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Rev.: 00

SAR Exclusion Evaluation Report

FCC 47 CFR § 2.1093

for
Turntable

Model Name.: STX

Prepared for:
inMusic Brands, Inc.
200 Scenic View Drive, Cumberland, RI 02864, U.S.A.

Prepared by
Compliance Certification Services Inc.
Wugu Lab.
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan. (R.O.C.)
Issue Date: July 26, 2022

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	July 26, 2022	Initial Issue	Doris Chu

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1 Attestation of Test Results

Applicant Name	inMusic Brands, Inc.
Model Name	STX
Model Discrepancy:	N/A
Applicable Standards	FCC 47 CFR § 2.1093 Published RF exposure KDB procedures
Receive EUT Date:	July 13, 2022
Date Tested	July 15, 2022
Test Results	Exempt

Compliance Certification Services Inc. , tested the above equipment in accordance with the requirements set forth in the above standards. Determination of compliance is based on the results of the compliance measurement,not taking into account measurement instrumentation uncertainty.All indications of Pass/Fail in this report are opinions expressed by Compliance Certification Services Inc, based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved & Released By:



Sky Zhou
Asst. Section Manager
Compliance Certification Services Inc.

2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, the following FCC Published RF exposure [KDB](#) procedures:

- 447498 D01 General RF Exposure Guidance v07
- 865664 D02 RF Exposure Reporting v01r02

3 Device Under Test (DUT) Information

3.1 DUT Description

Applicant Name	inMusic Brands, Inc.
Applicant Address	200 Scenic View Drive, Cumberland, RI 02864, U.S.A.
Manufacturer Name	inMusic Brands, Inc.
Manufacturer Address	200 Scenic View Drive, Cumberland, RI 02864, U.S.A.
Product	Turntable
Trade Name	Stanton
Model No.	STX
Model Discrepancy	N/A
Back Cover	☒ Normal Battery Cover ☐ Normal Battery Cover with NFC ☐ Wireless Charger Battery Cover ☐ Wireless Charger Battery Cover with NFC ☐ The Back Cover is not removable.
Battery Options	☒ Standard – Lithium-ion battery, Rating 3.6Vdc, 7.5Wh ☐ Extended (large capacity) ☐ The rechargeable battery is not user accessible.
Hardware Version	NTT8_ICYH108M10_Y0
Software Version	N/A
Sample Stage	PVT

3.2 Wireless Technologies

Wireless technologies	Frequency bands	Peak Antenna Gain (dBi)	Operating mode
Bluetooth	2.4 GHz	1.45	BR, EDR, LE, and HDR
Antenna Specification	Brand Name	Brito	
	Type	PCB Antenna	
	Parts Number	TNT200	

Notes:

1. SAR test exemption.

4 Conducted Output Power Measurements

4.1 Bluetooth.

Average Power Measured Results

Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	Meas. Avg Pwr (dBm)	Meas. Avg Pwr (mW)	Tune-up Limit (dBm)	SAR Test (Yes/No)
2.4	GFSK	1 Mbps	0	2402	-1.42	0.72	0.5	No
			39	2441	-1.37	0.73		
			78	2480	-9.39	0.12		
	EDR, $\pi/4$ DQPSK	2 Mbps	0	2402	-3.03	0.50	-1.5	No
			39	2441	-2.98	0.50		
			78	2480	-4.01	0.40		
	EDR, 8-DPSK	3 Mbps	0	2402	-3.16	0.48	-1.5	No
			39	2441	-3.09	0.49		
			78	2480	-4.13	0.39		
	LE, GFSK	1 Mbps	0	2402	2.28	1.69	5.5	No
			19	2440	3.37	2.17		
			39	2480	3.89	2.45		

5 RF Exposure Conditions (Test Configurations)

Refer to Appendixes 1 for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.

5.1 Standalone SAR Test Exclusion Considerations

Since the Dedicated Host Approach is applied, the SAR-based exemption in Appendix B of KDB 447498 is applied together with KDB 616217 § 4.3 to determine the minimum test separation distance:

- The available maximum time-averaged power is no more than 1 mW
- When the separation distance from the antenna to an adjacent edge is ≤ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- When the separation distance from the antenna to an adjacent edge is > 5 mm, the actual antenna-to-edge separation distance is applied to determine SAR test exclusion.
- The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

SAR Test Exclusion Calculations for $1.5 \text{ GHz} \leq f \leq 6 \text{ GHz}$

Tx Interface	Frequency (GHz)	Output Power		Antenna Gain (dBi)	ERP (dBm)	ERP Threshold (mW)	Separation Distances (cm)						P_{th} (mW)						Exemption result					
		dBm	mW				Front	Rear	Edge1	Edge2	Edge3	Edge4	Front	Rear	Edge1	Edge2	Edge3	Edge4	Front	Rear	Edge1	Edge2	Edge3	Edge4
Bluetooth	2.48	530	4	1.45	4.80	3.02	33	17	22.1	205	7.8	7.8	99	28	3060	3060	509	509	-EXEMPT-	-EXEMPT-	-EXEMPT-	-EXEMPT-	-EXEMPT-	-EXEMPT-

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5.2 Required Test Configurations

The table below identifies the standalone test configurations required for this device according to the findings in Section 5.1:

Test Configurations	Front	Rear	Edge1	Edge2	Edge3	Edge4
Bluetooth	No	No	No	No	No	No

Note(s):

Yes = Testing is required.

No = Testing is not required.

6 Equipment List & Calibration Status

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Power Meter	Anritsu	ML2496A	2136002	2022/12/5
Power Sensor	Anritsu	MA2411B	1911386	2022/10/24

7 Facilities

All measurement facilities used to collect the measurement data are located at

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

8 Appendixes

Exhibit	Content
1	SAR Setup Photos

END OF REPORT