

TEST REPORT

Product Name : TLSR9517CDK56D
Brand Mark : TELINK
Model No. : TLSR9517CDK56D
Report Number : BLA-EMC-202111-A0902
FCC ID : OEOTLSR9517CDK56D
Date of Sample Receipt : 2021/11/2
Date of Test : 2021/11/2 to 2021/11/10
Date of Issue : 2021/11/10
Test Standard : 47 CFR Part 1.1307, Part 2.1093, KDB
447498
Test Result : Pass

Prepared for:

Telink Semiconductor (Shanghai) Co., Ltd.
Bldg 3, No. 1500, Zuchongzhi Rd, Zhangjiang Hi-tech Park, Shanghai
201203 ,China.

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.
Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China
TEL: +86-755-23059481

Compiled by:

Jozu

Approved by:

Bluezheng

Review by:

Sueels

Date:

2021/11/10



REPORT REVISE RECORD

Version No.	Date	Description
00	2021/11/10	Original

BlueAsia

TABLE OF CONTENTS

1	TEST SUMMARY.....	4
2	GENERAL INFORMATION.....	5
3	GENERAL DESCRIPTION OF E.U.T.....	5
4	LABORATORY LOCATION.....	5
5	RF EXPOSURE COMPLIANCE REQUIREMENT.....	6
5.1	STANDARD REQUIREMENT.....	6
5.2	LIMITS.....	6
5.3	EUT RF EXPOSURE.....	6

BlueAsia

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

BlueAsia

2 GENERAL INFORMATION

Applicant	Telink Semiconductor (Shanghai) Co., Ltd.
Address	Bldg 3, No. 1500, Zuchongzhi Rd, Zhangjiang Hi-tech Park, Shanghai 201203, China.
Manufacturer	Telink Semiconductor (Shanghai) Co., Ltd.
Address	Bldg 3, No. 1500, Zuchongzhi Rd, Zhangjiang Hi-tech Park, Shanghai 201203, China.
Factory	Telink Semiconductor (Shanghai) Co., Ltd.
Address	Bldg 3, No. 1500, Zuchongzhi Rd, Zhangjiang Hi-tech Park, Shanghai 201203, China.
Product Name	TLSR9517CDK56D
Test Model No.	TLSR9517CDK56D

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	V1.3
Software Version	V0002
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	External Antenna
Antenna Gain:	2dBi(Provided by the applicant)

4 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.2 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

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

5.3 EUT RF EXPOSURE

Operational Mode: BLE						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402 MHz	-0.608	± 1	0.392	1.09	0.34	3.0
2442 MHz	-0.475	± 1	0.525	1.13	0.35	
2480 MHz	-1.436	± 1	-0.436	0.90	0.28	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

----END OF REPORT----

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

BlueAsia