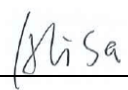

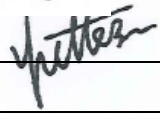




RF Exposure Evaluation Report

Report Reference No. :	MTEB23110266-H	
FCC ID. :	2A2OE-T6	
Compiled by (position+printed name+signature) .:	File administrators Alisa Luo	
Supervised by (position+printed name+signature) .:	Test Engineer Sunny Deng	
Approved by (position+printed name+signature) .:	Manager Yvette Zhou	
Date of issue	Nov. 27,2023	
Representative Laboratory Name. :	Shenzhen Most Technology Service Co., Ltd.	
Address..... :	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.	
Applicant's name	Shenzhen Samoon Technology Co., Ltd.	
Address..... :	Floor 6, Building 7, Zhongyuntai Science and Technology Industrial Factory, Songbai Road, Shiyan Street, Baoan District, Shenzhen, Guangdong,China.	
Test specification/ Standard	47 CFR Part 1.1307;47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06	
TRF Originator..... :	Shenzhen Most Technology Service Co., Ltd.	
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Test item description	Ride Recorder	
Trade Mark..... :	Samoon	
Model/Type reference	T6	
Listed Models	N/A	
Modulation Type	b: DSSS ,CCK g/n: BPSK,QPSK,QAM	
Operation Frequency..... :	802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz	
Hardware Version	V1.6	
Software Version	20230908V1.0	
Rating	DC 5-12V	
Result	PASS	

TEST REPORT

Equipment under Test : Ride Recorder

Model /Type : T6

Listed Models : N/A

Remark : N/A.

Applicant : **Shenzhen Samoon Technology Co., Ltd.**

Address : Floor 6, Building 7, Zhongyuntai Science and Technology Industrial
Factory, Songbai Road, Shiyan Street, Baoan District, Shenzhen,
Guangdong,China.

Manufacturer : **Shenzhen Samoon Technology Co., Ltd.**

Address : Floor 6, Building 7, Zhongyuntai Science and Technology Industrial
Factory, Songbai Road, Shiyan Street, Baoan District, Shenzhen,
Guangdong,China.

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023-11-27	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

2.1.2 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
(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

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$ Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.1.3 EUT RF Exposure

Antenna Gain: 3.59dBi

WIFI 2.4G

802.11b			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	11.44	11.44 ± 1	12.44
Middle(2437MHz)	11.43	11.43 ± 1	12.43
Highest(2462MHz)	11.32	11.32 ± 1	12.32

802.11g			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	13.45	13.45 ± 1	14.45
Middle(2437MHz)	13.47	13.47 ± 1	14.47
Highest(2462MHz)	13.25	13.25 ± 1	14.25

802.11n(H20)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	12.79	12.79 ± 1	13.79
Middle(2437MHz)	12.74	12.74 ± 1	13.74
Highest(2462MHz)	12.63	12.63 ± 1	13.63

WIFI 2.4G

Worst case: 802.11g						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Middle(2437MHz)	14.47	27.99	3.59	0.0128	1.0	Pass

Note: 1) Refer to report MTEB23110266-R for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (27.99 * 2.29) / (4 * 3.1416 * 20^2) = 0.0128$

.....**THE END OF REPORT**.....