

# REGULATORY COMPLIANCE TEST REPORT

FCC CFR 47 Part 15.225 & ISED RSS-210

Report No.: LYFT17-U7 Rev A

Company: Lyft, Inc

Model Name: 85-0000086-7 & 85-0000085-7



# REGULATORY COMPLIANCE TEST REPORT

Company Name: Lyft, Inc

Model Name: 85-0000086-7 & 85-0000085-7

To: FCC CFR 47 Part 15.225 & ISED RSS-210

Test Report Serial No.: LYFT17-U7 Rev A

This report supersedes: NONE

Applicant: Lyft, Inc

185 Berry St #5000

San Francisco, California 94107

**USA** 

Issue Date: 7th July 2023

# This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.

575 Boulder Court Pleasanton California 94566 USA

Phone: +1 (925) 462-0304 Fax: +1 (925) 462-0306 www.micomlabs.com



MiCOM Labs is an ISO 17025 Accredited Testing Laboratory

Title:

Lyft, Inc 85-0000086-7 & 85-0000085-7 FCC Part 15.225 & ISED RSS-210

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# 1. ACCREDITATION, LISTINGS & RECOGNITION

### 1.1. TESTING ACCREDITATION

MiCOM Labs, Inc. is an accredited Electrical testing laboratory per the international standard ISO/IEC 17025:2017. The company is accredited by the American Association for Laboratory Accreditation (A2LA) <a href="https://www.a2la.org">www.a2la.org</a> test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; <a href="http://www.a2la.org/scopepdf/2381-01.pdf">http://www.a2la.org/scopepdf/2381-01.pdf</a>



# **Accredited Laboratory**

A2LA has accredited

# MICOM LABS

Pleasanton, CA

for technical competence in the field of

# Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 14th day of January 2022.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 2381.01

Valid to November 30, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

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### 1.2. RECOGNITION

MiCOM Labs, Inc is widely recognized for its wireless testing and certification capabilities. In addition to being recognized for Testing and Certification under Phase 2 Mutual Recognition Agreements (MRA) with Canada, Europe, United Kingdom and Japan, our international recognition includes Conformity Assessment Body (CAB) designation status under agreements with Asia Pacific (APEC) MRA Phase 1 countries giving acceptance of MiCOM Labs test reports. MiCOM Labs test reports are accepted globally.

| Country           | Recognition Body   | Status | MRA Phase    | Identification No.                             |
|-------------------|--|--------|--------------|--|
| USA               | Federal Communications<br>Commission (FCC)   | ТСВ    | -            | US0159<br>Test Firm<br>Designation#:<br>US1084 |
| Canada            | Industry Canada (ISED)   | FCB    | APEC MRA 2   | US0159<br>ISED#: 4143A                         |
| Japan             | MIC (Ministry of Internal Affairs and Communication)  Japan Approvals Institute for Telecommunication Equipment (JATE) | САВ    | Japan MRA 2  | RCB 210  |
|                   | VCCI   |        |              | A-0012   |
| Europe            | European Commission  | NB     | EU MRA 2     | NB 2280  |
| United<br>Kingdom | Department for Business, Energy & Industrial Strategy (BEIS)   | AB     | UK MRA 2     | AB 2280  |
| Mexico            | Instituto Federal de<br>Telecomunicaciones (IFT)   | CAB    | Mexico MRA 1 | US0159   |
| Australia         | Australian Communications and Media Authority (ACMA)   | CAB    | APEC MRA 1   | US0159   |
| Hong Kong         | Office of the Telecommunication Authority (OFTA)   |        |              |  |
| Korea             | Ministry of Information and<br>Communication Radio Research<br>Laboratory (RRL)  |        |              |  |
| Singapore         | Infocomm Development Authority (IDA)   |        |              |  |
| Taiwan            | National Communications Commission (NCC) Bureau of Standards, Metrology and Inspection (BSMI)                          |        |              |  |
| Vietnam           | Ministry of Communication (MIC)  |        |              |  |

TCB - Telecommunications Certification Bodies (TCB)

FCB - Foreign Certification Body

CAB - Conformity Assessment Body

NB - Notified Body

AB - Approved Body

MRA - Mutual Recognition Agreement

MRA Phase I - recognition for product testing

MRA Phase II - recognition for both product testing and certification

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### 1.3. PRODUCT CERTIFICATION

MiCOM Labs, Inc. is an accredited Product Certification Body per the international standard ISO/IEC 17065:2012. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.02. MiCOM Labs test schedule is available at the following URL; http://www.a2la.org/scopepdf/2381-02.pdf





# **Accredited Product Certification Body**

A2LA has accredited

# MICOM LABS

Pleasanton, CA

This product certification body is accredited in accordance with the recognized International Standard ISO/IEC 17065:2012 Requirements for bodies certifying products, processes and services. This product certification body also meets the A2LA R322 - Specific Requirements - Notified Body Accreditation Requirements and A2LA R308 - Specific Requirements - ISO-IEC 17065 - Telecommunication Certification Body Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a management system.



Presented this 14th day of January 2022

Vice President, Accreditation Services For the Accreditation Council Certificate Number 2381,02 Valid to November 30, 2023

For the product certification schemes to which this accreditation applies, please refer to the organization's Product Certification Scope of Accreditation.

United States of America – Telecommunication Certification Body (TCB) Industry Canada – Certification Body, CAB Identifier – US0159 Europe - Notified Body (NB), NB Identifier - 2280 UK - Approved Body (AB), AB Identifier - 2280 Japan – Recognized Certification Body (RCB), RCB Identifier - 210

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personnel. All changes will be noted in the Document History section of the report. MiCOM Labs, 575 Boulder Court, Pleasanton, California 94566 USA, Phone: +1 (925) 462 0304, Fax: +1 (925) 462 0306, www.micomlabs.com



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# 2. DOCUMENT HISTORY

| Document History                |                            |                                     |  |  |  |
|---------------------------------|----------------------------|-------------------------------------|--|--|--|
| Revision                        | Date                       | Comments                            |  |  |  |
| Draft                           | 28 <sup>th</sup> June 2023 | Draft report for client for review. |  |  |  |
| Draft2                          | 7 <sup>th</sup> July 2023  | Updated per the clients comments    |  |  |  |
| Rev A 7 <sup>th</sup> July 2023 |                            | Initial release.                    |  |  |  |
|                                 |                            |                                     |  |  |  |
|                                 |                            |                                     |  |  |  |
|                                 |                            |                                     |  |  |  |
|                                 |                            |                                     |  |  |  |
|                                 |                            |                                     |  |  |  |

In the above table the latest report revision will replace all earlier versions.

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Pleasanton California 94566

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# 3. TEST RESULT CERTIFICATE

Manufacturer: Lyft, Inc.

185 Berry St #5000

San Francisco California 94107

USA

Model: 85-0000086-7 & 85-0000085-7

**Equipment Type:** Bikeshare Docking Station

**S/N's:** 85-0000086-7: FK2322MNFM2AA0204

85-0000085-7: FK2323MCAM2AA0005

Test Date(s): 3<sup>rd</sup> August 2021 Website: www.micomlabs.com

STANDARD(S)

FCC CFR 47 Part 15.225 & ISED RSS-210

**TEST RESULTS** 

**EQUIPMENT COMPLIES** 

TESTING CERT #2381.01

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

### Notes:

- 1. This document reports conditions under which testing was conducted and the results of testing performed.
- 2. Details of test methods used have been recorded and kept on file by the laboratory.
- 3. Test results apply only to the item(s) tested.

Approved & Released for MiCOM Labs, Inc. by:

Graeme Grieve

Quality Manager MiCOM Labs, Inc.

Gordon Hurst

President & CEO MiCOM Labs, Inc.

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# 4. REFERENCES AND MEASUREMENT UNCERTAINTY

# 4.1. Normative References

| REF. | PUBLICATION               | YEAR  | TITLE   |
|------|---------------------------|---|---|
| I    | KDB 662911 D01<br>& D02   | Oct 31 2013   | Guidance for measurement of output emission of devices that employ single transmitter with multiple outputs or systems with multiple transmitters operating simultaneously in the same frequency band |
| II   | A2LA                      | 22nd June 2022  | R105 - Requirement's When Making Reference to A2LA Accreditation Status   |
| III  | ANSI C63.10               | 2013  | American National Standard for Testing Unlicensed Wireless Devices  |
| IV   | ANSI C63.4                | 2014  | American National Standards for Methods of<br>Measurement of Radio-Noise Emissions from Low-<br>Voltage Electrical and Electronic Equipment in the Range<br>of 9 kHz to 40 GHz                        |
| V    | CISPR 32                  | 2015  | Electromagnetic compatibility of multimedia equipment - Emission requirements   |
| VI   | ETSI TR 100 028           | 2001-12   | Parts 1 and 2 Electromagnetic compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics  |
| VII  | FCC 47 CFR Part<br>15.225 | 2022  | Operation within the band 13.110-14.010MHz  |
| VIII | ICES-003                  | Issue 7 ;<br>October 15, 2020                             | Information Technology Equipment (Including Digital Apparatus) – Limits and methods of measurement.   |
| IX   | M 3003                    | Edition 3 Nov.2012  | Expression of Uncertainty and Confidence in Measurements  |
| Х    | RSS-210                   | Issue 10<br>December 2019                                 | RSS-210 — Licence-Exempt Radio Apparatus: Category I Equipment  |
| ΧI   | RSS-Gen Issue 5           | March 2019<br>Amendment 1<br>February 2021<br>Amendment 2 | General Requirements for Compliance of Radio Apparatus  |
| XII  | FCC 47 CFR Part<br>2.1033 | 2020  | FCC requirements and rules regarding photographs and test setup diagrams.   |

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# 4.2. Test and Uncertainty Procedure

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.

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# 5. PRODUCT DETAILS AND TEST CONFIGURATIONS

# 5.1. Technical Details

| Details                          | Description   |
|----------------------------------|---|
| Purpose:                         | Test of the Lyft, Inc 85-0000086-7 & 85-0000085-7 to FCC CFR  |
|                                  | 47 Part 15.225 & ISED RSS-210   |
| Applicant:                       |   |
|                                  | 185 Berry St #5000  |
| Manufacturar                     | San Francisco California 94107 USA  |
| Manufacturer:                    |   |
| Laboratory performing the tests: | MiCOM Labs, Inc.<br>575 Boulder Court   |
|                                  | Pleasanton California 94566 USA   |
| Test report reference number:    |   |
| Date EUT received:               |   |
|                                  | FCC CFR 47 Part 15.225 & ISED RSS-210   |
| Dates of test (from - to):       |   |
| No of Units Tested:              |   |
|                                  |   |
|                                  | Bikeshare Docking Station   |
| Model(s):                        |   |
|                                  | Indoor / Outdoor  |
| Declared Frequency Range(s):     |   |
| Type of Modulation:              |   |
| EUT Modes of Operation:          |   |
| Transmit/Receive Operation:      |   |
| Rated Input Voltage and Current: | Internal Battery Pack: 2.8-4.2 VDC, 10mA typical External Solar Panel: 3-12 VDC, 50mA typical (STN021N-S only) On the STN021N-S unit, this provides energy to charge the internal |
|                                  | battery pack  |
|                                  | External Charge Power: 65-75 VDC, 100mA-4A typical  |
|                                  | On the STN021N-C unit, this provides energy to charge the internal  |
|                                  | battery pack  |
|                                  | Talentcell Battery Pack: Nominal 12 VDC, 500mA typical On both the STN021N-C & STN021N-S units, this provides energy to   |
|                                  | charge the internal battery pack  |
| Operating Temperature Range:     | -20°C to +50°C  |
| ITU Emission Designator:         | 14KOK1D   |
| Equipment Dimensions:            | 27.3 x 27.3 x 80 cm   |
| Weight:                          | 32kg  |
| Hardware Rev:                    | 87-0000027-8  |
| Software Rev:                    | 30cd03f   |

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### 5.2. Scope Of Test Program

Lyft, Inc 85-0000086-7 & 85-0000085-7

The scope of the test program was to test the Lyft, Inc 85-0000086-7 & 85-0000085-7 NFC operating in the frequency range 13.110 – 14.010 MHz; for compliance against the following specifications:

### FCC CFR 47 Part 15.225

Radio Frequency Devices; Operating in the band 13.110 – 14.010 MHz

#### **ISED RSS-210**

License-Exempt Radio Apparatus

Section 7. Technical Specifications; B.6 Band 13.110-14.010 MHz

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## 5.3. Equipment Model(s) and Serial Number(s)

| Type<br>(EUT/<br>Support) | Equipment Description (Including Brand Name) | Mfr.     | Model No.    | Serial No.        |
|---------------------------|--|----------|--------------|-------------------|
| EUT                       | Bikeshare Docking Station                    | Lyft Inc | 85-0000086-7 | FK2322MNFM2AA0204 |
|                           |  |          | 85-0000085-7 | FK2323MCAM2AA0005 |
| Support                   | Laptop                                       | Lenovo   | N/A          | N/A               |

# 5.4. Antenna Details

| Type     | Manufacturer | Model        | Gain (dBi) | Frequency Band (MHz) |
|----------|--------------|--------------|------------|----------------------|
| Integral | Lyft         | 85-0000086-7 | 0.0        | 13.110-14.010        |
| Integral | Lyft         | 85-0000085-7 | 0.0        | 13.110-14.010        |

# 5.5. Cabling and I/O Ports

### STN021N-S

| Port Type Max Cable Length |     | Conn Type  | Environment |  |  |  |  |
|----------------------------|-----|------------|-------------|--|--|--|--|
| CAN+DC IN                  | <3m | TRRS 4 pin | End-User    |  |  |  |  |

#### 85-0000085-7

| 00 00000001 |             |                  |                     |          |  |  |
|-------------|-------------|------------------|---------------------|----------|--|--|
| Port Type   |             | Max Cable Length | Conn Type Environme |          |  |  |
| Charge Out  |             | <3m              | Lyft Triangle       | End-User |  |  |
|             | CAN+HVDC IN | <3m              | Higo 2+5 Pin        | End-User |  |  |
|             | CAN+DC IN   | <3m              | TRRS 4 pin          | End-User |  |  |

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### 5.6. Test Configurations

Results for the following configurations are provided in this report:

| Operation Mode a | nal           | Data Rate with Highest Power | Channel Frequency (MHz) |       |      |  |
|------------------|---------------|------------------------------|-------------------------|-------|------|--|
| configura        | configuration | MBit/s                       | Low                     | Mid   | High |  |
|                  |               |                              | 13.110 – 14.010 MHz     |       |      |  |
| ASK              |               | -                            |                         | 13.56 |      |  |

# 5.7. Equipment Modifications

The following modifications were required to bring the equipment into compliance:

1. NONE

# 5.8. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program: 1. NONE

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# 6. TEST SUMMARY

List of Measurements

| Test Header                                 | Result   | Data Link |
|---|----------|-----------|
| Frequency Tolerance                         | Complies | View Data |
| Emissions                                   | Complies | -         |
| Radiated Emissions                          | Complies | -         |
| (i) TX Spurious & Restricted Band Emissions | Complies | View Data |

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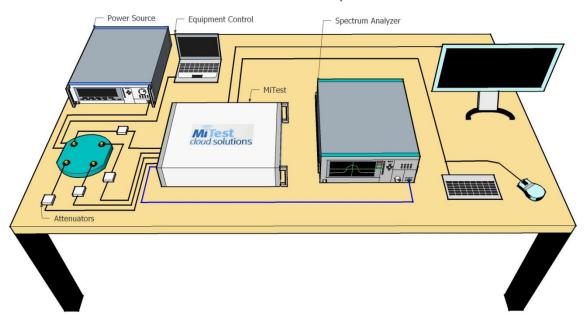
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# 7. TEST EQUIPMENT CONFIGURATION(S)

# 7.1. Conducted Test Setup

MiTest Automated Test System



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| Asset# | Description   | Manufacturer            | Model#              | Serial#         | Calibration Due Date |
|--------|---|-------------------------|---------------------|-----------------|----------------------|
| #3 SA  | MiTest Box to SA  | Fairview<br>Microwave   | SCA1814-<br>0101-72 | #3 SA           | 23 Sep<br>2023       |
| #3P1   | EUT to MiTest box port 1  | Fairview<br>Microwave   | SCA1814-<br>0101-72 | #3P1            | 23 Sep<br>2023       |
| #3P2   | EUT to MiTest box port 2  | Fairview<br>Microwave   | SCA1814-<br>0101-72 | #3P2            | 23 Sep<br>2023       |
| #3P3   | EUT to MiTest box port 3  | Fairview<br>Microwave   | SCA1814-<br>0101-72 | #3P3            | 23 Sep<br>2023       |
| #3P4   | EUT to MiTest box port 4  | Fairview<br>Microwave   | SCA1812-<br>0101-72 | #3P4            | 23 Sep<br>2023       |
| 249    | Thermocouple; Resistance Thermometer                            | Thermotronics           | GR2105-<br>02       | 9340 #2         | 23 Sep<br>2023       |
| 398    | MiTest RF Conducted<br>Test Software                            | MiCOM                   | MiTest<br>ATS       | Version 4.2.3.0 | Not<br>Required      |
| 405    | DC Power Supply 0-60V   | Agilent                 | 6654A               | MY4001826       | Cal when used        |
| 408    | USB to GPIB interface   | National<br>Instruments | GPIB-USB<br>HS      | 14C0DE9         | Not<br>Required      |
| 441    | USB Wideband Power<br>Sensor                                    | Boonton                 | 55006               | 9179            | 20 Sep<br>2023       |
| 442    | USB Wideband Power<br>Sensor                                    | Boonton                 | 55006               | 9181            | 19 Oct<br>2023       |
| 445    | PoE Injector  | D-Link                  | DPE-<br>101GL       | QTAH1E2000625   | Not<br>Required      |
| 461    | Spectrum Analyzer   | Agilent                 | E4440A              | MY46185537      | 27 Sep<br>2023       |
| 493    | USB Wideband Power<br>Sensor                                    | Boonton                 | 55006               | 9634            | 8 Oct 2023           |
| 494    | USB Wideband Power<br>Sensor                                    | Boonton                 | 55006               | 9726            | 19 Oct<br>2023       |
| 510    | Barometer/Thermometer   | Digi Sense              | 68000-49            | 170871375       | 4 Jan 2024           |
| 519    | MiTest Cloud Solutions<br>RF Test Box                           | MiCOM                   | 2nd Gen<br>DFS      | 519             | 22 Sep<br>2023       |
| 555    | Rhode & Schwarz<br>Receiver<br>(Firmware Version : 2.00<br>SP1) | Rhode &<br>Schwarz      | ESW 44              | 101893          | 28 Jun<br>2024       |
| 75     | Environmental Chamber   | Thermatron              | SE-300-2-<br>2      | 27946           | 20 Feb<br>2024       |

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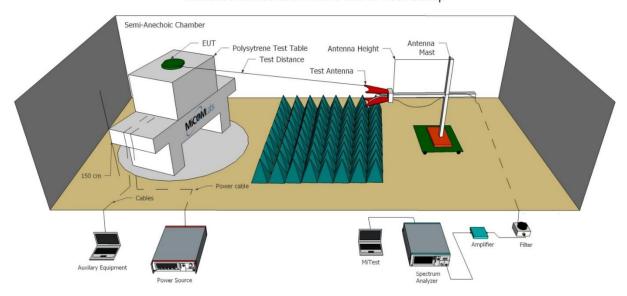
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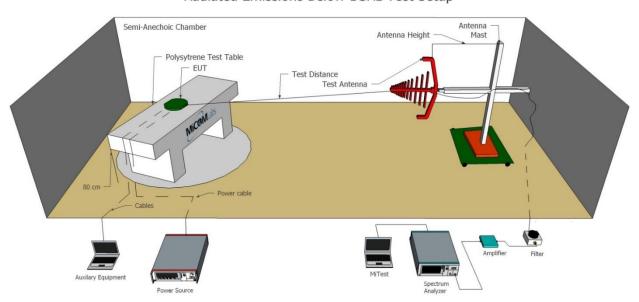
## 7.2. Radiated Emissions - 3m Chamber

The following tests were performed using the radiated test set-up shown in the diagram below. Radiated emissions above and below 1GHz.

### Radiated Emissions Above 1GHz Test Setup



### Radiated Emissions Below 1GHz Test Setup



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A full system calibration was performed on the test station and any resulting system losses (or gains) were considered in the production of all final measurement data.

| Asset# | Description  | Manufacturer            | Model#  | Serial#     | Calibration<br>Due Date |
|--------|--|-------------------------|---|-------------|-------------------------|
| 170    | Video System Controller for Semi<br>Anechoic Chamber   | Panasonic               | WV-CU101                                      | 04R08507    | Not<br>Required         |
| 298    | 3M Radiated Emissions Chamber Maintenance Check        | MiCOM                   | 3M Chamber                                    | 298         | 24 Aug 2023             |
| 330    | Variac 0-280 Vac                                       | Staco Energy<br>Co      | 3PN1020B                                      | 0546        | Cal when used           |
| 336    | Active loop Ant 10kHz to 30 MHz                        | EMCO                    | EMCO 6502                                     | 00060498    | 29 Nov 2023             |
| 338    | Sunol 30 to 3000 MHz Antenna                           | Sunol                   | JB3   | A052907     | 29 Sep 2023             |
| 373    | 26III RMS Multimeter                                   | Fluke                   | Fluke 26 series<br>III                        | 76080720    | 29 Sep 2023             |
| 397    | Amp 10 - 2500MHz                                       | MiCOM Labs              | Amp 10 - 2500<br>MHz                          | NA          | 27 Oct 2023             |
| 410    | Desktop Computer                                       | Dell                    | Inspiron 620                                  | WS38        | Not<br>Required         |
| 411    | Mast/Turntable Controller                              | Sunol Sciences          | SC98V   | 060199-1D   | Not<br>Required         |
| 412    | USB to GPIB Interface                                  | National<br>Instruments | GPIB-USB HS                                   | 11B8DC2     | Not<br>Required         |
| 413    | Mast Controller  | Sunol Science           | TWR95-4                                       | 030801-3    | Not<br>Required         |
| 414    | DC Power Supply 0-60V                                  | HP                      | 6274  | 1029A01285  | Cal when used           |
| 415    | Turntable Controller                                   | Sunol Sciences          | Turntable<br>Controller                       | None        | Not<br>Required         |
| 416    | Gigabit ethernet filter                                | ETS-Lingren             | Gigafoil 260366                               | None        | Not<br>Required         |
| 447    | MiTest Rad Emissions Test<br>Software                  | MiCOM                   | Rad Emissions<br>Test Software<br>Version 1.0 | 447         | Not<br>Required         |
| 462    | Schwarzbeck cable from Antenna to Amplifier.           | Schwarzbeck             | AK 9513                                       | 462         | 27 Oct 2023             |
| 463    | Schwarzbeck cable from Amplifier to Bulkhead.          | Schwarzbeck             | AK 9513                                       | 463         | 27 Oct 2023             |
| 464    | Schwarzbeck cable from Bulkhead to Receiver            | Schwarzbeck             | AK 9513                                       | 464         | 27 Oct 2023             |
| 480    | Cable - Bulkhead to Amp                                | SRC Haverhill           | 157-3050360                                   | 480         | 6 Oct 2023              |
| 481    | Cable - Bulkhead to Receiver                           | SRC Haverhill           | 151-3050787                                   | 481         | 6 Oct 2023              |
| 510    | Barometer/Thermometer                                  | Digi Sense              | 68000-49                                      | 170871375   | 4 Jan 2024              |
| 554    | Precision SMA Cable                                    | Fairview<br>Microwave   | SCE18060101-<br>400CM                         | 554         | 6 Oct 2023              |
| 555    | Rhode & Schwarz Receiver (Firmware Version : 2.00 SP1) | Rhode &<br>Schwarz      | ESW 44  | 101893      | 28 Jun 2024             |
| 87     | Uninterruptible Power Supply                           | Falcon Electric         | ED2000-1/2LC                                  | F3471 02/01 | Cal when used           |

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# 8. MEASUREMENT AND PRESENTATION OF TEST DATA

The measurement and graphical data presented in this test report was generated automatically using state-of-the-art technology creating an easy to read report structure. Numerical measurement data is separated from supporting graphical data (plots) through hyperlinks. Numerical measurement data can be reviewed without scrolling through numerous graphical pages to arrive at the next data matrix.

Plots have been relegated into the Appendix 'Graphical Data'.

Test and report automation was performed by <u>MiTest</u>. <u>MiTest</u> is an automated test system developed by MiCOM Labs. <u>MiTest</u> is the first cloud based modular test system enabling end-to-end automation of regulatory compliance testing for conducted RF testing.





The MiCOM Labs "MiTest" Automated Test System" (Patent Pending)

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# 9. TEST RESULTS

## 9.1. Frequency Tolerance

| Conducted Test Conditions for Frequency Stability |                                       |                     |             |  |  |
|---|---------------------------------------|---------------------|-------------|--|--|
| Standard:   | FCC CFR 47:15.225<br>ISED RSS-210/Gen | Ambient Temp. (°C): | 24.0 - 27.5 |  |  |
| Test Heading:                                     | Frequency Stability                   | Rel. Humidity (%):  | 32 - 45     |  |  |
| Standard Section(s):                              | 15.225(e)<br>RSS-Gen 6.11             | Pressure (mBars):   | 999 - 1001  |  |  |
| Reference Document(s):                            | See Normative References              |                     |             |  |  |

#### Test Procedure for Frequency Stability Measurement

The Frequency Error was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

Testing was performed under ambient conditions at extreme voltages and over extreme temperatures at nominal voltages. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported.

Test configuration and setup used for the measurement was per the Conducted Test Set-up specified in this document.

Limit:

100 ppm

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### 9.1.1. 85-0000086-7

### **Equipment Configuration for Nominal Centre frequencies**

| Variant:                | 85-0000086-7   | Duty Cycle (%):            | Not Applicable |
|-------------------------|----------------|----------------------------|----------------|
| Data Rate:              | Not Applicable | Antenna Gain (dBi):        | Not Applicable |
| Modulation:             | Not Applicable | Beam Forming Gain (Y)(dB): | Not Applicable |
| TPC:                    | Not Applicable | Tested By:                 | SB             |
| Engineering Test Notes: |                |                            |                |

#### **Test Measurement Results**

| Test frequency | 13.56 MHz | Measured<br>Frequency | Frequer | ncy Error | Limit | Margin |
|----------------|-----------|-----------------------|---------|-----------|-------|--------|
| Temperature    | Voltage   | Hz                    | kHz     | ppm       | ppm   | ppm    |
| -20 °C         | 12.0 Vdc  | <u>13560167.00</u>    | 0.167   | 12.316    | ±100  | -87.68 |
| -10 °C         | 12.0 Vdc  | <u>13560150.00</u>    | 0.150   | 11.062    | ±100  | -88.94 |
| 0 °C           | 12.0 Vdc  | <u>13560133.00</u>    | 0.133   | 9.808     | ±100  | -90.19 |
| 10 °C          | 12.0 Vdc  | <u>13560100.00</u>    | 0.100   | 7.375     | ±100  | -92.63 |
| 20 °C          | 12.0 Vdc  | <u>13560100.00</u>    | 0.100   | 7.375     | ±100  | -92.63 |
| 20 °C          | 9.0 Vdc   | <u>13560100.00</u>    | 0.100   | 7.375     | ±100  | -92.63 |
| 20 °C          | 13.0 Vdc  | <u>13560100.00</u>    | 0.100   | 7.375     | ±100  | -92.63 |
| 30 °C          | 12.0 Vdc  | <u>13560100.00</u>    | 0.100   | 7.375     | ±100  | -92.63 |
| 40 °C          | 12.0 Vdc  | <u>13560117.00</u>    | 0.117   | 8.628     | ±100  | -91.37 |
| 50 °C          | 12.0 Vdc  | 13559850.00           | -0.150  | -11.062   | ±100  | -88.94 |

| Traceability to Industry Recognized Test Methodologies |                           |  |  |  |  |
|--|---------------------------|--|--|--|--|
| Work Instruction:                                      | WI-02 MEASURING FREQUENCY |  |  |  |  |
| Measurement Uncertainty:                               | ±0.86 ppm                 |  |  |  |  |

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### 9.1.2. 85-0000085-7

#### **Equipment Configuration for Nominal Centre frequencies**

| Variant:                | 85-0000085-7   | Duty Cycle (%):            | Not Applicable |
|-------------------------|----------------|----------------------------|----------------|
| Data Rate:              | Not Applicable | Antenna Gain (dBi):        | Not Applicable |
| Modulation:             | Not Applicable | Beam Forming Gain (Y)(dB): | Not Applicable |
| TPC:                    | Not Applicable | Tested By:                 | SB             |
| Engineering Test Notes: |                |                            |                |

#### **Test Measurement Results**

| Test frequency | 13.56 MHz | Measured<br>Frequency | Frequen | cy Error | Limit | Margin |
|----------------|-----------|-----------------------|---------|----------|-------|--------|
| Temperature    | Voltage   | Hz                    | kHz     | ppm      | ppm   | ppm    |
| -20 °C         | 12.0 Vdc  | <u>13559950.00</u>    | -0.050  | -3.687   | ±100  | -96.31 |
| -10 °C         | 12.0 Vdc  | 13559950.00           | -0.050  | -3.687   | ±100  | -96.31 |
| 0 °C           | 12.0 Vdc  | 13559933.00           | -0.067  | -4.941   | ±100  | -95.06 |
| 10 °C          | 12.0 Vdc  | <u>13559917.00</u>    | -0.083  | -6.121   | ±100  | -93.88 |
| 20 °C          | 12.0 Vdc  | 13559883.00           | -0.117  | -8.628   | ±100  | -91.37 |
| 20 °C          | 9.0 Vdc   | <u>13559883.00</u>    | -0.117  | -8.628   | ±100  | -91.37 |
| 20 °C          | 13.0 Vdc  | 13559883.00           | -0.117  | -8.628   | ±100  | -91.37 |
| 30 °C          | 12.0 Vdc  | <u>13559867.00</u>    | -0.133  | -9.808   | ±100  | -90.19 |
| 40 °C          | 12.0 Vdc  | 13559850.00           | -0.150  | -11.062  | ±100  | -88.94 |
| 50 °C          | 12.0 Vdc  | <u>13559850.00</u>    | -0.150  | -11.062  | ±100  | -88.94 |

| Traceability to Industry Recognized Test Methodologies |                           |  |  |  |  |
|--|---------------------------|--|--|--|--|
| Work Instruction:                                      | WI-02 MEASURING FREQUENCY |  |  |  |  |
| Measurement Uncertainty:                               | ±0.86 ppm                 |  |  |  |  |

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Title:

Lyft, Inc 85-0000086-7 & 85-0000085-7 FCC Part 15.225 & ISED RSS-210

Serial #:

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### 9.2. Radiated Emissions

### 9.2.1. TX Spurious & Restricted Band Emissions

| Radiated Test Conditions for Radiated Spurious and Band-Edge Emissions (Restricted Bands) |   |                     |             |  |  |  |
|---|---|---------------------|-------------|--|--|--|
| Standard:   | FCC CFR 47 Part 15.225<br>ISED RSS-210/GEN    | Ambient Temp. (°C): | 20.0 - 24.5 |  |  |  |
| Test Heading:   | Radiated Spurious and Band-<br>Edge Emissions | Rel. Humidity (%):  | 32 - 45     |  |  |  |
| Standard Section(s):  | 15.205, 15.209<br>RSS-GEN 6.13                | Pressure (mBars):   | 999 - 1001  |  |  |  |
| Reference Document(s):  | See Normative References                      |                     |             |  |  |  |

#### Test Procedure for Radiated Spurious and Band-Edge Emissions (Restricted Bands)

Radiated emissions for restricted bands above 1 GHz are measured in the anechoic chamber at a 3-meter distance on every azimuth in both horizontal and vertical polarities. The emissions are recorded and maximized as a function of azimuth by rotation through 360° with a spectrum analyzer in peak hold mode. Depending on the frequency band spanned a notch filter and waveguide filter was used to remove the fundamental frequency. The highest emissions relative to the limit are listed for each frequency spanned. Measurements on any restricted band frequency or frequencies above 1 GHz are based on the use of measurement instrumentation employing peak and average detectors. All measurements were performed using a resolution bandwidth of 1 MHz.

Test configuration and setup for Radiated Spurious and Band-Edge Measurement were per the Radiated Test Set-up specified in this document.

#### Limits for Restricted Bands Peak emission: 74 dBuV/m

Average emission: 54 dBuV/m

#### Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. All factors are included in the reported data.

FS = R + AF + CORR - FO

#### where:

FS = Field Strength

R = Measured Spectrum analyzer Input Amplitude

AF = Antenna Factor

CORR = Correction Factor = CL - AG + NFL

CL = Cable Loss

AG = Amplifier Gain

FO = Distance Falloff Factor

NFL = Notch Filter Loss or Waveguide Loss

#### Example:

Given receiver input reading of 51.5 dBmV; Antenna Factor of 8.5 dB; Cable Loss of 1.3 dB; Falloff Factor of 0 dB, an Amplifier Gain of 26 dB and Notch Filter Loss of 1 dB. The Field Strength (FS) of the measured emission is:

FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3 dBmV/m

Conversion between dBmV/m (or dBmV) and mV/m (or mV) are as follows: Level (dBmV/m) = 20 \* Log (level (mV/m))

40 dBmV/m = 100 mV/m 48 dBmV/m = 250 mV/m

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#### Restricted Bands of Operation (15.205)

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| Frequency Band    |                     |               |             |  |
|-------------------|---------------------|---------------|-------------|--|
| MHz               | MHz                 | MHz           | GHz         |  |
| 0.090-0.110       | 16.42-16.423        | 399.9-410     | 4.5-5.15    |  |
| 0.495-0.505       | 16.69475-16.69525   | 608-614       | 5.35-5.46   |  |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |  |
| 4.125-4.128       | 25.5-25.67          | 1300-1427     | 8.025-8.5   |  |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |  |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |  |
| 6.215-6.218       | 74.8-75.2           | 1660-1710     | 10.6-12.7   |  |
| 6.26775-6.26825   | 108-121.94          | 1718.8-1722.2 | 13.25-13.4  |  |
| 6.31175-6.31225   | 123-138             | 2200-2300     | 14.47-14.5  |  |
| 8.291-8.294       | 149.9-150.05        | 2310-2390     | 15.35-16.2  |  |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |  |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900     | 22.01-23.12 |  |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |  |
| 12.29-12.293      | 167.72-173.2        | 3332-3339     | 31.2-31.8   |  |
| 12.51975-12.52025 | 240-285             | 3345.8-3358   | 36.43-36.5  |  |
| 2.57675-12.57725  | 322-335.4           | 3600-4400     | Above 38.6  |  |
| 13.36-13.41       |                     |               |             |  |

- (b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.
- (c) Except as provided in paragraphs (d) and (e) of this section, regardless of the field strength limits specified elsewhere in this subpart, the provisions of this section apply to emissions from any intentional radiator.
- (d) The following devices are exempt from the requirements of this section:
  - (1) Swept frequency field disturbance sensors operating between 1.705 and 37 MHz provided their emissions only sweep through the bands listed in paragraph (a) of this section, the sweep is never stopped with the fundamental emission within the bands listed in paragraph (a) of this section, and the fundamental emission is outside of the bands listed in paragraph (a) of this section more than 99% of the time the device is actively transmitting, without compensation for duty cycle.
  - (2) Transmitters used to detect buried electronic markers at 101.4 kHz which are employed by telephone companies.
  - (3) Cable locating equipment operated pursuant to §15.213.
  - (4) Any equipment operated under the provisions of §15.253, 15.255, and 15.256 in the frequency band 75-85 GHz, or §15.257 of this part.
  - (5) Biomedical telemetry devices operating under the provisions of §15.242 of this part are not subject to the restricted band 608-614 MHz but are subject to compliance within the other restricted bands.
  - (6) Transmitters operating under the provisions of subparts D or F of this part.
  - (7) Devices operated pursuant to §15.225 are exempt from complying with this section for the 13.36-13.41 MHz band only.
  - (8) Devices operated in the 24.075-24.175 GHz band under §15.245 are exempt from complying with the requirements of this

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section for the 48.15-48.35 GHz and 72.225-72.525 GHz bands only, and shall not exceed the limits specified in §15.245(b).

(9) Devices operated in the 24.0-24.25 GHz band under §15.249 are exempt from complying with the requirements of this section for the 48.0-48.5 GHz and 72.0-72.75 GHz bands only, and shall not exceed the limits specified in §15.249(a).

(e) Harmonic emissions appearing in the restricted bands above 17.7 GHz from field disturbance sensors operating under the provisions of §15.245 shall not exceed the limits specified in §15.245(b).

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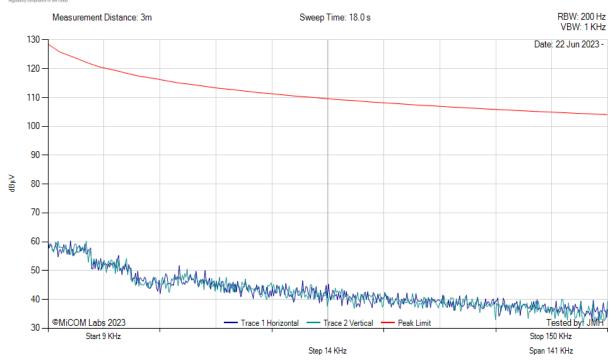
### 9.2.1.1. 85-0000086-7

#### Equipment Configuration for Below 30MHz Emissions (9kHz - 150kHz)

| Antenna:                 | Integral       | Variant:        | 85-0000086-7   |
|--------------------------|----------------|-----------------|----------------|
| Antenna Gain (dBi):      | Not Applicable | Modulation:     | ASK            |
| Beam Forming Gain (Y):   | Not Applicable | Duty Cycle (%): | 99             |
| Channel Frequency (MHz): | 13.56          | Data Rate:      | Not Applicable |
| Power Setting:           | Max            | Tested By:      | JMH            |

#### **Test Measurement Results**





There are no emissions found within 6dB of the limit line.

Test Notes: 85-0000086-7

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Serial #:

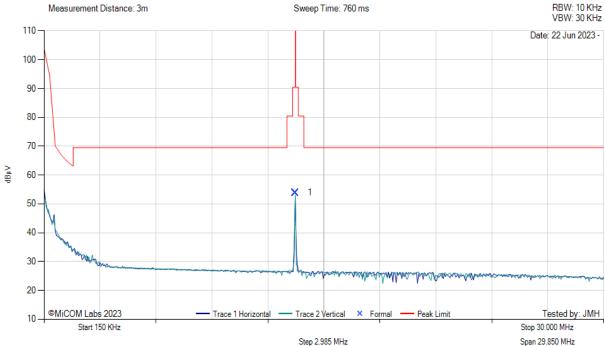
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#### Equipment Configuration for Below 30MHz Emissions (150kHz - 30MHz)

| Antenna:                 | Integral       | Variant:        | 85-0000086-7   |
|--------------------------|----------------|-----------------|----------------|
| Antenna Gain (dBi):      | Not Applicable | Modulation:     | ASK            |
| Beam Forming Gain (Y):   | Not Applicable | Duty Cycle (%): | 99             |
| Channel Frequency (MHz): | 13.56          | Data Rate:      | Not Applicable |
| Power Setting:           | Max            | Tested By:      | JMH            |

#### **Test Measurement Results**





|     | 0.15.00 - 30.00 MHz |             |                     |            |                 |                     |     |           |            |                 |              |               |
|-----|---------------------|-------------|---------------------|------------|-----------------|---------------------|-----|-----------|------------|-----------------|--------------|---------------|
| Num | Frequency<br>MHz    | Raw<br>dBµV | Cable<br>Loss<br>dB | AF<br>dB/m | Level<br>dBµV/m | Measurement<br>Type | Pol | Hgt<br>cm | Azt<br>Deg | Limit<br>dBµV/m | Margin<br>dB | Pass<br>/Fail |
| 1   | 13.56               | 43.47       | 0.44                | 9.96       | 53.87           | Fundamental         |     | 0         | 151        |                 | -            | Pass          |

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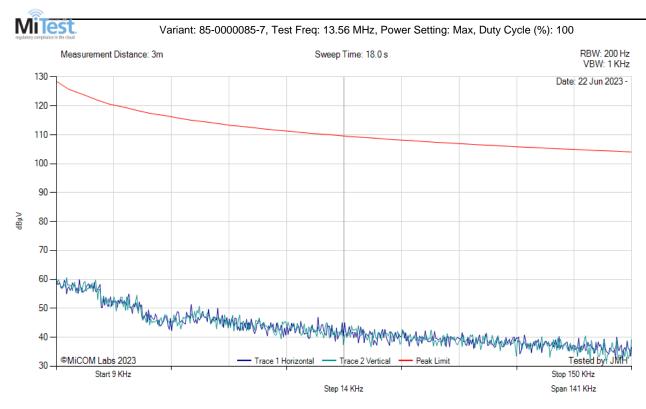
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### 9.2.1.2. 85-0000085-7

#### Equipment Configuration for Below 30MHz Emissions (9kHz - 150kHz)

| Antenna:                 | Integral       | Variant:        | 85-0000085-7   |
|--------------------------|----------------|-----------------|----------------|
| Antenna Gain (dBi):      | Not Applicable | Modulation:     | ASK            |
| Beam Forming Gain (Y):   | Not Applicable | Duty Cycle (%): | 99             |
| Channel Frequency (MHz): | 13.56          | Data Rate:      | Not Applicable |
| Power Setting:           | Max            | Tested By:      | JMH            |

#### **Test Measurement Results**



There are no emissions found within 6dB of the limit line.

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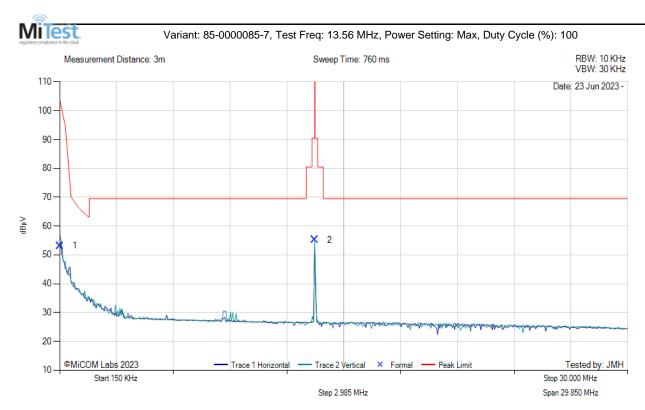
Serial #:

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#### Equipment Configuration for Below 30MHz Emissions (150kHz - 30MHz)

| Antenna:                 | Integral       | Variant:        | 85-0000085-7   |
|--------------------------|----------------|-----------------|----------------|
| Antenna Gain (dBi):      | Not Applicable | Modulation:     | ASK            |
| Beam Forming Gain (Y):   | Not Applicable | Duty Cycle (%): | 99             |
| Channel Frequency (MHz): | 13.56          | Data Rate:      | Not Applicable |
| Power Setting:           | Max            | Tested By:      | JMH            |

#### **Test Measurement Results**



|     | 0.15.00 - 30.00 MHz |             |                     |            |                 |                     |          |           |            |                 |              |               |
|-----|---------------------|-------------|---------------------|------------|-----------------|---------------------|----------|-----------|------------|-----------------|--------------|---------------|
| Num | Frequency<br>MHz    | Raw<br>dBµV | Cable<br>Loss<br>dB | AF<br>dB/m | Level<br>dBµV/m | Measurement<br>Type | Pol      | Hgt<br>cm | Azt<br>Deg | Limit<br>dBµV/m | Margin<br>dB | Pass<br>/Fail |
| 1   | 0.15                | 41.84       | 0.12                | 11.20      | 53.16           | MaxQP               | Vertical | 0         | 154        | 104.0           | -50.8        | Pass          |
| 2   | 13.56               | 44.92       | 0.44                | 9.96       | 55.22           | MaxQP               | Vertical | 0         | 151        | 80.5            | -25.2        | Pass          |

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### 9.2.2. Field Strength

### 9.2.2.3. 85-0000086-7

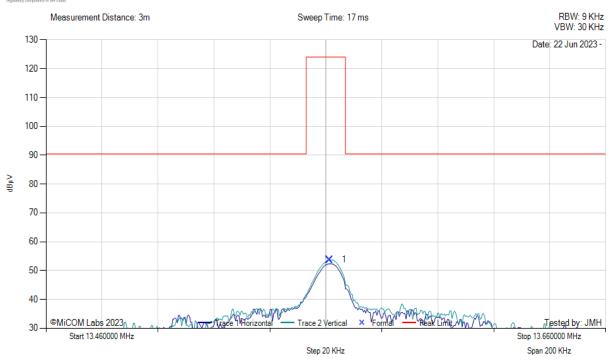
#### **Equipment Configuration for 13.56 MHz Field Strength**

| Antenna:                 | Integral       | Variant:        | 85-0000086-7   |
|--------------------------|----------------|-----------------|----------------|
| Antenna Gain (dBi):      | Not Applicable | Modulation:     | Not Applicable |
| Beam Forming Gain (Y):   | Not Applicable | Duty Cycle (%): | 99             |
| Channel Frequency (MHz): | 13.56          | Data Rate:      | Not Applicable |
| Power Setting:           | Max            | Tested By:      | JMH            |

#### **Test Measurement Results**

MiTest

Variant: 85-0000086-7, Test Freq: 13.56 MHz, Power Setting: Max, Duty Cycle (%): 100



|     | 13.46.00 - 13.66.00 MHz |             |                     |            |                 |                     |          |           |            |                 |              |               |
|-----|-------------------------|-------------|---------------------|------------|-----------------|---------------------|----------|-----------|------------|-----------------|--------------|---------------|
| Num | Frequency<br>MHz        | Raw<br>dBµV | Cable<br>Loss<br>dB | AF<br>dB/m | Level<br>dBµV/m | Measurement<br>Type | Pol      | Hgt<br>cm | Azt<br>Deg | Limit<br>dBµV/m | Margin<br>dB | Pass<br>/Fail |
| 1   | 13.56                   | 43.34       | 0.44                | 9.96       | 53.74           | MaxQP               | Vertical | 0         | 141        | 80.5            | -26.8        | Pass          |

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### 9.2.2.4. 85-0000085-7

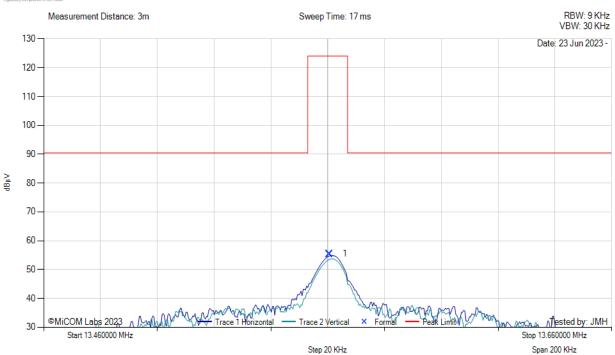
#### **Equipment Configuration for 13.56 MHz Field Strength**

| Antenna:                 | Integral       | Variant:        | 85-0000085-7   |
|--------------------------|----------------|-----------------|----------------|
| Antenna Gain (dBi):      | Not Applicable | Modulation:     | Not Applicable |
| Beam Forming Gain (Y):   | Not Applicable | Duty Cycle (%): | 99             |
| Channel Frequency (MHz): | 13.56          | Data Rate:      | Not Applicable |
| Power Setting:           | Max            | Tested By:      | JMH            |

#### **Test Measurement Results**



Variant: 85-0000085-7, Test Freq: 13.56 MHz, Power Setting: Max, Duty Cycle (%): 100



|     | 13.46.00 - 13.66.00 MHz |             |                     |            |                 |                     |          |           |            |                 |              |               |
|-----|-------------------------|-------------|---------------------|------------|-----------------|---------------------|----------|-----------|------------|-----------------|--------------|---------------|
| Num | Frequency<br>MHz        | Raw<br>dBµV | Cable<br>Loss<br>dB | AF<br>dB/m | Level<br>dBµV/m | Measurement<br>Type | Pol      | Hgt<br>cm | Azt<br>Deg | Limit<br>dBµV/m | Margin<br>dB | Pass<br>/Fail |
| 1   | 13.56                   | 45.02       | 0.44                | 9.96       | 55.42           | MaxQP               | Vertical | 0         | 151        | 80.5            | -25.1        | Pass          |

Test Notes: 85-0000085-7



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# A. Appendix A - Graphical Images

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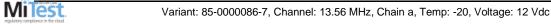
**To:** FCC Part 15.225 & ISED RSS-210

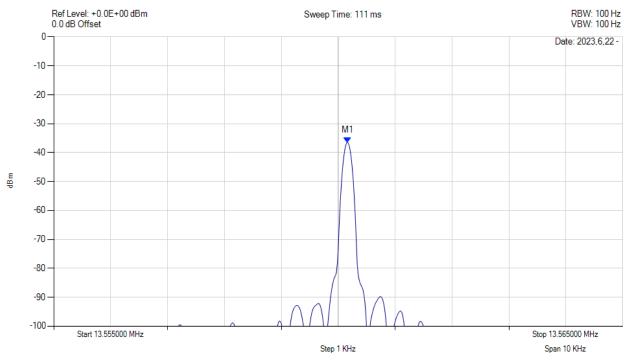
Serial #: LYFT17-U7 Rev A

# A.1. Frequency Stability

### 85-0000086-7:

#### Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -36.472 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

back to matrix

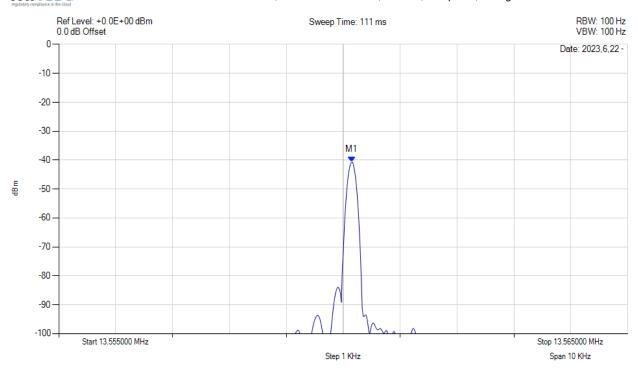
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#### Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -40.727 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

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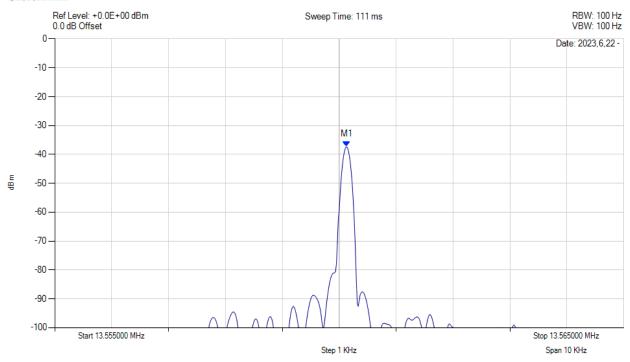


Serial #: LYFT17-U7 Rev A

#### Frequency Stability



Variant: 85-0000086-7, Channel: 13.56 MHz, Chain a, Temp: 0, Voltage: 12 Vdc



| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -37.391 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

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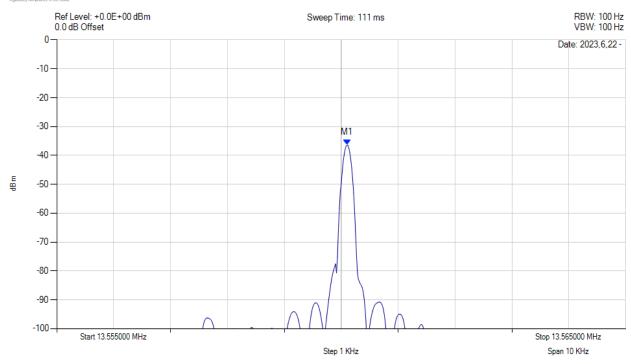


Serial #: LYFT17-U7 Rev A

#### Frequency Stability



Variant: 85-0000086-7, Channel: 13.56 MHz, Chain a, Temp: 10, Voltage: 12 Vdc



| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -36.407 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

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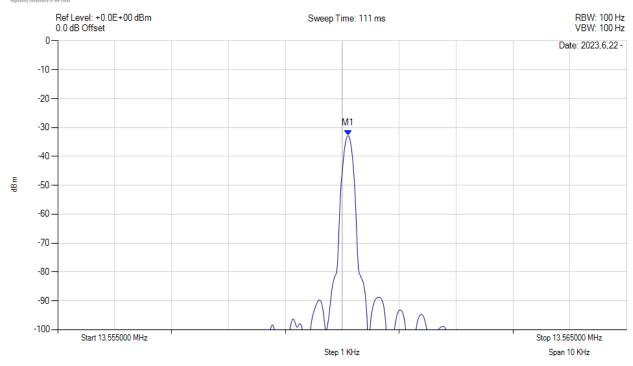


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#### Frequency Stability



Variant: 85-0000086-7, Channel: 13.56 MHz, Chain a, Temp: 20, Voltage: 12 Vdc



| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -32.817 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

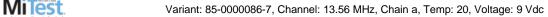
back to matrix

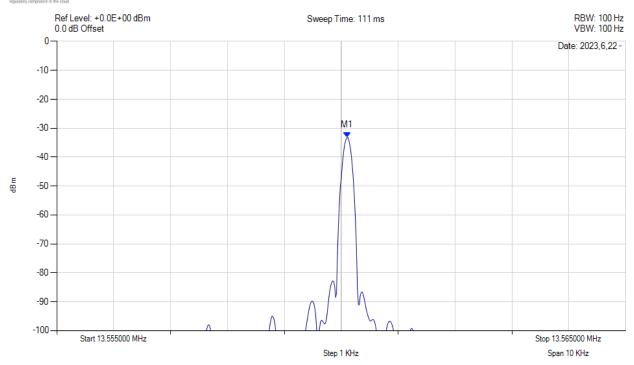
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#### Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -33.222 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

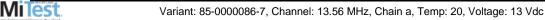
back to matrix

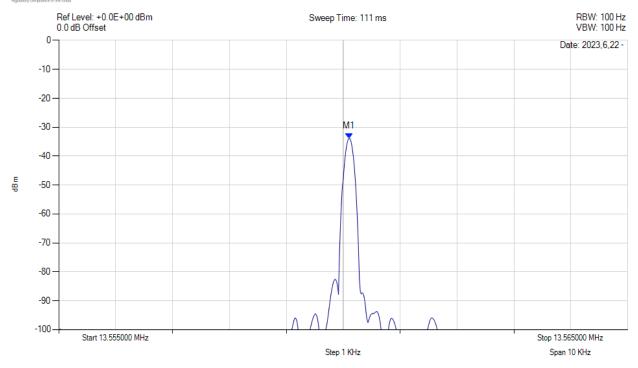
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Serial #: LYFT17-U7 Rev A

#### Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -33.832 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

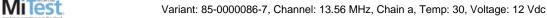
back to matrix

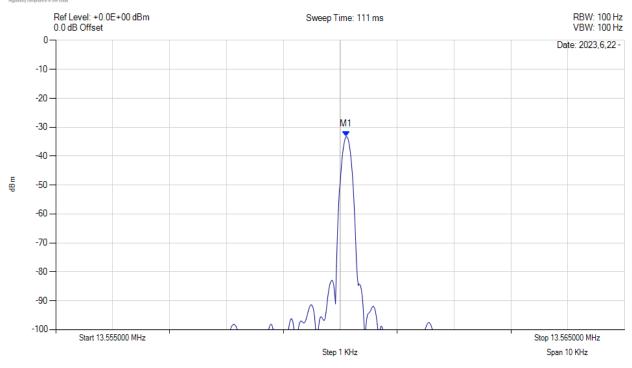
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#### Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -33.273 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

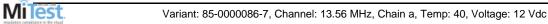
back to matrix

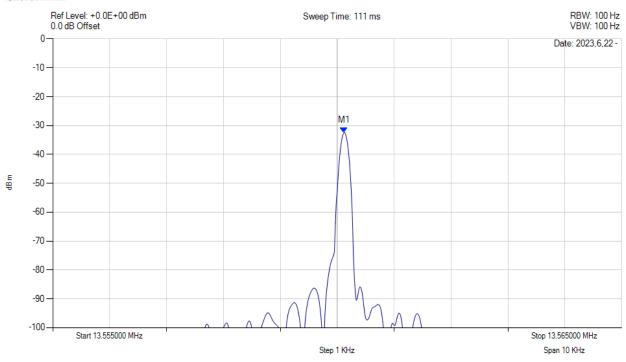
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# Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -32.453 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

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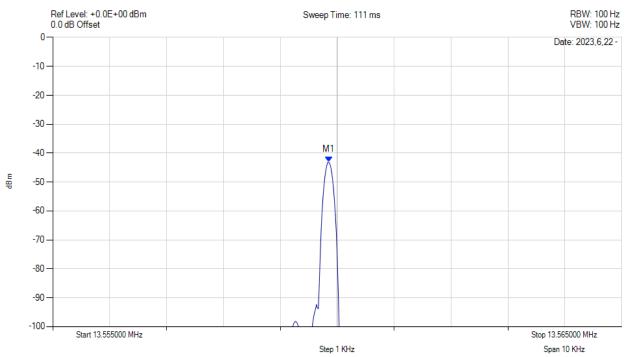


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### Frequency Stability



Variant: 85-0000086-7, Channel: 13.56 MHz, Chain a, Temp: 50, Voltage: 36 Vdc



| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -43.096 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

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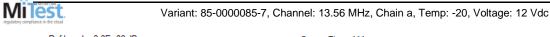
**Title:** Lyft, Inc 85-0000086-7 & 85-0000085-7

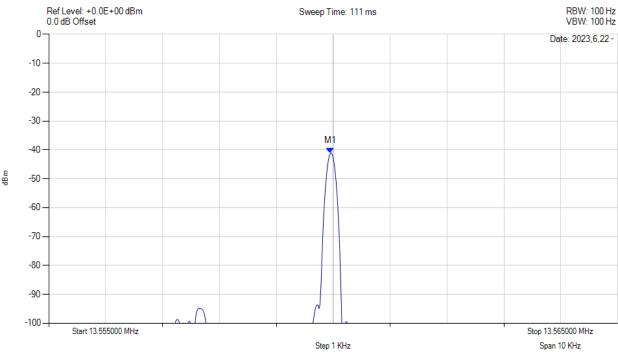
To: FCC Part 15.225 & ISED RSS-210

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## 85-0000085-7:

#### Frequency Stability





| Analyzer Setup  | Marker:Frequency:Amplitude    | Test Results |
|---|-------------------------------|--------------|
| Detector = NORM<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = WRIT | M1 : 13.560 MHz : -41.124 dBm | Pass         |

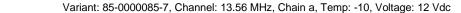
back to matrix

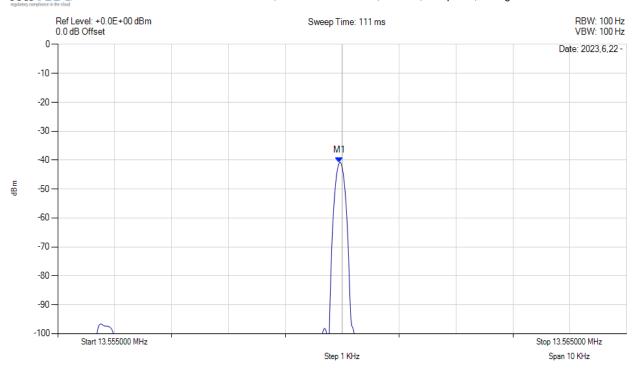
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#### Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -40.878 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

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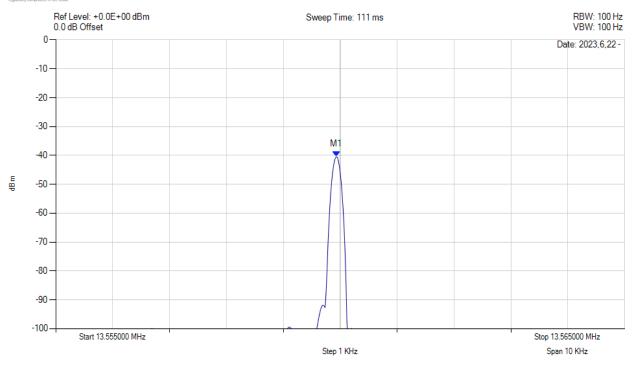


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#### Frequency Stability



Variant: 85-0000085-7, Channel: 13.56 MHz, Chain a, Temp: 0, Voltage: 12 Vdc



| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -40.493 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

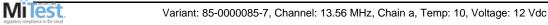
back to matrix

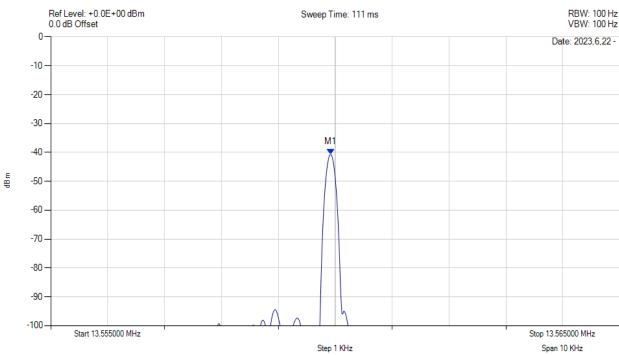
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# Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -40.596 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

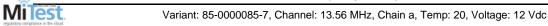
back to matrix

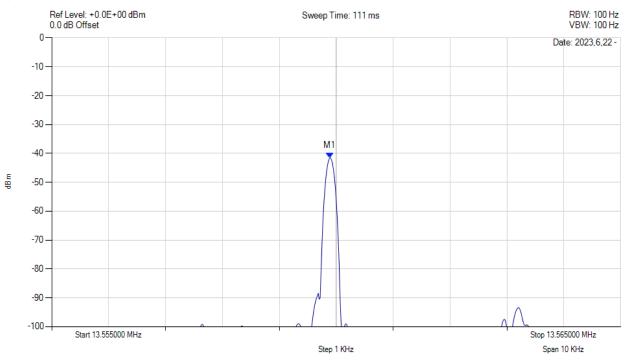
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#### Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -41.542 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

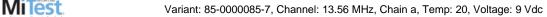
back to matrix

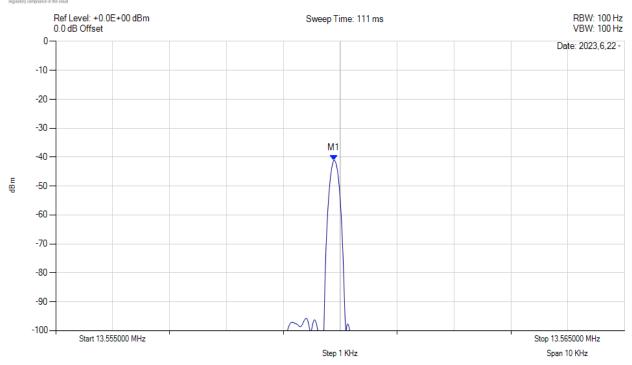
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#### Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -41.165 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

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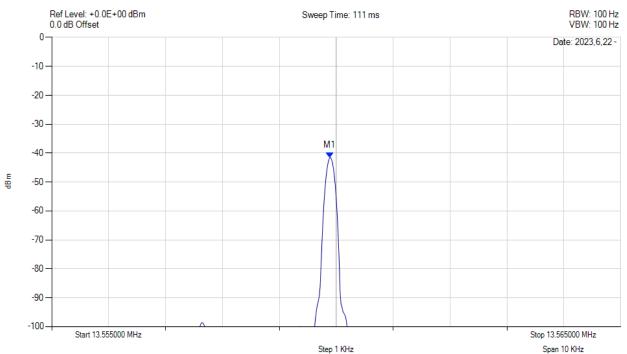


Serial #: LYFT17-U7 Rev A

Frequency Stability



## Variant: 85-0000085-7, Channel: 13.56 MHz, Chain a, Temp: 20, Voltage: 13 Vdc



| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -41.565 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

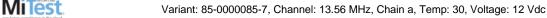
back to matrix

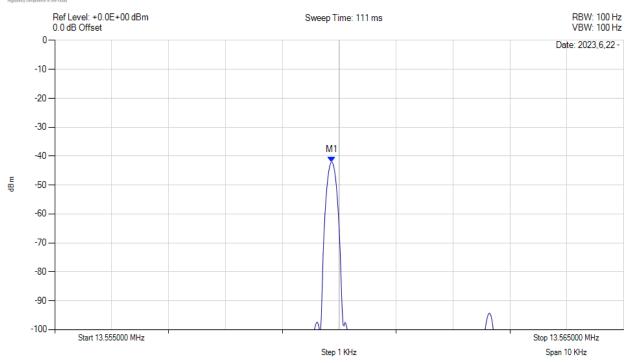
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#### Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -42.003 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

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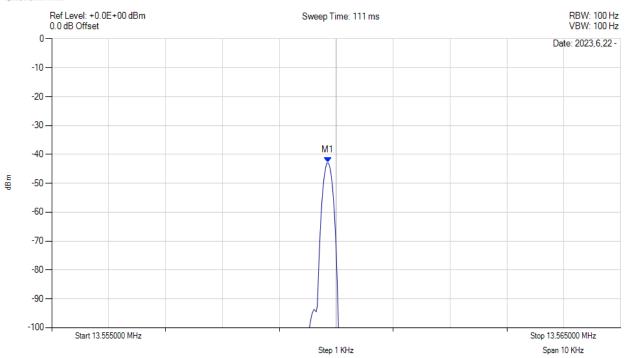


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#### Frequency Stability



Variant: 85-0000085-7, Channel: 13.56 MHz, Chain a, Temp: 40, Voltage: 12 Vdc



| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -42.899 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

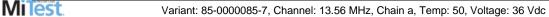
back to matrix

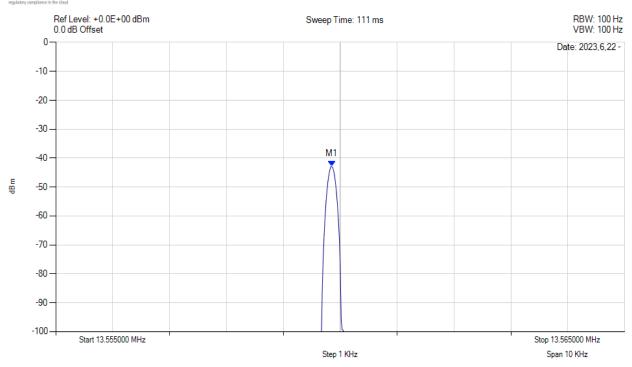
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#### Frequency Stability





| Analyzer Setup     | Marker:Frequency:Amplitude  | Test Results |
|--------------------|-----------------------------|--------------|
| Detector = NORM    | M1: 13.560 MHz: -42.902 dBm | Pass         |
| Sweep Count = 0    |                             |              |
| RF Atten (dB) = 10 |                             |              |
| Trace Mode = WRIT  |                             |              |

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