

TEST REPORT

Product Name: Magnetic speaker with carabiner

Model Number : SL535, 25613 FCC ID : 2ABHA0126

Prepared for Ningbo Cstar Imp & Exp CO., LTD

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Table of Contents

1. TEST RESULT CERTIFICATION	3
2. EUT SPECIFICATION	
3. TEST REQUIREMENT	
4 MEASUREMENT RESULT	





1. TEST RESULT CERTIFICATION

Applicant Ningbo Cstar Imp & Exp CO., LTD

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Center, Ningbo, China

Manufacturer Ningbo Cstar Imp & Exp CO., LTD

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EUT Magnetic speaker with carabiner

Model Name SL535, 25613

Trademark N/A

Measurement Procedure Used:

APPLICABLE STANDARDS			
STANDARD	TEST RESULT		
§ 15.247(i), § 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 § 15.247(i), § 2.1093.

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

Date of Test :	August 07, 2023 to August 15, 2023
Prepared by :	Warren Deng
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Reviewer:	7im Dong
	Tim Dong /Supervisor
	SONGGUAN, CO.LTD. *
Approve & Authorized Signer:	Sam Lv /Manager ESTING



Modified History

Version	Report No.	Revision Date	Summary
	EDG2307210042E00202R	1	Original Report





2. EUT Specification

Characteristics	Description			
Product:	Magnetic speaker with carabiner			
Model Number:	SL535, 25613 These model are the same expect the model name, Here select SL535 for test.			
Sample:	1#			
1Mbps for GFSK modulation 2Mbps for π/4-DQPSK modulation 3Mbps for 8DPSK modulation				
Modulation:	GFSK, π/4-DQPSK, 8DPSK			
Operating Frequency Range(s) :	2402-2480MHz			
Number of Channels:	79 channels for BT			
Transmit Power Max:	1.11 dBm(0.001291 W)			
Antenna Gain:	2.52dBi			
Power supply: DC5V from USB DC 3.7V from battery				
Evaluation applied:	☐ MPE Evaluation ☐ SAR Evaluation			



3. Test Requirement

RF EXPOSURE EVALUATION

According to 447498 D01 V06, 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 quidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(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, ²⁴ where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation 25
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 5) in section 4.1 is applied to determine SAR test exclusion.

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.



4. Measurement Result

Antenna gain: 2.52dBi

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

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	E.I.R.P(dB m)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	0	2.52	2±1	3	0.6184670	3
2441	GFSK	-0.44	2.08	2±1	3	0.6234676	3
2480	GFSK	-0.23	2.29	2±1	3	0.6284284	3
2402	Π/4-DQPSK	0.73	3.25	3±1	4	0.7786038	3
2441	Π/4-DQPSK	0.36	2.88	2±1	3	0.6234676	3
2480	Π/4-DQPSK	0.55	3.07	3±1	4	0.7911445	3
2402	8DPSK	1.11	3.63	3±1	4	0.7786038	3
2441	8DPSK	0.81	3.33	3±1	4	0.7848992	3
2480	8DPSK	1.04	3.56	3±1	4	0.7911445	3

According to KDB 447498 D01 V06, no stand-alone required for BT & BLE antenna, and no simultaneous SAR measurement is required.

*** End of Report ***