

#### 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:	
Company.	
DAVEY BICKFORD	

Distribution: Mrs STOJANOVIC

(Company: DAVEY BICKFORD)

Number of pages: 6 with 1 appendix

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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 PROD	DUCT:		
Company:	DAVEY BICKFORD		
Address:	LE MOULIN GASPARD CHEMIN DE LA PYROTECHNIE 89550 HERY FRANCE		
Responsible:	Mrs STOJANOVIC		
DATES OF TEST:	1		
TESTING LOCATION:	EMITECH ANGERS laboratory at JUIGNE SUR LOIRE (49) FRANCE FCC Accredited under US-EU MRA Designation Number: FR0009 Test Firm Registration Number: 873677		
TESTED BY:	S. LOUIS VISA:		
WRITTEN BY:	S. LOUIS		



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## **REVISIONS HISTORY**

Revision	Date	Modified pages	Modifications
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#### 1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: <u>900 MHz RF</u> <u>Module</u>, 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 Guidance v01	RF Exposure Pocedures and Equipment Authorization Policies for Mobile and Portable Devices





#### 4. RF EXPOSURE

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 timeaveraged 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 □□□



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### APPENDIX 1: Minimum distance for normal use inside host product