

TEST REPORT

Product Name Model Numbe	r:	 WALKIE TALKIES NCR20352, 197, 1238, 1238-2, 1238-3, 178-45, 178-46, 178-47, 178-48, 178-49, 178-50, 178-51, 178-52, 178-53, 178-55, 1228-17, 1228-18, 1228-19, 1228-20, 1228-21 		
FCC ID	:	2AE6BNCR20352		
Prepared for Address	: :	Chenghai Xianxin Plastic Toys Factory ZhenXing Road, PuMei, Chenghai District, Shantou City, Guangdong, China		
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Report Number	:	EDG2309250209E00102R		

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Date(s) of Tests	:	September 25, 2023 to October 08, 2023
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1. TEST RESULT CERTIFICATION

Applicant	:	Chenghai Xianxin Plastic Toys Factory
Address	•	ZhenXing Road, PuMei, Chenghai District, Shantou City, Guangdong, China
Manufacturer	:	SHANTOU CHENGHAI GUANGYI XIANXIN PLASTIC TOYS FACTORY
Address	:	BUMEI INDUSTRIAL AREA, GUANGYI, CHENGHAI, SHANTOU, GUANGDONG
Factory	:	SHANTOU CHENGHAI GUANGYI XIANXIN PLASTIC TOYS FACTORY
Address	:	BUMEI INDUSTRIAL AREA, GUANGYI, CHENGHAI, SHANTOU, GUANGDONG
EUT	:	WALKIE TALKIES
Model Name	:	NCR20352, 197, 1238, 1238-2, 1238-3, 178-45, 178-46, 178-47, 178-48, 178-49, 178-50, 178-51, 178-52, 178-53, 178-55, 1228-17, 1228-18, 1228-19, 1228-20, 1228-21
Trademark	:	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS			
STANDARD	TEST RESULT		
§ 1.1307(b), § 2.1093	PASS		

The above equipment was tested by EMTEK(DONGGUAN) 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 § 1.1307(b), § 2.1093.

The test results of this report relate only to the tested sample identified in this report Date of Test : September 25, 2023 to October 08, 2023

tang Prepared by : Xia Yang /Editor DON Reviewer: Tim Dong/ Supervisor Sam Lv / Manager

Approve & Authorized Signer :

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Modified History

Version	Report No.	Revision Date	Summary
	EDG2309250209E00102R	/	Original Report



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2. EUT Specification

Characteristics	Description		
Product:	WALKIE TALKIES		
Model Number:	NCR20352, 197, 1238, 1238-2, 1238-3, 178-45, 178-46, 178-47, 178-48, 178-49, 178-50, 178-51, 178-52, 178-53, 178-55, 1228-17, 1228-18, 1228-19, 1228-20, 1228-21 All products are the same, only the model number and color of appearance are different Here we selected NCR20352 for all the test		
Sample:	1#		
Operating Frequency Range(s) :	49.86MHz		
Number of Channels:	1 Channel		
Max Field Strength	69.31 dBuV@3m		
Antenna Type:	Spring antenna		
Antenna gain:	0 dBi		
Power Supply	DC 9V from Battery		
Evaluation applied:	□ MPE Evaluation ⊠ SAR Evaluation		

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3. Test Requirement

RF EXPOSURE EVALUATION

According to KDB 447498 and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

a) For 100 MHz to 6 GHz and *test separation distances* \leq 50 mm, the 1-g and 10-g *SAR test exclusion* thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]. $[\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, ³⁰ where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz .
- Power and distance are rounded to the nearest mW and mm before calculation³¹
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below .

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 according to 4.1 f) is applied to determine SAR test exclusion.

- b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):³²
 - 1) {[Power allowed at *numeric threshold* for 50 mm in step a)] + [(test separation distance $-50 \text{ mm} \cdot (f_{\text{(MHz)}}/150)$] mW, for 100 MHz to 1500 MHz
 - 2) {[Power allowed at *numeric threshold* for 50 mm in step a)] + [(test separation distance 50)]mm)·10]} mW, for > 1500 MHz and ≤ 6 GHz
- c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):³³
 - 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f_{(MHz)})]$
 - 2) For test separation distances \leq 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by 1/2
 - 3) SAR measurement procedures are not established below 100 MHz.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

According to ANSI C63.10-2013 9.5 Equations to calculate EIRP Calculate the EIRP from the radiated field strength in the far field using Equation (22): EIRP = E + 20log (d) - 104.7(22)where EIRP is the equivalent isotropically radiated power, in dBm E is the field strength of the emission at the measurement distance, in dBµV/m d is the measurement distance, in m

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4. Measurement Result

Antenna gain: 0 dBi

When a single module works, the measurement results are as follows:

49.86MHz

Channel Freq. (MHz)	Max Field Strength (dBuV/m)	peak output power (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
49.86	69.31	-25.8476	-26±1	-25	0.0000367815	3

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

*** End of Report ***

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