

TEST REPORT

Product Name : TLSR8298 Development Board
Brand Mark : Telink
Model No. : TLSR8298DK56D
FCC ID : OEOTLSR8298DK56D
Report Number : BLA-EMC-202206-A11403
Date of Sample Receipt : 2022/6/27
Date of Test : 2022/6/27 to 2022/7/7
Date of Issue : 2022/7/7
Test Standard : 47 CFR Part 15, Part1.1307
47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure
Guidance v01
Test Result : Pass

Prepared for:

Telink Semiconductor (Shanghai) Co., Ltd.
Building 3, No. 1500 Zuchongzhi Rd Zhangjiang Hi-Tech Park, Shanghai

Prepared by:

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Date: 2022/7/7



REPORT REVISE RECORD

Version No.	Date	Description
00	2022/7/7	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

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2 GENERAL INFORMATION

Applicant	Telink Semiconductor (Shanghai) Co., Ltd.
Address	Building 3, No. 1500 Zuchongzhi Rd Zhangjiang Hi-Tech Park, Shanghai
Manufacturer	Telink Semiconductor (Shanghai) Co., Ltd.
Address	Building 3, No. 1500 Zuchongzhi Rd Zhangjiang Hi-Tech Park, Shanghai
Factory	Telink Semiconductor (Shanghai) Co., Ltd.
Address	Building 3, No. 1500 Zuchongzhi Rd Zhangjiang Hi-Tech Park, Shanghai
Product Name	TLSR8298 Development Board
Test Model No.	TLSR8298DK56D

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	V1.2
Software Version	V0001
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Rate data	1Mbps, 2Mbps
Antenna Type:	External Antenna
Antenna Gain:	2dBi(Provided by the customer)

4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

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No tests were sub-contracted.

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5 RF EXPOSURE COMPLIANCE REQUIREMENT

SAR evaluation

MPE Calculation Method

$$E \text{ (V/m)} = (30 * P * G) / d$$

$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} = E^2 / 377$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = (30 * P * G) / (377 * d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance, $d=0.2\text{m}$, as well as the gain of the used antenna, the RF power density can be obtained.

Directional Antenna Gain (Numeric)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.585mW (2dBi)	3.421mW (5.342dBm)	0.001	1	Complies

----END OF REPORT----

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