

CYGNETT PTY LTD

TEST REPORT

SCOPE OF WORK

SAR Assessment– CY3458WLCCH, CY3459WLCCH

REPORT NUMBER

210825014SZN-002

ISSUE DATE

07 September 2021

[REVISED DATE]

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PAGES

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DOCUMENT CONTROL NUMBER

RF Exposure

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Test Report

Applicant : CYGNETT PTY LTD
Level 1, 858 Lorimer Street, Port Melbourne VIC 3207
Australia

Sample Description

Product : ExoDrive Wireless Vent, ExoDrive Wireless Dash
Model No. : CY3458WLCCH, CY3459WLCCH
Brand Name : Cygnett
Electrical Rating : Input:5V 2A(10W), 9V 2A(18W), Wireless Output:5W,
7.5W, 10W(10W Max)

Date Received : 25 August 2021
Date Test Conducted : 15 August 2021 to 03 September 2021

Test Requested : Test for compliance with CFR 47 part 1
Test Method : Environmental evaluation and exposure limit according
to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

Test Result : Pass
Conclusion : When determining of test conclusion, measurement
uncertainty of tests have been considered.

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Approved By:



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Senior Technical Supervisor
Date: 07 September 2021

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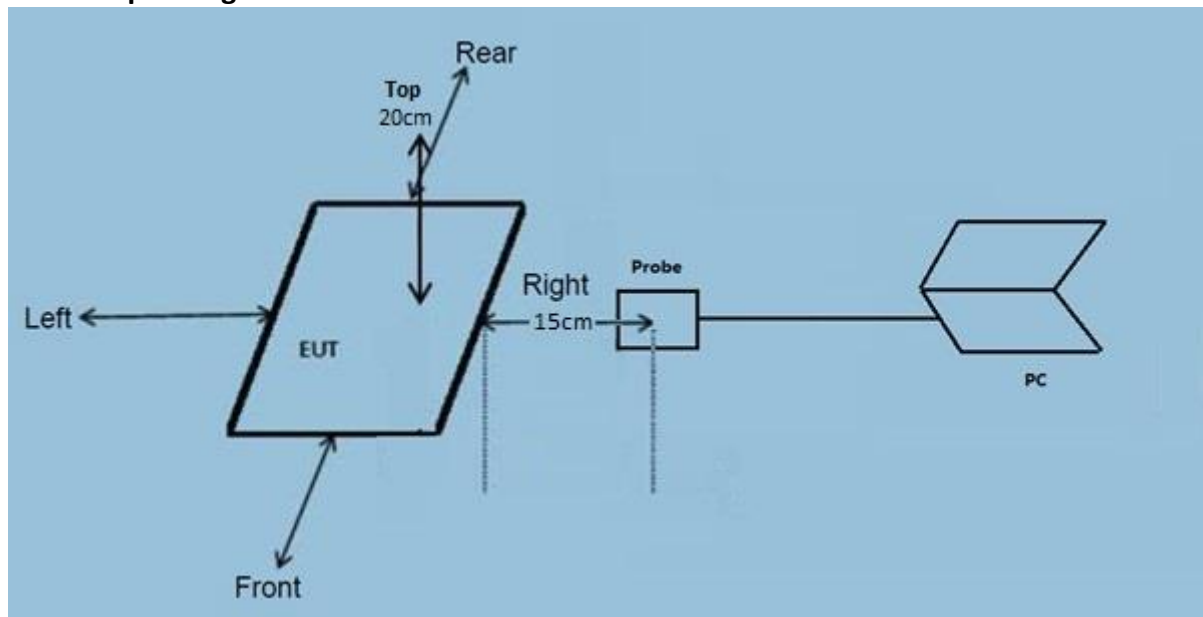
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Test Report

Test Setup Configuration



Note

- The RF exposure test is performed in the shield room.
- The test distance is at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils.

Test Equipment List

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Electric and Magnetic Field Analyzer	EHP-50F	Narda	2021-07-20	2022-07-20

The Model: CY3459WLCCH is the same as the Model: CY3458WLCCH in hardware and electrical aspect. The Product Name: ExoDrive Wireless Vent is the same as the Product Name: ExoDrive Wireless Dash in hardware and electrical aspect. The difference in model number and appearance serves as packaging and marketing purpose only.

Support Equipment List and Description

Description	Manufacturer	Detail
Type C Cable	N/A	Unshielded, Length: 20cm
Wireless charging load	YBZ	N/A
Adaptor	XIAOMI	Model: MDY-09-EW Input: 100-240V~50/60Hz, 0.35A Output: 5V, 2A

Reference Limit:

Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	(100) *	30

Note: * = Plane wave equivalent power density

Model: CY3458WLCCH

Test Result:

H-Field Strength at 15 cm surrounding the EUT and 20cm away from the surface from the coil of the EUT

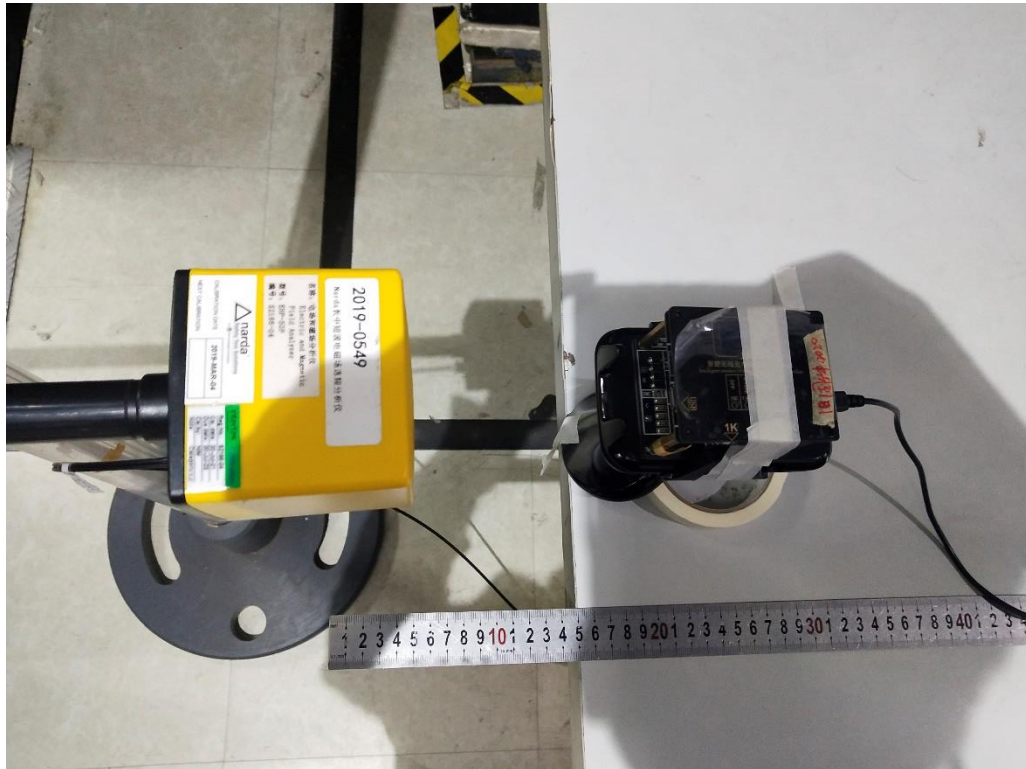
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Limits (A/m)
0.112-0.166	1% Battery Level	0.1460	0.1458	0.1437	0.1463	0.1457	1.63
0.112-0.166	50% Battery Level	0.1456	0.1450	0.1432	0.1458	0.1452	1.63
0.112-0.166	99% Battery Level	0.1432	0.1452	0.1435	0.1455	0.1451	1.63
0.112-0.166	Stand-by	0.1421	0.1455	0.1431	0.1452	0.1448	1.63

E-Field Strength at 15 cm surrounding the EUT and 20cm away from the surface from the coil of the EUT

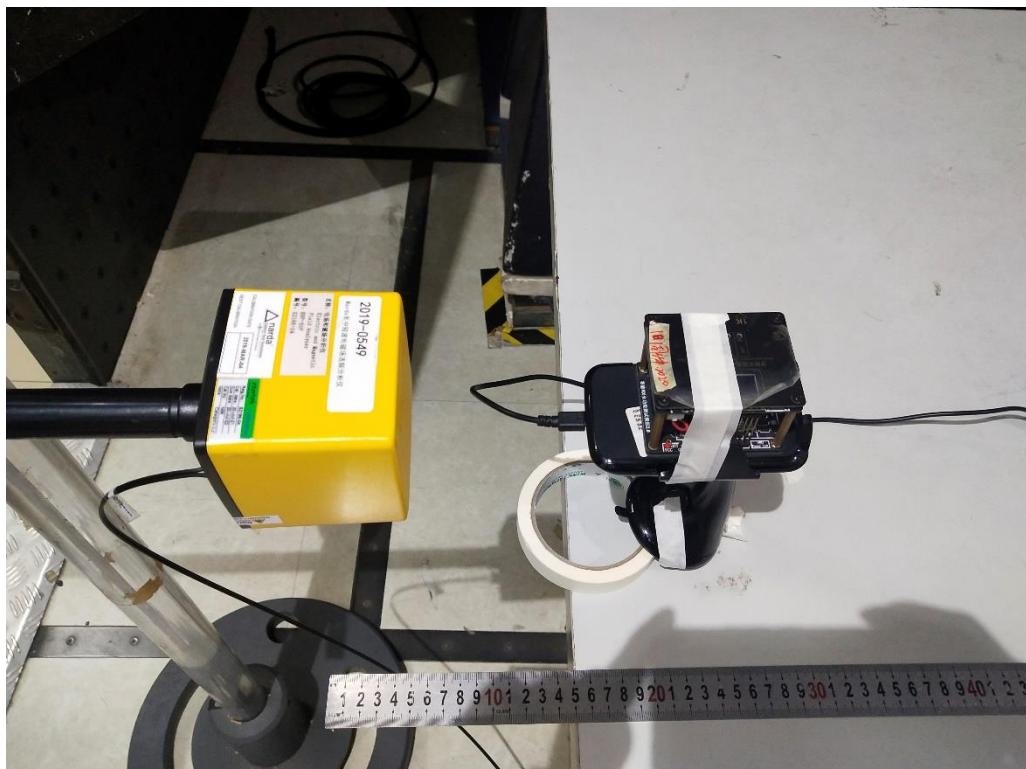
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.112-0.166	1% Battery Level	1.6663	1.6227	1.6433	1.7419	1.9019	614
0.112-0.166	50% Battery Level	1.6658	1.6212	1.6425	1.7411	1.9012	614
0.112-0.166	99% Battery Level	1.6655	1.6221	1.6428	1.7412	1.9015	614
0.112-0.166	Stand-by	1.6657	1.6217	1.6429	1.7415	1.9014	614

Configuration photo of the test:

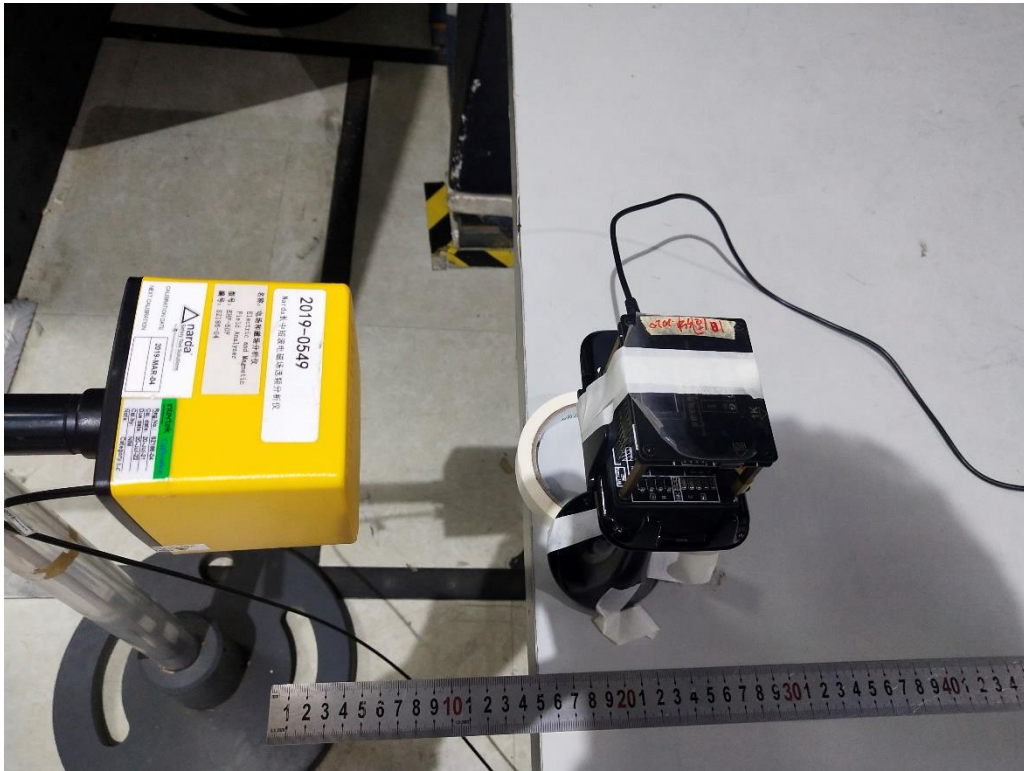
H-Field & E-Field Strength test photos



Front



Rear



Left



Right



Top

***** End of Report*****