

RF Exposure Evaluation Report

Product : Blood Pressure Monitor

Trade mark : Viatom

Model/Type reference : BP2, BP2A

Serial Number : 1904320006

Report Number : EED32L00281802

FCC ID : 2ADXK-8621

Date of Issue : Oct. 25, 2019

Test Standards : 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Test result : PASS

Prepared for:

Shenzhen Viatom Technology Co., Ltd 4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China.

Prepared by:

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2 Version

Version No.	Date	0	Description	
00	Oct. 25, 2019		Original	
	(0,0)	(6)	(6.)	(0)















































































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4 General Information

4.1 Client Information

Applicant:	Shenzhen Viatom Technology Co., Ltd		
Address of Applicant:	4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China.		
Manufacturer:	Shenzhen Viatom Technology Co., Ltd		
Address of Manufacturer:	4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China.		
Factory:	Shenzhen Viatom Technology Co., Ltd		
Address of Factory:	4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China.		

4.2 General Description of EUT

Product Name:	Blood Pressure Monitor	(3)	(3)
Model No.(EUT):	BP2, BP2A	(5,72)	(6,50)
Test Model No.:	BP2		
Trade Mark:	Viatom [™]		
EUT Supports Radios application:	4.0 BT Single mode		

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480M	1Hz			-0-
Modulation Type:	FSK		(41)		(4)
Test Power Grade:	6dBm		6		(6)
Test Software of EUT:	nRFgo Studio				
Antenna Type:	Itilayer Chip antenna				
Antenna Gain:	0.5 dBi				
Power Supply:	Battery	580mAh 3.7V		(0,2)	
Max Conducted Peak Output Power:	-7.388dBm				
	The Max Conducted Peak Output Power data refer to the report EED32L00281801				
Sample Received Date:	Sep. 29, 2019				
Sample tested Date:	Sep. 29, 2019 to Oct. 24, 2019				

The tested sample(s) and the sample information are provided by the client.

Model No.:BP2, BP2A

Only the model BP2 was tested, The BP2 has NIBP and ECG functions, and the BP2A only has NIBP function.

Their electrical circuit design, layout, components used and internal wiring of NIBP function are identical.











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4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.











































































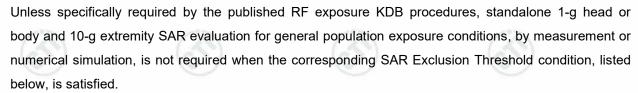
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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 Standalone SAR test exclusion considerations



5.1.2 Limits

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)] · $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation 17

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion











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5.1.3 EUT RF Exposure

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

(0.18 / 5mm) * (2.440GHz ^0.5)= 0.1

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [$\sqrt{f(GHz)}$] = 0.1< 3.0

Therefore, standalone SAR measurements are not required for both head and body















































































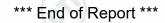




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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00281801 for EUT external and internal photos.



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