RF Exposure Evaluation Report

APPLICANT	:	TomTom International BV
EQUIPMENT	:	GPS Navigation System
BRAND NAME	:	TomTom
MODEL NAME	:	4FC54A
FCC ID	:	S4L4FC54A
STANDARD	:	47 CFR Part 2.1093 FCC KDB 447498 D01 v05r02

We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

Approved by: Jones Tsai / Manager

Testing Laboratory
1190

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA451294	Rev. 01	Initial issue of report	Jun. 17, 2014

1. Administration Data

Testing Laboratory	
Test Site	SPORTON INTERNATIONAL INC.
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Applicant	
Company Name	TomTom International BV
Address	De Ruijterkade 154, 1011 AC Amsterdam The Netherlands

Manufacturer	
Company Name	1. Tech-Giant (Shanghai) Computer Co., Ltd 2. Inventec Appliances (Pudong) Corporation
Address	1. C#,No.1, South Rongteng Road，Songjiang Export Processing Zone, Shanghai, China 2. No. 789 Puxing Road, Shanghai, PRC

2. General Information

2.1 Description of Device Under Test (DUT)

Product Feature & Specification	
DUT Type	GPS Navigation System
Brand Name	TomTom
Model Name	4FC54A
FCC ID	S4L4FC54A
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz
Mode	• Bluetooth v2.1+EDR
Antenna Type	wire Antenna
HW Version	1.3
SW Version	13
DUT Stage	Production Unit

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

Band / Mode	Average Power (dBm)
	v2.1+EDR
Bluetooth	1.0

3.1 Applied Standard

- FCC KDB 447498 D01 v05r02

4. RF Exposure Evaluation

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
1	1.00	0	2.48	0.31

Note:

1. 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*)] ·[√f(GHz)] ≤ 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 0.31 which is <= 3, SAR testing is not required.