



RF EXPOSURE REPORT

Applicant	:	Transom Post OPCO LLC
Address of Applicant	:	117 South Street Hopkinton Massachusetts 01748 United States
Manufacturer	:	Transom Post OPCO LLC
Address of Manufacturer	:	117 South Street Hopkinton Massachusetts 01748 United States
Equipment under Test	:	BT Module
Model No.	:	IBTM24
FCC ID	:	2BC3VIBTM24
Host Marketing Name	:	Veritas 250BL, Veritas 1100BH, Veritas 2160BL, Veritas 2160BH
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE24072701-1E05
Issue Date	:	2024/12/02
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

Table of Contents

1. General Test Information..... 5

1.1. Description of EUT..... 5

1.2. Accessories of EUT 5

1.3. Test laboratory 5

2. RF Exposure evaluation for FCC..... 6

2.1. Assessment procedure 6

2.2. Assess result..... 6

3. Photos of the EUT 7

Test Report Declare

Applicant	:	Transom Post OPCO LLC
Address of Applicant	:	117 South Street Hopkinton Massachusetts 01748 United States
Equipment under Test	:	BT Module
Model No.	:	IBTM24
Host Marketing Name	:	Veritas 250BL, Veritas 1100BH, Veritas 2160BL, Veritas 2160BH
Manufacturer	:	Transom Post OPCO LLC
Address of Manufacturer	:	117 South Street Hopkinton Massachusetts 01748 United States

Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24072701-1E05		
Date of Receipt:	2024/09/02	Date of Test:	2024/09/03 – 2024/12/01

Prepared By:**Jacky Huang/Engineer****Approved By:****Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/12/02	

1. General Test Information

1.1. Description of EUT

EUT Name	: BT Module
Model Number	: IBTM24
Host Marketing Name	: Veritas 250BL, Veritas 1100BH, Veritas 2160BL, Veritas 2160BH
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC 100-240V~50/60Hz
Radio Specification	: Bluetooth BR/EDR/LE
Operation Frequency	: 2402 MHz-2480 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type	: FPC antenna
Max Antenna Gain (dBi)	: 1.72 (model: C4207-810023-A(SSR-2400194)-x3) 1.29 (model: C4207-810024-A(SSR-2400191)-X3)

Note 1: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

Note 2: The Bluetooth module has two alternative antennas, which are completely the same except for the line length (22cm and 40cm) and the gain (the loss is different due to the different line length), All the test items were used the module: C4207-810023-A(SSR-2400194)-x3, which has the maximum gain.

Note 3: The limited modular was used for the host product: Veritas, which include 4 model: Veritas 250BL, Veritas 1100BH, Veritas 2160BL and Veritas 2160BH.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation for FCC

2.1. Assessment procedure

According to 447498 D01 General RF Exposure Guidance v06

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:

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

$f(\text{GHz})$ 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

2.2. Assess result

Manufacturing Tolerance:

Mode	Antenna	Frequency [MHz]	Target (dBm)	Tolerance \pm (dB)
BDR (Peak)	Ant1	2402	-15.86	1
		2441	-16.90	1
		2480	-16.75	1
EDR (Peak)	Ant1	2402	-16.04	1
		2441	-16.86	1
		2480	-16.85	1
BLE (Peak)	Ant1	2402	-16.86	1
		2440	-17.69	1
		2480	-17.78	1

Estimation Result:

Worse case is as below: [2402 MHz, -14.86 dBm, (0.03 mW) output power]

$(0.03/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.01 < 3.0$ for 1-g SAR

Then SAR evaluation is not required.

3. Photos of the EUT

Please refer to appendix I

-----End Report-----