

Manufacturer: Zucchetti Axess S.p.A.

Name: Roberto Giampaglia

Product: RFID9

Title: Laboratories Manager

FCC ID: SYL90490161B

Signature: 

MPE limits (§1.1310)

Mode	Frequency	Duty Cycle	Power	Antenna		EIRP ¹	EIRP	Distance	PD ²	PD Limit ³	Margin	2.1091 EIRP	2.1091 EIRP	PD/PD Limit
				Gain								Limit	Margin	
	MHz	%	dBm	dBi		dBm	mW	cm	mW/cm ²	mW/cm ²	dB	mW	dB	
BLE ⁴	2480.0	100	7.78	3.4		11.18	13.1	20	0.0026	1.000	25.83	1260	19.8	0.00261
RFID ⁵	13.56	100	-42.93	0		-42.93	0.00005	20	0.0000	0.979	79.85	1231	73.8	0.00000

FCC Co-Location = 0.00261 < 1

¹EIRP = (Power dBm + Antenna Gain dBi) + 10 x Log (Duty Cycle % / 100)
²PD = EIRP / (4xπxD²)
³CFR 47 Part 1, §1.1310(e), table 1, (ii) Limits for General Population/Uncontrolled Exposure
⁴See FCC ID: 2AC7Z-ESP32WROOM32E, test report n. RSHD200218007-00A by Bay Area Compliance Laboratories Corp. (Kunshan) dated 2020-04-02
⁵See FCC ID: SYL90490161B, test report n. REP091219 by Nemko SpA dated 2025-04-11 (52.3 dBμV/m @ 3 m = -42.93 dBm eirp)

2.1091 EIRP Limit
1.1307 (b)(3)(i)(C) exemption limit

RF Source						Threshold	Threshold	Threshold		
Frequency	f	R	λ	λ/2π	R/(λ/2π)	ERP	EIRP	EIRP	EIRP	Margin
MHz	MHz	m	m	m		W	W	mW	mW	dB
1.34-30	13.56	0.20	22.124	3.5211	0.06	0.75052	1.231	1231	0.0	73.8
1500-100000	2480.0	0.20	0.121	0.0193	10.4	0.76800	1.260	1260	13.1	19.8