

RM Costruzioni Elettroniche S.r.l.

MPE ASSESSMENT REPORT

Report Type:

FCC Part §2.1091 and §1.1310 assessment report

Model:

BLA703 FCC

REPORT NUMBER:

2405B0268SHA-002

ISSUE DATE:

December 13, 2024

DOCUMENT CONTROL NUMBER:

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TEST REPORT

Applicant: RM Costruzioni Elettroniche S.r.l.
Via IV Novembre 42, 40046, Ponte della Venturina, Alto Reno Terme
(BOLOGNA), ITALY

Manufacturer: RM Costruzioni Elettroniche S.r.l.
Via IV Novembre 42, 40046, Ponte della Venturina, Alto Reno Terme
(BOLOGNA), ITALY

Manufacturing site: RM Costruzioni Elettroniche S.r.l.
Via IV Novembre 42, 40046, Ponte della Venturina, Alto Reno Terme
(BOLOGNA), ITALY

Product Name: HF 25-30 MHz Linear Amplifier

Type/Model: BLA703 FCC

FCC ID: 2ACTR-BLA703

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06
FCC Part2.1091, FCC Part1.1310

PREPARED BY:

Project Engineer
Dylan Tang

REVIEWED BY:

Reviewer
Wakeyou Wang

Revision History

Report No.	Version	Description	Issued Date
2405B0268SHA-002	Rev. 01	Initial issue of report	December 13, 2024

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	BLA703
Type/Model:	BLA703 FCC
Description of EUT:	The EUT is a BLA703, it has only one model.
Rating:	AC100/120V 550W max
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	1.4
Hardware Version:	1.1
Sample received date:	May 9, 2024
Date of test:	May 9, 2024 ~ November 1, 2024

1.2 Technical Specification

Frequency Range:	28MHz ~ 30MHz
RF O/P Power (Max.)	550W
Type of Modulation:	SSB, CW, AM, FM, Data
Antenna Connector	UHF

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 MPE Assessment

Test result: Pass

2.1 MPE Assessment Limit

Frequency range (MHz)	E-field strength (V/m)	H-field strength (A/m)	Equivalent plane wave power density S_{eq} (W/m ²)	Averaging time (minutes)
Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	842/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<6
300-1,500			f/1500	<6
1,500-100,000			1.0	<6

f = frequency in MHz. * = Plane-wave equivalent power density.

2.2 Assessment Results

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report: 2405B0268SHA-001.

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

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Frequency band	Power	Antenna Gain		R	S	Limit for Uncontrolled Exposure	Limit for Controlled Exposure	Distance Required to meet Uncontrolled Exposure Limit
(MHz)	W	dBi	(Numeric)	(cm)	(mW/cm ²)	(mW/cm ²)	(mW/cm ²)	(cm)
28 – 30	550	0	1	20	109.48	0.2	1	468

Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 468 cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.

*****END*****