

RE-21-D592-DAV-8-A Ed. 0

MPE test report

According to the standard: CFR 47 FCC PART 15

Equipment under test: 900 MHz RF Module

FCC ID: 2AUQC-XB900HP

Company: DAVEY BICKFORD

Distribution: Mrs STOJANOVIC (Company: DAVEY BICKFORD)

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This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole manufactured products of the tested sample.

Information in italics are declared by the manufacturer/customer and are under his responsibility





DESIGNATION OF PRODUCT:	900 MHZ RF Module		
Serial number (S/N):	/		
Reference / model (P/N):	XBEE PROS3B		
Software version:	/		
MANUFACTURER:	DAVEY BICKFORD		
COMPANY SUBMITTING THE PRODU	UCT:		
Company:	DAVEY BICKFORD		
Address:	LE MOULIN GASPARD CHEMIN DE LA PYROTECH 89550 HERY FRANCE	NIE	
Responsible:	Mrs STOJANOVIC		
DATES OF TEST:	1		
TESTING LOCATION:	EMITECH ANGERS laborato FCC Accredited under US-EL Test Firm Registration Number	J MRA Designation N	
TESTED BY:	S. LOUIS	VISA:	Joseph .
WRITTEN BY:	S. LOUIS		



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REVISIONS HISTORY

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1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: **900 MHz RF Module**, in accordance with normative reference.

2. PRODUCT DESCRIPTION

Category of equipment (ISED): I

Antenna type and gain: 5.1 dBi / Whip antenna

Operating frequency range: From 902 MHz to 928 MHz

Number of channels: 64 (Hopping Mode)

Channel spacing: Not concerned

Modulation: FSK

3. NORMATIVE REFERENCE

The standards and testing methods related throughout this report are those listed below.

They are applied on the whole test report even though the extensions (version, date and amendment) are not repeated.

CFR 47 (2022) Radio Frequency Devices

ANSI C63.10 2013

Procedures for ComplianceTesting of Unlicensed Wireless Devices.

447498 D04 Interim General

RF Exposure Pocedures and Equipment Authorization Policies for Mobile and

RF Exposure Guidance v01 Portable Devices



	EXP(

In accordance with KDB 447498 D04 Interim General RF Exposure Guidance v01, Paragraph 4.3.1.

SAR-Based Exemption according paragraph 2.1.3

The test separation distance measured is 60 mm (with a minimum value of 5 mm) – see appendix 1.

According §1.1307, at frequency 902 MHz for this distance, the ERP exemption threshold is 316 mW ERP

According §2.1.1 of KDB 447498 D04 Interim General RF Exposure Guidance v01, this exemption threshold is based on a threshold for exposure for 1-g SAR (head and body). For a threshold corresponding to a 10-g extremity SAR exposure, it is necessary to apply a factor of 2.5 to the determined exemption threshold.

Therefore, 10-g extremity SAR IS 316 mW ERP x 2.5 = **789 mW ERP**

According grant, the conducted power of the module FCC ID: MCQ-XB900HP is 298 mW. The antenna gain declared is 5.1 dBi.

The applicant declares a maximum duty cyle of 33 % on a time period of 30 minutes (Ton = 620ms every 1,851s)

According §3.1.2 of KDB 447498 D04 Interim General RF Exposure Guidance v01, the maximum time-averaged power level resulting is **197 mW ERP**.

The maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW).

The equipment fulfils the requirements on SAR-Based Exemption according §1.1307(b)(3)(i)(B).

□□□ End of report, 1 appendix to be forwarded □□□



APPENDIX 1: Minimum distance for normal use inside host product

