

TEST REPORT

Product Name : SmartLoop
Brand Mark : Keystone Technologies
Model No. : KTSL-FC1-UV-KO,KTSL-FC1-UV-KO-PIR,
KTSL-HBFC1-UV-KO-PIR,KTSL-WS1-B-SG
KTSL-TK1-USB
FCC ID : 2AV9KKTSL01
Report Number : BLA-EMC-202005-A74-02
Date of Sample Receipt : 2020/5/27
Date of Test : 2020/5/27 to 2020/6/11
Date of Issue : 2020/6/11
Test Standard : 47 CFR Part 1.1307, Part 2.1093, KDB
447498
Test Result : Pass

Prepared for:

Keystone Technologies

2750 Morris Rd, Lansdale PA 19446

Prepared by:

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

IOT Test Centre of BlueAsia

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen,China

TEL: +86-755-28682673

FAX: +86-755-28682673

Compiled by:

Ben Tang

Review by:

Sweet. Liang

Approved by:

Jamen Li

Date:



1.1 RF Exposure Compliance Requirement

1.1.1 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.

1.1.2 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

2 EUT RF EXPOSURE EVALUATION

Operational Mode: BLE (GFSK worst case)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power (dBm)	Maximum tune-up Power (mW)	Calculated value	Exclusion threshold
2402MHz	-2.23	±1	-1.23	0.75	0.23	3
2442MHz	-3.17	±1	-2.17	0.61	0.19	3
2480MHz	-4.36	±1	-3.36	0.46	0.15	3
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.