



MPE CALCULATION

APPLICANT: EMBIT s.r.I EMBEDDED & WIRELESS SOLUTION

Via Emilia Est, 911 – 41100 Modena (MO) Italy

Tel. +39 059 371714 Fax +39 059 3680498

E-mail: marketing@embit.it

EUT DESCRIPTION Radio Equipment ZigBee module

EUT TRADEMARK EMBIT

EUT MODEL EMB-PWO; EMB-Z2530PA; EMB-Z2530; EMB-Z253x (just

different commercial type names)

TEST REPORT MPETR_111254A-1

REFERENCE STANDARDS: FCC RULES PART 22 and 24

DATE OF ISSUE 29/12/2011; REV.1 17/02/2012

LABORATORY Prima Ricerca & Sviluppo S.r.l.

Via Campagna, 92 -22020 Faloppio (Co) –Italy

ISSUED BY Giacomo Armellini

VERIFIED BY Vincenzo La Fragola

The calculation results reported in this document shall refer only to Test Report above indicated and relevant tested sample

Giorno Armellini Duanto de Jagle



Test Report Reference

▶ FCCTR_111254-2 issued on 17/02/2012 by Prima Ricerca & Sviluppo

External Antenna: EMB-AN24-55RDD RUBBER DUCK - DIPOLE ANTENNA

	Calculation Results	
Power at the Antenna Connector	0.1205 W	
Antenna Gain in dB	5.5 dBi	
Distance to the Area of Interst	0.656 feet	
	0.1999 metres	
Frequency of Operation	2405 MHz	
Are Ground reflections Calculated	Yes	
Estimated RF Power Density	0.2179 mW/cm ²	

	Controlled Environment	Uncontrolled Environment
Maximum Permissible Exposure (MPE)	5.005 mW/cm²	1.005 mW/cm²
Distance to Compliance From Centre of Antenna	0.1869 feet 0.057 metres	0.3562 feet 0.1086 metres
Does the Area of Interest Appear to be in Compliance	yes	yes



External Antenna: EMB-AN24-14YA - YAGI ANTENNA

	Calculation Results	
Power at the Antenna Connector	0.1205 W	
Antenna Gain in dB	14 dBi	
Distance to the Area of Interst	6.56 feet	
	1.999 metres	
Frequency of Operation	2405 MHz	
Are Ground reflections Calculated	Yes	
Estimated RF Power Density	0.0155 mW/cm ²	

	Controlled Environment	Uncontrolled Environment
Maximum Permissible Exposure (MPE)	5.005 mW/cm²	1.005 mW/cm²
Distance to Compliance From Centre of Antenna	0.4143 feet 0.1263 metres	0.8647 feet 0.2636 metres
Does the Area of Interest Appear to be in Compliance	yes	yes





PHOTO 1 - E.U.T. IDENTIFICATION



