

RF EXPOSURE **EVALUATION REPORT**

APPLICANT

Testo SE & Co. KGaA

PRODUCT NAME

WLAN data logger

MODEL NAME

0572 2620 / 0572 2621 / 0572 2622 / 0572 2623

TRADE NAME

Testo

BRAND NAME

Testo

FCC ID

WAF-0572262X

47CFR 2.1091

Guidance v06

STANDARD(S)

KDB 447498 D01 General RF

ISSUE DATE

2016-11-22

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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DIRECTORY

TEST REPORT DECLARATION	3
1. TECHNICAL INFORMATION	4
1.1. IDENTIFICATION OF APPLICANT	4
1.2. IDENTIFICATION OF MANUFACTURER	4
1.3. EQUIPMENT UNDER TEST (EUT)	4
1 3 1 PHOTOGRAPHS OF THE FLIT	5
1.3.2. IDENTIFICATION OF ALL USED EUT	6
1.4. APPLIED REFERENCE DOCUMENTS	6
2. DEVICE CATEGORY AND RF EXPOSURE LIMIT	7
3. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER	8
is alles more more as alles more more	AB R QLAB
3. RF EXPOSURE EVALUATION	8
ANNEX GENERAL INFORMATION	9

	Change History					
Issue	Issue Date Reason for change					
1.0	1.0 2016-11-22 First edition					
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TEST REPORT DECLARATION

Applicant	Testo SE & Co. KGaA			
Applicant Address	Testo-Str.1, 79853 Lenzkirch, Germany			
Manufacturer	testo Instruments (Shenzhen) Co., Ltd			
Manufacturer Address	Block A, B4 Building, China Merchants Guangming Sci&Tech Park, No.3009 Guan Guang Road, Guangming New District, Shenzhen City			
Product Name	WLAN data logger			
Model Name	0572 2620 / 0572 2621 / 0572 2622 / 0572 2623			
Brand Name	Testo			
HW Version	1.0			
SW Version	1.0			
Test Standards	47CFR 2.1091; KDB 447498 D01 General RF Exposure Guidance v06			
Issue Date	2016-11-22			
SAR Evaluation	Not Required			

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1. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

1.1. Identification of Applicant

Company Name:	Testo SE & Co. KGaA
Address:	Testo-Str.1, 79853 Lenzkirch, Germany

1.2. Identification of Manufacturer

Company Name:	testo Instruments (Shenzhen) Co., Ltd		
Address:	Block A, B4 Building, China Merchants Guangming Sci&Tech Park,		
MOK. B WE TA	No.3009 Guan Guang Road, Guangming New District, Shenzhen City		

1.3. Equipment Under Test (EUT)

Model Name:	0572 2620 / 0572 2621 / 0572 2622 / 0572 2623				
Trade Name:	Testo				
Brand Name:	Testo				
Hardware Version:	1.0				
Software Version:	1.0				
Frequency Bands:	WIFI 802.11b/g/n20;				
Modulation Mode:	WIFI802.11b: DSSS;WIFI802.11g: OFDM; WIFI802.11n: OFDM;				
Antenna type:	Copper tube antenna				
Development Stage:	Identical prototype				





1.3.1. Photographs of the EUT

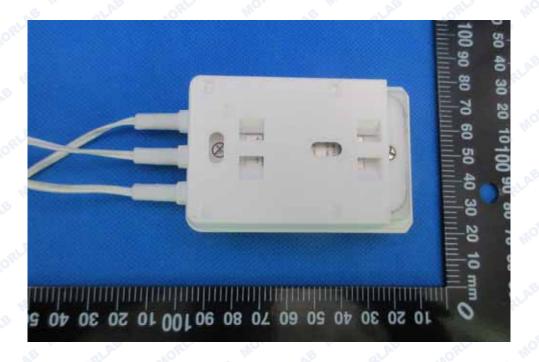
EUT front view







2. EUT rear view



1.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity Hardware Version		Software Version		
1#	1.0	1.0		

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1 10	47 CFR§2.1091	Radiofrequency Radiation Exposure Evaluation: mobile devices
2	KDB 447498 D01v06	General RF Exposure Guidance



2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, this device Based on 47CFR 2.1091, this device belongs to mobile device category with General Population/Uncontrolled exposure.

Mobile Devices:

47CFR 2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range	Electric field strength	Magnetic field strength	Power density	Averaging time
(MHz)	(V/m)	(A/m)	(mW/cm ²)	(minutes)
(i	B) Limits for General	Population/Uncontro	lled Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz



^{* =} Plane-wave equivalent power density



3. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

Wifi average output power

	01	Frequenc	Output Power(dBm)			
Band	Channel	y (MHz)	802.11B	802.11G	802.11N 20	
Wifi	1 AB	2412	9.18	7.64	7.33	
	6	2437	10.51	8.91	8.33	
	<u></u> 11	2462	9.22	8.12	7.06	

3. RF EXPOSURE EVALUATION

Standalone transmission MPE evaluation

Bands	Frequenc y (MHz)	Antenna Gain (dBi)	Conducted Average Power (dBm)	Time-averaging EIRP (mW)	Power density (mW/cm²)	Limit for MPE (mW/cm²)
2.4GHz	2437	2	10.51	17.82	0.004	1.0

Note:

1. MPE calculation method

Power Density = EIRP/ 4π R²

Where: EIRP = P·G

P = Peak out power

G = Antenna gain

R = Separation distance (20cm)



ANNEX GENERAL INFORMATION

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
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2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
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