz and antenna separation distance = 5mm,
SAR Test Exclusion Threshold = 474mW

Frequency Band	Maximum Peak ERP power		SAR Test Exclusion Threshold	Calculated Threshold Value (≤ 3.0 SAR is not required)
	(dBuV/3m)	(mW)	(mW)	
13.56MHz	69.3	0.00156	474	0.0004

Note1: The SAR/MPE measurement is not necessary.

Note2: The Maximum Peak EIRP power is refer to report No.: 2170944R-RFUSOTHV03 from the DEKRA.