

RF Exposure Evaluation Report

APPLICANT	:	PAX Technology Limited
EQUIPMENT	:	mPOS
BRAND NAME	:	PAX
MODEL NAME	:	D180
MARKETING NAME	:	D180
FCC ID	:	V5PD180RF
STANDARD	:	47 CFR Part 2.1093
		FCC KDB 447498 D01 v05r02

We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093, and pass the limit. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Cole hung

Reviewed by: Eric Huang / Deputy Manager

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA473003	Rev. 01	Initial issue of report	Sep. 10, 2014



1. Administration Data

Testing Laboratory			
Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.		
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C. TEL: +86-755- 3320-2398		

Applicant			
Company Name PAX Technology Limited			
Address	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong		

Manufacturer			
Company Name PAX Computer Technology (Shenzhen) Co., Ltd.			
	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.		



2. General Information

2.1 Description of Device Under Test (DUT)

Product Feature & Specification			
DUT Type	mPOS		
Brand Name	PAX		
Model Name	D180		
Marketing Name	D180		
FCC ID	V5PD180RF		
Wireless Technology and	Bluetooth: 2402 MHz ~ 2480 MHz		
Frequency Range	NFC:13.56MHz		
Mode	Bluetooth v3.0+EDR		
	• NFC:ASK		
Antenna Type	Monopole Antenna		
HW Version	D180-xxx-xx3-0xxx		
SW Version	3.01.xx		
DUT Stage	Identical Prototype		

Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

3. Maximum RF output power among production units

		Bluetooth	
Mode / Band	1Mbps	2Mbps	3Mbps
	(GFSK)	π/4-DQPSK	(8-DPSK)
2.4GHz Bluetooth	-7.5	-8.0	-8.0

3.1 Applied Standard

- 47 CFR Part 2.1093
- FCC KDB 447498 D01 v05r02



4. <u>RF Exposure Evaluation</u>

Bluetooth	mW	Separation	Frequency	Exclusion
Max Power (dBm)		Distance (mm)	(GHz)	Thresholds
-7.5	0.20	0	2.48	0.1

Note:

 Per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation* distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- · The result is rounded to one decimal place for comparison

Conclusion: Per KDB 447498 D01v05r02, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.1 which is <= 3.0, SAR testing is not required.