



RF Exposure Evaluation

FOR

Eccel Technology Ltd

C2R Module

Test Model: v1

Prepared for : Eccel Technology Ltd
Address : Unit 16b Fir Tree Lane Groby, Leicester, United Kingdom
Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,
Shajing Street, Baoan District, Shenzhen, 518000, China
Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : December 08, 2025
Number of tested samples : 2
Sample No. : A251126052-1, A251126052-2
Serial number : Prototype
Date of Test : December 08, 2025 ~ March 18, 2026
Date of Report : March 20, 2026



**RF Exposure Evaluation****Report Reference No. : LCSA12055083EB**

Date of Issue..... : March 20, 2026

Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Testing Location/ Procedure..... : Full application of Harmonised standards ■

Partial application of Harmonised standards □

Other standard testing method □

Applicant's Name..... : Eccel Technology Ltd

Address..... : Unit 16b Fir Tree Lane Groby, Leicester, United Kingdom

Test Specification

Standard..... : FCC KDB publication 447498 D01 General RF Exposure Guidance v06

FCC CFR 47 part1 1.1310

FCC CFR 47 part2 2.1093

Test Report Form No..... : TRF-4-E-215 A/0

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Shenzhen LCS Compliance Testing Laboratory Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test Item Description..... : C2R Module

Trade Mark..... : Eccel

Test Model..... : v1

Ratings..... : Please Refer to Page 6

Result : PASS

Compiled by:

Diamond Lu/ Administrators

Supervised by:

Kevin Huang/ RF Manager

Approved by:

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



RF Exposure Evaluation

Test Report No. : LCSA12055083EB	<u>March 20, 2026</u> Date of issue
--	--

Test Model.....	: v1
EUT.....	: C2R Module
Applicant.....	: Eccel Technology Ltd
Address.....	: Unit 16b Fir Tree Lane Groby, Leicester, United Kingdom
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Eccel Technology Ltd Sp. z o.o. Oddział w Polsce
Address.....	: Bydgoskich Przemyslowcow 6A, 85-862 Bydgoszcz, Poland
Telephone.....	: /
Fax.....	: /
Factory.....	: Eccel Technology Ltd Sp. z o.o. Oddział w Polsce
Address.....	: Bydgoskich Przemyslowcow 6A, 85-862 Bydgoszcz, Poland
Telephone.....	: /
Fax.....	: /

Test Result	PASS
--------------------	-------------

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Revision History

Report Version	Issue Date	Revision Content	Revised By
000	March 20, 2026	Initial Issue	---





TABLE OF CONTENTS

Description	Page
1. Product Information	6
2. Evaluation method and Limit	7
3. Refer Evaluation Method	8
4. Conducted Power Results	8
5. Manufacturing Tolerance	8
6. Evaluation Results	8
7. Conclusion	9
8. Description of Test Facility	9
9. Measurement Uncertainty	9





1. Product Information

Product name	:	C2R Module
Test Model	:	v1
Ratings	:	Input: DC 5V, 500mA
Hardware Version	:	1.0
Software Version	:	1.8
NFC Operating Frequency	:	13.56MHz
Modulation Type	:	ASK
Antenna Type	:	PCB Track Loop Antenna*4
Exposure category	:	General population/uncontrolled environment
EUT Type	:	Production Unit
Device Type	:	Portable Device

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.





2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 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; for example, handheld PTT two-way radios, handsets, laptops and tablets, etc.

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:

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

. $f_{\text{(GHz)}}$ 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 ≤ 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) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f_{\text{(MHz)}}/150)]\}$ mW, for 100 MHz to 1500 MHz

2) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$ 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):

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 $[1 + \log(100/f_{\text{(MHz)}})]$

2) For test separation distances ≤ 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.





3. Refer Evaluation Method

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1093](#): Radiofrequency radiation exposure evaluation: portable devices

4. Conducted Power Results

<NFC>

Mode	Frequency (MHz)	Peak Conducted Output Power (dBm)
ASK	13.56	-46.3

Note:

TX frequency range: 13.56MHz

Device category: Portable device (Distance: 5mm) Max. Field Strength: 48.92dBuV/m @3m

EIRP=E-104.8+20logD=48.92-104.8+20log3=-46.3dBm

Maximum Conducted Output Power: -46.3dBm

5. Manufacturing Tolerance

<NFC>

ASK (Peak)	
Frequency (MHz)	13.56
Target (dBm)	-46.0
Tolerance ±(dB)	1.0

6. Evaluation Results

Mode	f (MHz)	Antenna Distance (mm)	Max. Conducted Output Power(dBm)	Output power (Max. Turn-up Procedure) (mW)	Limit Pth(mW)
NFC	13.56	5	-45.0	0.000032	443



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

8. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

9. Measurement Uncertainty

NFC:

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
		200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)
Output power	:	1GHz-40GHz	±0.57dB	(1)
Occupied Channel Bandwidth	:	1GHz-40GHz	±5%	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

.....THE END OF REPORT.....



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity