

TEST REPORT

Product Name : Podcast Recording Console
Model Number : Mixcast 4
FCC ID : XEG-MIXCAST4

Prepared for : TEAC CORPORATION
Address : 1-47 Ochiai, Tama-shi, Tokyo, Japan

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Report Number : ENS2508040302W00803R
Date of sample receipt : Aug 04, 2025
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1. TEST RESULT CERTIFICATION

Applicant : TEAC CORPORATION
Address : 1-47 Ochiai, Tama-shi, Tokyo, Japan
Manufacturer : TEAC CORPORATION
Address : 1-47 Ochiai, Tama-shi, Tokyo, Japan
Factory : Dongguan TEAC Electronics Co.,Ltd.
Address : Building D 5-6 floors No.1 Shangxing Lu Shangjiao Chang-an Town,Dongguan City,Guangdong,Province,CHina
EUT : Podcast Recording Console
Model Name : Mixcast 4
Trademark : TASCAM

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1091	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1091.

The test results of this report relate only to the tested sample identified in this report

Date of Test : Aug 04, 2025 to Sep 26, 2025

Prepared by :



Una Yu /Editor

Reviewer :



Joe Xia/Supervisor

Approve & Authorized Signer :



Lisa Wang/Manager



Modified History

Version	Report No.	Revision Date	Summary
	ENS2508040302W00803R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Podcast Recording Console
Model Number:	Mixcast 4
Sample:	1#
Device Type:	BT&BLE
Data Rate:	1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation 1Mbps for GFSK modulation 2Mbps for GFSK modulation
Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	BT: 79 channels BLE:40 channels
Transmit Power Max:	BT:9.10 dBm(0.008128W) BLE: 7.68 dBm(0.005861 W)
Antenna Type:	PCB Antenna
Antenna Gain:	2.72 dBi
Power supply:	DC 12.0V from adapter Adapter:Model:GPE024L-120200-Z INPUT:100-240V~50/60Hz 0.75A OUTPUT:12.0V= 2.0A, 24.0W Max
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

According to FCC 1.1310: 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 §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

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 = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

R =20, distance between observation point and center of the radiator in cm

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

Measurement Result

Antenna gain: 2.72 dBi

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
		(dBm)		tune-up power		Gain		(mW/cm2)	(mW/cm2)
				(dBm)	(mW)	(dBi)	Numeric		
2402	GFSK	6.74	6±1	7	5.012	2.72	1.87	0.0019	1
2441		6.11	6±1	7	5.012	2.72	1.87	0.0019	1
2480		6.2	6±1	7	5.012	2.72	1.87	0.0019	1
2402	π/4-DQPSK	8.31	8±1	9	7.943	2.72	1.87	0.0030	1
2441		7.7	7±1	8	6.310	2.72	1.87	0.0023	1
2480		7.78	7±1	8	6.310	2.72	1.87	0.0023	1
2402	8-DPSK	9.1	9±1	10	10.000	2.72	1.87	0.0037	1
2441		8.5	8±1	9	7.943	2.72	1.87	0.0030	1
2480		8.52	8±1	9	7.943	2.72	1.87	0.0030	1
2402	GFSK (1M)	7.54	7±1	8	6.310	2.23	1.67	0.0021	1
2440		7.67	7±1	8	6.310	2.23	1.67	0.0021	1
2480		7.09	7±1	8	6.310	2.23	1.67	0.0021	1
2402	GFSK (2M)	7.5	7±1	8	6.310	2.23	1.67	0.0021	1
2440		7.68	7±1	8	6.310	2.23	1.67	0.0021	1
2480		7.14	7±1	8	6.310	2.23	1.67	0.0021	1

According to KDB 447498, no stand-alone required for BT/BLE antenna, and no simultaneous SAR measurement is required.

*** End of Report ***