



Global Product Certification  
EMC-EMF Safety Approvals

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## RADIO TEST REPORT

Report No.: S2508008-2 v1

### TESTED FOR:

SATO Vicinity Pty Ltd  
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**Product Name:** Helmer Fridge PJM Kit

**Model:** SFK-125

**Part Number:** 094-30-5007

**FCC ID:** 2ACXQ-SFK

**Variant:** SFK-113

**Test Date(s):** 23 September 2025 to 3 October 2025

**Issue Date:** 1 June 2026

**Standard:** 47 CFR Part 15 – Subpart C, Section 15.225

**Result:** *The test sample, under the condition and operating mode described in this test report, complies with the standard/s listed above.*

**Test Engineer:**

Renke Wang

**Authorized  
Signatory:**

Ian Paul Ng  
Senior Test Engineer



Accreditation No. 5292



NATA Accreditation No. 5292

Accredited for compliance with ISO/IEC 17025 – Testing.

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## Revision History

| Version | Issue Date  | Reason / Comments |
|---------|-------------|-------------------|
| 1       | 1 June 2026 | Initial issue     |
|         |             |                   |

## General Remarks

EMC Technologies Pty Ltd hereby certify that the device(s) described herein were tested as described in this report and that the data included is that which was obtained during such testing.

EMC Technologies Pty Ltd reports apply only to the specific samples tested under stated test conditions. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. EMC Technologies Pty Ltd shall have no liability for any deductions, inferences or generalisations drawn by the customer or others from EMC Technologies Pty Ltd issued reports. This report shall not be used to claim, constitute, or imply product endorsement by EMC Technologies Pty Ltd.

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## 1 Project Overview

### 1.1 Test Facility

Measurements were performed at the following location:

- ☐ Melbourne Laboratory 176 Harrick Road, Keilor Park, VIC 3042, Australia
- ☒ Sydney Laboratory Unit 3, 87 Station Road, Seven Hills, NSW 2147, Australia

EMC Technologies Pty Ltd is NATA accredited to ISO 17025 for both testing and calibration. –  
**Accreditation Number 5292.**

| Country   | Assessment Body | Accreditation/Designation Numbers                                             |
|-----------|-----------------|-------------------------------------------------------------------------------|
| Australia | NATA            | Site Number: 10854 (Sydney)<br>Site Number: 5285 (Melbourne)                  |
| USA       | FCC             | Designation Number: AU0002 (Sydney)<br>Designation Number: AU0001 (Melbourne) |

## 1.2 Standards Applied

Unless otherwise noted, only the cited edition applies.

### **47 CFR Part 15 – Subpart C, Section 15.225**

Operation within the band 13.110 – 14.010 MHz

### **ANSI C63.10:2020**

American National Standard for Compliance Testing of Unlicensed Wireless Device

### **ANSI C63.4-2014/A1: 2017**

American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

### 1.3 Results Summary

The test sample was provided by the customer. All results herein apply only to the test sample.

| Section | Description                                                     | FCC              | Result   |
|---------|-----------------------------------------------------------------|------------------|----------|
| 3.1     | Antenna Requirement                                             | §15.203          | Complied |
| 3.2     | Restricted Bands of Operation                                   | §15.205          | Complied |
| 3.3     | Conducted Limits                                                | §15.207          | Complied |
| 3.4     | Radiated emission limits; General requirements                  | §15.209          | Complied |
| 3.5     | Field Strength of emissions within the band 13.110 – 14.010 MHz | §15.225(a)(b)(c) | Complied |
| 3.6     | Radiated Spurious Emissions                                     | §15.225(d)       | Complied |
| 3.7     | Frequency Stability                                             | §15.225(e)       | Complied |
| 3.8     | 20dB Emission Bandwidth                                         | §15.215(c)       | Complied |

## 1.4 Additions to, Deviations and Exclusions from the Method/Standard

No additions to, deviations or exclusions from the method/standard were performed.

## 1.5 Measurement Uncertainty

EMC Technologies has evaluated the equipment and the methods used to perform the EMC testing. The estimated measurement uncertainties for the various tests shown within this report are as follows:

| EMC Testing               | Range               | Value        |
|---------------------------|---------------------|--------------|
| <b>Conducted Emission</b> |                     |              |
| • Mains Port              | 9 kHz to 30 MHz     | $\pm 3.2$ dB |
| <b>Radiated Emission</b>  | 9 kHz to 30 MHz     | $\pm 4.1$ dB |
|                           | 30 MHz to 300 MHz   | $\pm 5.1$ dB |
|                           | 300 MHz to 1000 MHz | $\pm 4.7$ dB |
| <b>Peak Output Power</b>  |                     | $\pm 1.5$ dB |

The above expanded uncertainties are based on standard uncertainties multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

### Application of measurement uncertainty for this report:

The referenced uncertainty standard specifies that determination of compliance shall be based on measurements without taking into account measurement uncertainty. However, the measurement uncertainty shall appear in the test report.

## 1.6 Test Equipment

Measurement instrumentation and transducers were calibrated in accordance with the applicable standards by a NATA accredited laboratory or the National Measurement Institute (NMI).

| Conducted Emission |                     |             |           |                           |                 |            |
|--------------------|---------------------|-------------|-----------|---------------------------|-----------------|------------|
| Manufacturer       | Model               | Serial No.  | Asset No. | Description               | Cal. Date       | Cal. Due   |
| Rohde & Schwarz    | ESU40               | 100183      | R-038     | EMI Receiver              | 06/06/2025      | 06/06/2026 |
| TESEQ              | NNB 51              | 47448       | L-076     | Single Phase LISN         | 07/11/2024      | 07/11/2025 |
| Hewlett Packard    | 11947A              | 3107A01261  | L-010     | Transient Limiter         | 04/11/2024      | 04/11/2025 |
| EMCT               | ---                 | ---         | SC-028    | RF Cable                  | 29/10/2024      | 29/10/2025 |
| Huber & Suhner     | SF104A/2x1 1N-47/4m | Sn MY709/4A | SC-041    | RF Cable                  | 31/10/2024      | 31/10/2025 |
| Hewlett Packard    | 6843A               | 3531A00172  | A-116     | Programmable Power Source | Verified on Use |            |

| Radiated Emission |                     |             |           |                           |                 |            |
|-------------------|---------------------|-------------|-----------|---------------------------|-----------------|------------|
| Manufacturer      | Model               | Serial No.  | Asset No. | Description               | Cal. Date       | Cal. Due   |
| Rohde & Schwarz   | ESU40               | 100183      | R-038     | EMI Receiver              | 06/06/2025      | 06/06/2026 |
| SunAR RF Motion   | JB1                 | A021318     | A-430     | Bilog Antenna             | 24/04/2024      | 24/04/2027 |
| EMCO              | 6502                | 9108-2660   | A-008     | Loop Antenna              | 27/03/2024      | 27/03/2026 |
| EMCT              | ---                 | ---         | SC-028    | RF Cable                  | 29/10/2024      | 29/10/2025 |
| Huber & Suhner    | SF104A/2x1 1N-47/4m | Sn MY709/4A | SC-041    | RF Cable                  | 31/10/2024      | 31/10/2025 |
| RFI Industries    | S800                | 876         | S-032     | Room 3, 3m SAC            | 16/05/2024      | 16/05/2026 |
| Hewlett Packard   | 6843A               | 3531A00172  | A-116     | Programmable Power Source | Verified on Use |            |

## 2 Equipment Under Test

### 2.1 EUT Detail

(EUT details are supplied by customer)

| EUT Details                     |                                                         |                                           |
|---------------------------------|---------------------------------------------------------|-------------------------------------------|
| Product Name:                   | Helmer Fridge PJM Kit                                   |                                           |
| Model:                          | SFK-125                                                 |                                           |
| Variant:                        | SFK-113                                                 |                                           |
|                                 | Refer to Appendix A for customer's variant declaration. |                                           |
| Transmitter:                    |                                                         |                                           |
| Radio Module/Chip Manufacturer: | Sato Vicinity Pty Ltd                                   |                                           |
| Radio Module/Chip Model:        | MARS-4AT Reader                                         |                                           |
| Type:                           | Discrete transmitter                                    |                                           |
| Operating Band/Frequency:       | 13.56 MHz                                               |                                           |
| Number of Channels:             | Single Channel                                          |                                           |
| Modulation:                     | Phase Jitter Modulation                                 |                                           |
| Antenna:                        | Antenna 1 (Access Door)                                 | Antenna 2 (Shelves)                       |
| Antenna Manufacturer:           | Sato Vicinity Pty Ltd                                   | Sato Vicinity Pty Ltd                     |
| Antenna Model / Type:           | 66x95 mm PCB Antenna (p/n: 094-10-1009)                 | 532x702 mm PCB Antenna (p/n: 034-10-1035) |
| Antenna Maximum Gain:           | -73 dBi                                                 | -60 dBi                                   |
| Antenna Maximum Directivity:    | 2.15 dBi                                                | 2.15 dBi                                  |

| EUT Host Details               |                                                                                                                                                                                                               |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                  | Helmer Fridges                                                                                                                                                                                                |
| Model:                         | iLR125-GX                                                                                                                                                                                                     |
| PCB / Hardware Version:        | -                                                                                                                                                                                                             |
| Serial No.:                    | 2108925                                                                                                                                                                                                       |
| Power Rating:                  | 115 VAC, 60 Hz, 2.8 A, 0.33 kW                                                                                                                                                                                |
| Manufacturer:                  | Helmer Inc                                                                                                                                                                                                    |
| Operating Ambient Temperature: | 20°C to 25°C                                                                                                                                                                                                  |
| Description:                   | <p>These are commercial fridges designed for high-performance storage of medical products.</p> <p><b>Note:</b> EUT is an industrial use device and is declared as a "Class A" device under FCC Part 15 B.</p> |

## 2.2 Reference Document

| No. | Document Title                       | Issue No. |
|-----|--------------------------------------|-----------|
| 1   | Fridge PJM Kit FCC and IEC Test Plan | 1.0       |
|     |                                      |           |

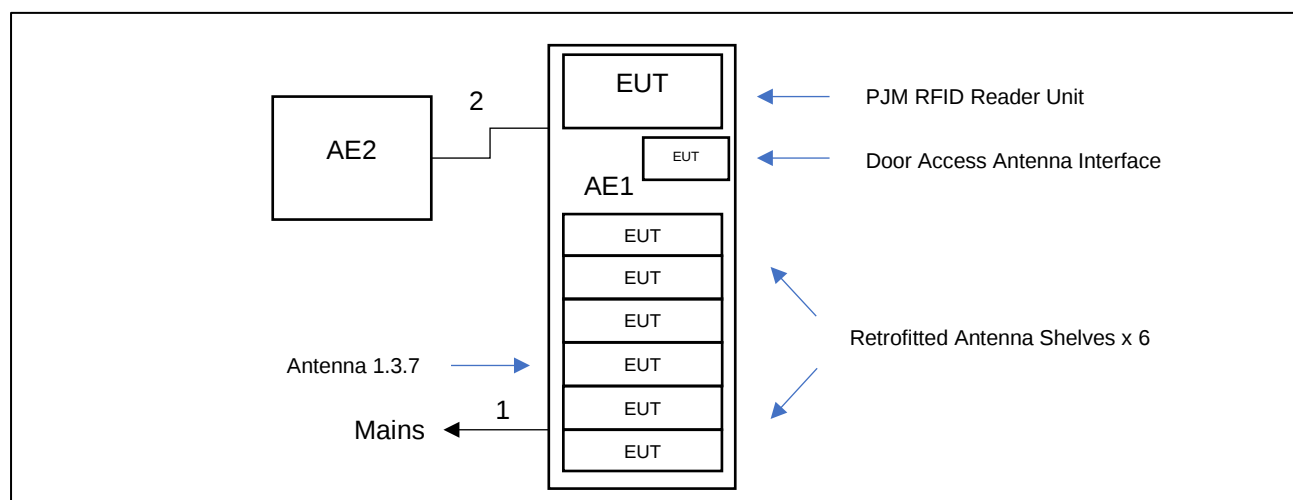
## 2.3 Test Configuration

|                    |                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installation Type: | <input type="checkbox"/> Tabletop<br><input checked="" type="checkbox"/> Floor-Standing<br><input type="checkbox"/> Combination Tabletop and Floor-Standing |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Auxiliary Equipment |                   |               |            |                                                      |
|---------------------|-------------------|---------------|------------|------------------------------------------------------|
| No.                 | Description       | Model         | Serial No. | Remark                                               |
| AE1                 | Laboratory Fridge | iLR125-GX     | 2108925    | Mfg: Helmer Inc<br>115 Vac, 60 Hz, 2.8 A,<br>0.33 kW |
| AE2                 | Laptop            | Pavilion x360 | 8CG25211R0 | Mfg.: HP                                             |

| Cable used for testing |                |        |          |        |
|------------------------|----------------|--------|----------|--------|
| No.                    | Description    | Length | Shielded | Remark |
| 1                      | AC Power Cable | < 3m   | No       | ---    |
| 2                      | Ethernet Cable | > 3m   | No       | Cat 5e |

### Block Diagram



## 2.4 Operating Test Mode

Testing was performed with the EUT's 13.56 MHz radio module set to transmit continuously.

The RFID antennas only transmitted one at a time.

| Mode No.                                                                                                                                                      | Frequency | RFID Antenna | Location               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|------------------------|
| 1                                                                                                                                                             | 13.56 MHz | Antenna 1    | Door Access RFID       |
| 2                                                                                                                                                             | 13.56 MHz | Antenna 2*   | Retrofitted Shelf RFID |
| 3                                                                                                                                                             | RFID OFF  |              |                        |
| Note: For spurious emissions test, both RFID ON and RFID OFF modes were tested to clearly identify spurious related to the intentional 13.56 MHz transmitter. |           |              |                        |

**\*Note:** As per the customer's information, each Retrofitted Antenna Shelf incorporates multiple RFID antennas. Only Antenna 1.3.7 (which refers to the antenna ID in the control software) was set to transmit to represent the worst case during the Mode 2 tests.

## 2.5 Modifications

No modifications were required to achieve compliance.

### 3 Evaluation of Test Results

#### 3.1 §15.203 – Antenna Requirement

The transmitter incorporates one (1) Inductive coil antenna in the Door Access Interface, 14 Inductive coil antennas in the Retrofitted Antenna Shelves. All antennas cannot be replaced by another type. The antennas only transmit one at a time.

##### RFID Antenna 1:

**Antenna Manufacturer:** Sato Vicinity Pty Ltd

**Antenna Model/Type:** 66x95 mm PCB Antenna (p/n: 094-10-1009)

**Antenna Maximum Gain:** -73 dBi

##### RFID Antenna 2:

**Antenna Manufacturer:** Sato Vicinity Pty Ltd

**Antenna Model/Type:** 532x702 mm PCB Antenna (p/n: 034-10-1035)

**Antenna Maximum Gain:** -60 dBi

#### 3.2 §15.205 – Restricted Bands of Operation

The provision of the §15.205 restricted bands of operation and §15.209 radiated emissions limits have been met, refer to Section 3.6.

#### 3.3 §15.207 – Conducted Limits

##### 3.3.1 Test Procedure

The EMI Receiver was operated under program control using the Max-Hold function and automatic frequency scanning, measurement, and data logging techniques. The specified 0.15 MHz to 30 MHz frequency range was sub-divided into sub-ranges to ensure that all short duration peaks were captured.

The various operating modes of the system were investigated. For each of the sub-ranges, the EMI receiver was set to continuous scan with the Peak detector set to Max-Hold mode. The Quasi-Peak detector and the Average detector were then invoked to measure the actual Quasi-Peak and Average level of the most significant peaks, which were detected.

##### Calculation of voltage level

The voltage levels were automatically measured in software and compared to the test limit. The method of calculation was as follows:

$$V_{emi} = V_{rx} + L$$

Where:  $V_{emi}$  = The Measured EMI voltage in dBμV to be compared to the limit.

$V_{rx}$  = The Voltage in dBμV read directly at the EMI receiver.

$L$  = The insertion loss in dB of the LISN, cables and transient Limiter

##### 3.3.2 Limits

The limit applied was in accordance with the conducted limits defined in §15.207.

### 3.3.3 Result – 150 kHz to 30 MHz

| <b>Operating Mode:</b> Mode 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | <b>Test Date:</b> 30/09/2025                   |        | 01/10/2025 |        |        |           |        |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------|--------|------------|--------|--------|-----------|--------|-------|------------|--------|-------|---------|--------|--|-------|--|--------|--------|------|--------|--------|------|-----|------|--------|-----|-----|-----|-----|-----|-----|-----|------|--------|-----|-----|-----|-----|-----|-----|-----|------|--------|-----|-----|-----|-----|-----|-----|-----|------|--------|-----|-----|-----|-----|-----|-----|-----|------|--------|-----|-----|-----|-----|-----|-----|-----|------|--------|-----|-----|-----|-----|-----|-----|-----|------|--------|-----|-----|-----|-----|-----|-----|-----|------|--------|-----|-----|-----|-----|-----|-----|-----|------|--------|-----|-----|-----|-----|-----|-----|------|------|--------|-----|-----|-----|-----|-----|-----|------|------|--------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|-----|-------|--------|-----|-----|-----|-----|-----|-----|------|------|--------|------|------|-------|------|------|-------|------|-------|--------|------|------|-------|------|------|-------|
| <b>Power Input:</b> 115 Vac 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | <b>Temperature:</b> 22°C                       |        | 20°C       |        |        |           |        |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| <b>Port:</b> AC Mains Port (Active Line)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | <b>Humidity:</b> 53%                           |        | 48%        |        |        |           |        |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| <b>Test Standard:</b> FCC 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | <b>Detector:</b> Quasi Peak (QP), Average (AV) |        |            |        |        |           |        |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| <div><div>Sato Vicinity Pty Ltd<br/>Helmer Fridge PJM Kit<br/>MN: SFK-125 SN: GH500419<br/>115 Vac, 60 Hz, Antenna 1<br/>FCC Part C<br/>Conducted Emissions (dBuV)<br/>- = QP Values * = Avg Values</div><div>Limit1: FCC15207QP<br/>Limit2: FCC15207AV<br/>Trace 2: Active Line</div><div>FCC15207 QP CONDUCTED LIMITS<br/>FCC 15207 AV CONDUCTED LIMITS (CISPR)</div><div>Job No: S2508008<br/>Test Date: 30/09/2025</div><div>Test Officer:Renke Wang-Plot date:06/02/2026 16:49:57<br/>tL:0761125 c1:SC0281025 c2:SC0411025 c3:NONE p:NONE a:L0101125 IP:QP Rm 3 L076 SC028 SC041<br/>Site ID: Syd Room#3 Seven Hills, NSW</div><div>WintestRS:36.46-Wp16:164.77-RcR&amp;S,ESU-40,100183:040,4.73 SP5<br/>Graph No. 1</div></div> <table><thead><tr><th>Peak</th><th>Frequency</th><th>Port</th><th>Level</th><th>Quasi Peak</th><th>Margin</th><th>Level</th><th>Average</th><th>Margin</th></tr><tr><th></th><th>[MHz]</th><th></th><th>[dBμV]</th><th>[dBμV]</th><th>[dB]</th><th>[dBμV]</th><th>[dBμV]</th><th>[dB]</th></tr></thead><tbody><tr><td>1**</td><td>0.27</td><td>Active</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>2**</td><td>0.30</td><td>Active</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>3**</td><td>0.37</td><td>Active</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>4**</td><td>0.43</td><td>Active</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>5**</td><td>0.24</td><td>Active</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>6**</td><td>0.34</td><td>Active</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>7**</td><td>0.40</td><td>Active</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>8**</td><td>0.50</td><td>Active</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>9**</td><td>0.53</td><td>Active</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>10**</td><td>0.35</td><td>Active</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>11**</td><td>0.18</td><td>Active</td><td>61.7</td><td>64.7</td><td>-3.0</td><td>54.2</td><td>54.7</td><td>-0.5</td></tr><tr><td>12**</td><td>0.16</td><td>Active</td><td>62.6</td><td>65.5</td><td>-2.9</td><td>52.1</td><td>55.5</td><td>-3.4</td></tr><tr><td>13*</td><td>13.56</td><td>Active</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></tr><tr><td>14**</td><td>1.04</td><td>Active</td><td>39.1</td><td>56.0</td><td>-16.9</td><td>32.8</td><td>46.0</td><td>-13.2</td></tr><tr><td>15**</td><td>19.71</td><td>Active</td><td>37.2</td><td>60.0</td><td>-22.8</td><td>33.6</td><td>50.0</td><td>-16.4</td></tr></tbody></table> <div><b>Comment:</b><br/><br/>*This peak is intentional radiator – not subject to the limits.<br/>** These peaks were identified as unintentional emissions which were unrelated to 13.56MHz and not subject to the §15.209 spurious emissions limit.</div> |           |                                                |        |            |        | Peak   | Frequency | Port   | Level | Quasi Peak | Margin | Level | Average | Margin |  | [MHz] |  | [dBμV] | [dBμV] | [dB] | [dBμV] | [dBμV] | [dB] | 1** | 0.27 | Active | N/A | N/A | N/A | N/A | N/A | N/A | 2** | 0.30 | Active | N/A | N/A | N/A | N/A | N/A | N/A | 3** | 0.37 | Active | N/A | N/A | N/A | N/A | N/A | N/A | 4** | 0.43 | Active | N/A | N/A | N/A | N/A | N/A | N/A | 5** | 0.24 | Active | N/A | N/A | N/A | N/A | N/A | N/A | 6** | 0.34 | Active | N/A | N/A | N/A | N/A | N/A | N/A | 7** | 0.40 | Active | N/A | N/A | N/A | N/A | N/A | N/A | 8** | 0.50 | Active | N/A | N/A | N/A | N/A | N/A | N/A | 9** | 0.53 | Active | N/A | N/A | N/A | N/A | N/A | N/A | 10** | 0.35 | Active | N/A | N/A | N/A | N/A | N/A | N/A | 11** | 0.18 | Active | 61.7 | 64.7 | -3.0 | 54.2 | 54.7 | -0.5 | 12** | 0.16 | Active | 62.6 | 65.5 | -2.9 | 52.1 | 55.5 | -3.4 | 13* | 13.56 | Active | N/A | N/A | N/A | N/A | N/A | N/A | 14** | 1.04 | Active | 39.1 | 56.0 | -16.9 | 32.8 | 46.0 | -13.2 | 15** | 19.71 | Active | 37.2 | 60.0 | -22.8 | 33.6 | 50.0 | -16.4 |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Frequency | Port                                           | Level  | Quasi Peak | Margin | Level  | Average   | Margin |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | [MHz]     |                                                | [dBμV] | [dBμV]     | [dB]   | [dBμV] | [dBμV]    | [dB]   |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 1**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.27      | Active                                         | N/A    | N/A        | N/A    | N/A    | N/A       | N/A    |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 2**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.30      | Active                                         | N/A    | N/A        | N/A    | N/A    | N/A       | N/A    |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 3**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.37      | Active                                         | N/A    | N/A        | N/A    | N/A    | N/A       | N/A    |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 4**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.43      | Active                                         | N/A    | N/A        | N/A    | N/A    | N/A       | N/A    |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 5**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.24      | Active                                         | N/A    | N/A        | N/A    | N/A    | N/A       | N/A    |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 6**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.34      | Active                                         | N/A    | N/A        | N/A    | N/A    | N/A       | N/A    |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 7**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.40      | Active                                         | N/A    | N/A        | N/A    | N/A    | N/A       | N/A    |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 8**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.50      | Active                                         | N/A    | N/A        | N/A    | N/A    | N/A       | N/A    |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 9**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.53      | Active                                         | N/A    | N/A        | N/A    | N/A    | N/A       | N/A    |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 10**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.35      | Active                                         | N/A    | N/A        | N/A    | N/A    | N/A       | N/A    |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 11**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.18      | Active                                         | 61.7   | 64.7       | -3.0   | 54.2   | 54.7      | -0.5   |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 12**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.16      | Active                                         | 62.6   | 65.5       | -2.9   | 52.1   | 55.5      | -3.4   |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 13*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13.56     | Active                                         | N/A    | N/A        | N/A    | N/A    | N/A       | N/A    |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 14**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.04      | Active                                         | 39.1   | 56.0       | -16.9  | 32.8   | 46.0      | -13.2  |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |
| 15**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19.71     | Active                                         | 37.2   | 60.0       | -22.8  | 33.6   | 50.0      | -16.4  |       |            |        |       |         |        |  |       |  |        |        |      |        |        |      |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |     |      |        |     |     |     |     |     |     |      |      |        |     |     |     |     |     |     |      |      |        |      |      |      |      |      |      |      |      |        |      |      |      |      |      |      |     |       |        |     |     |     |     |     |     |      |      |        |      |      |       |      |      |       |      |       |        |      |      |       |      |      |       |

|                        |                              |                     |                               |            |
|------------------------|------------------------------|---------------------|-------------------------------|------------|
| <b>Operating Mode:</b> | Mode 1                       | <b>Test Date:</b>   | 30/09/2025                    | 01/10/2025 |
| <b>Power Input:</b>    | 115 Vac 60 Hz                | <b>Temperature:</b> | 22°C                          | 20°C       |
| <b>Port:</b>           | AC Mains Port (Neutral Line) | <b>Humidity:</b>    | 53%                           | 48%        |
| <b>Test Standard:</b>  | FCC 15.207                   | <b>Detector:</b>    | Quasi Peak (QP), Average (AV) |            |

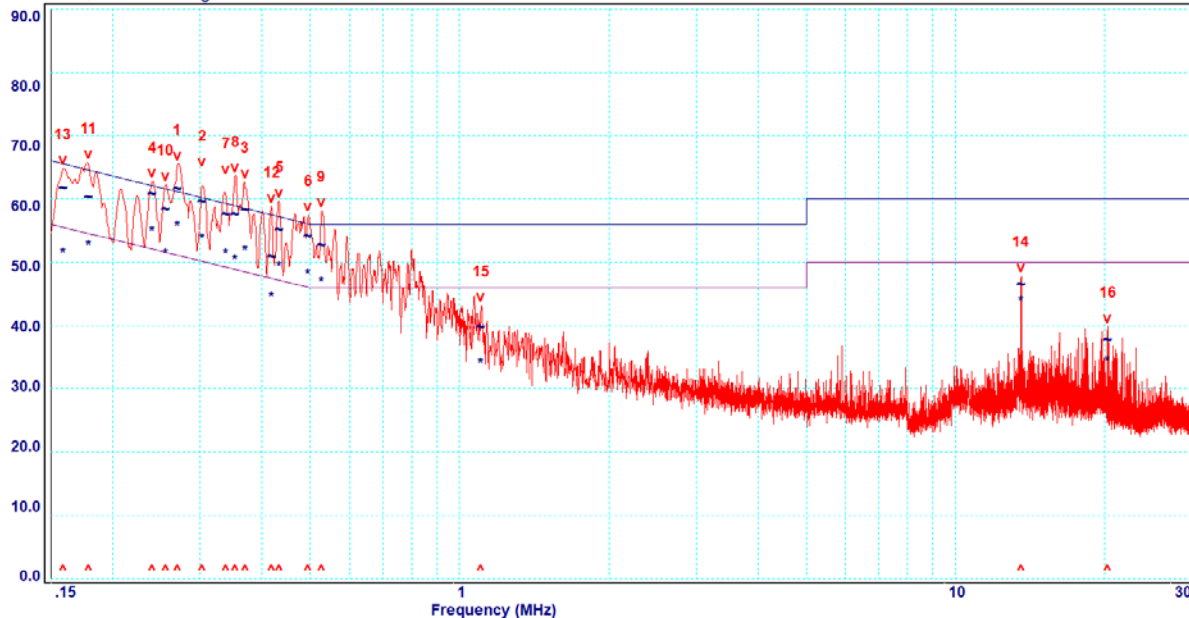
Sato Vicinity Pty Ltd  
Helmer Fridge PJM Kit  
MN: SFK-125 SN: GH500419  
115 Vac, 60 Hz, Antenna 1  
FCC Part C  
Conducted Emissions (dBuV)  
~ = QP Values \* = Avg Values

Job No: S2508008  
Test Date: 30/09/2025

Limit1: FCC15207QP  
Limit2: FCC15207AV  
Trace 2: Active Line

FCC15207 QP CONDUCTED LIMITS  
FCC 15207 AV CONDUCTED LIMITS (CISPR)

Test Officer: Renke Wang-Plot date: 06/02/2026 16:50:19  
TL0761125 c1: SC0201025 c2: SC0411025 c3: NONE p: NONE u: L0101125 IP: QPm 3 L076 SC028 SC041  
Site ID: Syd Room#3 Seven Hills, NSW  
WintSR5:36.46-Wptc164.77-RcR&S.EU-40,100183040,4.73 SP5  
Graph No. 2



| Peak | Frequency<br>[MHz] | Port   | Quasi Peak      |                 |                | Average         |                 |                |
|------|--------------------|--------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|
|      |                    |        | Level<br>[dBuV] | Limit<br>[dBuV] | Margin<br>[dB] | Level<br>[dBuV] | Limit<br>[dBuV] | Margin<br>[dB] |
| 1**  | 0.27               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 2**  | 0.30               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 3**  | 0.37               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 4**  | 0.24               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 5**  | 0.43               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 6**  | 0.50               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 7**  | 0.34               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 8**  | 0.35               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 9**  | 0.53               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 10** | 0.26               | Active | 58.8            | 61.6            | -2.8           | 51.3            | 51.6            | -0.3           |
| 11** | 0.18               | Active | 60.7            | 64.5            | -3.8           | 52.6            | 54.5            | -1.9           |
| 12** | 0.42               | Active | 51.4            | 57.5            | -6.1           | 44.5            | 47.5            | -3.0           |
| 13** | 0.16               | Active | 62.1            | 65.5            | -3.4           | 51.4            | 55.5            | -4.1           |
| 14*  | 13.56              | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 15** | 1.10               | Active | 40.2            | 56.0            | -15.8          | 34.0            | 46.0            | -12.0          |
| 16** | 20.26              | Active | 38.2            | 60.0            | -21.8          | 34.3            | 50.0            | -15.7          |

**Comment:**

\*This peak is intentional radiator – not subject to the limits.

\*\* These peaks were identified as unintentional emissions which were unrelated to 13.56MHz and not subject to the §15.209 spurious emissions limit.

|                        |                             |                     |                               |
|------------------------|-----------------------------|---------------------|-------------------------------|
| <b>Operating Mode:</b> | Mode 2                      | <b>Test Date:</b>   | 01/10/2025                    |
| <b>Power Input:</b>    | 115 Vac 60 Hz               | <b>Temperature:</b> | 20°C                          |
| <b>Port:</b>           | AC Mains Port (Active Line) | <b>Humidity:</b>    | 48%                           |
| <b>Test Standard:</b>  | FCC 15.207                  | <b>Detector:</b>    | Quasi Peak (QP), Average (AV) |

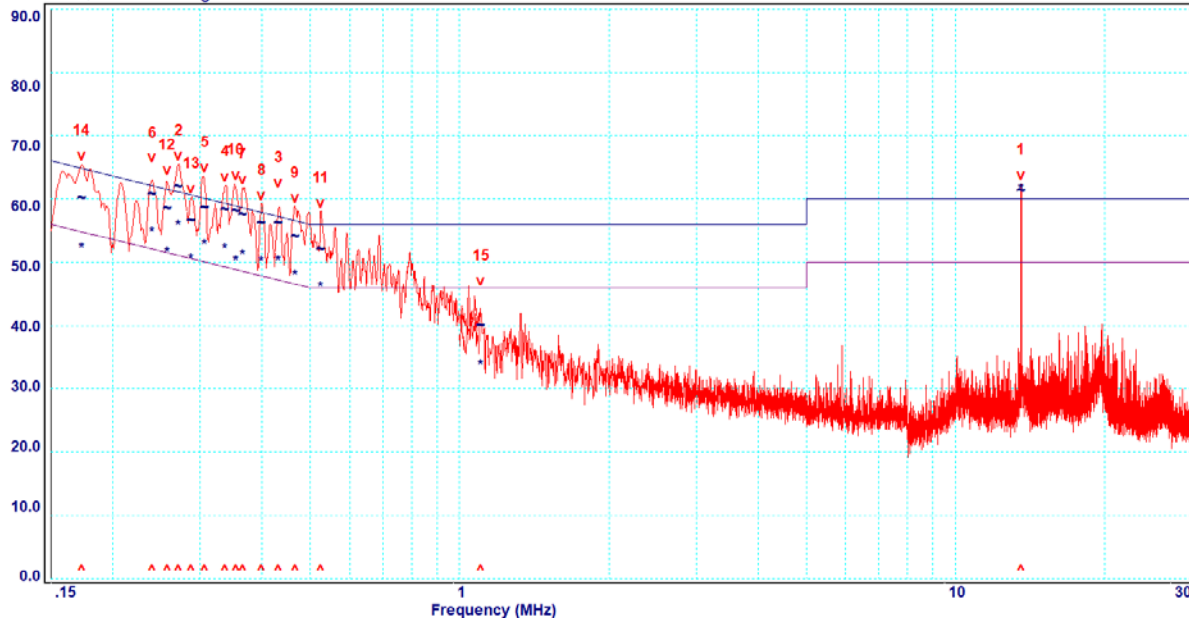
Sato Vicinity Pty Ltd  
Helmer Fridge PJM Kit  
MN: SFK-125, SN: GH500419  
115 Vac, 60 Hz, Antenna 2  
**FCC Part C**  
Conducted Emissions (dBuV)  
~ = QP Values \* = Avg Values

Job No: S2508008  
Test Date: 01/10/2025

Limit1: FCC15207QP  
Limit2: FCC15207AV  
Trace 2: Active Line

FCC15207 QP CONDUCTED LIMITS  
FCC 15207 AV CONDUCTED LIMITS (CISPR)

Test Officer: Renke Wang-Plot date: 06/02/2026 16:50:42  
TL0761125 c1: SC0201025 c2: SC0411025 c3: NONE p: NONE a: L0101125 IP: 0.0.0.0  
Site ID: Syd Room#3 Seven Hills, NSW  
Wintstrs: 36.46-Wptc: 164.77-Rc: R&S, E, SU-40, 100183040, 4.73 SP5  
Form 3 L076 SC028 SC041  
Graph No. 3



| Peak | Frequency<br>[MHz] | Port   | Quasi Peak      |                 |                | Average         |                 |                |
|------|--------------------|--------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|
|      |                    |        | Level<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] | Level<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] |
| 1*   | 13.56              | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 2**  | 0.27               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 3**  | 0.43               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 4**  | 0.34               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 5**  | 0.31               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 6**  | 0.24               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 7**  | 0.37               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 8**  | 0.40               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 9**  | 0.47               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 10** | 0.35               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 11** | 0.53               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 12** | 0.26               | Active | N/A             | N/A             | N/A            | N/A             | N/A             | N/A            |
| 13** | 0.29               | Active | 57.1            | 60.6            | -3.5           | 50.5            | 50.6            | -0.1           |
| 14** | 0.17               | Active | 60.6            | 64.8            | -4.2           | 52.2            | 54.8            | -2.6           |
| 15** | 1.11               | Active | 40.5            | 56.0            | -15.5          | 33.8            | 46.0            | -12.2          |

**Comment:**

\*This peak is intentional radiator – not subject to the limits.

\*\* These peaks were identified as unintentional emissions which were unrelated to 13.56MHz and not subject to the §15.209 spurious emissions limit.

**Operating Mode:** Mode 2  
**Power Input:** 115 Vac 60 Hz  
**Port:** AC Mains Port (Neutral Line)  
**Test Standard:** FCC 15.207  
**Test Date:** 01/10/2025  
**Temperature:** 20°C  
**Humidity:** 48%  
**Detector:** Quasi Peak (QP), Average (AV)

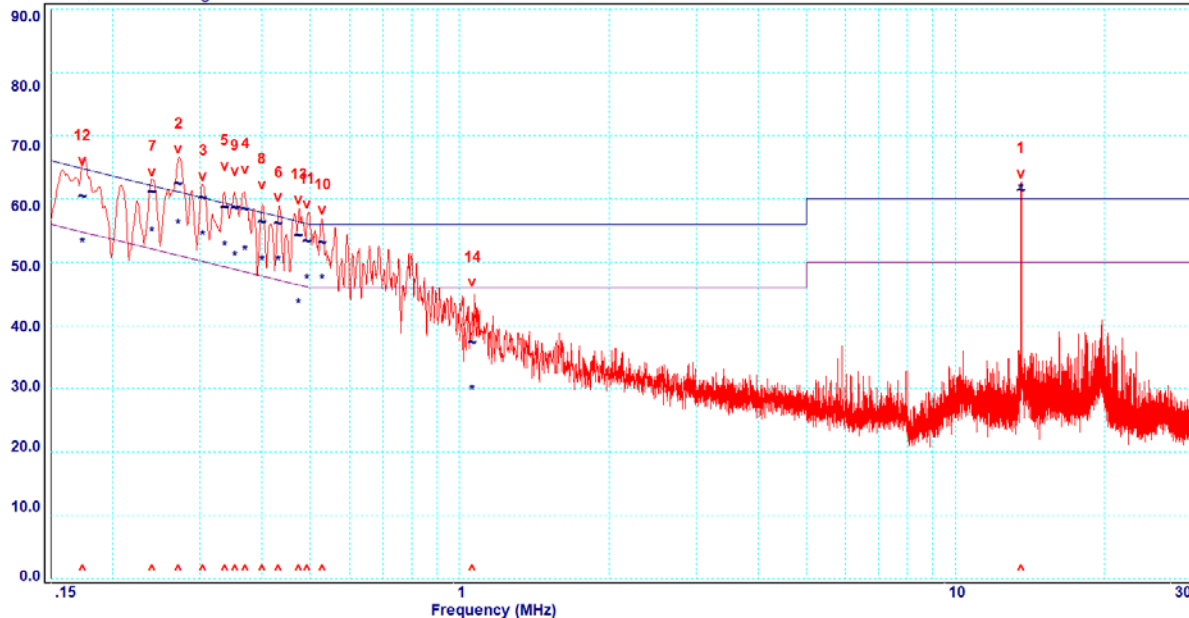
Sato Vicinity Pty Ltd  
 Helmer Fridge PJM Kit  
 MN: SFK-125, SN: GH500419  
 115 Vac, 60 Hz, Antenna 2  
**FCC Part C**  
 Conducted Emissions (dBuV)  
 ~ = QP Values \* = Avg Values

**Job No:** S2508008  
 Test Date: 01/10/2025

Limit1: FCC15207QP  
 Limit2: FCC15207AV  
 Trace 2: Active Line

FCC15207 QP CONDUCTED LIMITS  
 FCC 15207 AV CONDUCTED LIMITS (CISPR)

Test Officer: Renke Wang-Plot date: 06/02/2026 16:51:04  
 TL0761125 c1: SC0201025 c2: SC0411025 c3: NONE p: NONE a: L0101125 IP: QP Lim 3 L076 SC028 SC041  
 Site ID: Syd Room#3 Seven Hills, NSW  
 WintSR5:36.46-Wptc164.77-RcR&S.E.SU-40,100183040,4.73 SP5  
 Graph No. 4



| Peak | Frequency<br>[MHz] | Port   | Level<br>[dBμV] | Quasi Peak<br>Limit<br>[dBμV] | Margin<br>[dB] | Level<br>[dBμV] | Average<br>Limit<br>[dBμV] | Margin<br>[dB] |
|------|--------------------|--------|-----------------|-------------------------------|----------------|-----------------|----------------------------|----------------|
| 1*   | 13.56              | Active | N/A             | N/A                           | N/A            | N/A             | N/A                        | N/A            |
| 2**  | 0.27               | Active | N/A             | N/A                           | N/A            | N/A             | N/A                        | N/A            |
| 3**  | 0.30               | Active | N/A             | N/A                           | N/A            | N/A             | N/A                        | N/A            |
| 4**  | 0.37               | Active | N/A             | N/A                           | N/A            | N/A             | N/A                        | N/A            |
| 5**  | 0.34               | Active | N/A             | N/A                           | N/A            | N/A             | N/A                        | N/A            |
| 6**  | 0.43               | Active | N/A             | N/A                           | N/A            | N/A             | N/A                        | N/A            |
| 7**  | 0.24               | Active | N/A             | N/A                           | N/A            | N/A             | N/A                        | N/A            |
| 8**  | 0.40               | Active | N/A             | N/A                           | N/A            | N/A             | N/A                        | N/A            |
| 9**  | 0.35               | Active | N/A             | N/A                           | N/A            | N/A             | N/A                        | N/A            |
| 10** | 0.53               | Active | N/A             | N/A                           | N/A            | N/A             | N/A                        | N/A            |
| 11** | 0.49               | Active | N/A             | N/A                           | N/A            | N/A             | N/A                        | N/A            |
| 12** | 0.17               | Active | 60.9            | 64.8                          | -3.9           | 53.0            | 54.8                       | -1.8           |
| 13** | 0.47               | Active | 54.6            | 56.4                          | -1.8           | 43.4            | 46.4                       | -3.0           |
| 14** | 1.06               | Active | 37.7            | 56.0                          | -18.3          | 29.7            | 46.0                       | -16.3          |

**Comment:**

\*This peak is intentional radiator – not subject to the limits.

\*\* These peaks were identified as unintentional emissions which were unrelated to 13.56MHz and not subject to the §15.209 spurious emissions limit.

|                        |                             |                     |                               |
|------------------------|-----------------------------|---------------------|-------------------------------|
| <b>Operating Mode:</b> | Mode 3                      | <b>Test Date:</b>   | 30/09/2025                    |
| <b>Power Input:</b>    | 115 Vac 60 Hz               | <b>Temperature:</b> | 22°C                          |
| <b>Port:</b>           | AC Mains Port (Active Line) | <b>Humidity:</b>    | 53%                           |
| <b>Test Standard:</b>  | FCC 15B                     | <b>Detector:</b>    | Quasi Peak (QP), Average (AV) |

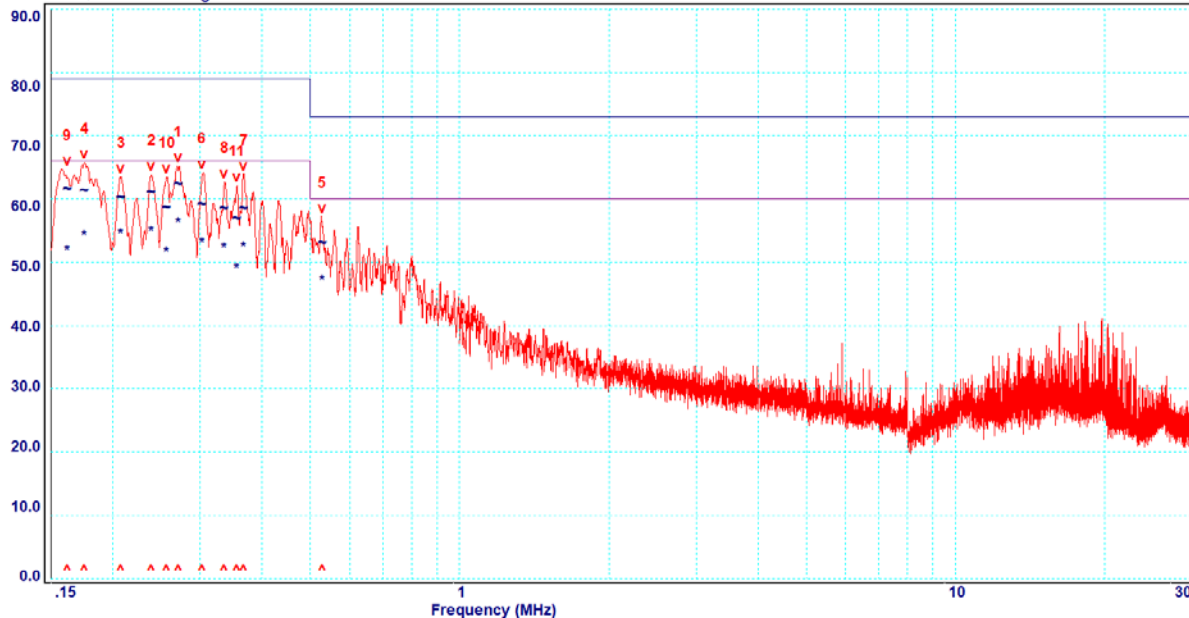
Sato Vicinity Pty Ltd  
Helmer Fridge PJM Kit  
MN: SFK-125, SN: GH500419  
115 Vac, 60 Hz, RFID OFF  
FCC Class A  
Conducted Emissions (dBuV)  
~ = QP Values \* = Avg Values

Job No: S2508008  
Test Date: 30/09/2025

Limit1: FCCN\_AQP  
Limit2: FCCN\_AAV  
Trace 2: Active Line

FCC CLASS A QP CONDUCTED LIMITS (CISPR)  
FCC CLASS A AV CONDUCTED LIMITS (CISPR)

Test Officer: Renke Wang-Plot date: 06/02/2026 16:51:25  
TL0761125 c1: SC0201025 c2: SC0411025 c3: NONE p: NONE a: L0101125 IP: 208.68.216.100  
Site ID: Syd Room#3 Seven Hills, NSW  
WintSR5:36.46-Wptc164.77-RcR&S.E.SU-40,100183040,4.73 SP5  
Conducted Emission Room 3 L076  
Graph No. 5



| Peak | Frequency<br>[MHz] | Port   | Quasi Peak      |                 |                | Average         |                 |                |
|------|--------------------|--------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|
|      |                    |        | Level<br>[dBuV] | Limit<br>[dBuV] | Margin<br>[dB] | Level<br>[dBuV] | Limit<br>[dBuV] | Margin<br>[dB] |
| 1    | 0.27               | Active | 62.9            | 79.0            | -16.1          | 56.2            | 66.0            | -9.8           |
| 2    | 0.16               | Active | 62.1            | 79.0            | -16.9          | 51.8            | 66.0            | -14.2          |
| 3    | 0.18               | Active | 61.7            | 79.0            | -17.3          | 54.2            | 66.0            | -11.8          |
| 4    | 0.24               | Active | 61.5            | 79.0            | -17.5          | 54.9            | 66.0            | -11.1          |
| 5    | 0.21               | Active | 60.7            | 79.0            | -18.3          | 54.5            | 66.0            | -11.5          |
| 6    | 0.30               | Active | 59.6            | 79.0            | -19.4          | 53.0            | 66.0            | -13.0          |
| 7    | 0.53               | Active | 53.5            | 73.0            | -19.5          | 47.1            | 60.0            | -12.9          |
| 8    | 0.26               | Active | 59.2            | 79.0            | -19.9          | 51.5            | 66.0            | -14.5          |
| 9    | 0.37               | Active | 59.0            | 79.0            | -20.0          | 52.3            | 66.0            | -13.7          |
| 10   | 0.34               | Active | 58.9            | 79.0            | -20.1          | 52.2            | 66.0            | -13.8          |
| 11   | 0.36               | Active | 57.4            | 79.0            | -21.6          | 49.0            | 66.0            | -17.0          |

|                        |                              |                     |                               |
|------------------------|------------------------------|---------------------|-------------------------------|
| <b>Operating Mode:</b> | Mode 3                       | <b>Test Date:</b>   | 30/09/2025                    |
| <b>Power Input:</b>    | 115 Vac 60 Hz                | <b>Temperature:</b> | 22°C                          |
| <b>Port:</b>           | AC Mains Port (Neutral Line) | <b>Humidity:</b>    | 53%                           |
| <b>Test Standard:</b>  | FCC 15B                      | <b>Detector:</b>    | Quasi Peak (QP), Average (AV) |

Sato Vicinity Pty Ltd  
Helmer Fridge PJM Kit  
MN: SFK-125, SN: GH500419  
115 Vac, 60 Hz, RFID OFF  
FCC Class A  
Conducted Emissions (dBuV)  
~ = QP Values \* = Avg Values

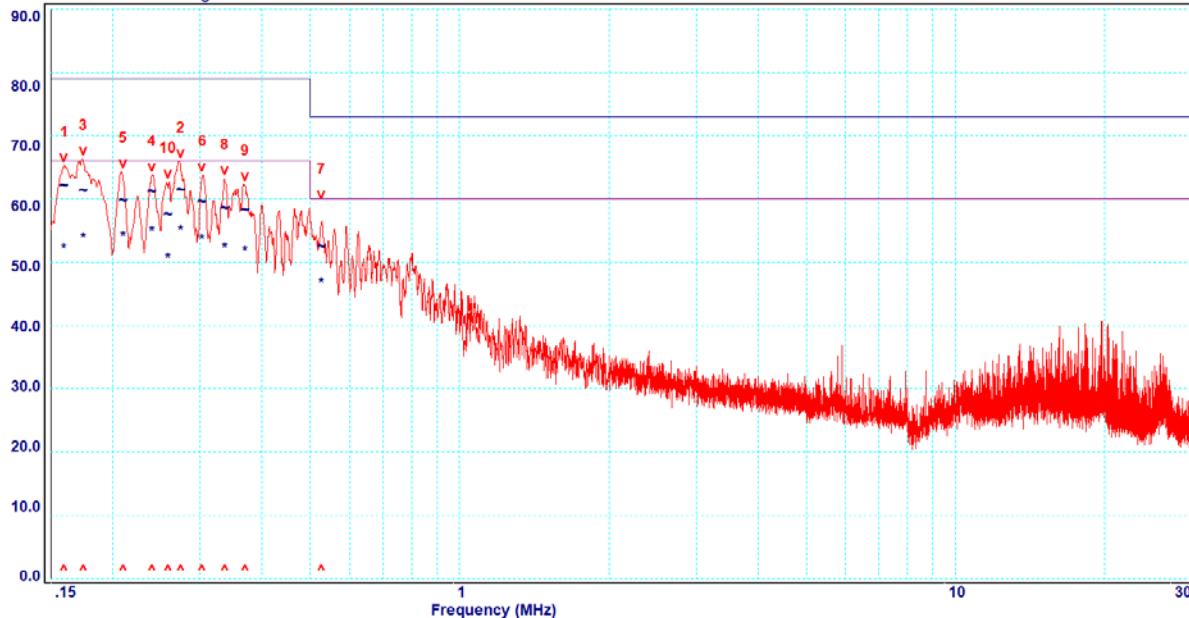
Job No: S2508008  
Test Date: 30/09/2025

Limit1: FCCN\_AQP  
Limit2: FCCN\_AAV

FCC CLASS A QP CONDUCTED LIMITS (CISPR)  
FCC CLASS A AV CONDUCTED LIMITS (CISPR)

Trace 2: Active Line

Test Officer: Renke Wang-Plot date: 06/02/2026 16:51:50  
TL0761125 c1: SC0201025 c2: SC0411025 c3: NONE p: NONE uL0101125 IP: 208.10.1.10  
Site ID: Syd Room#3 Seven Hills, NSW  
WintSR5:36.46-Wpt:164.77-Rc:R&S,ESU-40,100183040,4.73 SPS  
Graph No. 6



| Peak | Frequency<br>[MHz] | Port    | Quasi Peak      |                 |                | Average         |                 |                |
|------|--------------------|---------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|
|      |                    |         | Level<br>[dBuV] | Limit<br>[dBuV] | Margin<br>[dB] | Level<br>[dBuV] | Limit<br>[dBuV] | Margin<br>[dB] |
| 1    | 0.16               | Neutral | 62.6            | 79.0            | -16.4          | 52.1            | 66.0            | -13.9          |
| 2    | 0.27               | Neutral | 61.9            | 79.0            | -17.1          | 55.1            | 66.0            | -11.0          |
| 3    | 0.17               | Neutral | 61.8            | 79.0            | -17.2          | 53.8            | 66.0            | -12.2          |
| 4    | 0.24               | Neutral | 61.6            | 79.0            | -17.4          | 54.9            | 66.0            | -11.1          |
| 5    | 0.21               | Neutral | 60.2            | 79.0            | -18.9          | 54.0            | 66.0            | -12.0          |
| 6    | 0.30               | Neutral | 60.1            | 79.0            | -18.9          | 53.5            | 66.0            | -12.5          |
| 7    | 0.53               | Neutral | 53.0            | 73.0            | -20.0          | 46.7            | 60.0            | -13.3          |
| 8    | 0.34               | Neutral | 58.9            | 79.0            | -20.1          | 52.2            | 66.0            | -13.8          |
| 9    | 0.37               | Neutral | 58.7            | 79.0            | -20.3          | 51.7            | 66.0            | -14.3          |
| 10   | 0.26               | Neutral | 58.1            | 79.0            | -20.9          | 50.6            | 66.0            | -15.4          |

### 3.4 §15.209 – Radiated Emission Limits; General Requirements

The provision of the §15.205 restricted bands of operation and §15.209 radiated emissions limits have been met, refer to Section 3.6.

### 3.5 §15.225(a)(b)(c) – Field Strength of Emissions within Band 13.110 – 14.010 MHz

#### 3.5.1 Test Procedure

The field strength of emissions within the band was measured inside a semi-anechoic chamber compliant with ANSI C63.4:2014.

The EUT was set up on the test turntable and slowly rotated through 360° to determine the highest emissions with the spectrum analyzer set to Max-Hold using peak detector with a resolution bandwidth of 9 kHz. A calibrated active loop antenna was used for the measurements. Measurements were conducted in all antenna orientations (Parallel to EUT, Perpendicular to EUT and Ground Parallel).

All measurements were performed at 3 m distance. Final measurements on the fundamental emissions were done using a Quasi-Peak Detector.

#### 3.5.2 Limits

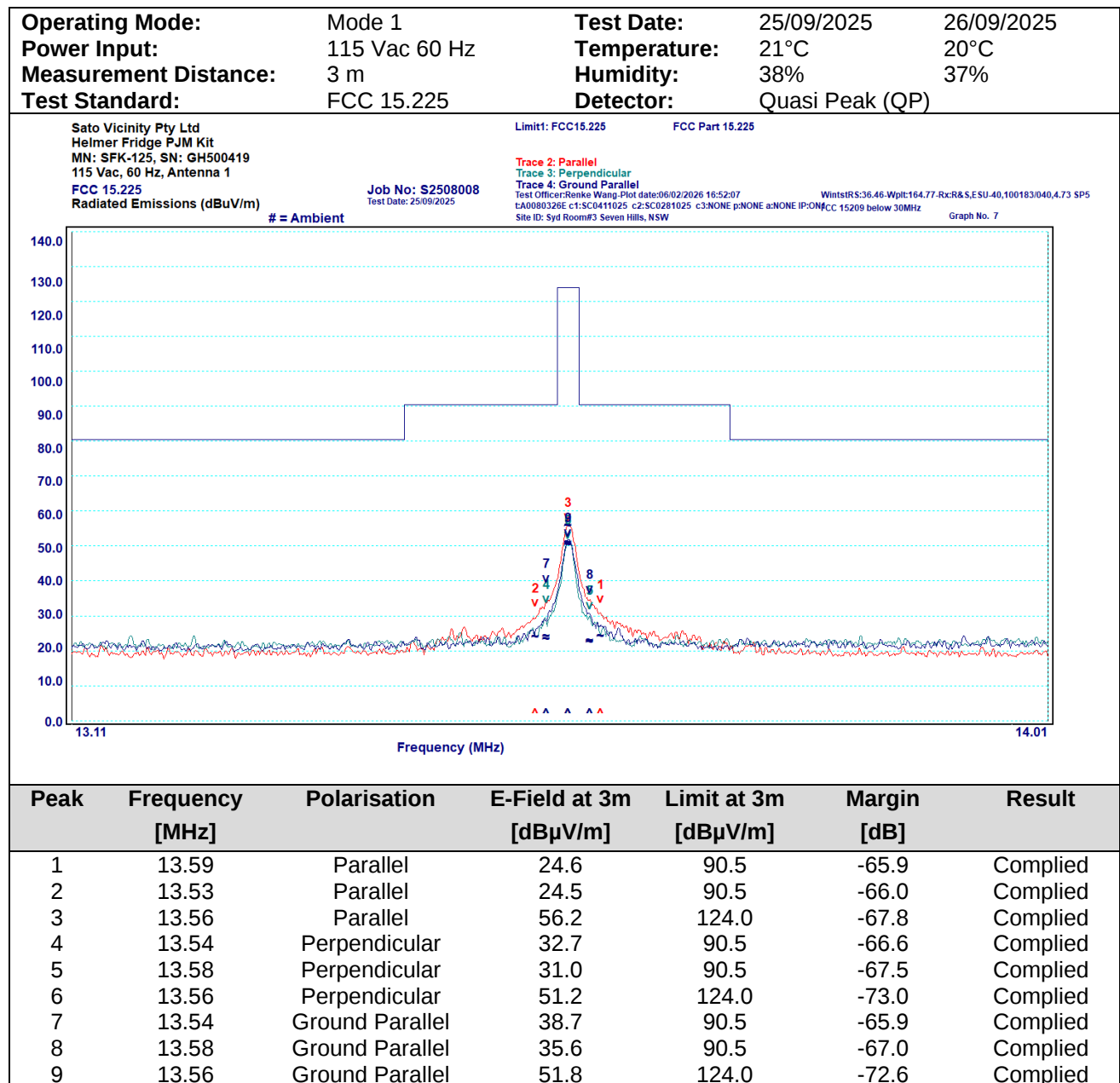
As per §15.225:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

| Frequency range<br>[MHz] | Field Strength at 30m<br>[μV/m] | Field Strength at 30m<br>[dBμV/m] | Field Strength at 3m<br>[dBμV/m] |
|--------------------------|---------------------------------|-----------------------------------|----------------------------------|
| 13.110 to 13.410         | 106                             | 40.5                              | 80.5                             |
| 13.410 to 13.553         | 334                             | 50.5                              | 90.5                             |
| 13.553 to 13.567         | 15848                           | 84.0                              | 124.0                            |
| 13.567 to 13.710         | 334                             | 50.5                              | 90.5                             |
| 13.710 to 14.010         | 106                             | 40.5                              | 80.5                             |

### 3.5.3 Results

All emissions within Band 13.110 to 14.010 MHz complied with the requirement of the standard.



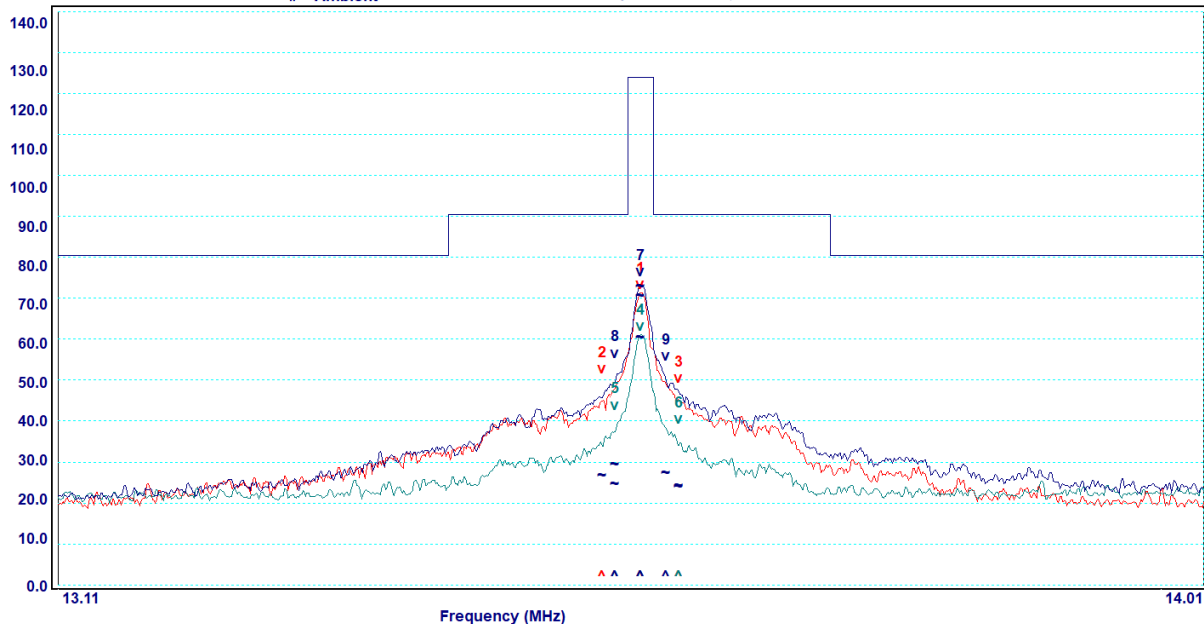
|                       |               |              |                 |            |
|-----------------------|---------------|--------------|-----------------|------------|
| Operating Mode:       | Mode 2        | Test Date:   | 26/09/2025      | 29/09/2025 |
| Power Input:          | 115 Vac 60 Hz | Temperature: | 20°C            | 21°C       |
| Measurement Distance: | 3 m           | Humidity:    | 37%             | 44%        |
| Test Standard:        | FCC 15.225    | Detector:    | Quasi Peak (QP) |            |

Sato Vicinity Pty Ltd  
Helmer Fridge PJM Kit  
MN: SFK-125, SN: GH500419  
115 Vac, 60 Hz, Antenna 2  
FCC 15.225  
Radiated Emissions (dBuV/m)

Limit1: FCC15.225 FCC Part 15.225

Job No: S2508008  
Test Date: 25/09/2025

Trace 2: Parallel  
Trace 3: Perpendicular  
Trace 4: Ground Parallel  
Test Officer: Renke Wang Plot date: 06/02/2026 16:52:48  
tA0080326E c1:SC0411025 c2:SC0281025 c3:NONE p:NONE a:NONE IP:ONFCC 15209 below 30MHz  
Site ID: Syd Room#3 Seven Hills, NSW  
WintstRS:36.46 Wplc:164.77 RcR&S ESU-40,100183/040,4.73 SP5  
Graph No. 8



| Peak | Frequency [MHz] | Polarisation    | E-Field at 3m [dBuV/m] | Limit at 3m [dBuV/m] | Margin [dB] | Result   |
|------|-----------------|-----------------|------------------------|----------------------|-------------|----------|
| 1    | 13.56           | Parallel        | 71.1                   | 124.0                | -52.9       | Complied |
| 2    | 13.53           | Parallel        | 27.1                   | 90.5                 | -63.4       | Complied |
| 3    | 13.59           | Parallel        | 24.4                   | 90.5                 | -66.1       | Complied |
| 4    | 13.56           | Perpendicular   | 60.9                   | 124.0                | -63.1       | Complied |
| 5    | 13.54           | Perpendicular   | 25.2                   | 90.5                 | -65.3       | Complied |
| 6    | 13.59           | Perpendicular   | 24.6                   | 90.5                 | -65.9       | Complied |
| 7    | 13.56           | Ground Parallel | 73.5                   | 124.0                | -50.5       | Complied |
| 8    | 13.54           | Ground Parallel | 29.9                   | 90.5                 | -60.6       | Complied |
| 9    | 13.59           | Ground Parallel | 27.9                   | 90.5                 | -62.6       | Complied |

### 3.6 §15.225 – Radiated Spurious Emission

#### 3.6.1 Test Procedure

Radiated out-of-band/spurious emissions measurements were performed in a semi-anechoic chamber compliant with ANSI C63.4:2014.

The test frequency range was sub-divided into smaller bands with the defined resolution bandwidths to permit reliable display and identification of emissions.

| Frequency range<br>[MHz] | Measurement<br>Bandwidth<br>[kHz] | Measurement Distance<br>[m] | Antenna                |
|--------------------------|-----------------------------------|-----------------------------|------------------------|
| 0.009 to 0.150           | 0.2                               | 3                           | 0.6 metre Loop Antenna |
| 0.150 to 30              | 9                                 | 3                           | 0.6 metre Loop Antenna |
| 30 to 1000               | 120                               | 3                           | Biconilog Antenna      |

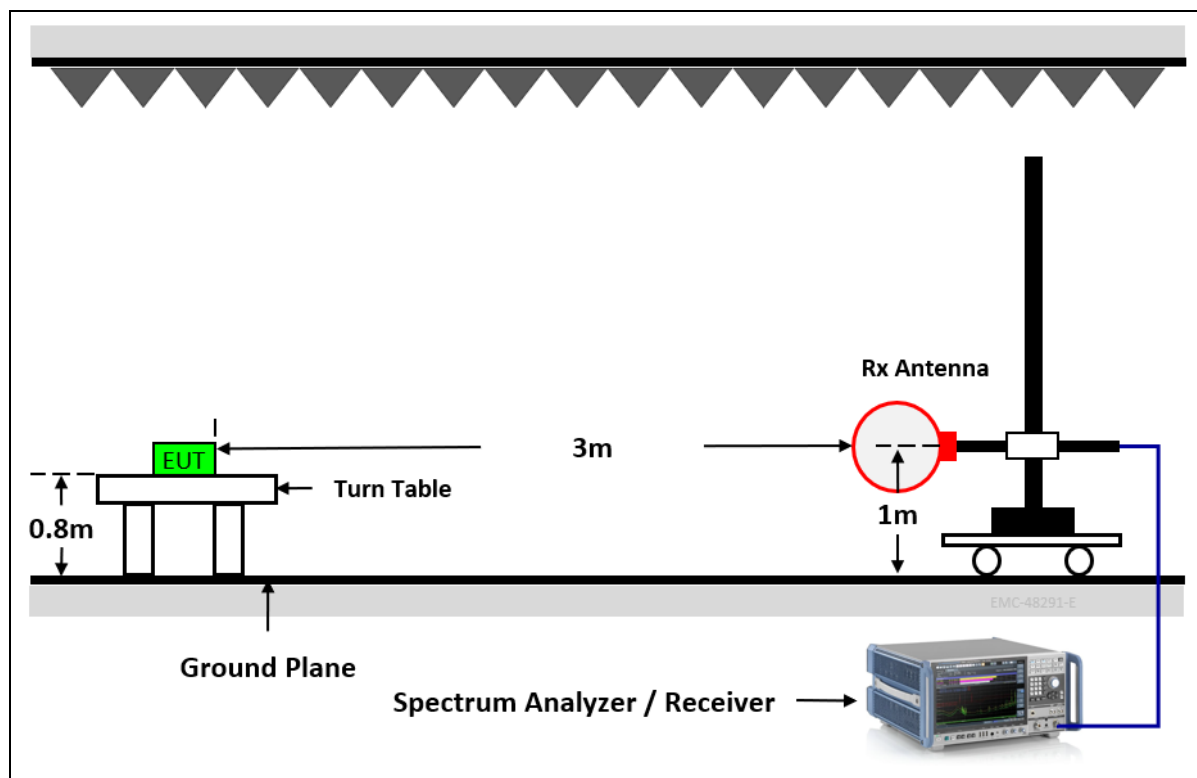
The EUT is classified as floor-standing equipment. During testing, the EUT was placed approximately 10cm above the ground plane using a non-conductive support, representative of normal installation.

The EUT was slowly rotated with the Peak Detector set to Max-Hold. This was performed for at least two antenna heights. Each significant peak was then investigated and maximized with the Quasi-Peak Detector for measurements below 1 GHz.

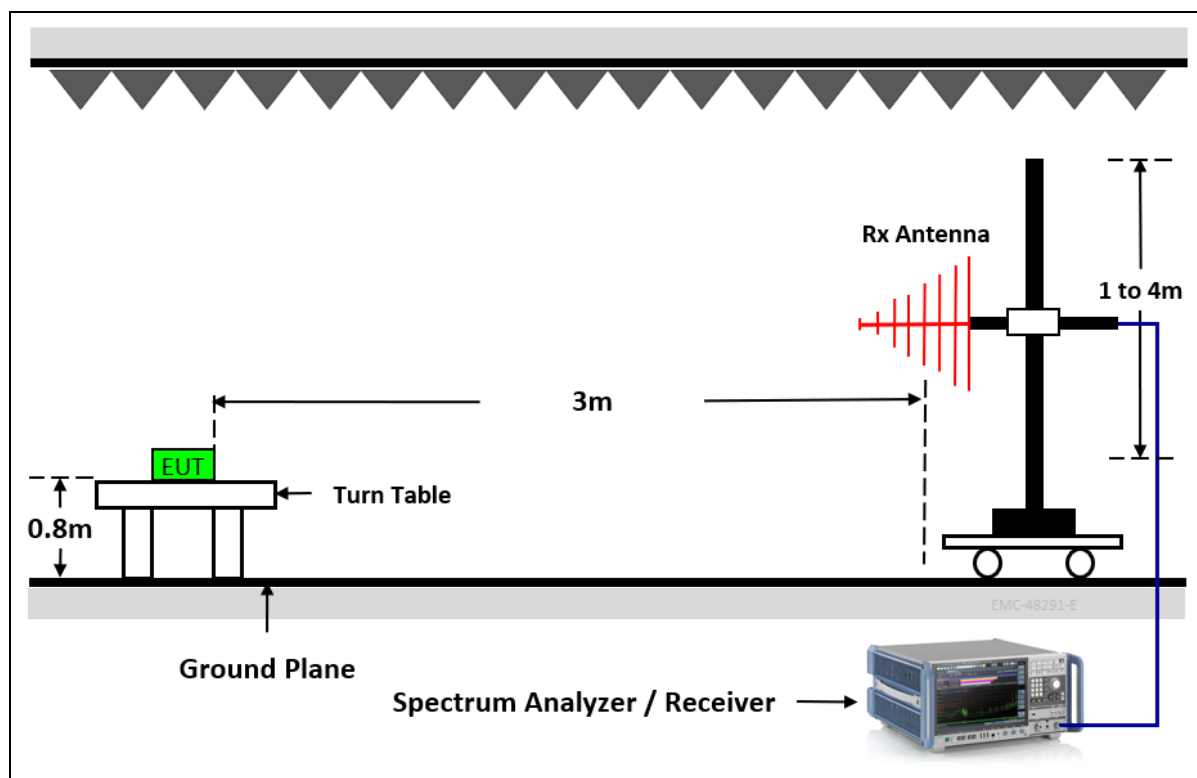
The measurement data for each frequency range was corrected for cable losses and antenna factors. This process was performed for all the polarizations and orientations of the measuring antenna.

### 3.6.2 Test Setup

9 kHz to 30 MHz:



30 - 1000 MHz:



### 3.6.3 Evaluation of field strength

The field strength was calculated automatically by software using pre-stored calibration data. The method of calculation is shown below:

$$E = V + AF - G + L$$

Where: E = Radiated Field Strength in dBμV/m.

V = EMI Receiver Voltage in dBμV

AF = Antenna Factor in dB/m. (stored as a data array)

G = Preamplifier Gain in dB. (stored as a data array)

L = Cable loss in dB. (stored as a data array of Insertion Loss versus frequency)

### 3.6.4 Limits

The limit applied is in accordance with the spurious emissions limit defined in §15.209 Radiated Emissions limit, general requirements

### 3.6.5 Transmitter Spurious Emissions – 9 kHz to 30 MHz

|                              |               |                     |                 |
|------------------------------|---------------|---------------------|-----------------|
| <b>Operating Mode:</b>       | Mode 1        | <b>Test Date:</b>   | 25/09/2025      |
| <b>Power Input:</b>          | 115 Vac 60 Hz | <b>Temperature:</b> | 21°C            |
| <b>Measurement Distance:</b> | 3 m           | <b>Humidity:</b>    | 38%             |
| <b>Test Standard:</b>        | FCC 15.209    | <b>Detector:</b>    | Quasi Peak (QP) |

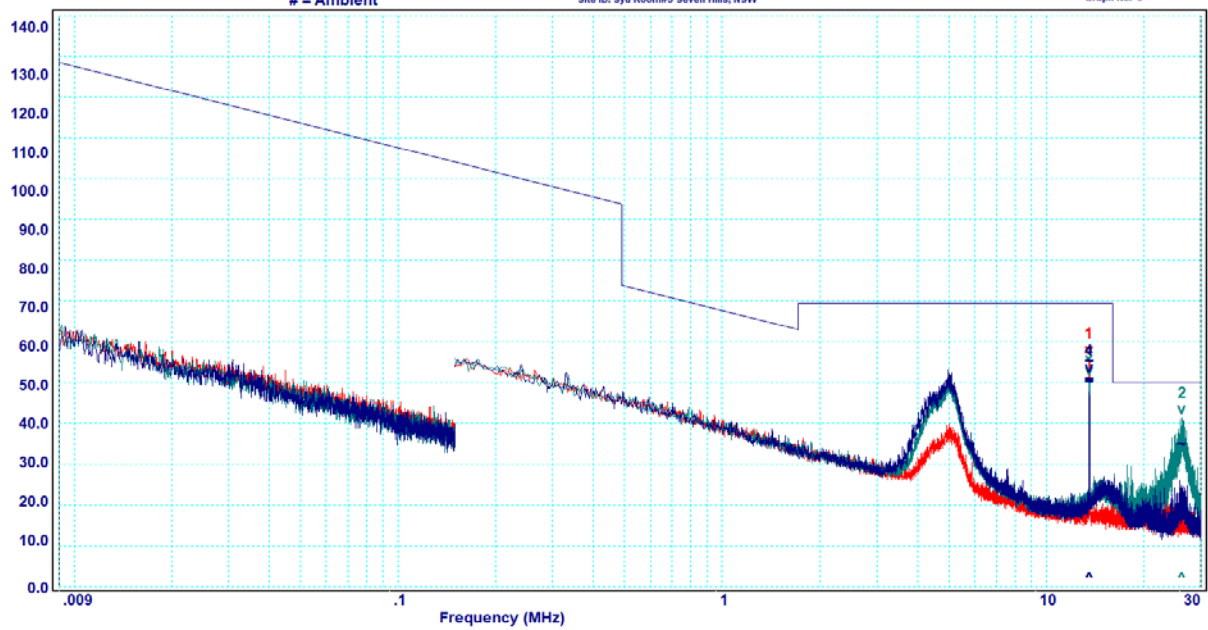
  

|                                                                                                                                                                   |                                                                                    |                                                                                                                                                                                                                                                                                  |                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <p>Sato Vicinity Pty Ltd<br/>Helmer Fridge PJM Kit<br/>MN: SFK-125, SN: GH500419<br/>115 Vac, 60 Hz, Antenna 1<br/>FCC 15.225<br/>Radiated Emissions (dBuV/m)</p> | <p>Limit1: FCC_15209_3m<br/>Fcc Pt15 Subpart C Section 15.209(a) 3Metre Limits</p> | <p>Trace 2: Parallel<br/>Trace 3: Perpendicular<br/>Trace 4: Ground Parallel<br/>Test Officer: Renke Wang-Plot date: 06/02/2026 16:53:22<br/>tA0080326E c1:SC0411025 c2:SC0201025 c3:NONE p:NONE a:NONE i:PON/FCC 15209 below 30MHz<br/>Site ID: Syd Room#3 Seven Hills, NSW</p> | <p>WintatRS:36.46-Wpdt:164.77-Rx:R&amp;S,ESU-40,100103/040,4.73 SP5<br/>Graph No. 9</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|

Job No: S2508008  
Test Date: 25/09/2025

# = Ambient



| Peak | Frequency [MHz] | Polarization    | Level [dBuV/m] | QP Limit [dBuV/m] | Margin [dB] |
|------|-----------------|-----------------|----------------|-------------------|-------------|
| 1*   | 13.56           | Parallel        | N/A            | N/A               | N/A         |
| 2    | 26.22           | Perpendicular   | 35.2           | 50.0              | -14.8       |
| 3*   | 13.56           | Perpendicular   | N/A            | N/A               | N/A         |
| 4*   | 13.56           | Ground Parallel | N/A            | N/A               | N/A         |

**Comment:**

\*13.56 MHz is the intentional transmitter and not subject to §15.209 spurious emissions limit.

|                       |               |              |                 |
|-----------------------|---------------|--------------|-----------------|
| Operating Mode:       | Mode 2        | Test Date:   | 26/09/2025      |
| Power Input:          | 115 Vac 60 Hz | Temperature: | 22°C            |
| Measurement Distance: | 3 m           | Humidity:    | 37%             |
| Test Standard:        | FCC 15.209    | Detector:    | Quasi Peak (QP) |

Sato Vicinity Pty Ltd  
Helmer Fridge PJM Kit  
MN: SFK-125, SN: GH500419  
115 Vac, 60 Hz, Antenna 2  
FCC 15.225  
Radiated Emissions (dBuV/m)

Job No: S2508008  
Test Date: 26/09/2025

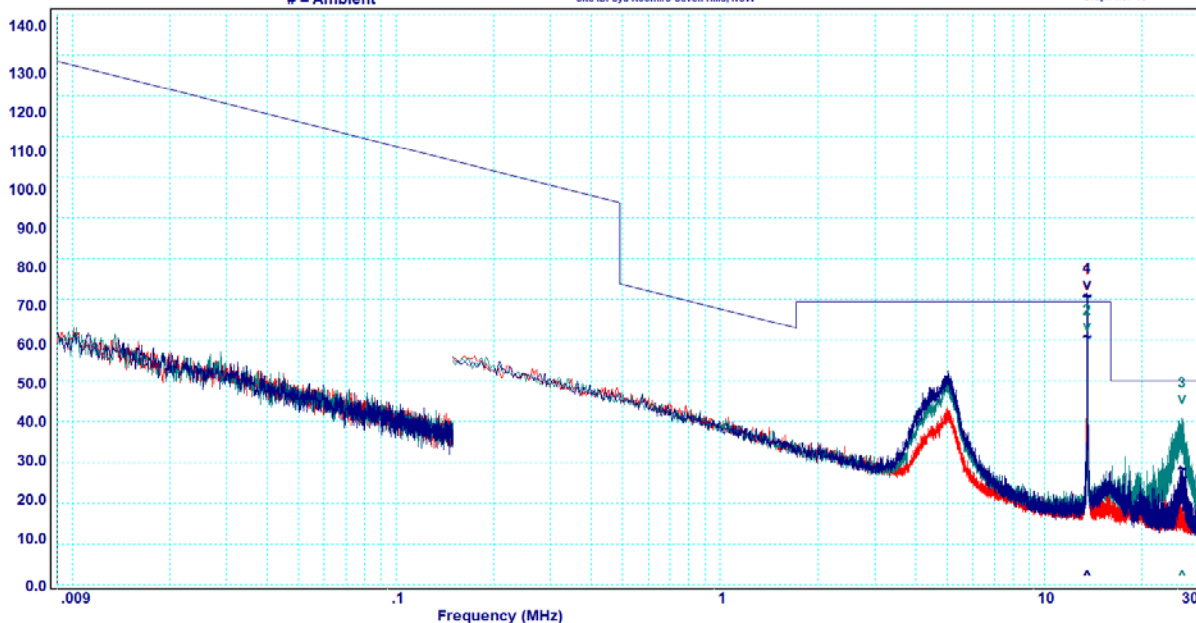
Limit1: FCC\_15209\_3m

Fcc Pt15 Subpart C Section 15.209(a) 3Metre Limits

Trace 2: Parallel  
Trace 3: Perpendicular  
Trace 4: Ground Parallel

Test Officer: Renke Wang-Plot date: 06/02/2026 16:53:55  
cA0000326E c1: SC0411025 c2: SC0201025 c3: NONE p: NONE a: NONE IP: NONE FCC 15209 below 30MHz  
Site ID: Syd Room#3 Seven Hills, NSW

WintRS:38.46-WpIt:164.77-Rx:R&S,ESU-40,100103/040,4.73 SP5  
Graph No. 10



| Peak | Frequency [MHz] | Polarization    | Level [dBuV/m] | QP Limit [dBuV/m] | Margin [dB] |
|------|-----------------|-----------------|----------------|-------------------|-------------|
| 1*   | 13.56           | Parallel        | N/A            | N/A               | N/A         |
| 2    | 26.18           | Perpendicular   | 30.5           | 50.0              | -19.5       |
| 3*   | 13.56           | Perpendicular   | N/A            | N/A               | N/A         |
| 4*   | 13.56           | Ground Parallel | N/A            | N/A               | N/A         |

**Comment:**

\*13.56 MHz is the intentional transmitter and not subject to §15.209 spurious emissions limit.

### 3.6.6 Transmitter Spurious Emissions – 30 to 1000 MHz

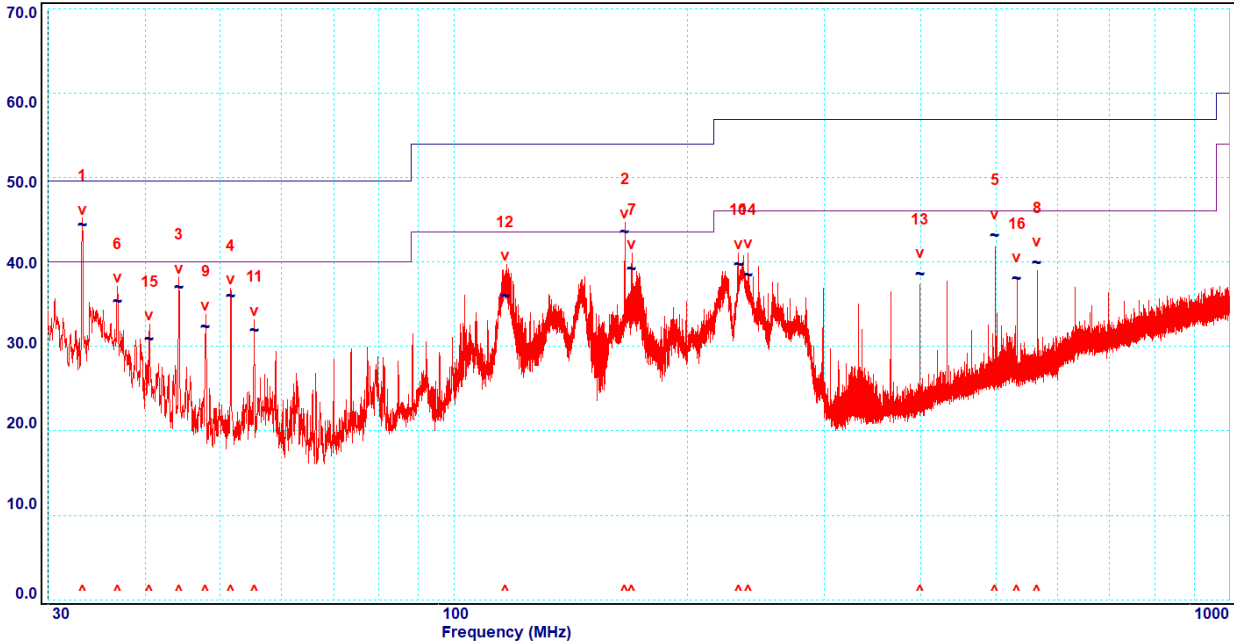
|                              |               |                     |                 |
|------------------------------|---------------|---------------------|-----------------|
| <b>Operating Mode:</b>       | Mode 1        | <b>Test Date:</b>   | 24/09/2025      |
| <b>Power Input:</b>          | 115 Vac 60 Hz | <b>Temperature:</b> | 21°C            |
| <b>Measurement Distance:</b> | 3 m           | <b>Humidity:</b>    | 40%             |
| <b>Test Standard:</b>        | FCC 15.209    | <b>Detector:</b>    | Quasi Peak (QP) |

|                                                                                                                    |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Sato Vicinity Pty Ltd<br/>Helmer Fridge PJM Kit<br/>MN: SFK-125, SN: GH500419<br/>115 Vac, 60 Hz, Antenna 1</p> | <p>Limit1: FCC-A3<br/>Limit2: FCC-15209</p> <p>FCC CLASS A 3m LIMITS<br/>FCC Part 15.209 3 Metre Limits 30MHz to 40GHz</p> <p>Trace 2: Vertical Emissions</p> | <p>Job No: S2508008<br/>Test Date: 24/09/2025</p> <p>Test Officer: Renke Wang, Plot date: 06/02/2026 16:55:24<br/>tA4300527 c1:SC0281025 c2:SC0411025 c3:NONE p:NONE a:NONE IP:ON1RE Rm 3 Below 1 GHz<br/>Site ID: Syd Room#3 Seven Hills, NSW</p> <p>Wintstrs:36.48 Wpl:164.77 RxcR&amp;S,ESU-40,100183/040,4.73 SP5<br/>Graph No. 13</p> |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Radiated Emissions (dBuV/m) # = Ambient

| Peak | Frequency [MHz] | Polarization | Level [dBuV/m] | Qp Limit Class A 15.109 [dBuV/m] | Margin to Class A 15.109 [dB] | QP Limit 15.209 [dBuV/m] | Margin to 15.209 [dB] |
|------|-----------------|--------------|----------------|----------------------------------|-------------------------------|--------------------------|-----------------------|
| 1    | 33.23           | Vertical     | 44.8           | 49.6                             | -4.8                          | 40.0                     | N/A*                  |
| 2    | 166.15          | Vertical     | 44.0           | 54.0                             | -10.0                         | 43.5                     | N/A*                  |
| 3    | 498.48          | Vertical     | 43.6           | 56.9                             | -13.3                         | 46.0                     | -2.4**                |
| 4    | 44.24           | Vertical     | 37.4           | 49.6                             | -12.2                         | 40.0                     | -2.6**                |
| 5    | 51.60           | Vertical     | 36.4           | 49.6                             | -13.2                         | 40.0                     | -3.6**                |
| 6    | 169.57          | Vertical     | 39.6           | 54.0                             | -14.4                         | 43.5                     | -3.9**                |
| 7    | 36.85           | Vertical     | 35.7           | 49.6                             | -13.9                         | 40.0                     | -4.3**                |
| 8    | 564.94          | Vertical     | 40.3           | 56.9                             | -16.6                         | 46.0                     | -5.7                  |
| 9    | 232.62          | Vertical     | 40.1           | 56.9                             | -16.8                         | 46.0                     | -5.9                  |
| 10   | 398.74          | Vertical     | 39.0           | 56.9                             | -17.9                         | 46.0                     | -7.0                  |
| 11   | 239.62          | Vertical     | 38.9           | 56.9                             | -18                           | 46.0                     | -7.1                  |
| 12   | 116.49          | Vertical     | 36.4           | 54.0                             | -17.6                         | 43.5                     | -7.1                  |
| 13   | 47.92           | Vertical     | 32.8           | 49.6                             | -16.8                         | 40.0                     | -7.2                  |
| 14   | 531.69          | Vertical     | 38.5           | 56.9                             | -18.4                         | 46.0                     | -7.5                  |
| 15   | 55.30           | Vertical     | 32.4           | 49.6                             | -17.2                         | 40.0                     | -7.6                  |
| 16   | 145.88          | Vertical     | 35.5           | 54.0                             | -18.5                         | 43.5                     | -8.0                  |

**Comments:**

\*These peaks were identified unintentional emissions which are unrelated to the 13.56 MHz transmitter and not subject to the §15.209 spurious emissions limit.

\*\*This result falls within the laboratory's measurement uncertainty.

|                       |               |              |                 |
|-----------------------|---------------|--------------|-----------------|
| Operating Mode:       | Mode 1        | Test Date:   | 24/09/2025      |
| Power Input:          | 115 Vac 60 Hz | Temperature: | 21°C            |
| Measurement Distance: | 3 m           | Humidity:    | 40%             |
| Test Standard:        | FCC 15.209    | Detector:    | Quasi Peak (QP) |

Sato Vicinity Pty Ltd  
Helmer Fridge PJM Kit  
MN: SFK-125, SN: GH500419  
115 Vac, 60 Hz, Antenna 1

Limit1: FCC-A3  
Limit2: FCC-15209

FCC CLASS A 3m LIMITS  
FCC Part 15.209 3 Metre Limits 30MHz to 40GHz

Trace 2: Horizontal Emissions

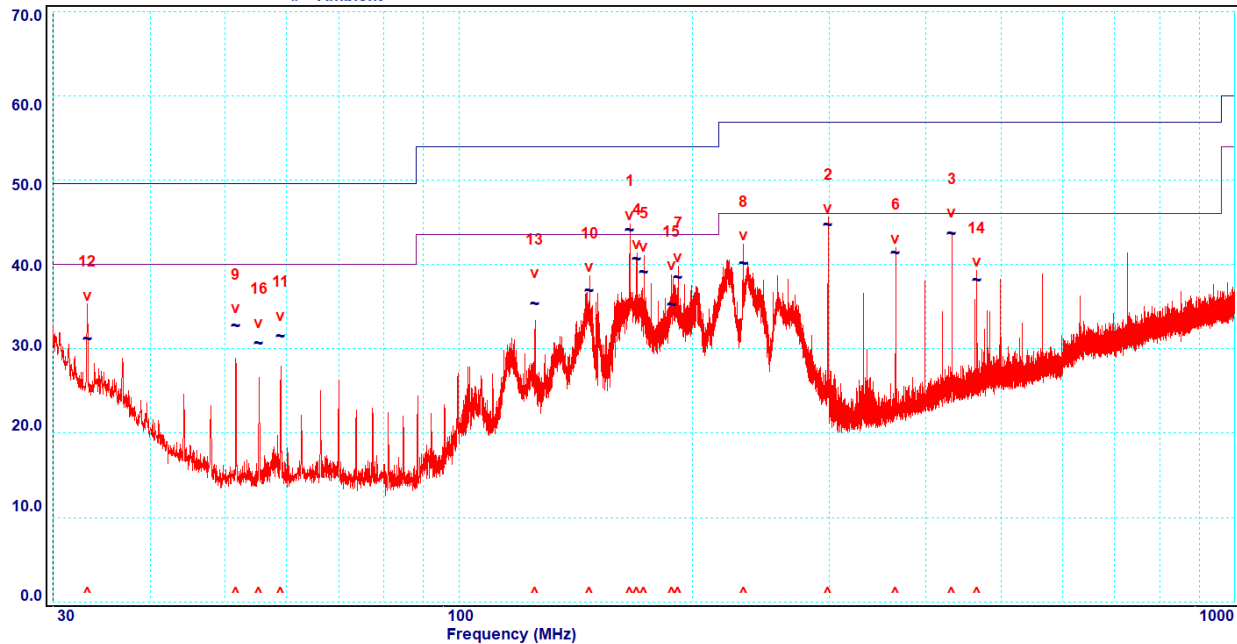
Job No: S2508008  
Test Date: 29/09/2025

Test Officer: Renke Wang-Plot date: 06/02/2026 16:55:47  
t: A4300527 c1: SC0281025 c2: SC0411025 c3: NONE p: NONE a: NONE IP: ON1 RE Rm 3 Below 1 GHz  
Site ID: Syd Room#3 Seven Hills, NSW

Wintstrs: 36.46-WpIt: 164.77-Rx: R&S, ESU-40, 100183/040, 4.73 SP5  
Graph No. 14

Radiated Emissions (dBuV/m)

# = Ambient



| Peak | Frequency [MHz] | Polarization | Level [dBuV/m] | Qp Limit Class A 15.109 [dBuV/m] | Margin to Class A 15.109 [dB] | QP Limit 15.209 [dBuV/m] | Margin to 15.209 [dB] |
|------|-----------------|--------------|----------------|----------------------------------|-------------------------------|--------------------------|-----------------------|
| 1    | 166.15          | Horizontal   | 44.5           | 54.0                             | -9.5                          | 43.5                     | N/A*                  |
| 2    | 299.08          | Horizontal   | 45.1           | 56.9                             | -11.8                         | 46.0                     | -0.9**                |
| 3    | 432.02          | Horizontal   | 44.1           | 56.9                             | -12.8                         | 46.0                     | -1.9**                |
| 4    | 169.58          | Horizontal   | 41.1           | 54.0                             | -12.9                         | 43.5                     | -2.4**                |
| 5    | 173.26          | Horizontal   | 39.5           | 54.0                             | -14.5                         | 43.5                     | -4.0**                |
| 6    | 365.53          | Horizontal   | 41.8           | 56.9                             | -15.1                         | 46.0                     | -4.2**                |
| 7    | 191.71          | Horizontal   | 38.9           | 54.0                             | -15.1                         | 43.5                     | -4.6**                |
| 8    | 232.62          | Horizontal   | 40.6           | 56.9                             | -16.3                         | 46.0                     | -5.4                  |
| 9    | 147.40          | Horizontal   | 37.4           | 54.0                             | -16.6                         | 43.5                     | -6.1                  |
| 10   | 51.61           | Horizontal   | 33.2           | 49.6                             | -16.4                         | 40.0                     | -6.8                  |
| 11   | 465.20          | Horizontal   | 38.6           | 56.9                             | -18.3                         | 46                       | -7.4                  |
| 12   | 398.79          | Horizontal   | 38.3           | 56.9                             | -18.6                         | 46.0                     | -7.7                  |
| 13   | 125.32          | Horizontal   | 35.8           | 54.0                             | -18.2                         | 43.5                     | -7.7                  |
| 14   | 187.97          | Horizontal   | 35.6           | 54.0                             | -18.4                         | 43.5                     | -7.9                  |
| 15   | 564.91          | Horizontal   | 38.0           | 56.9                             | -18.9                         | 46.0                     | -8.0                  |
| 16   | 58.98           | Horizontal   | 31.9           | 49.6                             | -17.7                         | 40.0                     | -8.1                  |

Comments:

\*These peaks were identified unintentional emissions which are unrelated to the 13.56 MHz transmitter and not subject to the §15.209 spurious emissions limit.

\*\* This result falls within the laboratory's measurement uncertainty.

|                       |               |              |                 |            |
|-----------------------|---------------|--------------|-----------------|------------|
| Operating Mode:       | Mode 2        | Test Date:   | 23/09/2025      | 29/09/2025 |
| Power Input:          | 115 Vac 60 Hz | Temperature: | 21°C            | 20°C       |
| Measurement Distance: | 3 m           | Humidity:    | 38%             | 50%        |
| Test Standard:        | FCC 15.209    | Detector:    | Quasi Peak (QP) |            |

Sato Vicinity Pty Ltd  
Helmer Fridge PJM Kit  
MN: SFK-125, SN: GH500419  
115 Vac, 60 Hz, Antenna 2

Limit1: FCC-A3  
Limit2: FCC-15209

FCC CLASS A 3m LIMITS  
FCC Part 15.209 3 Metre Limits 30MHz to 40GHz

Trace 2: Vertical Emissions

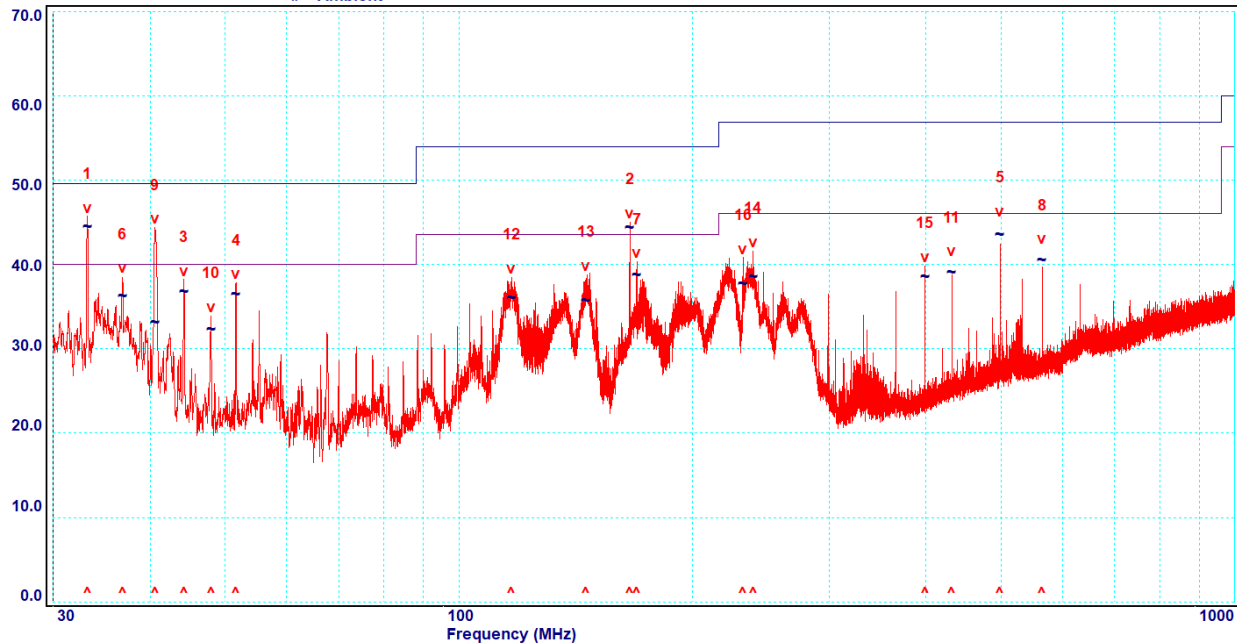
Job No: S2508008  
Test Date: 29/09/2025

Test Officer: Renke Wang-Plot date: 06/02/2026 16:54:31  
t: A4300527 c1: SC0281025 c2: SC0411025 c3: NONE p: NONE a: NONE IP: ON1RE Rm 3 Below 1 GHz  
Site ID: Syd Room#3 Seven Hills, NSW

Wintstrs: 36.46-WpIt: 164.77-Rx: R&S, ESU-40, 100183/040, 4.73 SP5  
Graph No. 11

Radiated Emissions (dBuV/m)

# = Ambient



| Peak | Frequency [MHz] | Polarization | Level [dBuV/m] | Qp Limit Class A 15.109 [dBuV/m] | Margin to Class A 15.109 [dB] | QP Limit 15.209 [dBuV/m] | Margin to 15.209 [dB] |
|------|-----------------|--------------|----------------|----------------------------------|-------------------------------|--------------------------|-----------------------|
| 1    | 33.22           | Vertical     | 44.9           | 49.6                             | -4.7                          | 40.0                     | N/A*                  |
| 2    | 166.16          | Vertical     | 44.9           | 54.0                             | -9.1                          | 43.5                     | N/A*                  |
| 3    | 498.48          | Vertical     | 44.0           | 56.9                             | -12.9                         | 46.0                     | -2.0**                |
| 4    | 44.22           | Vertical     | 37.3           | 49.6                             | -12.3                         | 40.0                     | -2.7**                |
| 5    | 51.62           | Vertical     | 37.0           | 49.6                             | -12.6                         | 40.0                     | -3.0**                |
| 6    | 36.85           | Vertical     | 36.7           | 49.6                             | -12.9                         | 40.0                     | -3.3**                |
| 7    | 169.57          | Vertical     | 39.2           | 54.0                             | -14.8                         | 43.5                     | -4.3**                |
| 8    | 564.91          | Vertical     | 41.0           | 56.9                             | -15.9                         | 46.0                     | -5.0                  |
| 9    | 40.59           | Vertical     | 33.6           | 49.6                             | -16.0                         | 40.0                     | -6.4                  |
| 10   | 431.98          | Vertical     | 39.5           | 56.9                             | -17.4                         | 46.0                     | -6.5                  |
| 11   | 239.62          | Vertical     | 39.0           | 56.9                             | -18.7                         | 46.0                     | -7.0                  |
| 12   | 116.95          | Vertical     | 36.5           | 54.0                             | -17.5                         | 43.5                     | -7.0                  |
| 13   | 398.79          | Vertical     | 39.0           | 56.9                             | -17.9                         | 46.0                     | -7.0                  |
| 14   | 47.93           | Vertical     | 32.8           | 49.6                             | -16.8                         | 40.0                     | -7.2                  |
| 15   | 145.93          | Vertical     | 36.2           | 54.0                             | -17.8                         | 43.5                     | -7.3                  |
| 16   | 232.58          | Vertical     | 38.2           | 56.9                             | -18.7                         | 46.0                     | -7.8                  |

#### Comments:

\*These peaks were identified unintentional emissions which are unrelated to the 13.56 MHz transmitter and not subject to the §15.209 spurious emissions limit.

\*\* This result falls within the laboratory's measurement uncertainty.

|                       |               |              |                 |            |
|-----------------------|---------------|--------------|-----------------|------------|
| Operating Mode:       | Mode 2        | Test Date:   | 23/09/2025      | 29/09/2025 |
| Power Input:          | 115 Vac 60 Hz | Temperature: | 21°C            | 20°C       |
| Measurement Distance: | 3 m           | Humidity:    | 38%             | 50%        |
| Test Standard:        | FCC 15.209    | Detector:    | Quasi Peak (QP) |            |

Sato Vicinity Pty Ltd  
Helmer Fridge PJM Kit  
MN: SFK-125, SN: GH500419  
115 Vac, 60 Hz, Antenna 2

Limit1: FCC-A3  
Limit2: FCC-15209

FCC CLASS A 3m LIMITS  
FCC Part 15.209 3 Metre Limits 30MHz to 40GHz

Trace 2: Horizontal Emissions

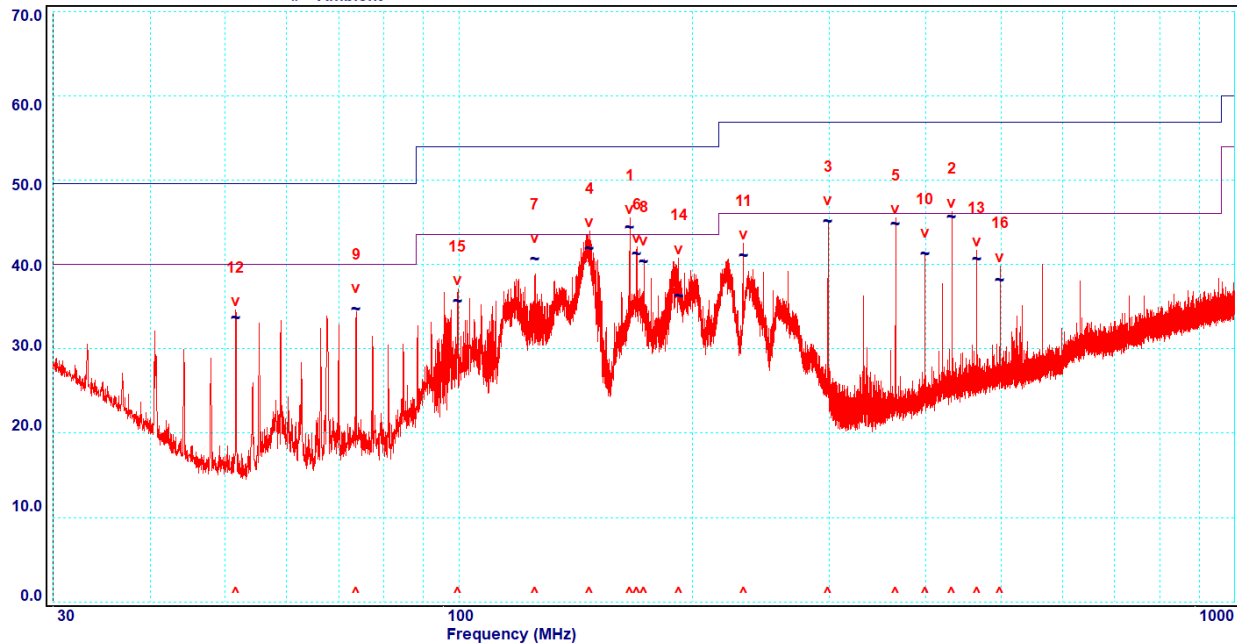
Job No: S2508008  
Test Date: 29/09/2025

Test Officer: Renke Wang-Plot date: 06/02/2026 16:54:54  
t: A4300527 c1: SC0281025 c2: SC0411025 c3: NONE p: NONE a: NONE IP: ON1RE Rm 3 Below 1 GHz  
Site ID: Syd Room#3 Seven Hills, NSW

Wintstrs: 36.46-WpIt: 164.77-Rx: R&S, ESU-40, 100183/040, 4.73 SP5  
Graph No. 12

Radiated Emissions (dBuV/m)

# = Ambient



| Peak | Frequency [MHz] | Polarization | Level [dBuV/m] | Qp Limit Class A 15.109 [dBuV/m] | Margin to Class A 15.109 [dB] | QP Limit 15.209 [dBuV/m] | Margin to 15.209 [dB] |
|------|-----------------|--------------|----------------|----------------------------------|-------------------------------|--------------------------|-----------------------|
| 1    | 166.15          | Horizontal   | 44.8           | 54.0                             | -9.2                          | 43.5                     | N/A*                  |
| 2    | 431.99          | Horizontal   | 46.1           | 56.9                             | -10.8                         | 46.0                     | N/A*                  |
| 3    | 299.06          | Horizontal   | 45.6           | 56.9                             | -11.3                         | 46.0                     | -0.4**                |
| 4    | 365.54          | Horizontal   | 45.2           | 56.9                             | -11.7                         | 46.0                     | -0.8**                |
| 5    | 147.46          | Horizontal   | 42.4           | 54.0                             | -11.6                         | 43.5                     | -1.1**                |
| 6    | 169.57          | Horizontal   | 41.7           | 54.0                             | -12.3                         | 43.5                     | -1.8**                |
| 7    | 125.34          | Horizontal   | 41.1           | 54.0                             | -12.9                         | 43.5                     | -2.4**                |
| 8    | 173.26          | Horizontal   | 40.8           | 54.0                             | -13.2                         | 43.5                     | -2.7**                |
| 9    | 398.77          | Horizontal   | 41.7           | 56.9                             | -15.2                         | 46.0                     | -4.3**                |
| 10   | 232.62          | Horizontal   | 41.5           | 56.9                             | -15.4                         | 46.0                     | -4.5**                |
| 11   | 73.74           | Horizontal   | 35.2           | 49.6                             | -14.4                         | 40.0                     | -4.8                  |
| 12   | 465.21          | Horizontal   | 41.1           | 56.9                             | -15.8                         | 46.0                     | -4.9                  |
| 13   | 51.60           | Horizontal   | 34.1           | 49.6                             | -15.5                         | 40.0                     | -5.9                  |
| 14   | 192.12          | Horizontal   | 36.7           | 54.0                             | -17.3                         | 43.5                     | -6.8                  |
| 15   | 498.45          | Horizontal   | 38.6           | 56.9                             | -18.3                         | 46.0                     | -7.4                  |
| 16   | 99.70           | Horizontal   | 36.1           | 54.0                             | -17.9                         | 43.5                     | -7.4                  |

#### Comments:

\*These peaks were identified unintentional emissions which are unrelated to the 13.56 MHz transmitter and not subject to the §15.209 spurious emissions limit.

\*\* This result falls within the laboratory's measurement uncertainty.

|                       |               |              |                 |
|-----------------------|---------------|--------------|-----------------|
| Operating Mode:       | Mode 3        | Test Date:   | 23/09/2025      |
| Power Input:          | 115 Vac 60 Hz | Temperature: | 21°C            |
| Measurement Distance: | 3 m           | Humidity:    | 38%             |
| Test Standard:        | FCC 15.209    | Detector:    | Quasi Peak (QP) |

Sato Vicinity Pty Ltd  
Helmer Fridge PJM Kit  
MN: SFK-125, SN: GH500419  
115 Vac, 60 Hz, RFID OFF

Limit1: FCC-A3  
Limit2: FCC-15209

FCC CLASS A 3m LIMITS  
FCC Part 15.209 3 Metre Limits 30MHz to 40GHz

Trace 2: Vertical Emissions

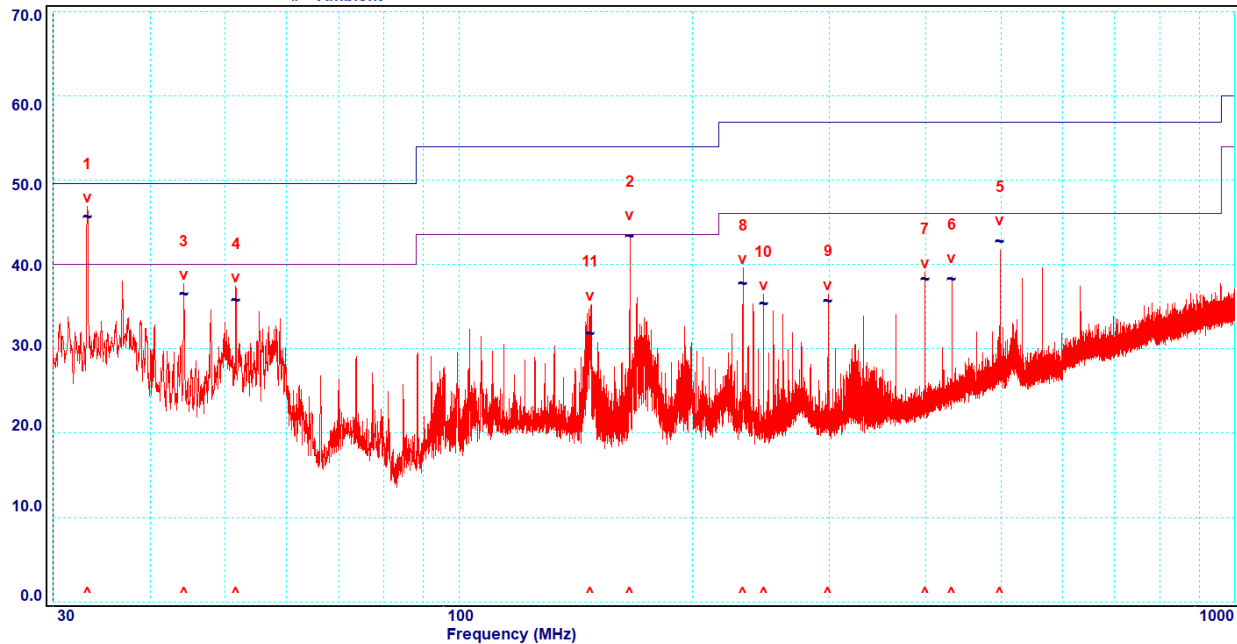
Job No: S2508008  
Test Date: 23/09/2025

Test Officer: Renke Wang-Plot date: 06/02/2026 16:56:11  
t: A4300527 c1: SC0281025 c2: SC0411025 c3: NONE p: NONE a: NONE IP: ON1RE Rm 3 Below 1 GHz  
Site ID: Syd Room#3 Seven Hills, NSW

Wintstrs: 36.46-WpIt: 164.77-Rx: R&S, ESU-40, 100183/040, 4.73 SP5  
Graph No. 15

Radiated Emissions (dBuV/m)

# = Ambient



| Peak | Frequency [MHz] | Polarization | Level [dBuV/m] | Qp Limit Class A 15.109 [dBuV/m] | Margin to Class A 15.109 [dB] | QP Limit 15.209 [dBuV/m] | Margin to 15.209 [dB] |
|------|-----------------|--------------|----------------|----------------------------------|-------------------------------|--------------------------|-----------------------|
| 1    | 33.22           | Vertical     | 46.1           | 49.6                             | -3.5                          | 40.0                     | N/A*                  |
| 2    | 166.15          | Vertical     | 43.8           | 54.0                             | -10.2                         | 43.5                     | N/A*                  |
| 3    | 498.50          | Vertical     | 43.1           | 56.9                             | -13.8                         | 46.0                     | -2.9**                |
| 4    | 44.23           | Vertical     | 37.0           | 49.6                             | -12.6                         | 40.0                     | -3.0**                |
| 5    | 51.62           | Vertical     | 36.2           | 49.6                             | -13.4                         | 40.0                     | -3.8**                |
| 6    | 431.98          | Vertical     | 38.7           | 56.9                             | -18.2                         | 46.0                     | -7.3                  |
| 7    | 398.78          | Vertical     | 38.7           | 56.9                             | -18.2                         | 46.0                     | -7.3                  |
| 8    | 232.59          | Vertical     | 38.1           | 56.9                             | -18.8                         | 46.0                     | -7.9                  |
| 9    | 299.07          | Vertical     | 36.1           | 56.9                             | -20.8                         | 46.0                     | -9.9                  |
| 10   | 246.99          | Vertical     | 35.8           | 56.9                             | -21.1                         | 46.0                     | -10.2                 |
| 11   | 147.58          | Vertical     | 32.3           | 54.0                             | -21.7                         | 43.5                     | -11.2                 |

**Comments:**

\*These peaks were identified unintentional emissions which are unrelated to the 13.56 MHz transmitter and not subject to the §15.209 spurious emissions limit.

\*\* This result falls within the laboratory's measurement uncertainty.

|                       |               |              |                 |
|-----------------------|---------------|--------------|-----------------|
| Operating Mode:       | Mode 3        | Test Date:   | 23/09/2025      |
| Power Input:          | 115 Vac 60 Hz | Temperature: | 21°C            |
| Measurement Distance: | 3 m           | Humidity:    | 38%             |
| Test Standard:        | FCC 15.209    | Detector:    | Quasi Peak (QP) |

Sato Vicinity Pty Ltd  
Helmer Fridge PJM Kit  
MN: SFK-125, SN: GH500419  
115 Vac, 60 Hz, RFID OFF

Limit1: FCC-A3  
Limit2: FCC-15209

FCC CLASS A 3m LIMITS  
FCC Part 15.209 3 Metre Limits 30MHz to 40GHz

Trace 2: Horizontal Emissions

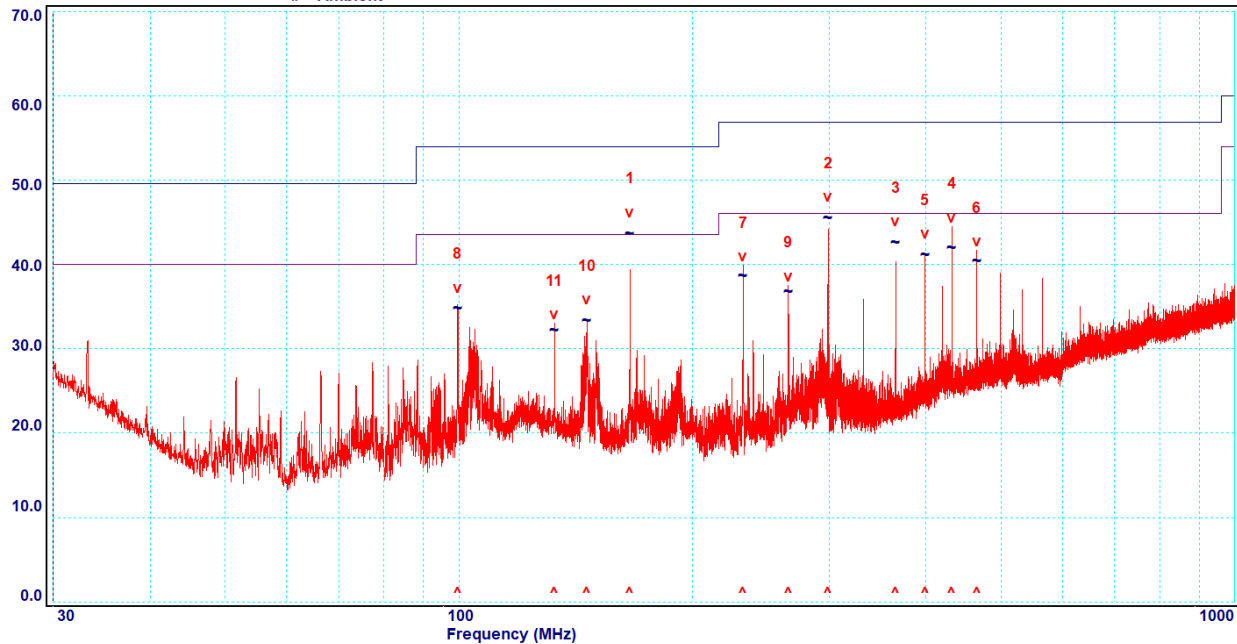
Job No: S2508008  
Test Date: 23/09/2025

Test Officer: Renke Wang-Plot date: 06/02/2026 16:56:34  
t: A4300527 c1: SC0281025 c2: SC0411025 c3: NONE p: NONE a: NONE IP: ON1 RE Rm 3 Below 1 GHz  
Site ID: Syd Room#3 Seven Hills, NSW

Wintstrs: 36.46-Wp1t: 164.77-Rx: R&S, ESU-40, 100183/040, 4.73 SP5  
Graph No. 16

Radiated Emissions (dBuV/m)

# = Ambient



| Peak | Frequency [MHz] | Polarization | Level [dBuV/m] | Qp Limit Class A 15.109 [dBuV/m] | Margin to Class A 15.109 [dB] | QP Limit 15.209 [dBuV/m] | Margin to 15.209 [dB] |
|------|-----------------|--------------|----------------|----------------------------------|-------------------------------|--------------------------|-----------------------|
| 1    | 166.16          | Horizontal   | 44.2           | 54.0                             | -9.8                          | 43.5                     | N/A*                  |
| 2    | 299.09          | Horizontal   | 46.0           | 56.9                             | -10.9                         | 46.0                     | N/A*                  |
| 3    | 365.53          | Horizontal   | 43.0           | 56.9                             | -13.9                         | 46.0                     | -3.0**                |
| 4    | 431.99          | Horizontal   | 42.4           | 56.9                             | -14.5                         | 46.0                     | -3.6**                |
| 5    | 398.76          | Horizontal   | 41.6           | 56.9                             | -15.3                         | 46.0                     | -4.4**                |
| 6    | 465.23          | Horizontal   | 40.9           | 56.9                             | -16.0                         | 46.0                     | -5.1                  |
| 7    | 232.61          | Horizontal   | 39.1           | 56.9                             | -17.8                         | 46.0                     | -6.9                  |
| 8    | 99.69           | Horizontal   | 35.2           | 54.0                             | -18.8                         | 43.5                     | -8.3                  |
| 9    | 265.82          | Horizontal   | 37.2           | 56.9                             | -19.7                         | 46.0                     | -8.8                  |
| 10   | 146.27          | Horizontal   | 33.8           | 54.0                             | -20.2                         | 43.5                     | -9.7                  |
| 11   | 132.70          | Horizontal   | 32.7           | 54.0                             | -21.3                         | 43.5                     | -10.8                 |

**Comments:**

\*This peak was identified unintentional emissions which are unrelated to the 13.56 MHz transmitter and not subject to the §15.209 spurious emissions limit.

\*\* This result falls within the laboratory's measurement uncertainty.

### 3.7 §15.225(e) - Frequency Stability

#### 3.7.1 Test Procedure

The frequency stability was measured in accordance with ANSI C63.10: 2020 clause 6.8.

The frequency stability of the carrier signal was measured over

- a temperature variation from -20°C to 50°C at normal supply voltage and
- a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20°C

#### 3.7.2 Limits

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency.

#### 3.7.3 Results

| Voltage: 115V, 60Hz |                          |           |           |            |                         |         |          |
|---------------------|--------------------------|-----------|-----------|------------|-------------------------|---------|----------|
| Temperature<br>[°C] | Measured Frequency [MHz] |           |           |            | Max Frequency Deviation |         | Result   |
|                     | Start up                 | 2 min     | 5 min     | 10 min     | MHz                     | %       |          |
| 50                  | 13.559883                | 13.55987  | 13.559862 | 13.559853  | 0.000118                | 0.00087 | Complied |
| 40                  | 13.559883                | 13.559883 | 13.559879 | 13.559879  | 0.000092                | 0.00068 | Complied |
| 30                  | 13.559933                | 13.559933 | 13.559925 | 13.559917  | 0.000054                | 0.00040 | Complied |
| 20                  | 13.559988                | 13.559996 | 13.559979 | 13.559971* | 0.000025                | 0.00018 | Complied |
| 10                  | 13.560042                | 13.560033 | 13.560021 | 13.560017  | 0.000071                | 0.00052 | Complied |
| 0                   | 13.560075                | 13.560067 | 13.560067 | 13.560058  | 0.000104                | 0.00077 | Complied |
| -10                 | 13.560096                | 13.560092 | 13.560101 | 13.560088  | 0.000130                | 0.00096 | Complied |
| -20                 | 13.560105                | 13.560104 | 13.560100 | 13.560104  | 0.000134                | 0.00099 | Complied |

\*Reference operating frequency: 13.559971 MHz at 20°C, 10mins.

| Temperature: 20°C |                    |                              |                            |          |
|-------------------|--------------------|------------------------------|----------------------------|----------|
| Voltage<br>[V]    | Frequency<br>[MHz] | Frequency Deviation<br>[MHz] | Frequency Deviation<br>[%] | Result   |
| 97.5 (85%)        | 13.559992          | 0.000012                     | 0.000088                   | Complied |
| 115               | 13.559980*         | 0.000000                     | 0.000000                   | N/A      |
| 132.25 (115%)     | 13.559972          | -0.000008                    | -0.000059                  | Complied |

\*Reference operating frequency: 13.559980 MHz at 115V, 60Hz

### 3.8 §15.215(c) – 20 dB Emission Bandwidth

#### 3.8.1 Test Procedure

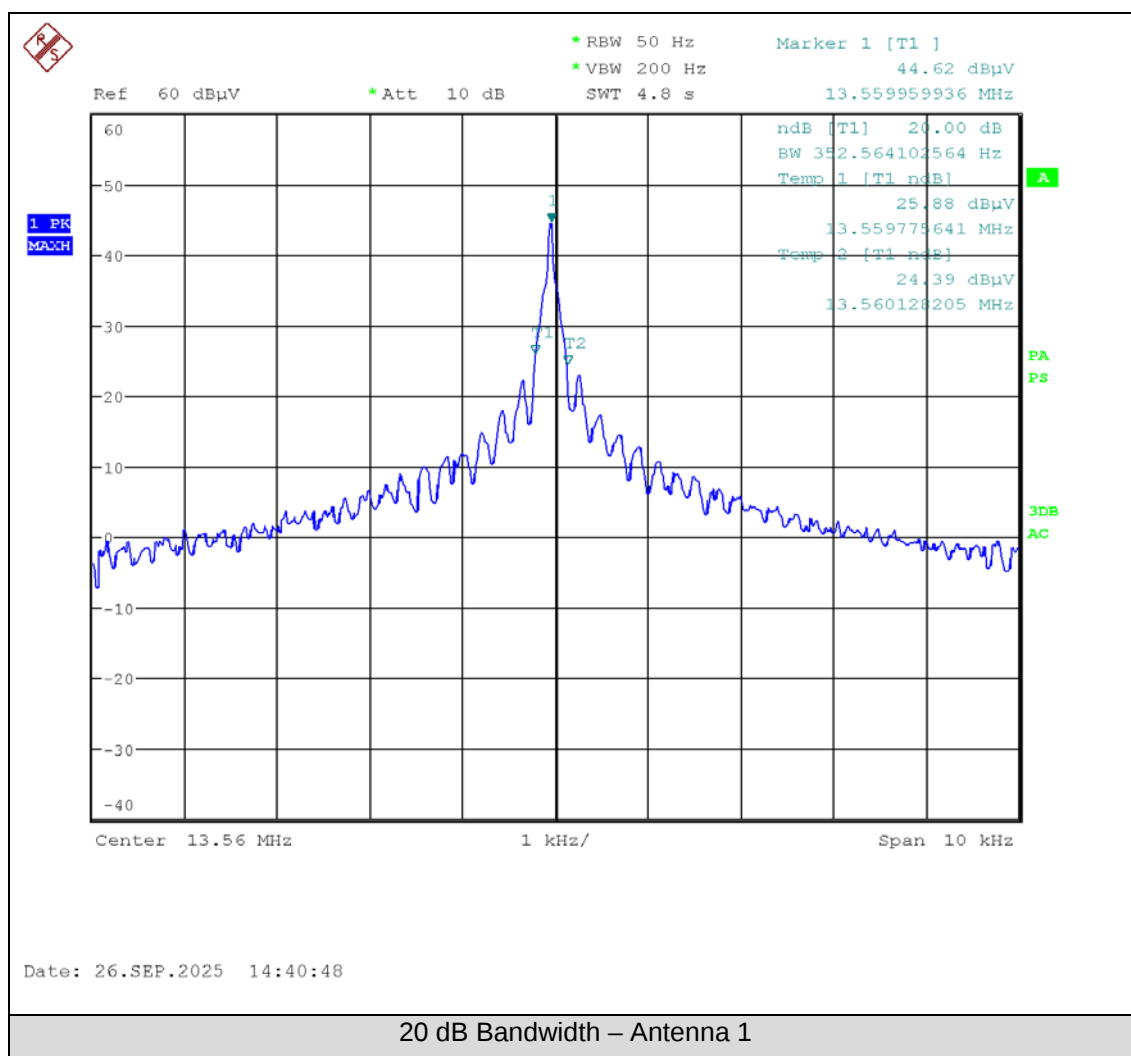
The 20 dB emission bandwidth of the total transmitted power of the fundamental emission was measured in accordance with ANSI C63.10: 2020 clause 6.9.

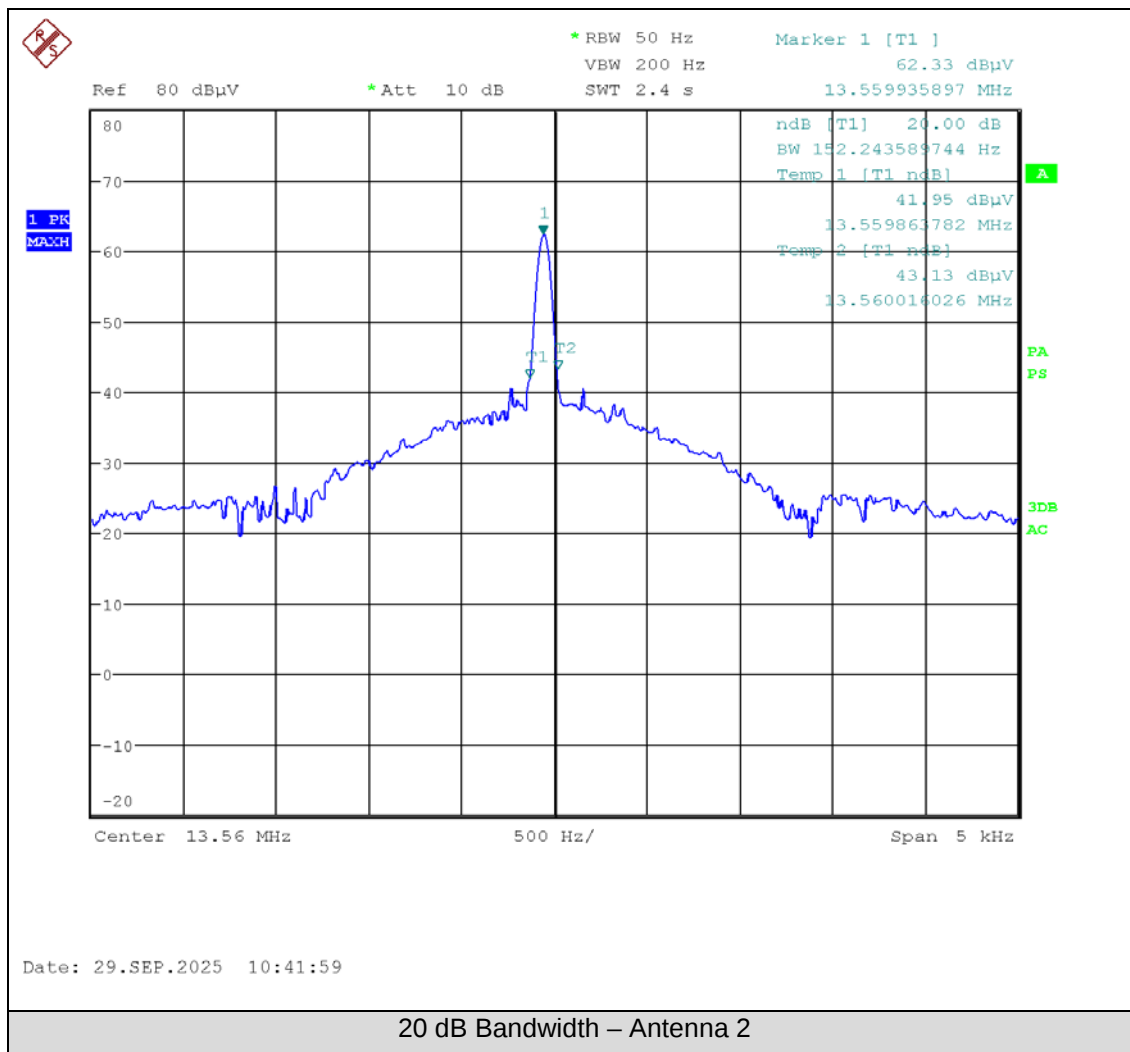
#### 3.8.2 Limits

The 20 dB emission bandwidth should be contained within the frequency band 13.110 – 14.010 MHz.

#### 3.8.3 Results

| Antenna | Fundamental Frequency [MHz] | Lower Frequency [MHz] | Upper Frequency [MHz] | Result   |
|---------|-----------------------------|-----------------------|-----------------------|----------|
| 1       | 13.56                       | 13.55979              | 13.56013              | Complied |
| 2       | 13.56                       | 13.55986              | 13.56002              | Complied |





-- End of Report --

## 4 SATO VICINITY Variant Declaration



### SATO VICINITY PTY LTD

32 Burrows Road, St Peters, NSW, 2044, Australia

Tel: (61) 2 9562 9800 Fax: (61) 2 9562 7620

Email: [Admin-svp@sato-global.com](mailto:Admin-svp@sato-global.com)

Website: [www.satovicinity.com](http://www.satovicinity.com)

ABN: 87 166 705 004

Date: 4/21/2026

Federal Communications Commissions  
Authorization and Evaluation Division  
7435 Oakland Mills Road  
Columbia, MD 21046

SUBJECT: End Product Model Difference Attestation

FCC ID: 2ACXQ-SFK

Brand/Trade Name: SATO

Model Number: SFK-125 /SFK-113

We, Sato Vicinity, hereby declare that our end products, including models SFK-125 and SFK-113, are electrically identical in design and function.

Both devices are specifically designed for integration into Helmer refrigerators and differ solely in the physical dimensions of their fridge shelves, which are adapted to accommodate two different Helmer refrigerator models (iLR125-GX and iLR113-GX).

Due to variations in fridge dimensions, the number of identical coils within the shelf antennas may differ. For example, the larger shelves used in the SFK-125 model contain 14 coils, while the smaller shelves used in the SFK-113 model contain a reduced number of coils. However, in all cases, the coil size and the number of turns per coil remain consistent across all shelf configurations.

Therefore, despite differences in shelf size and coil count, the fundamental electrical characteristics and performance of these products are identical.

Should you have any questions, please feel free to contact us directly.

Sincerely yours,



Name: Parya Fathi

Job Title: Senior Engineer

Company Name: Sato Vicinity Pty Ltd