



## RELIABILITY TEST REPORT

Report No: 20200914001

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Date: September 14, 2020

RAYTAC CORPORATION  
5F., NO.3, JIANKANG ROAD, ZHONGHE DISTRICT,  
NEW TAIPEI CITY, 23586, TAIWAN

Product Description: nRF52833 Bluetooth Module

Style / Item No.: MDBT50-512K/P512K / No.1, No.2

Manufacturer/ Vendor: Raytac Corporation

Country of Origin: Taiwan

Testing Required: Thermal Shock Test

Testing Method: JASO D001-94, Clause 5.17

Quantity: Total 2 sets

Testing Period: Sep. 9, 2020 to Sep. 11, 2020

Testing Results: -Please See Attached Sheets

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### 1. Thermal Shock Test:

#### Test Equipment:

Name	Brands	Model	Serial No.
Thermal Shock Testing Chamber	Haich	HC-TOPH-22-CH	QHC20200707-122-3
DC Power Supply	GOODWILL	GPC-1850D	E873364

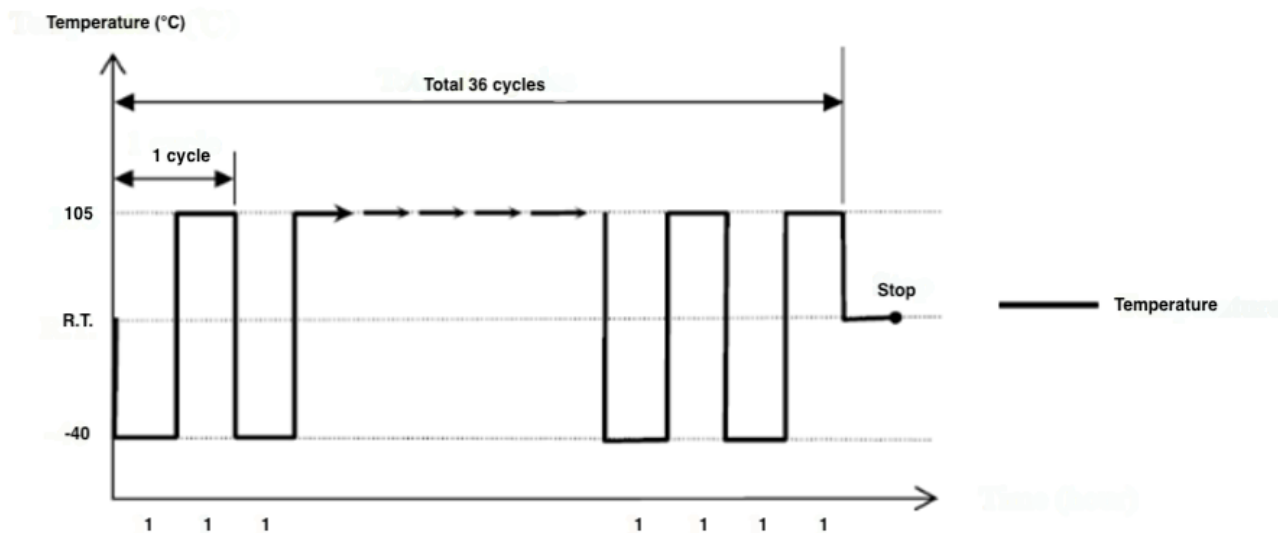
#### Lab Environmental Conditions:

Ambient Temperature:  $(25 \pm 3) ^\circ\text{C}$

Ambient humidity:  $(55 \pm 20) \% \text{RH}$

#### Test Method/ Specification:

Test method: Refer to JASO D001-94, Clause 5.17



- Sample Condition: Operating
- The temperature transition time shall be within 1 minute.
- Examine the appearance of specimen(s) by visual check and perform functional check during this test.
- Functional check: Connect the specimen(s) with notebook and examine whether the signal transmission could work normally or not.



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Specimen:

Style / Item No.: MDBT50-512K/P512K / No.1, No.2

Quantity: Total 2 sets

Testing time: 36 cycles \* 2 hours = 72 hours

Data packet size: 244 bytes

Data rate: 244 bytes \* 4 packets/sec = 976 bytes/sec

Number of data sent: Total **252,979,200** bytes

Test Result:

Check Item Style/Items No.	Appearance check ( Visual check )	Functional Check
MDBT50-512K / No.1	No visible damage	No data loss
MDBT50-P512K / No.2	No visible damage	No data loss

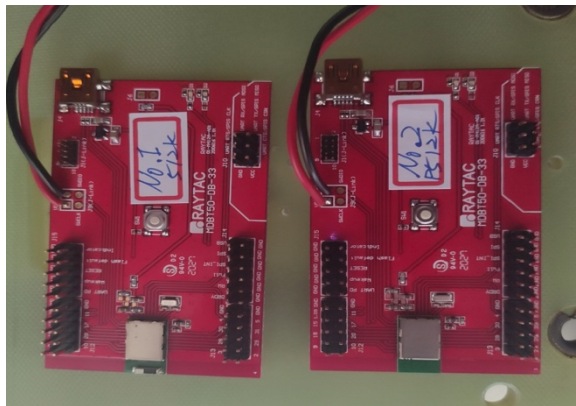
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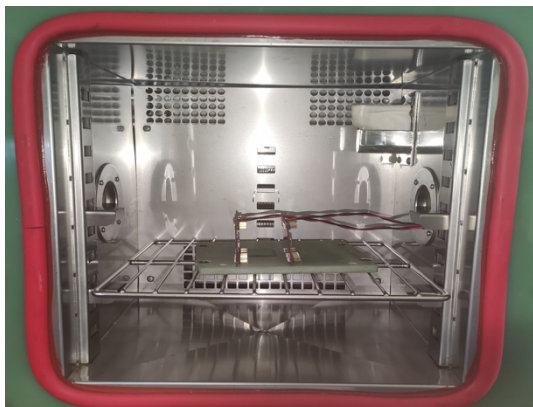
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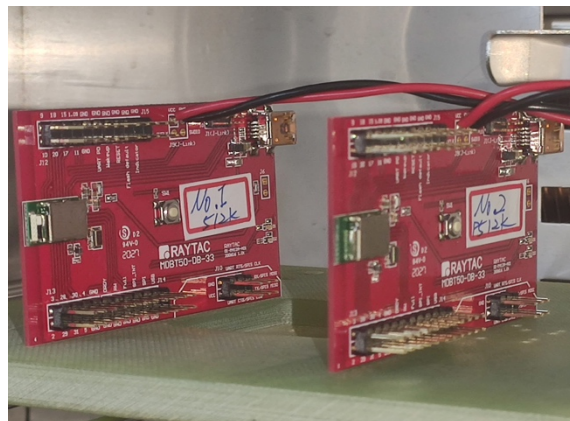
## Test Photos:



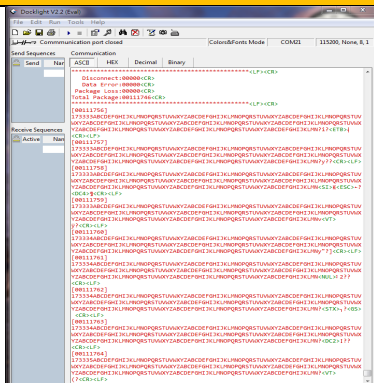
1. Appearance of specimen



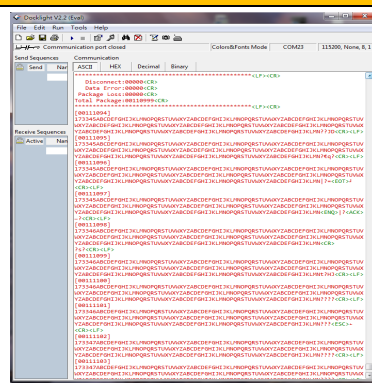
2. Thermal Shock Test



3. Thermal Shock Test



4. Functional check  
MDBT50-512K／ No.1



5. Functional check  
MDBT50-P512K／ No.2

— — — The End of Test Report — — —