



Test Report No.: SA180529W002



RF EXPOSURE REPORT

Product: Smartwatch

Model Name: WATCH 9

FCC ID: O57WATCH9-01

Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.

Address: NO.68 BUILDING, 199 FENJU RD, Pilot Free Trade Zone,
200131, China

Manufacturer: Lenovo (Beijing) Limited

Address: Beijing Haidian District information industry base, Shangdi
venture Road No. 6

Prepared by: BV 7Layers Communications Technology (Shenzhen) Co. Ltd

Lab Location: No.B102, Dazhu Chuangxin Mansion, North of Beihuan Avenue,
North Area, Hi-Tech Industrial Park, Nanshan District,
Shenzhen, Guangdong, China

TEL: +86 755 8869 6566

FAX: +86 755 8869 6577

E-MAIL: customerservice.dg@cn.bureauveritas.com

Report No.: SA180529W002

Received Date: May 29, 2018

Test Date: May 30, 2018 ~ Jun. 09, 2018

Issued Date: Jun. 11, 2018

This report should not be used by the client to claim product certification, approval, or endorsement by A2LA or any government agencies.

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



Test Report No.: SA180529W002

TABLE OF CONTENTS

RF EXPOSURE REPORT.....	1
RELEASE CONTROL RECORD	3
1 CERTIFICATION	4
2 GENERAL INFORMATION	5
2.1 GENERAL DESCRIPTION OF EUT	5
3 RF EXPOSURE	6
3.1 SAR Test Exclusion Evaluations	6
3.2 SAR TEST EXCLUSION CALCULATION RESULT	6
3.3 CLASSIFICATION	6
3.4 CONDUCTED POWER	7



BUREAU
VERITAS

Test Report No.: SA180529W002

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA180529W002	Original release	Jun. 11, 2018



1 CERTIFICATION

PRODUCT: Smartwatch
BRAND NAME: Lenovo
MODEL NAME: WATCH 9
APPLICANT: Lenovo (Shanghai) Electronics Technology Co., Ltd.
TESTED: May 30, 2018 ~ Jun. 09, 2018
TEST SAMPLE: Production Unit
STANDARDS: **FCC Part 2 (Section 2.1093)**
KDB 447498 D01 General RF Exposure Guidance v06
IEEE C95.1:1992

The above equipment has been tested by **BV 7Layers Communications Technology (Shenzhen) Co. Ltd** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY :  , **DATE:** Jun. 11, 2018
(Roger Li / Engineer)

APPROVED BY :  , **DATE:** Jun. 11, 2018
(Sam Tung / Manager)



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smartwatch	
MODEL NAME	WATCH 9	
NOMINAL VOLTAGE	DC 3.0V	
OPERATING TEMPERATURE RANGE	-5 ~ 50°C	
MODULATION TYPE	BT_LE	BT-LE(GFSK) for DTS
OPERATING FREQUENCY	BT_LE	2402MHz ~ 2480MHz
ANTENNA GAIN	PIFA Antenna with -3dBi	
HW VERSION	v2.0	
SW VERSION	v0.2.0	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3 RF EXPOSURE

3.1 SAR Test Exclusion Evaluations

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

For the test separation distance ≤ 50 mm

$$\frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \leq 3.0 \text{ for SAR-1g, } \leq 7.5 \text{ for SAR-10g}$$

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

3.2 SAR TEST EXCLUSION CALCULATION RESULT

Per KDB447498, SAR for wrist exposure is evaluated with the back of the device position in direct contact against the flat phantom, so a distance of 5 mm is applied to determine SAR test exclusion, as below:

Mode / Band	Frequency (GHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (mm)	Max. Tune-up (mW)	\sqrt{f} (GHz)	value	SAR Require? limit:7.5(10g)
BT (DSS)	2.48	0.0	Body	5	1.00	1.575	0.3	No

3.3 CLASSIFICATION

Per the calculated result, there is no SAR test require for this device.



3.4 CONDUCTED POWER

BT_LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	-1.11	N/A
19	2440	-1.19	N/A
39	2480	-1.21	N/A

--END--