

RF EXPOSURE Test Report

Report No.: MTi240426020-04E3

Date of issue: 2024-05-16

Applicant: Zhuhai Quin Technology Co., Ltd.

Product: Mini Printer

M02, MR-M02, M02T, QY-M02, KP-Q1, MR1, MR2,

M02C, M02R, M0201, M0202, M0203, M0205, M0206, M0207, M0208, M020

Model(s): M0207, M0208, M0209, Y02, Y0201, Y0202, Y0203, Y0205, Y0205, Y0206, Y0207, Y0208, Y0209, MR, M02T

Y0205, Y0206, Y0207, Y0208, Y0209, MR-M02T

FCC ID: 2ASRB-M02-A

Shenzhen Microtest Co., Ltd.

http://www.mtitest.com

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- Page 2 of 6- Report No.: MTi240426020-04E3

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- Page 3 of 6- Report No.: MTi240426020-04E3

TEST RESULT CERTIFICATION						
Applicant's nameZhuhai Quin Technology Co., Ltd.						
Address	ROOM 103-029(CENTRALIZED OFFICE AREA), 1F, BUILDING 1, NO. 18 FUTIAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY, CHINA					
Manufacturer's Name	. Zhuhai Quin Technology Co., Ltd.					
Address	ROOM 103-029(CENTRALIZED OFFICE AREA), 1F, BUILDING 1, NO. 18 FUTIAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY, CHINA					
Product description	Product description					
Product name	Mini Printer					
Trademark	N/A					
Model Name	M02					
MR-M02, M02T, QY-M02, KP-Q1, MR1, MR2, M02C, M02R, M0201, M0202 Serial Model						
Standards	N/A					
Test procedure	. KDB 447498 D01 v06					
Date of Test						
Date (s) of performance of tests:		2024-05-10 to 2024-05-15				
Test Result:		Pass				

lesting Engineer	:	Letter. Lan.		
	_	(Letter Lan)		
Technical Manager	:	David. Cee		
	_	(David Lee)		
Authorized Signatory	:	leon chan		
	_	(Leon Chen)		

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- Page 4 of 6-

Report No.: MTi240426020-04E3

Table of Contents

1.	STANDALONE SAR TEST EXCLUSION CONSIDERATIONS				
2	SAR TEST EXCLUCSION THRESHOLDS	6			

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.

- Page 5 of 6- Report No.: MTi240426020-04E3

1. 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 Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

The minimum test separation distance defined in 4.1 f) is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.

To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures.

When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for SAR test exclusion.

When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions.

a) 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:

[(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 calculation
- 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):
 - 1) {[Power allowed at *numeric threshold* for 50 mm in step a)] + [(test separation distance 50 mm)·(f(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):
 - 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))]

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- Page 6 of 6- Report No.: MTi240426020-04E3

- 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 $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any SAR test results below 100 MHz to be acceptable.

2. SAR Test Exclucsion Thresholds

We use 5mm as separation distance to calculated. Bluetooth DSS:

Transmit		Measured	Tune-up	Max tune-up	Result	1g SAR test
Frequency (GHz)	Mode	Power (dBm)	power (dBm)	power(dBm)	calculation	exclusion threshold
2.402		1.09	1±1	2	0.4913	3
2.441	GFSK	1.81	1±1	2	0.4952	3
2.480		1.92	1±1	2	0.4992	3
2.402		1.85	1±1	2	0.4913	3
2.441	п/4 DQPSK	2.62	2±1	3	0.6235	3
2.480		2.73	2±1	3	0.6284	3

Bluetooth DTS:

Transmit		Measured	Tune-up	Max tune-up	Result	1g SAR test
Frequency (GHz)	• • •	Power (dBm)	power (dBm)	power(dBm)	calculation	exclusion threshold
2.402		2.14	2±1	3	0.6185	3
2.440	GFSK-1M	2.12	2±1	3	0.6233	3
2.480		2.13	2±1	3	0.6284	3
2.402		1.08	1±1	2	0.4913	3
2.440	GFSK-2M	1.07	1±1	2	0.4951	3
2.480		1.07	1±1	2	0.4992	3

Conclusion:

For the max result: 0.6284≤ 3.0, No SAR is required.

----END OF REPORT----

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