

RF EXPOSURE EVALUATION REPORT

APPLICANT	: Testo SE&Co.KGaA
PRODUCT NAME	: testo 605i
MODEL NAME	: 0560 2605
BRAND NAME	: testo
FCC ID	: WAF-05602605
STANDARD(S)	47CFR 2.1091 KDB 447498
RECEIPT DATE	: 2019-02-28
TEST DATE	: 2019-03-26
ISSUE DATE	: 2019-04-03

Edited by:

Su Jinhai

Su Jinhai (Rapporteur)

Approved by:

An.

Peng Huarui (Supervisor)

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Change history						
Version Date Reason of changed						
1.0	2019-04-03	Original				



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1. Technical Information

Note: Provide by manufacturer.

1.1 Applicant and Manufacturer Information

Applicant: Testo SE&Co.KGaA	
Applicant Address: Testo-Strasse 1,Lenzkirch,79853,Germany	
Manufacturer:	Testo SE&Co.KGaA
Manufacturer Address:	Testo-Str.1,Lenzkirch 79853,Germany

1.2 Equipment under Test (EUT) Description

EUT Type:	testo 605i		
Hardware Version:	0216 1197_1.0(main pcb) and 0216 1198_0(sensor pcb)		
Software Version:	000.501.0001		
Frequency Bands:	Bluetooth: 2402 MHz ~2480 MHz		
Modulation Mode:	BLE: GFSK		
Antenna Type:	Built-in omnidirectional antenna		
Antenna Gain:	2.0dBi		

Note :

- 1. This test report is updated from report SZ19020119S04 (Model: 0560 2115). According to the certificate holder, they declared that the two models only different in hardware version and appearance.
- 2. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.





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1.3 Photographs of the EUT

- 1. EUT Front View
- 2. EUT Back View

1.4 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#	0216 1197_1.0(main pcb) and 0216 1198_0 (sensor pcb)	000.501.0001

1.5 Applied Reference Documents

Leading reference	e documents	for testing:
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No.	No. Identity Document Title		
1	47 CFR§2.1091 Radio Frequency Radiation Exposure Evaluation: mobile devices		
2	KDB 447498 D01v06	General RF Exposure Guidance	



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2. Device Category and RF Exposure Limit

Per user manual, 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.

Frequency range	Electric field strength	Magnetic field strength	Power density	Averaging time			
(MHz)	(V/m)	(A/m)	(mW/cm²)	(minutes)			
(I	(B) Limits for General Population/Uncontrolled 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			

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)	
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f = frequency in MHz* = Plane-wave equivalent power density



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<Bluetooth>

Mode Channel	Frequency	Peak power (dBm)		
	Channel	(MHz)	GFSK	
	CH 00	2402	13.92	
BLE	CH 19	2440	13.74	
	CH 39	2480	13.63	
Tune-up Limit		14.00		

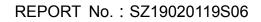


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4. RF Exposure Evaluation

Standalone transmission evaluation:

	Fraguanay	Maximum	Antenna		Power	Limit for
Bands Frequency (MHz)	Tune-up Limit	Gain	EIRP	density	MPE	
		(dBm)	(dBi)	(mW)	(mW/cm²)	(mW/cm ²)
Bluetooth	2402	14.0	2.0	39.81	0.008	1.0

Note:

- 1. According to KDB 447498, SAR test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.
- 2. MPE calculation method

Power Density = EIRP/4 π R²

Where: EIRP = P+G

P = Output Power (dBm)

G = Antenna Gain (dBi)

R = Separation Distance (20cm)



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Annex A General Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
	Morlab Laboratory
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road,
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2. Identification of the Responsible Testing Location

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END OF REPORT



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