



## EMI TEST REPORT

FOR RIVERDI STM32 EMBEDDED 10.1" SERIES

Rev.1.0  
2022-03-17

The EMI test report applies to below Riverdi STM32 Embedded 10.1" series

PRODUCT NAME	DESCRIPTION
RVT101HVSNWN00	10.1", 1000 cd/m <sup>2</sup> , IPS, MCU STM32H747XIH6, No Touch, Without metal frame
RVT101HVSFWN00	10.1", 1000 cd/m <sup>2</sup> , IPS, MCU STM32H747XIH6, No Touch, Metal frame



## 1. REVISION RECORD

REV NO.	REV DATE	CONTENTS	REMARKS
1.0	2022-03-17	Initial Release	



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## 3. SUMMARY OF TEST RESULT

TEST ITEM	NORM APPLIED	Result
RADIATED EMISSION 30-1000 MHz	EN 55032 (CISPR32). Radiated emission 30-1000 MHz (EMI)	Pass

Date of Test: 11/03/2022

Certificated EMC Lab: RADMOR S.A., Gdynia.

Scope of accreditation for the testing lab: **No AB 1132**

More info about the lab from the below link:

<https://www.radmor.com.pl/services/lab>



AB 1132

## 4. GENERAL INFORMATION

### 4.1 Description of EUT

<b>PRODUCT NAME</b>	RVT101HVSNNW00
<b>TEST VOLTAGE</b>	Battery 12V

**Note.** All test was performed on RVT101HVSNNW00. But results applied for every module within this line: RVT101HVSNNW00, RVT101HVSFWN00.

### 4.2 Description of EUT peripheral

The module was pre-programmed with a demo prepared by Riverdi before the EMI test.

The module was powered by a 12V battery during the EMI test,

Animated pictures were presented on the screen.

### 4.3 Measuring device and test settings

EQUIPMENT	MODEL	VERSION
EMI test receiver	Rohde & Schwarz ESW-44	1.72 SP1

Meas BW: 120 kHz	Filter Type: Quasipeak	Meas Time: 1 s	Center Freq: 1 GHz
Attenuation: 0 dB	Auto Range: On	Auto Preamp: On	Preamp: On
Preselector: On	Filter Split: Off	Notch Filter 1: Off	Notch Filter 2: Off
Input: 1 DC			

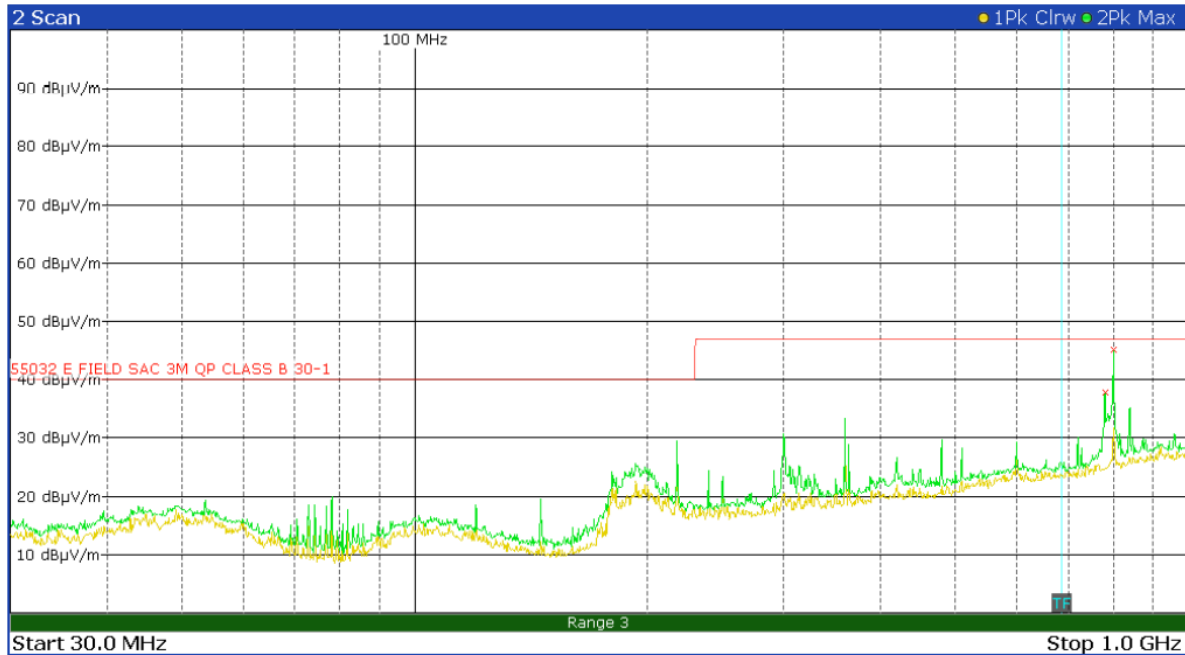


## 5. TEST RESULTS

### 5.1 Test results

#### Horizontal 360°

The measurements were done by rotating the EUT on a turntable 0 to 360 degrees to find the maximum field-strength readings from an EUT directional standpoint.



**Trace 2:**

MAX HOLD

MAX PEAK

Meas Time: 1 s

Margin: 10 dB

Peak Values: 2

Trace	Frequency	Level	Delta Limit	LISN Phase	Comment
2	780.1 MHz	37.73 dBµV/m	-9.27 dBµV/m		
2	800.8 MHz	45.08 dBµV/m	-1.92 dBµV/m		

## Vertical 360°

The measurements were done by rotating the EUT on a turntable 0 to 360 degrees to find the maximum field-strength readings from an EUT directional standpoint.



## 6. Photos

Figure 1. Radiation Emission 30-1000MHz Test Front View





## 7. Summary

The test results confirmed the low electromagnetic emissions of STM32 Embedded 10.1" series.

It produces low electromagnetic interference (EMI) to the surrounding space. In consequence, external electronic devices or circuits do not need special electromagnetic screening.

