



# A Test Lab Techno Corp.

Changan Lab : No. 140 -1, Changan Street, Bade City, Taoyuan County, Taiwan R.O.C.  
Tel : 886-3-271-0188 / Fax : 886-3-271-0190

## RF Exposure Evaluation



<b>Test Report No.</b>	<b>: 1204FS14</b>
<b>Applicant</b>	<b>: ID TECH</b>
<b>Manufacturer</b>	<b>: ID TECH</b>
<b>Product Type</b>	<b>: Bluetooth Magnetic Stripe Reader</b>
<b>Trade Name</b>	<b>: IDTECH</b>
<b>Model Number</b>	<b>: ID-80125001-zyx</b>
<b>Dates of Received</b>	<b>: Mar. 20, 2012</b>
<b>Dates of Test</b>	<b>: Apr. 18, 2012</b>
<b>Dates of Issued</b>	<b>: Apr. 19, 2012</b>
<b>Test Specification</b>	<b>: 47 CFR § 2.1093</b> <b>OET65 Supplement C</b> <b>KDB 447498</b> <b>KDB 648474</b>
<b>Location of Test Lab.</b>	<b>: Chang-an Lab.</b>

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
3. The measurement report has to be written approval of A Test Lab Techno Corp. It may only be reproduced or published in full. This report shall not be reproduced except in full, without the written approval of A Test Lab Techno Corp.
4. This document may be altered or revised by A Test Lab Techno. Corp. personnel only, and shall be noted in the revision section of the document.

Approved By : Yung-Tan Tsai Tested By : Bill Hu  
(Yung Tan Tsai) (Bill Hu)



# Contents

1.	Description of Equipment under Test (EUT) .....	3
2.	RF Exposure Evaluation .....	4
2.1	RF Output Power.....	4
2.2	Test Result.....	4



**1. Description of Equipment under Test (EUT)**

Applicant	ID TECH
Applicant Address	10721 Walker Street, Cypress, CA 90630, USA
Manufacturer	ID TECH
Manufacturer Address	10721 Walker Street, Cypress, CA 90630, USA
Product Type	Bluetooth Magnetic Stripe Reader
Trade Name	IDTECH
Model Number	ID-80125001-zyx z = for color of the rubber, 0 represent default dark grey color y = for color of unit, 0 represent default black color x = customer logo, 1 represent <IDTECH> logo
FCC ID	WQJ-ID80125001ZYX
Frequency Range	2402 - 2480 MHz
Transmit Power (conducted power)	0.00123 W / 0.90 dBm
Antenna Specification	2.5 dBi
Antenna Designation	Multilayer Chip Antenna
Temperature Range	-30 ~ +70°C

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1093 & OET65 Supplement C. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties



## 2. RF Exposure Evaluation

As RF exposure evaluation of portable device, SAR test is not required for low power device. According to KDB 447498 1) C), unless excluded by specific FCC test procedures, portable devices with output power  $> 60/f(\text{GHz})$  mW shall include SAR data for equipment approval. SAR test necessity will be based on the output power and  $60/f$  as required by KDB 447498 in the test result.

### 2.1 RF Output Power

Band	Date Rate	CH	Frequency (MHz)	Average Conducted power (dBm)
Bluetooth	---	00	2402	0.90
		39	2441	-0.27
		78	2480	-1.59

### 2.2 Test Result

Band	Data Rate	Frequency (MHz)	Max. Avg Power		< or >	60/f (mW)	Note
			(dBm)	(mW)			
Bluetooth	---	2402	0.90	1.230	<	24.979	Power(1.23 mW) < $60/f$ (24.979)mW, therefore SAR test is not required.
		2441	-0.27	0.940	<	24.580	Power(0.94 mW) < $60/f$ (24.58)mW, therefore SAR test is not required.
		2480	-1.59	0.693	<	24.194	Power(0.693 mW) < $60/f$ (24.194)mW, therefore SAR test is not required.