REGULATORY COMPLIANCE TEST REPORT

FCC CFR 47 Part 15B, ISED ICES-003

Report No.: REDF01–U2 Rev A

Company: Red Flag Cargo Security Systems LLC

Model Name: LXE-G-1

REGULATORY COMPLIANCE TEST REPORT

Company: Red Flag Cargo Security Systems LLC

Model Name: LXE-G-1

To: FCC CFR 47 Part 15B, ISED ICES-003

Test Report Serial No.: REDF01–U2 Rev A

This report supersedes: NONE

Applicant: Red Flag Cargo Security Systems LLC
10545 W Donges Ct
Milwaukee, Wisconsin 53224
USA

Issue Date: 2nd November 2026

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.
575 Boulder Court
Pleasanton, California 94566
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www.micomlabs.com

ACCREDITED
TESTING CERT #2381.01

MiCOM Labs is an ISO 17025 Accredited Testing Laboratory

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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) www.a2la.org test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; http://www.a2la.org/scopepdf/2381-01.pdf



Accredited Laboratory

A2LA has accredited

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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 30th day of December 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2381.01
Valid to November 30, 2027

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. has widely recognized wireless testing and certification capabilities. In addition to being recognized for Testing and Certification under Phase 2 agreements with Canada, Europe, United Kingdom and Japan, our international recognition includes Conformity Assessment Body designation under Phase 1 agreements with APEC MRA countries. MiCOM Labs test reports are accepted globally.

Country	Recognition Body	Status	MRA Phase	Identification No.
USA	Federal Communications Commission (FCC)	TCB	-	US0159 Test Firm Designation#: US1084
Canada	Industry Canada (ISED)	FCB	APEC MRA 2	US0159 ISED#: 4143A
Japan	MIC (Ministry of Internal Affairs and Communication)	CAB	Japan MRA 2	RCB 210
	Japan Approvals Institute for Telecommunication Equipment (JATE)			
	VCCI	--	--	A-0012
Europe	European Commission	NB	EU MRA 2	NB 2280
United Kingdom	Department for Business, Energy & Industrial Strategy (BEIS)	AB	UK MRA 2	AB 2280
Indonesia	Minister of Communication and Digital Education *Keputusan Menteri Komunikasi Dan Digital*	Number 13 List of Overseas Test Labs	--	Lab nº50/2025 of Decree nº13
Mexico	Instituto Federal de 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 Communication Radio Research 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
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 30th day of December 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2381.02
Valid to November 30, 2027

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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2. DOCUMENT HISTORY

Document History		
Revision	**Date**	**Comments**
Draft	28th October 2026	Draft for comment
Rev A	2nd November 2026	Initial Release

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

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3. TEST RESULT CERTIFICATE

Manufacturer:	Red Flag Cargo Security Systems LLC 10545 W Donges Ct Milwaukee, Wisconsin 53224 USA	**Tested By:**	MiCOM Labs, Inc. 575 Boulder Court Pleasanton, California 94566 USA
Model:	LXE-G-1	**Telephone:**	+1 925 462 0304
Equipment Type:	Cellular / GNSS Electronic High-Security Cable Seal	**Fax:**	+1 925 462 0306
S/N's:	TTB00001		
Test Date(s):	22nd October 2026	**Website:**	www.micomlabs.com

STANDARD(S)	TEST RESULTS
FCC Part 15B, ISED ICES-003	EQUIPMENT COMPLIES

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.

ACCREDITED
TESTING CERT #2381.01

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)	FCC CFR 47 Part 15, Subpart B	2017	Title 47 CFR Part 15, Sub Part B; Unintentional Radiators
(ii)	ICES-003	Issue 7; Oct 2020	Information Technology Equipment (Including Digital Apparatus) - Limits and Methods of Measurement
(iii)	ANSI C63.4	2014 + 2017 Amendment	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
(iv)	M 3003	Edition 6 March 2024	The Expression of Uncertainty and Confidence in Measurements
(v)	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
(vi)	A2LA	24th February 2025	R105 - Requirement's When Making Reference to A2LA Accreditation Status

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4.2 Test and Uncertainty Procedures

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. TEST SUMMARY

The following table represents the list of measurements required under the FCC CFR 47 Part 15B & ISED ICES-003 standards:

TABLE OF REQUIRED TESTS – Emissions

Test Standard	Description	Limits	Compliance
FCC Part 15B, ICES-003	Radiated Emissions	Class A	Complies
FCC Part 15B, ICES-003	Conducted Emissions - ac power I/O port	N/A	Not Applicable[1]

Note 1: The EUT is DC powered; therefore, AC power-line conducted emissions requirements are not applicable.

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6. PRODUCT DETAILS AND TEST CONFIGURATIONS

6.1. Test Program Scope

The scope of the test program was to test the Red Flag Cargo Security Systems LLC, LXE-G-1 for compliance to the following standards.

- FCC CFR 47 Part 15, Subpart B; Unintentional Radiators.
- ICES-003, Issue 7 Oct 2020 - Information Technology Equipment (Including Digital Apparatus) — Limits and Methods of Measurement.

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6.2. EUT Details

Detail	Description
Purpose:	Test of the Red Flag Cargo Security Systems LLC, LXE-G-1 for compliance to FCC Part 15 B; Canada ISED ICES-003
Applicant:	Red Flag Cargo Security Systems LLC 10545 W Donges Ct Milwaukee Wisconsin 53224, USA
Manufacturer:	Red Flag Cargo Security Systems LLC
Test Laboratory:	MiCOM Labs, Inc. 575 Boulder Court, Pleasanton, California 94566, USA
Test report reference number:	REDF01-U2
Date EUT received:	8th October 2026
Dates of test (from - to):	22nd October 2026
No of Units Tested:	1
Type of Equipment:	Cellular / GNSS Electronic High-security Cable Seal
Product Family Name:	LXE High-Security GPS Seal
Model/Part Number:	LXE-G-1
Operation Frequency:	LTE-M (3GPP Cat-M1): - LTE Band 4: TX 1710 – 1755 MHz / RX 2110 – 2155 MHz GNSS Receiver: - GPS L1 C/A: 1575.42 MHz (Receive-only)
Equipment Secondary Function(s):	GNSS Location Receiver, Remote Security Latch
Construction/Location for Use:	Outdoors
Software/Firmware Release:	LXE-2026.1.3
Hardware Release:	2026.2
Rated Input Voltage and Current:	$3V_{DC}$ (Client Declared)
Temperature:	-40ºC to +60 ºC (Client Declared)
Equipment Dimensions:	W: 85 mm, H: 100 mm, L: 75mm
Weight:	Not Provided

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6.3. External A.C./D.C. Power Adaptor

The Red Flag Cargo Security Systems LLC LXE-G-1 operates from an internal DC power source.

Note: The device is powered by an internal CR17505 lithium battery (3.0 V_{DC} nominal) per manufacturer declaration. Due to the sealed enclosure, the battery voltage was not independently verified by the laboratory.

6.4. Antenna Details

The EUT (LXE-G-1) utilizes an internal integral antenna for cellular transmission. No external antennas, external RF cables, or external antenna ports were attached or evaluated during testing. The device was tested in a standalone configuration with its internal antenna assembly intact while actively operating on LTE Band 4.

6.5. Cabling and I/O Ports

Equipment has no I/O ports.

6.6. Test Configurations

- The LXE-G-1 was battery powered and pre-configured for CW test mode.
- Equipment was set to transmit a continuous, unmodulated carrier Mid Channel of LTE Band 4 uplink (1710-1755 MHz) @ 1732.5 MHz.
- Nominal setting: 10 dBm (10 mW).

6.7. Equipment Details

The following is a description of equipment/supporting equipment used during the test program.

Type (EUT/ Support)	Equipment Description	Mfr	Model/Part No.	Serial No.
EUT	Cellular / GNSS Electronic High-security Cable Seal	Red Flag Cargo Security Systems LLC	LXE-G-1	TTB00001

6.8. Equipment Modifications

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

1. None

6.9. Deviations from the Test Standard

No deviations from the test standard were required in order to complete the test program:

1. None

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7. TEST RESULTS

7.1. EMC Radiated Emissions

FCC, Part 15 Subpart B §15.109

ISED ICES-003 Section 3.2.2

Test Procedure

Testing 30 – 18000 MHz was performed in an anechoic chamber using a CISPR compliant receiver. Preliminary radiated emissions were measured on every azimuth and with the receiving antenna in both horizontal and vertical polarizations. To further maximize emissions the receive antenna was varied between 1 and 4 meters. The emissions are recorded with receiver in peak hold mode.

Emissions nearest the limits were chosen for maximization and formal measurement using a CISPR Compliant receiver. Emissions from 30 MHz – 1000 MHz are measured utilizing a CISPR compliant quasi-peak detector with a tuned receiver, using a bandwidth of 120 kHz. Emissions above 1000 MHz are measured utilizing a CISPR compliant average detector with a tuned receiver, using a bandwidth of 1 MHz. Only the highest emissions relative to the limit are listed.

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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

FS = Field Strength
R = Measured Spectrum analyzer Input Amplitude
AF = Antenna Factor
FO = Distance Falloff Factor

CORR = Correction Factor = CL – AG + NFL

CL = Cable Loss
AG = Amplifier Gain
NFL = Notch Filter Loss or Waveguide Loss

Field Strength Calculation Example:

Given receiver input reading of 51.5 dBμV; 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 of the measured emission is:

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

Conversion between dBμV/m (or dBμV) and μV/m (or μV) are done as:

Level (dBμV/m) = 20 * Log (level (μV/m))

40 dBμV/m = 100 μV/m
48 dBμV/m = 250 μV/m

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FCC and IC Spurious Emissions Limits

FCC, Part 15 Subpart B §15.109
ISED ICES-003 Section 3.2.2

Except for Class A digital device, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values.

Limits below 1 GHz:
The FCC limits are slightly lower in some sub bands and represent the more stringent requirements.

Class A limits

Frequency(MHz)	Quasi-peak Limit (dBµV/m)		Measurement Distance (meters)	Quasi-peak Limit (dBµV/m)		Measurement Distance (meters)
	ISED	FCC		ISED	FCC	
30 to 88	40.0	39.0	10	50.0	49.5	3
88 - 216	43.5	43.5	10	54.0	54.0	3
216 - 230	46.4	46.4	10	56.9	56.9	3
230 - 960	47.0		10	57.0		3
960 - 1000	49.5	49.5	10	60.0	60.0	3

Class B limits

Frequency(MHz)	Quasi-peak Limit (dBµV/m)		Measurement Distance (meters)	Quasi-peak Limit (dBµV/m)		Measurement Distance (meters)
	ISED	FCC		ISED	FCC	
30 to 88	30.0	29.5	10	40.0	40.0	3
88 - 216	33.1	33.0	10	43.5	43.5	3
216 - 230	35.6	35.6	10	46.0	46.0	3
230 - 960	37.0		10	47.0		3
960 - 1000	43.5	43.5	10	54.0	54.0	3

Limits above 1GHz:

Frequency(MHz)	Average Limit (dBµV/m)	Peak Limit (dBµV/m)	Measurement Distance (meters)	Class (A/B)
1000 to 18000	54	74	3	Class B

Frequency(MHz)	Average Limit (dBµV/m)	Peak Limit (dBµV/m)	Measurement Distance (meters)	Class (A/B)
1000 to 18000	60	80	3	Class A

Traceability

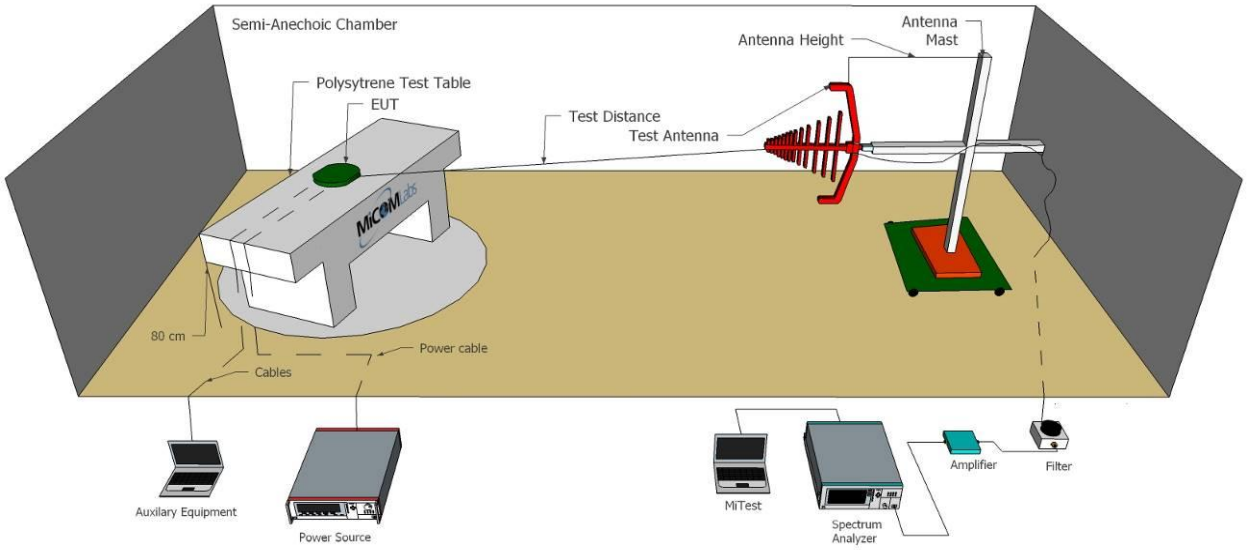
Laboratory Measurement Uncertainty	
Measurement uncertainty	+5.6/ -4.5 dB

Method
Work instruction WI-EMC-07: Radiated Emissions Test

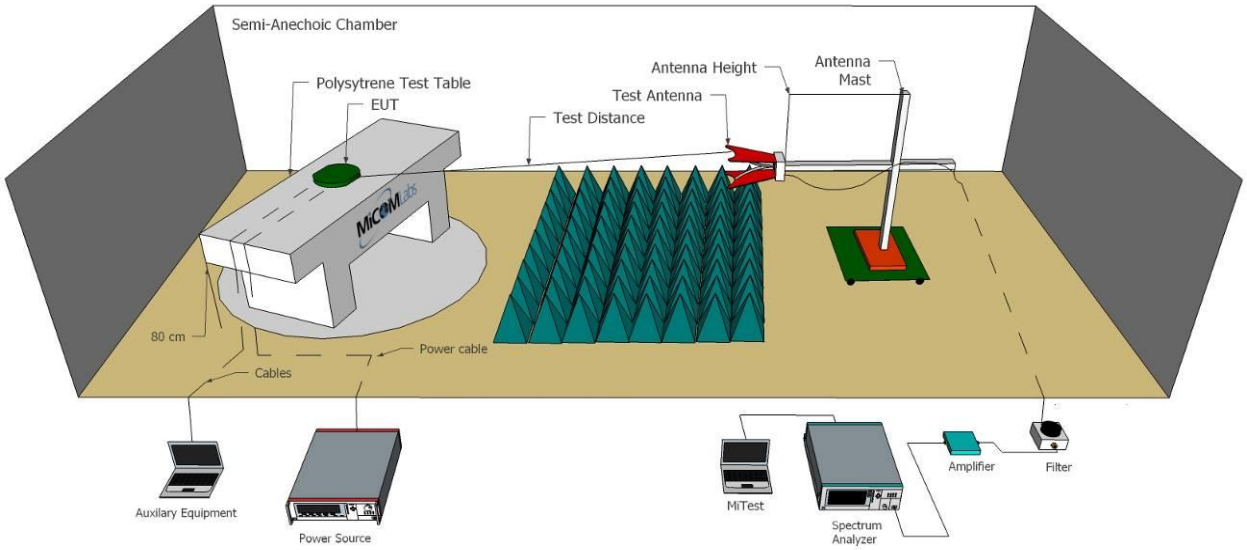
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Test Setup for Radiated Emissions for above and below 1 GHz

Radiated Emissions Below 1GHz Test Setup



Radiated Emissions Above 1GHz Test Setup



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Test Equipment Utilized

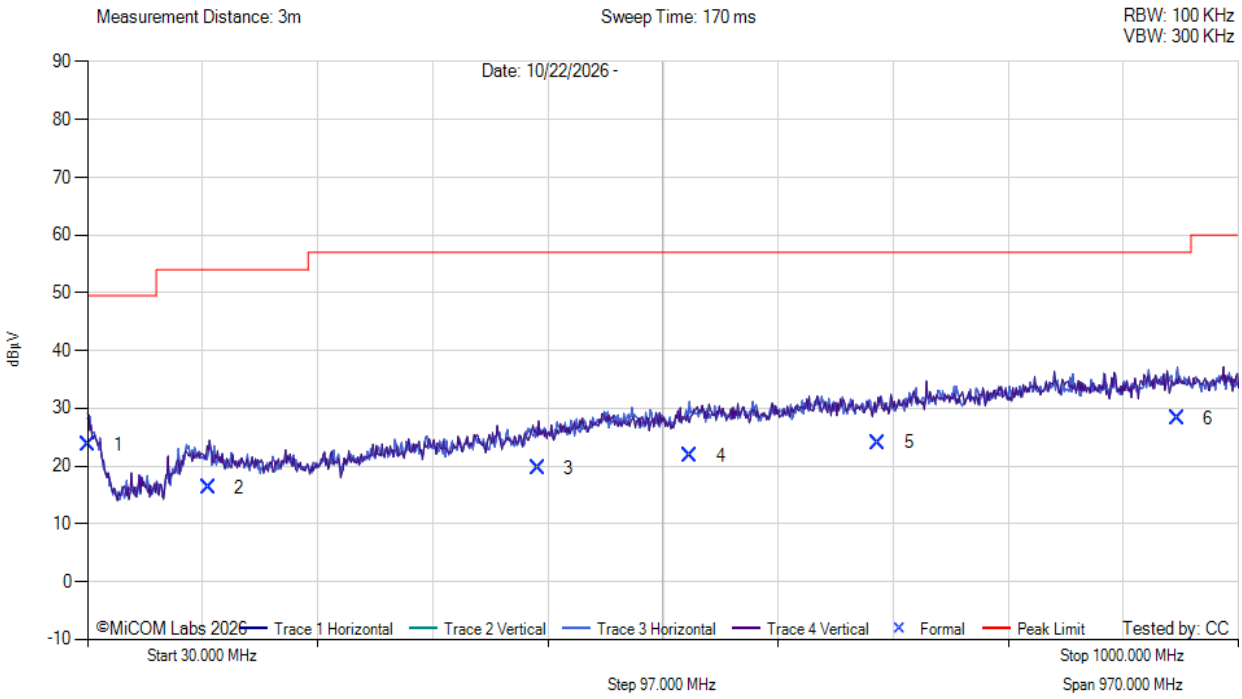
Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
170	Video System Controller for Semi Anechoic Chamber	Panasonic	WV-CU101	04R08507	Not Required
298	3M Radiated Emissions Chamber Maintenance Check	MiCOM	3M Chamber	298	30 Jan 2027
338	Sunol 30 to 3000 MHz Antenna	Sunol	JB3	A052907	5 Dec 2026
397	Amp 10 - 2500MHz	MiCOM Labs	Amp 10 - 2500 MHz	N/A	18 Aug 2027
399	ETS 1-18 GHz Horn Antenna	ETS	3117	00154575	7 Dec 2026
406	Amplifier for Radiated Emissions	MiCOM Labs	40dB 1 to 18GHz Amp	0406	18 Aug 2027
410	Desktop Computer	Dell	Inspiron 620	WS38	Not Required
411	Mast/Turntable Controller	Sunol Sciences	SC98V	060199-1D	Not Required
412	USB to GPIB Interface	National Instruments	GPIB-USB HS	11B8DC2	Not Required
413	Mast Controller	Sunol Science	TWR95-4	030801-3	Not Required
415	Turntable Controller	Sunol Sciences	Turntable Controller	None	Not Required
416	Gigabit ethernet filter	ETS-Lingren	Gigafoil 260366	None	Not Required
447	MiTest Rad Emissions Test Software	MiCOM	Version 1.0	447	Not Required
462	Schwarzbeck cable from Antenna to Amplifier.	Schwarzbeck	AK 9513	462	18 Aug 2027
463	Schwarzbeck cable from Amplifier to Bulkhead.	Schwarzbeck	AK 9513	463	18 Aug 2027
464	Schwarzbeck cable from Bulkhead to Receiver	Schwarzbeck	AK 9513	464	18 Aug 2027
465	Low Pass Filter DC-1000 MHz	Mini-Circuits	NLP-1200+	VUU01901402	18 Aug 2027
480	Cable - Bulkhead to Amp	SRC Haverhill	157-3050360	480	18 Aug 2027
510	Barometer/Thermometer	Digi Sense	68000-49	170871375	4 Jan 2027
554	Precision SMA Cable	Fairview Microwave	SCE18060101-400CM	554	22 Jun 2027
555	Rhode & Schwarz Receiver	Rhode & Schwarz	ESW 44	101893	14 Aug 2027
560	LTE Filter 1710-1785 MHz	Warison	WFIL-N1710-1785F-05	560	25 Aug 2027
602	Cable - 3M Chamber Bulkhead to Receiver	Mini-Circuits	CBN-2M-DMSM	602	22 Jun 2027
CC-05	Radiated Emissions Confidence Check	MiCOM	CC-05	N/A	30 Jan 2027

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30MHz-1.0 GHz

Model:	LXE-G-1	**Configuration tested:**	CW Tx 1732.5 MHz
Input power:	3.0 V_{DC} (Internal Battery)	**Standard:**	FCC Part 15B (Class A)

30 MHz to 1 GHz (Class A)



30.00 - 1000.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	30.38	23.11	3.83	-3.30	23.64	MaxQP	Vertical	121	236	49.5	-25.9	Pass
2	131.83	23.07	4.47	-11.21	16.32	MaxQP	Vertical	149	299	54.0	-37.7	Pass
3	409.65	22.57	5.55	-8.44	19.69	MaxQP	Vertical	120	119	57.0	-37.3	Pass
4	537.99	21.79	6.00	-5.98	21.81	MaxQP	Horizontal	143	109	57.0	-35.2	Pass
5	696.56	21.62	6.60	-4.14	24.07	MaxQP	Vertical	106	261	57.0	-32.9	Pass
6	948.27	21.20	7.57	-0.58	28.19	MaxQP	Horizontal	115	58	57.0	-28.8	Pass

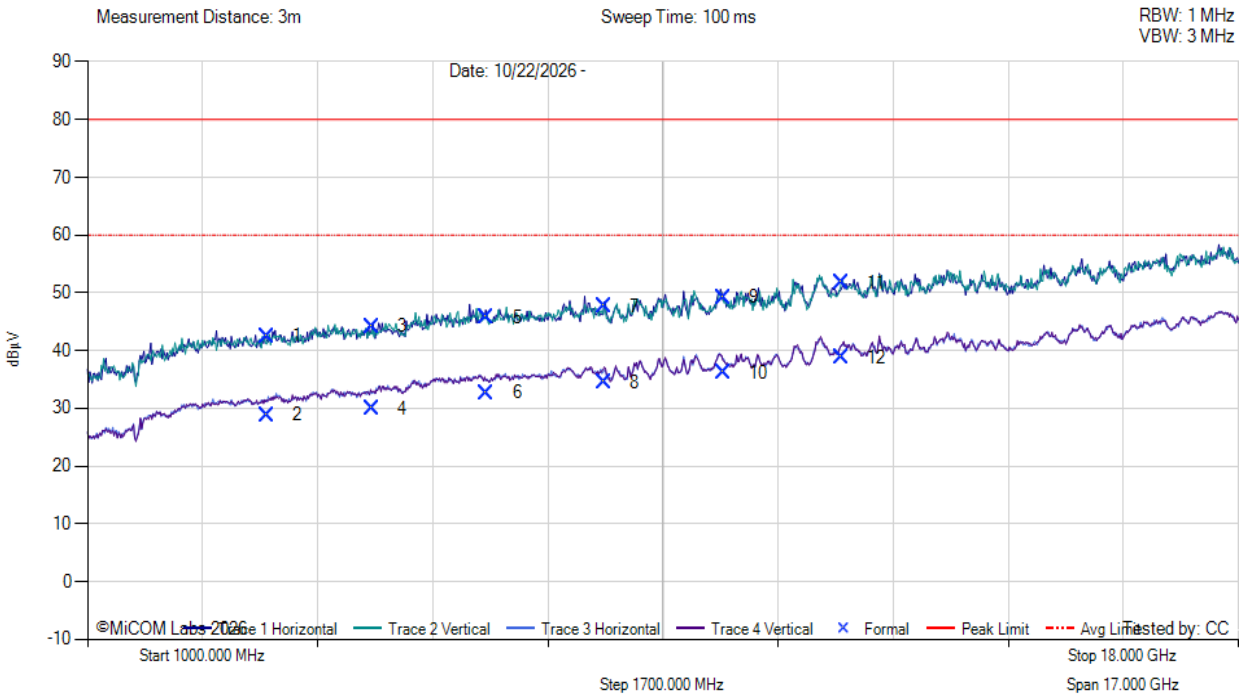
Test Notes: 30MHz-1GHz, Class A, LXE-G-1 Tx B4 Mid 1732.5 MHz, SN-TTB00001

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1-18 GHz

Model:	LXE-G-1	**Configuration tested:**	CW Tx 1732.5 MHz
Input power:	3.0 V_{DC} (Internal Battery)	**Standard:**	FCC Part 15B (Class A)

1 GHz to 18 GHz (Class A)



1000.00 - 18000.00 MHz												
Num	**Frequency MHz**	**Raw dBµV**	**Cable Loss dB**	**AF dB/m**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	3649.66	50.10	4.33	-11.90	42.54	MaxP	Horizontal	182	150	80.0	-37.5	Pass
2	3649.66	36.37	4.33	-11.90	28.80	AVG	Horizontal	182	150	60.0	-31.2	Pass
3	5206.78	50.82	5.36	-12.02	44.16	MaxP	Horizontal	186	12	80.0	-35.8	Pass
4	5206.78	36.64	5.36	-12.02	29.98	AVG	Horizontal	186	12	60.0	-30.0	Pass
5	6895.72	47.59	6.27	-8.08	45.78	MaxP	Vertical	144	239	80.0	-34.2	Pass
6	6895.72	34.52	6.27	-8.08	32.72	AVG	Vertical	144	239	60.0	-27.3	Pass
7	8634.06	48.40	7.10	-7.84	47.67	MaxP	Horizontal	119	0	80.0	-32.3	Pass
8	8634.06	35.19	7.10	-7.84	34.46	AVG	Horizontal	119	0	60.0	-25.5	Pass
9	10386.20	46.31	7.72	-4.85	49.18	MaxP	Vertical	123	278	80.0	-30.8	Pass
10	10386.20	33.28	7.72	-4.85	36.15	AVG	Vertical	123	278	60.0	-23.8	Pass
11	12139.18	48.43	9.16	-5.81	51.77	MaxP	Vertical	153	205	80.0	-28.2	Pass
12	12139.18	35.41	9.16	-5.81	38.76	AVG	Vertical	153	205	60.0	-21.2	Pass

Test Notes: 1-18GHz, Class A, LXE-G-1 Tx B4 Mid 1732.5 MHz, SN-TTB00001

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