Test Report 2023-034

Version A Issued 6 July 2023

Project GCL-0385 Test Setup Photographs Model Identifier: A04724 Primary Test Standard

FCC Part 15.247 FCC Part 15.225 RSS-210 Issue 10 Amd 1 RSS-247 Issue 2: 2017

Garmin Compliance Lab

Garmin International 1200 E 151st Street Olathe Kansas 66062 USA

Client-supplied Information

FCC ID: IPH-04724 IC ID: 1792A-04724



See section 6 of this report regarding the presence or absence of accreditation logos or marks on this cover page.

1. Summary

This document contains photographs and other sensitive materials removed from GCL Test Report 2023-032 and GCL Test Report 2023-033 based on confidentiality. This report is treated as part of those reports via reference. Information about the test samples, procedures, and results are to be found in those reports.

Report Organization

For convenience of the reader, this report is organized as follows:

- 1. Summary
- 2. Test Background
- 3. Report History and Approval
- 4. Test Setup Photographs
- 5. Other Removed Material, if any
- 6. Test Standards Applied
- 7. Concluding Notes

2. Test Background

The testing reported here was performed at the Garmin Compliance Lab, an organization within Garmin International, located at 1200 E 151st St, Olathe Kansas, USA. The contact telephone number is +1.913.397.8200.

The testing was performed on behalf of the Garmin design group, a separate organization located at 1200 E 151st St, Olathe Kansas, USA.

3. Report History and Approval

This report was written by David Arnett and initially issued on 6 July 2023 as Version A.

Report Technical Review:

David Arnett Technical Lead EMC Engineer

Report Approval:

Shruti Kohli Manager Test and Measurement (EMC, Reliability and Calibration)

4. Test Setup Photographs

The photographs on the subsequent pages are drawn first from Test Report 2023-032, followed by images from Test Report 2023 -033.

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The following material would have appeared on or near page 46 of GCL Test Report 2023-032.



Figure RE01.7: EUT test setup, front view (Y orientation)

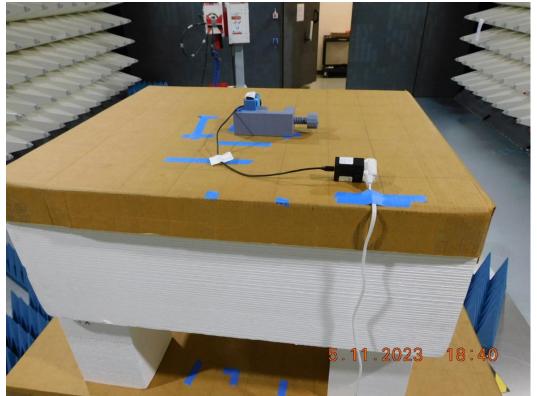


Figure RE01.8: EUT test setup, reverse view (Y orientation)

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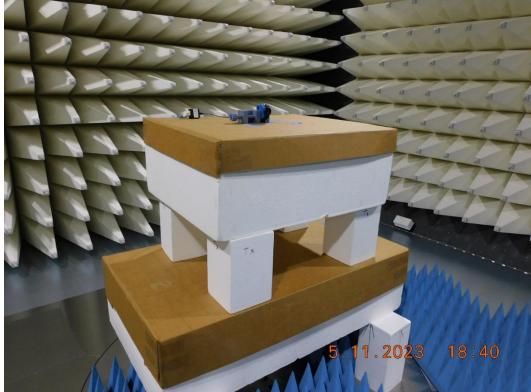


Figure RE04.5: EUT test setup, front view (Y orientation)

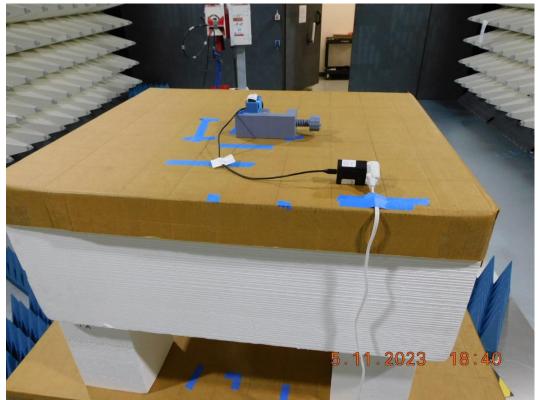


Figure RE04.6: EUT test setup, reverse view (Y orientation)

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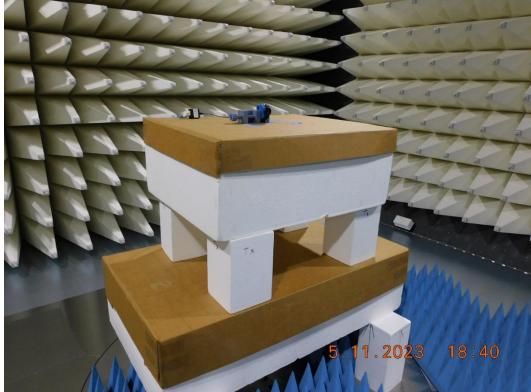


Figure RE06.7: EUT test setup, front view (Y orientation)

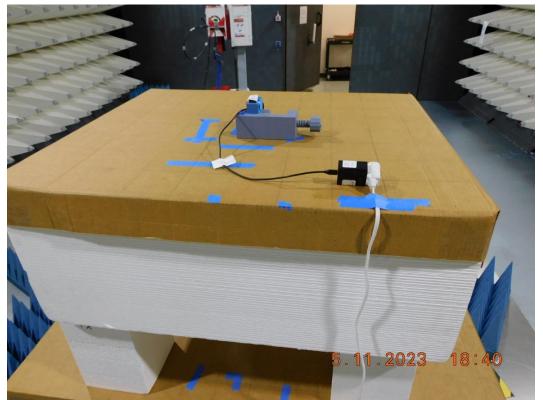


Figure RE06.8: EUT test setup, reverse view (Y orientation)

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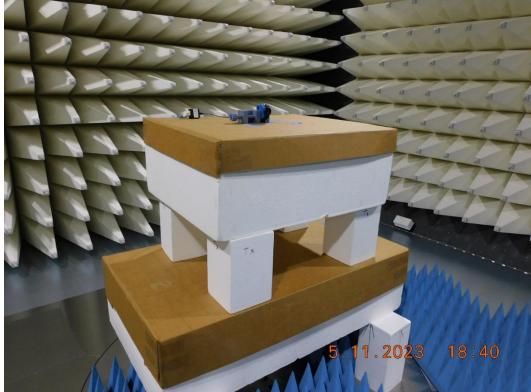


Figure RE09.3: EUT test setup, front view (Y orientation)

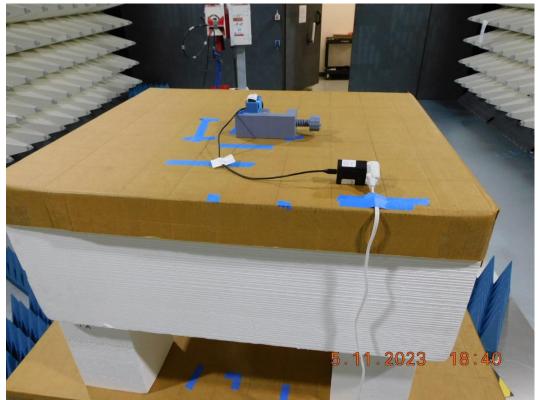


Figure RE09.4: EUT test setup, reverse view (Y orientation)

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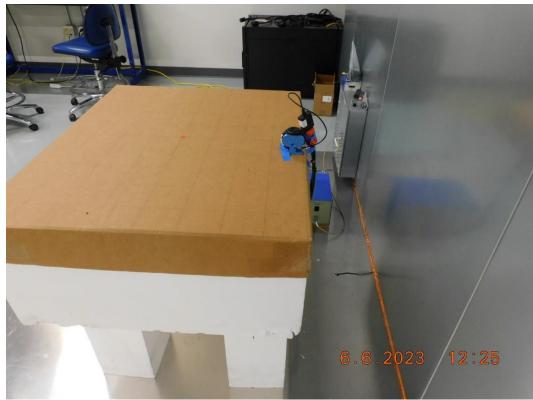


Figure CE01.2: EUT test setup



Figure CE01.3: EUT test setup cont.

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Figure RE13.5: EUT test setup, front view



Figure RE13.6: EUT test setup, reverse view

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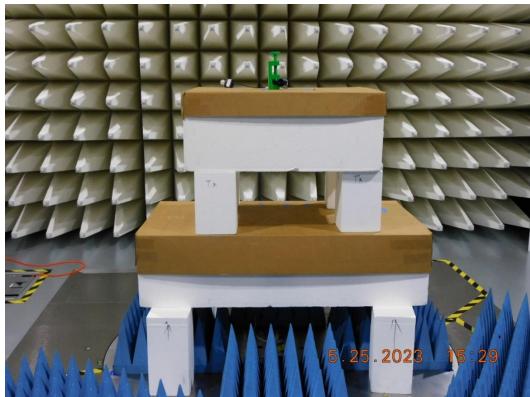


Figure RE10.5: EUT test setup, front view

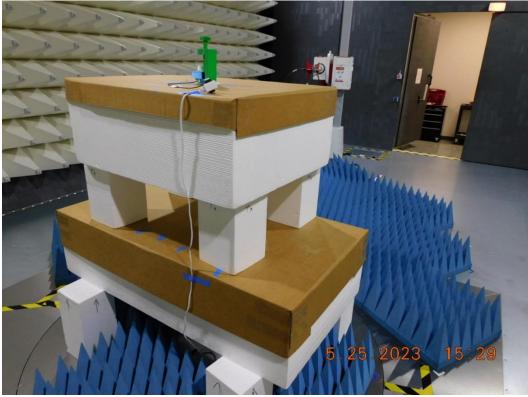


Figure RE10.6: EUT test setup, reverse view

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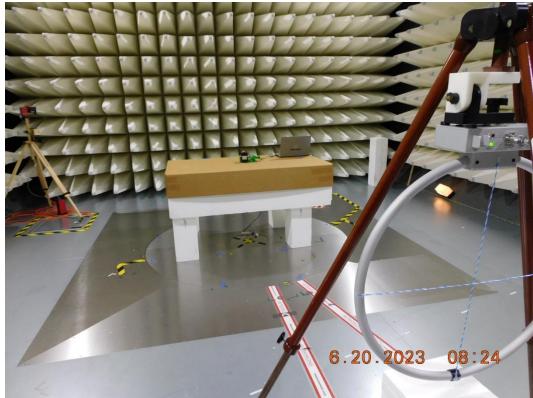


Figure RE21.2: EUT test setup, front view (Antenna X Orientation)

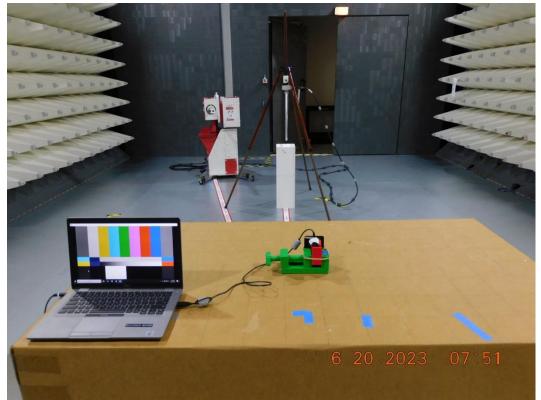


Figure RE21.3: EUT test setup, reverse view (Antenna Y Orientation

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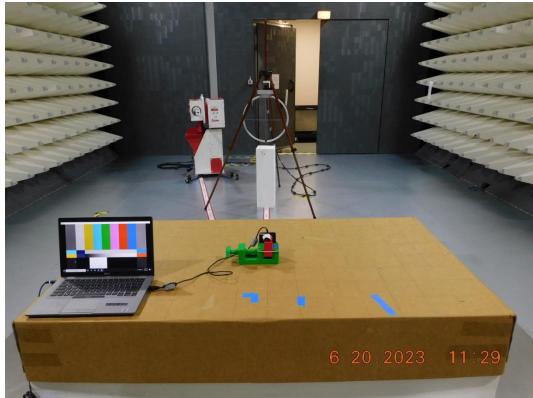


Figure RE22.2: EUT test setup, reverse view (Antenna X Orientation)

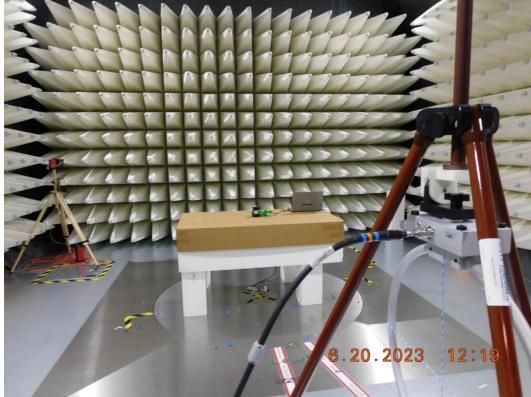


Figure RE22.3: EUT test setup, front view (Antenna Y Orientation)

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Figure RE23.2: EUT test setup, front view Z orientation



Figure RE23.3: EUT test setup, reverse view Z orientation

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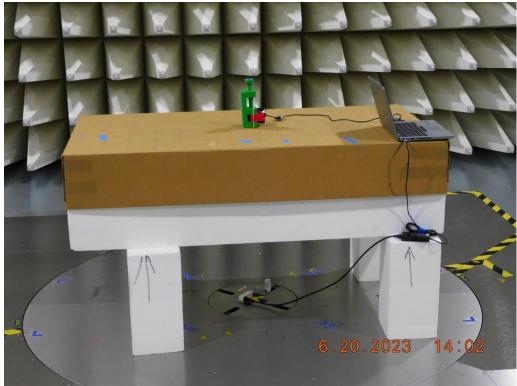


Figure RE23.4: EUT test setup, front view X orientation

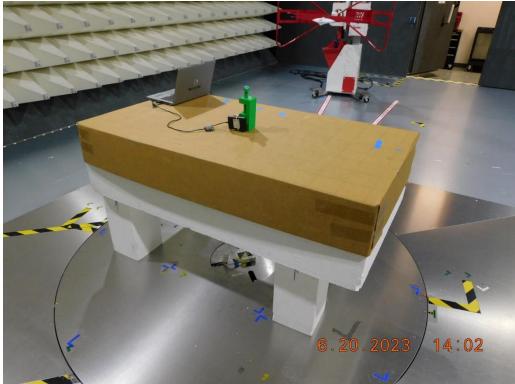


Figure RE23.5: EUT test setup, reverse view X orientation

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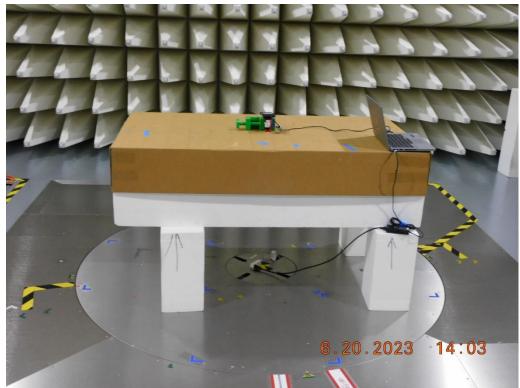


Figure RE23.6: EUT test setup, front view Y orientation



Figure RE23.7: EUT test setup, reverse view Y orientation

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Figure RE24.2: EUT test setup, front view Z orientation



Figure RE24.3: EUT test setup, reverse view Z orientation

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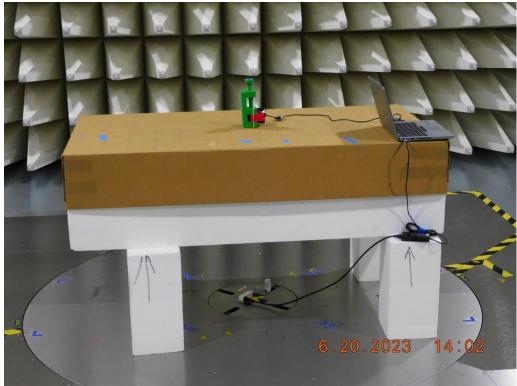


Figure RE24.4: EUT test setup, front view X orientation

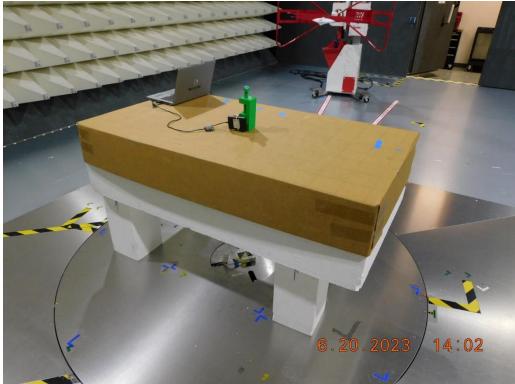


Figure RE24.5: EUT test setup, reverse view X orientation

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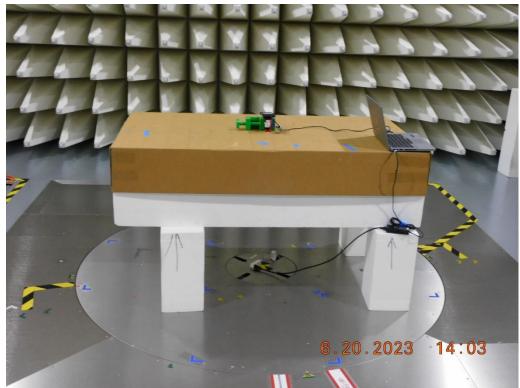


Figure RE24.6: EUT test setup, front view Y orientation



Figure RE24.7: EUT test setup, reverse view Y orientation

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Figure CE01.2: EUT test setup

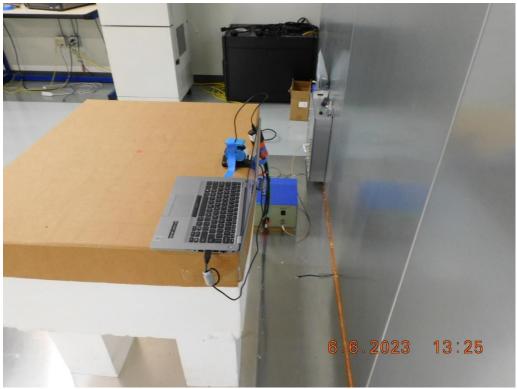


Figure CE01.3: EUT test setup cont.

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5. Other Sensitive Material, if any

None

6 Test Standards Applied

6.1. Accredited Standards

The following test or measurement standards were applied and are within the scope of the lab's accreditation. All results in this report that cite these standards are presented as Accredited results consistent with ISO/IEC 17025.

AS/NZS 4268: 2017 CFR 47, FCC Part 15.225 CFR 47, FCC Part 15.247 ANSI C63.10: 2013 and ANSI C63.10: 2020 RSS-GEN Issue 5 Amd 2 RSS-210 Issue 10 Amd 1 RSS-247 Issue 2

6.2. Non-accredited Standards

The following test or measurement standards were applied and are either outside the scope of the lab's accreditation, or were performed in such a way that results are not presented as being fully accredited. (None)

6.3 Variances

Not Applicable.

6.4 Laboratory Accreditation

The Garmin Compliance Lab, an organization within Garmin International, is registered with the US Federal Communication Commission as US1311. The lab is recognized by the Canada Department of Innovation, Science, and Economic Development (ISED) under CAB identifier US0233.

The Garmin Compliance Lab, an organization within Garmin International, is accredited by A2LA, Certificate No. 6162.01. The presence of the A2LA logo on the cover of this report indicates this is an accredited ISO/IEC 17025 test report. If the logo is absent, this report is not issued as an accredited report. Other marks and symbols adjacent to the A2LA logo are accreditation co-operations of which A2LA is a member under a mutual recognition agreement, and to which the Garmin Compliance Lab has been sublicensed.

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7 Concluding Notes

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