



RF Exposure Evaluation Report

Application No.: SZCR2110023549AT
Applicant: Qorvo International Pte. Ltd.
Address of Applicant: 1 Changi Business Park Avenue 1, # 04-01, Singapore
Manufacturer: Qorvo International Pte. Ltd.
Address of Manufacturer: 1 Changi Business Park Avenue 1, # 04-01, Singapore
Factory: Victory Concept
Address of Factory: Building A, No 18 Shuiyuan Industrial District, Ruhu Town, Huizhou City, 516021, Guangdong
Equipment Under Test (EUT):
Product Name: UWB Transceiver module
Model No.: DWM3001C
Trade Mark: Qorvo
Standards: EN 62479:2010
Date of Receipt: 2021-11-01
Date of Test: 2021-11-11 to 2021-11-19
Date of Issue: 2021-12-02

Test Result:	Pass *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-12-02		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng /Project Engineer		
		Eric Fu		
		Eric Fu /Reviewer		



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3 General Information of EUT

Power supply:	For RF Module: DC3.3V from debug board For Debug Board: DC5V from PC USB port
For BLE:	
Bluetooth Version:	V5.0 LE
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	Chip Antenna
Antenna Gain:	0.5dBi
For UWB:	
Frequency Range:	6489.6MHz;7987.2MHz
Modulation Type:	PM
Sample Type:	Hand Held Use
Antenna Type:	PCB Antenna
Antenna Gain:	0.3dBi for 6489.6MHz, 0.8dBi for 7987.2MHz
Channel Number:	2



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3.1 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISCED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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3.3 Deviation from Standards

None.

3.4 Abnormalities from Standard Conditions

None.

3.5 Other Information Requested by the Customer

None.



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4 EN 62479 REQUIREMENT

4.1 General Description of Applied Standards

Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

4.2 Human exposure to the Electromagnetic fields

This International Standard provides simple conformity assessment methods for low-power electronic and electrical equipment to an exposure limit relevant to electromagnetic fields (EMF). If such equipment cannot be shown to comply with the applicable EMF exposure requirements using the methods included in this standard for EMF assessment, then other standards, including IEC 62311 or other (EMF) product standards, may be used for conformity assessment.

4.3 RF Exposure Evaluation

4.3.1 Limit

According to EN 62479 clause 4.2 Low-power electronic and electrical equipment is deemed to comply with the provisions of this standard if it can be demonstrated using routes B, C or D that the available antenna power and/or the average total radiated power is less than or equal to the applicable low-power exclusion level P_{max}.

P_{max} = 20 mW (13 dBm) according to ICNIRP guidelines, since the EUT is General public used.

Remark:

- B: The input power level to electrical or electronic components that are capable of radiating electromagnetic energy in the relevant frequency range is so low that the available antenna power and/or the average total radiated power cannot exceed the low-power exclusion level defined in EN 62479 clause 4.2
- C: The available antenna power and/or the average total radiated power are limited by product standards for transmitters to levels below the low-power exclusion level defined in EN 62479 clause 4.2
- D: Measurements or calculations show that the available antenna power and/or the average total radiated power are below the low-power exclusion level defined in EN 62479 clauses 4.2.

4.3.2 Test Result

For BLE:

The Max peak power of the EUT is 1.25dBm(1.33mW) which is below the max permitted sending level of 20 mW, and then the EUT is deemed to comply with the RF exposure requirement.

For UWB:

The Max peak power of the EUT is -6.45dBm(0.23mW) which is below the max permitted sending level of 20 mW, and then the EUT is deemed to comply with the RF exposure requirement.



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Simultaneous Tx:

Not support.

- End of the Report -



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