

TEST REPORT

Product Name : SmartLoop

Brand Mark : Keystone Technologies

KTSL-FC1-UV-KO,KTSL-FC1-UV-KO-PIR,

Model No. : 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:

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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:

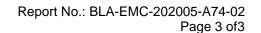
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation 17

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 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----

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