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RF Exposure Evaluation Report

Product : Remote Control

Trade mark : N/A

Model/Type reference : RF543B

Serial Number : N/A

 Report Number
 : EED32P81829402

 FCC ID
 : 2A9T3-RF543B

 Date of Issue
 : Dec. 26, 2023

: 47 CFR Part 1.1307

Test Standards 47 CFR Part 2.1093

KDB 447498 D01 General RF Exposure

Guidance v06

Test result : PASS

Prepared for:

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Prepared by:

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2 Version

Version No.	Date	Description			
00	Dec. 26, 2023	Original			
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General Information

4.1 Client Information

Applicant:	Shenzhen C&D Electronics Co ., Ltd		
Address of Applicant:	9/F Tower 9A, Baoneng Science & Technology Park, 1Qingxiang Road, Longhua District, Shenzhen, Guangdong, China		
Manufacturer:	Shenzhen C&D Electronics Co ., Ltd		
Address of Manufacturer: 9 floor, 9th A building, Baoneng Science and Technology Park, Qing Xiang No. 1, Longhua District , Shenzhen, Guangdong, China			
Factory:	Huizhou C&D Industry Co.,Ltd		
Address of Factory:	C&D Industrial Park, Liantangmian, Sanhe Str., Huiyang, Huizhou (516213), China.		

4.2 General Description of EUT

Product Name:	Remote Control	C°2	C°2	
Mode No.:	RF543B	(27)	(25)	(25)
Trade mark:	N/A			
EUT Supports Radios application:	Bluetooth LE:2402	MHz to 2480MHz		

4.3 Product Specification subjective to this standard

127.7.1		V. V. I	1.07. 7		1.27. 7. 1		
Frequency Range:	Bluetooth	n LE:2402MHz to 248	30MHz				
Modulation Type:	Bluetooth	Bluetooth LE:GFSK					
Transfer Rate:	⊠ 1Mbps	s ⊠2Mbps					
Test Power Grade:	Default			(1)		(3)	
Antenna Type:	PCB Ant	enna		(6,7)		(6,7)	
Antenna Gain:	4.41dBi						
Power Supply:	Battery:	DC 3.0V					
Test voltage:	DC 3.0V		_0_				
Sample Received Date:	Oct. 18, 2	2023					
Sample tested Date:	Oct. 18, 2	2023 to Oct. 24, 2023	3				

Remark:

There are two types of this product, and they use the same wireless chip and circuit, the difference is that the number of LED lights on the board is different. Among them, type 1 has the largest number of lamp beads, and the test selects type 1 with poor results, and the test data was recorded in the report.

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.



















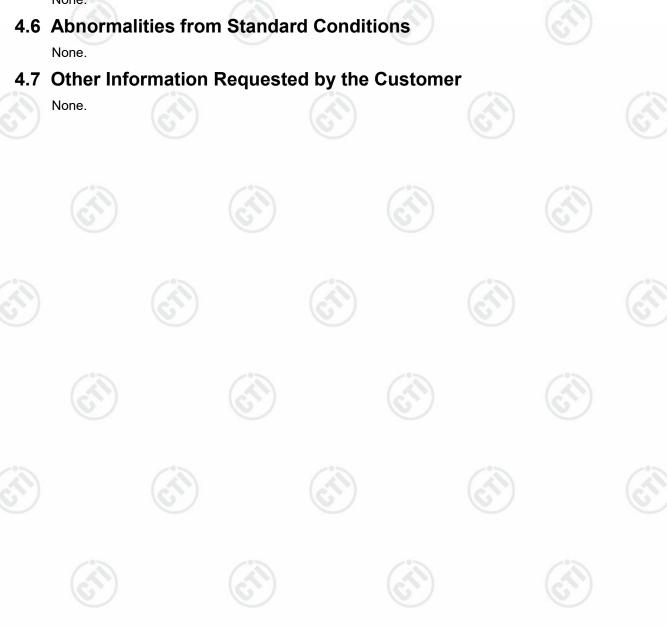


All tests were performed at:

Centre Testing International Group Co., Ltd Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385 No tests were sub-contracted.

4.5 Deviation from Standards

FCC Designation No.: CN1164





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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB 447498 D01 General RF Exposure Guidance v06 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.

5.1.2 Limits

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

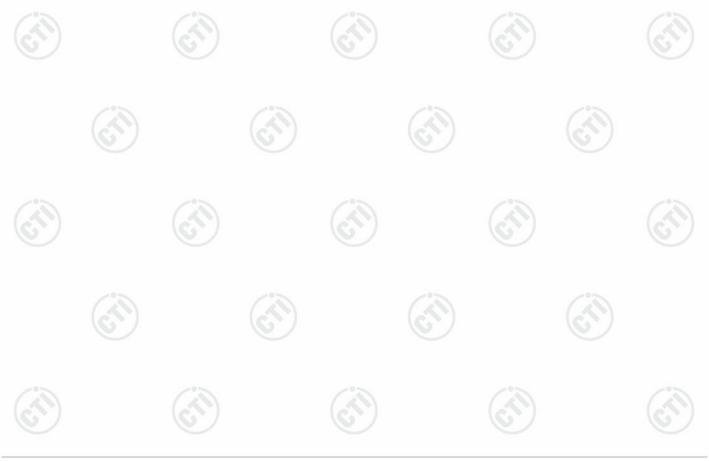
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

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 \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion





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5.1.3 EUT RF Exposure

Measurement Data:

		Frequency	Conducted Peak Power	Tune up tolerance	Maximum tune-up Power		
Test Mode	Antenna	[MHz]	[dBm]	[dBm]	[dBm]	[mW]	
		2402	4.47	4.00±1	5.00	3.1623	
BLE_1M	Ant1	2440	4.04	4.00±1	5.00	3.1623	
	(1)	2480	3.92	4.00±1	5.00	3.1623	
		2402	4.49	4.00±1	5.00	3.1623	
BLE_2M	Ant1	2440	4.11	4.00±1	5.00	3.1623	
-0		2480	3.92	4.00±1	5.00	3.1623	

Note: EIRP=Conducted Peak Power+Antenna gain;

	Fraguanay	Fraguency Conducted Book Bower		Maximum tune-up Power		Calculated	
Test Mode	Frequency Conducted Peak Power [MHz] [dBm]	tolerance [dBm]	[dBm]	[mW]	value	Exclusion threshold	
	2402	4.49	4.00±1	5.00	3.1623	0.4081	
BLE_2M	2440	4.11	4.00±1	5.00	3.1623	0.4049	3.0
	2480	3.92	4.00±1	5.00	3.1623	0.4016	

Note: The test data refer to the report of Report No.: EED32P81829401.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***