



Electromagnetic Compatibility Test Report

Tests Performed on an rf IDEas, Inc.
WAVE ID Solo Mini Keystroke HID Prox Black USB Reader,

Model: LB125

Radiometrics Document RP-9911A



Product Detail:		
FCC ID: M9MW6X3XU		
IC: 6571A-W6X3XU		
Equipment type: 125 kHz Card Reader		
Test Standards:		
US CFR Title 47, Chapter I, FCC Part 15 Subpart C		
FCC Part 15 CFR Title 47: 2023		
Canada ISED; RSS-210, Issue 10: 2019 as required for Category I Equipment		
FCC Part 15.209		
Tests Performed For:		Test Facility:
rf IDEas, Inc.		Radiometrics Midwest Corporation
425 N. Martingale Rd., Ste. 1680		12 Devonwood Avenue
Schaumburg, IL 60173		Romeoville, IL 60446
Test Completion Date:		
November 1, 2023		
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0	January 15, 2024	
1	January 16, 2024	Joseph Strzelecki



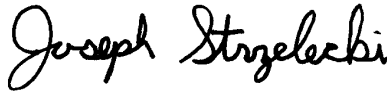
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1.0 ADMINISTRATIVE DATA

<i>Equipment Under Test:</i> An rf IDEas, Inc., WAVE ID Solo Mini Keystroke HID Prox Black USB Reader 125 kHz RFID Reader Model: LB125, Serial Number: WEO1000011 Product Number: RDR-6031BKU Firmware Version: WNC020100UPX360.H This will be referred to as the EUT in this Report	
<i>Date EUT Received at Radiometrics:</i> June 15, 2023	<i>Test Date(s):</i> October 25 to November 1, 2023
<i>Test Report Written and Authorized by:</i>  01/15/2024 Joseph Strzelecki Senior EMC Engineer NARTE EMC-000877-NE	<i>Radiometrics' Personnel Responsible for Test:</i> Joseph Strzelecki Senior EMC Engineer Chris E. D'Alessio EMC Technician
<i>Test Witnessed By:</i> The tests were partially witnessed by Shiung Lo of rf IDEas, Inc.	

2.0 TEST SUMMARY AND RESULTS

The EUT (Equipment Under Test) is a Wave ID Solo Mini Keystroke HID Prox Black RFID Reader, manufactured by rf IDEas, Inc. The detailed test results are presented in a separate section. The following is a summary of the test results.

Emissions Tests Results per RSS-210 & FCC Part 15

Environmental Phenomena	Frequency Range	Test Result
RF Radiated Emissions	30-1000 MHz	Pass
Conducted Emissions, AC Mains	0.15 - 30 MHz	Pass
RF Radiated Emissions H-Field	0.009 – 30 MHz	Pass
Occupied Bandwidth	125 kHz	Pass

2.1 RF Exposure Compliance Requirements

Since the effective power output is less than 1 mW, the EUT meets the FCC requirement for RF exposure and is exempt from RSS-102. There are no power level adjustments, and the antenna is permanently attached. The detailed calculations for RF Exposure are presented in a separate document.



3.0 EQUIPMENT UNDER TEST (EUT) DETAILS

3.1 EUT Description

The EUT is a WAVE ID Solo Mini Keystroke HID Prox Black USB Reader. It is an RFID reader that operates at 125 kHz. It is a Model LB125, manufactured by rf IDEas, Inc. The EUT was in good working condition during the tests, with no known defects.

3.1.1 FCC Section 15.203 & RSS-GEN Antenna Requirements

The antenna has a unique interface connector to ensure no other OEM antennas can be used. The antenna is internal to the EUT, and it is not readily available to be modified by the end user.

3.2 Related Submittals

rf IDEas, Inc. is not submitting any other products simultaneously for equipment authorization related to the EUT.

4.0 TESTED SYSTEM DETAILS

4.1 Tested System Configuration

The system was configured for testing in a typical fashion. The EUT was placed on an 80-cm high, nonconductive test stand. The testing was performed in conditions as close as possible to installed conditions. The wiring was consistent with the manufacturer's recommendations. Power was supplied at 115 VAC, 60 Hz single-phase to the host computer. The EUT was powered from the USB. The identification for all equipment, plus descriptions of all cables used in the tested system, are:

Tested System Configuration List

Item	Description	Type*	Manufacturer	Model Number	Serial Number
1	RFID Reader	E	rf IDEas	LB125	WEO1000011
2	Latitude Laptop PC	H	HP EliteBook	Revolve 810	A906A5BA7628
3	Laptop AC-DC power supply	P	HP	677774-001	WCNXA0C1R6WIVK

* Type: E = EUT, P = Peripheral, S = Support Equipment; H = Host Computer

List of Cables

QTY	Length (m)	Cable Description	Shielded?
1	1.8	USB Cable from Reader to Host computer	Yes
1	1.2	AC Cord to AC-DC power supply to host computer	No
1	1.5	DC Cord to Computer	No

4.2 Special Accessories

No special accessories were used during the tests in order to achieve compliance.

4.3 Equipment Modifications

No modifications were made at Radiometrics in order to meet the requirements listed in this report.



5.0 TEST SPECIFICATIONS

Document	Date	Title
FCC CFR Title 47	2023	Code of Federal Regulations Title 47, Chapter 1, Federal Communications Commission, Part 15 - Radio Frequency Devices
IC RSS-210 Issue 10	2019	Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands) Category I Equipment
IC RSS-Gen Issue 5	2018	General Requirements and Information for the Certification of Radiocommunication Equipment (RSS-Gen)

6.0 TEST PROCEDURE DOCUMENTS

The tests were performed using the procedures from the following specifications:

Document	Date	Title
ANSI C63.4-2014	2014	Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
ANSI C63.10-2013	2013	American National Standard for Testing Unlicensed Wireless Devices

7.0 RADIOMETRICS' TEST FACILITIES

The results of these tests were obtained at Radiometrics Midwest Corp. in Romeoville, Illinois, USA. Radiometrics is accredited by A2LA (American Association for Laboratory Accreditation) to conform to ISO/IEC 17025: 2017 "General Requirements for the Competence of Calibration and Testing Laboratories". Radiometrics' Lab Code is 121191 and Certification Number is 1495.01. Radiometrics' scope of accreditation includes all of the test methods listed herein. A copy of the accreditation can be accessed on our web site (www.radiomet.com). Radiometrics accreditation status can be verified at A2LA's web site (www.a2la2.org).

The following is a list of shielded enclosures located in Romeoville, Illinois used during the tests:

Chamber E: Is a custom-made anechoic chamber that measures 52' L X 30' W X 18' H. The walls and ceiling are fully lined with RF absorbers. Pro-shield of Collinsville, Oklahoma manufactured the chamber.

Test Station F: Is an area that measures 10' D X 12' W X 10' H. The floor and back wall are metal shielded. This area is used for conducted emissions measurements.

A separate ten-foot long, brass plated, steel ground rod attached via a 6-inch copper braid grounds each of the above chambers. Each enclosure is also equipped with low-pass power line filters.

The FCC has accepted these sites as test site number US1065. The FCC test site Registration Number is 732175. Details of the site characteristics are on file with the Industry Canada as site number 3124A with a CAB ID US0224.

A complete list of the test equipment is provided herein. The calibration due dates are indicated on the equipment list. The equipment is calibrated in accordance with ANSI/NCSL Z540-1, with traceability to the National Institute of Standards and Technology (NIST).

8.0 DEVIATIONS AND EXCLUSIONS FROM THE TEST SPECIFICATIONS

There were no deviations or exclusions from the test specifications.



9.0 CERTIFICATION

Radiometrics Midwest Corporation certifies that the data contained herein was taken under conditions that meet or exceed the requirements of the test specification. The results relate only to the EUT listed herein. Any modifications made to the EUT subsequent to the indicated test date will invalidate the data and void this certification.

10.0 TEST EQUIPMENT TABLE

RMC ID	Manufacturer	Description	Model No.	Serial No.	Frequency Range	Cal Period	Cal Date
ANT-53	EMCO	Loop Antenna	6507	1453	1 kHz-30 MHz	24 Mo	03/10/22
ANT-68	EMCO	Log-Periodic Ant.	93146	9604-4456	200-1000MHz	24 Mo.	02/07/22
ANT-80	AH Systems	Bicon Antenna	SAS-540	294	20-330MHz	24 Mo.	01/26/23
HPF-01	Solar	High Pass Filter	7930-100	HPF-1	0.15-30MHz	24 Mo.	03/07/22
LSN-01	Electrometrics	50 uH LISN	FCC/VDE 50/2	1001	0.01-30MHz	24 Mo.	12/05/22
REC-20	HP / Agilent	Spectrum Analyzer	85460A/84562A	33330A00135 3410A00178	30Hz-6GHz	25 Mo.	11/08/23
REC-21	Agilent	Spectrum Analyzer	E7405A	MY45118341	9kHz-26.5GHz	24 Mo.	02/24/22
REC-44	Agilent	Spectrum Analyzer	E4440A	US40420673	3Hz-26.5GHz	24 Mo.	03/31/22
TMP-01	Fluke	Temperature meter	80T-150UA	38280311	N/A	24 Mo.	07/11/22

Note: All calibrated equipment is subject to periodic checks.

Software Company	Test Software Name	Version	Applicable Tests
Radiometrics	EN550XX0	07.22.22	RF Conducted Emissions (FCC Part 15 & EN 55032)
Radiometrics	REREC11D	07.21.22	RF Radiated Emissions (FCC Part 15 & EN 55032)
Agilent	PSA/ESA-E/L/EMC	2.4.0.42	Bandwidth and screen shots

11.0 TEST SECTIONS

11.1 AC Conducted Emissions

The tests and limits are in accordance with FCC section 15.207 and RSS Gen section 8.8.

A computer-controlled analyzer was used to perform the conducted emissions measurements. The computer recorded the data and then plotted it on a semi-log graph. Adjusting the positions of the cables and orientation of the test system then maximizes the highest emissions.

Mains Conducted emission measurements were performed using a 50 Ohm/50 uH Line Impedance Stabilization Network (LISN) as the pick-up device. Measurements were repeated on both leads within the power cord. If the EUT power cord exceeded 80 cm in length, the excess length of the power cord was made into a 30 to 40 cm bundle near the center of the cord. The LISN was placed on the floor at the base of the test platform and electrically bonded to the ground plane.

FCC/IC Limits of Conducted Emissions at the AC Mains Ports

Frequency Range (MHz)	Class B Limits (dBuV)	
	Quasi-Peak	Average
0.150 - 0.50*	66 - 56	56 - 46
0.5 – 5.0	56	46
5.0 - 30	60	50

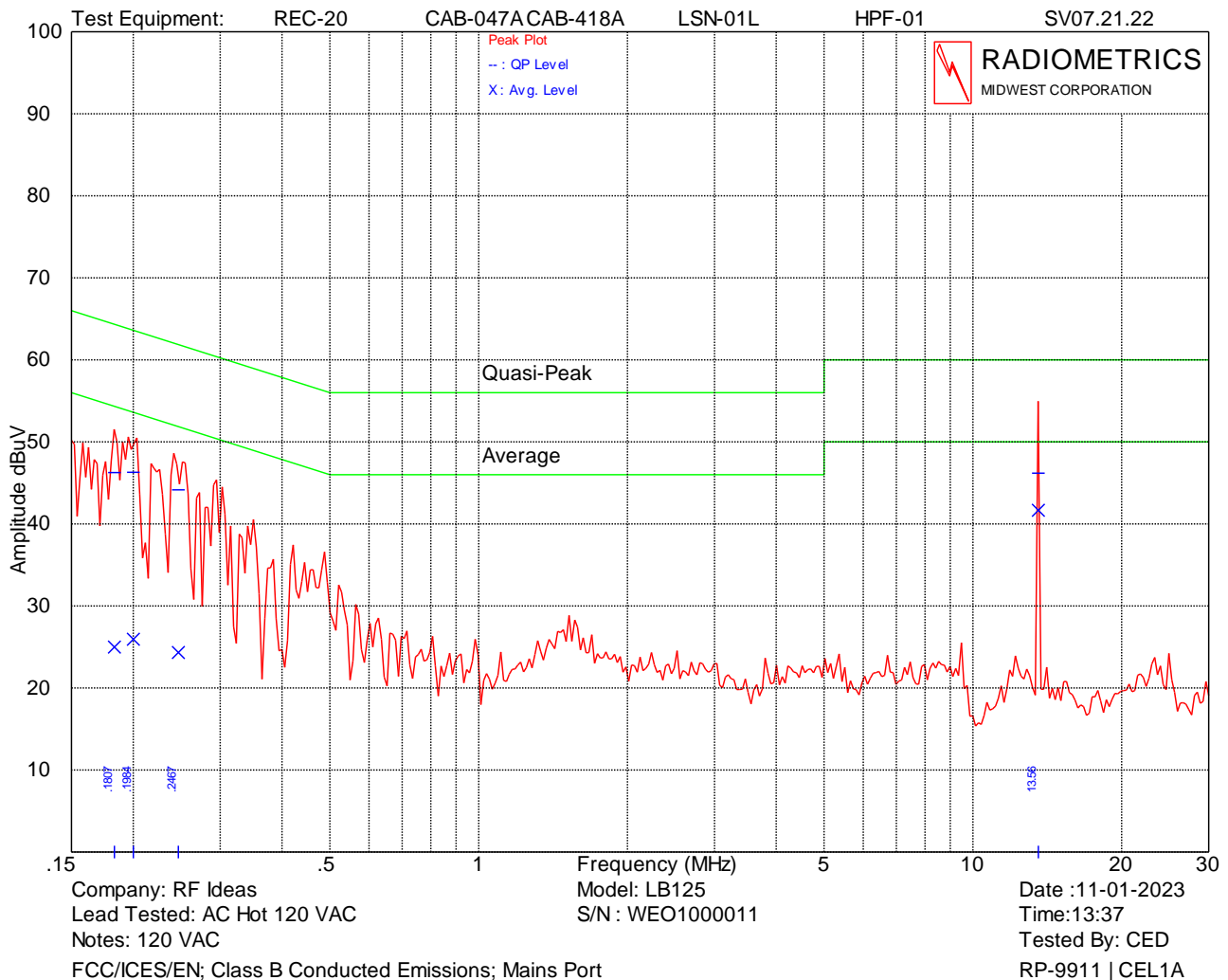
* The limit decreases linearly with the logarithm of the frequency in this range.



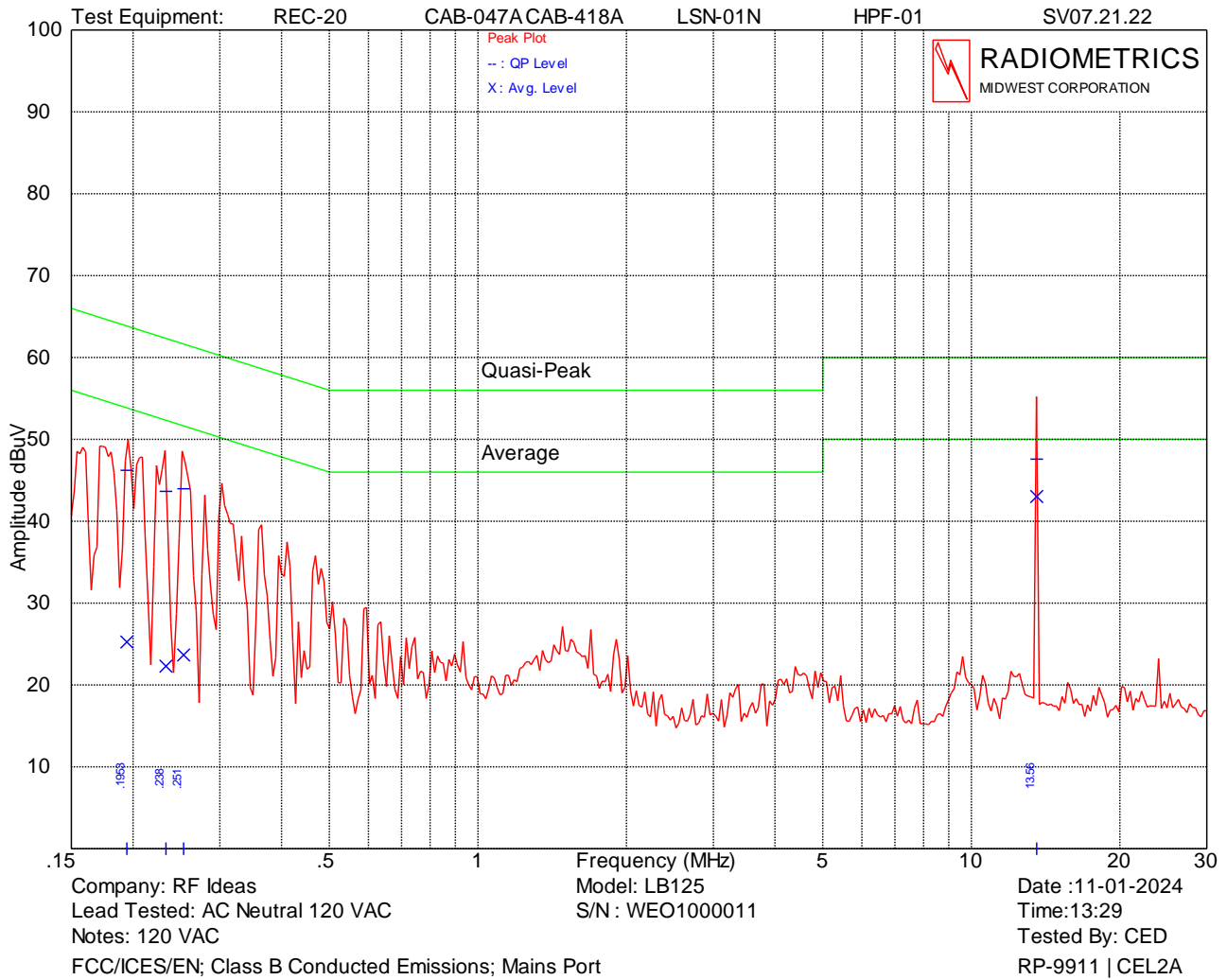
The initial step in collecting conducted data is a peak detector scan and the plotting of the measurement range. Significant peaks are then marked as shown on the following table, and these signals are then measured with the quasi-peak detector. The following represents the worst case emissions from the host computer (with the EUT connected) power cord, after testing all modes of operation. QP readings are quasi-peak with a 9 kHz bandwidth and no video filter.

Tested by	Chris D'Alessio
Test Dates	11/01/2023

The following shows the worst case from the 125 kHz transmitters. The Limit shown in the graphs are the FCC 15.107 and RSS-GEN Table 3. Model LB125



Frequency (MHz)	Peak Amp. (dBuV)	QP Limit (dBuV)	Average Amp. (dBuV)	Average Limit (dBuV)	Margin Under Limit (dB)
0.181	46.3	64.0	25.0	54.0	17.7
0.198	46.3	63.9	25.9	53.9	17.6
0.247	44.2	61.9	24.3	51.9	17.7
13.563	46.2	60.0	41.7	50.0	8.3



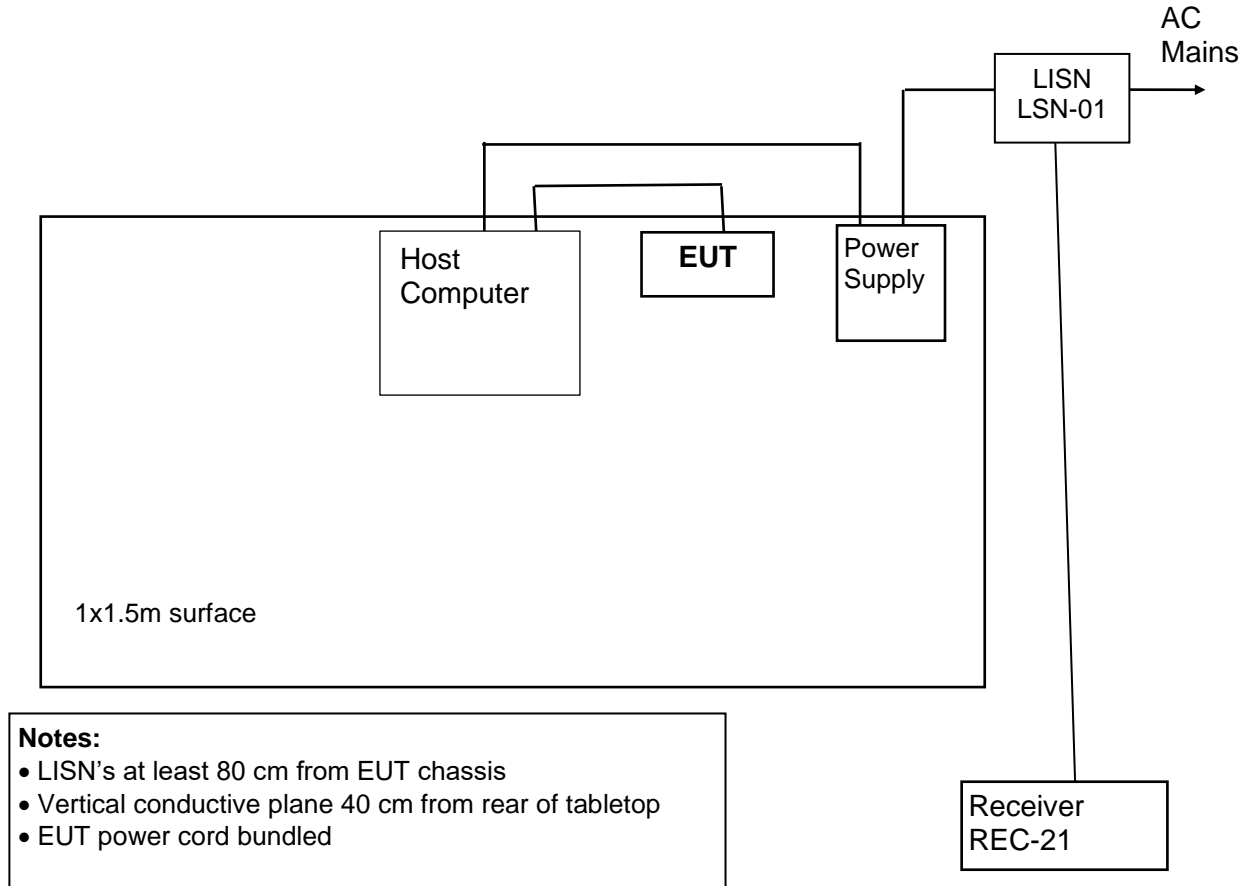
Frequency (MHz)	Peak Amp. (dBuV)	QP Limit (dBuV)	Average Amp. (dBuV)	Average Limit (dBuV)	Margin Under Limit (dB)
0.195	46.2	63.9	25.2	53.9	17.7
0.238	43.7	62.1	22.3	52.1	18.4
0.251	44.0	61.9	23.7	51.9	18.0
13.563	47.6	60.0	43.0	50.0	7.0

The emission at 13.56 MHz was determined to be from the host computer and not the EUT.

Judgement Pass by at least 7 dB.



Figure 1. Conducted Emissions Test Setup



11.2 Radiated RF Emissions

Radiated emission measurements were performed with linearly polarized broadband antennas. The results obtained with these antennas can be correlated with results obtained with a tuned dipole antenna. The radiated emission measurements were performed with a spectrum analyzer. The bandwidth used from 150 kHz to 30 MHz is 9 or 10 kHz and the bandwidth from 30 MHz to 1000 MHz is 100 or 120 kHz. Above 1 GHz, a 1 MHz bandwidth is used. A 10 dB linearity check is performed prior to start of testing in order to determine if an overload condition exists. Figure 4 herein lists the details of the test equipment used during radiated emissions tests.

Final radiated emissions measurements were performed inside of an anechoic chamber at a test distance of 3 meters. The anechoic chamber is designated as Chamber E. This Chamber meets the Site Attenuation requirements of ANSI C63.4 and CISPR 16-1. Chamber E is located at 12 Devonwood Ave. Romeoville, Illinois EMI test lab.

The entire frequency range from 30 to 1000 MHz was slowly scanned with particular attention paid to those frequency ranges which appeared high. Measurements were performed using two antenna polarizations, (vertical and horizontal). The worst case emissions were recorded. All measurements may be performed using either the peak, average or quasi-peak detector functions. If the peak detector data exceeds or is marginally close to the limits, the measurements are repeated using a quasi-peak detector or average function as required by the specification for final determination of compliance.



The detected emission levels were maximized by rotating the EUT, adjusting the positions of all cables, and by scanning the measurement antenna from 1 to 4 meters above the ground. The EUT was rotated through three orthogonal axes as per 5.10.1 of ANSI C63.10 during the radiated tests.

Radiated Emissions Field Strength Limits

Table with 4 columns: Frequency Range (MHz), Test Distance (meters), Class B Limits (uV/m), and Class B Limits (dB(uV/m)). Rows include frequency bands from 0.009-0.490 MHz to Above 960 MHz.

The emission limits shown in the above table are based on measurements using a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

11.2.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and by subtracting the Amplifier Gain from the measured reading. The basic equation is as follows:

FS = RA + AF + CF - AG

Where: FS = Field Strength

RA = Receiver Amplitude in dBuV

AF = Antenna Factor in dB/m

CF = Cable Attenuation Factor in dB

AG = Amplifier Gain in dB

11.2.2 Radiated Emissions Test Results

Summary table with 2 columns: Test Dates (10/25/2023), EUT (LB125; S/N WEO1000011), Test Distance (3 Meters), Specification (FCC Part 15 Subpart C & RSS-210), Abbreviations (P = peak; Q = QP Pol = Antenna Polarization; V = Vertical; H = Horizontal), Tested by (Chris D'Alessio), and Note (The following shows the worst case emissions from all transmitters and digital devices. The 125 kHz transmitter was on during the following tests.)

Main test results table with 10 columns: Freq. MHz, Meter Reading dBuV, Dect., Ant. Pol., Antenna Factor (dB/m), Cable Loss (dB), Distance Factor (dB), EUT (dBuV/m), Limit (dBuV/m), Margin Under Limit (dB). Rows list various frequencies from 35.3 MHz to 111.4 MHz.



Freq. MHz	Meter Reading dBuV	Decet.	Ant. Pol.	Antenna Factor (dB/m)	Cable Loss (dB)	Distance Factor (dB)	EUT (dBuV/m)	Limit (dBuV/m)	Margin Under Limit (dB)
124.0	9.9	P	H	11.8	1.2	0.0	22.9	43.5	20.6
136.8	9.8	P	H	12.3	1.3	0.0	23.4	43.5	20.1
151.5	9.9	P	H	12.6	1.3	0.0	23.8	43.5	19.7
199.9	10.8	P	H	14.2	1.5	0.0	26.5	43.5	17.0
224.9	11.1	P	H	14.8	1.6	0.0	27.5	46.0	18.5
241.9	11.3	P	H	15.1	1.7	0.0	28.1	46.0	17.9
268.4	17.1	P	H	12.5	1.8	0.0	31.4	46.0	14.6
277.8	12.9	P	H	13.0	1.8	0.0	27.7	46.0	18.3
312.1	10.9	P	H	14.9	2.0	0.0	27.8	46.0	18.2
351.7	8.8	P	H	14.4	2.1	0.0	25.3	46.0	20.7
390.3	11.3	P	H	15.1	2.2	0.0	28.6	46.0	17.4
439.2	11.4	P	H	16.2	2.3	0.0	29.9	46.0	16.1
481.8	9.4	P	H	17.1	2.5	0.0	29.0	46.0	17.0
574.1	7.8	P	H	18.5	2.7	0.0	29.0	46.0	17.0
652.2	8.2	P	H	19.8	2.8	0.0	30.8	46.0	15.2
748.7	7.4	P	H	20.9	3.1	0.0	31.4	46.0	14.6
813.3	8.5	P	H	21.5	3.2	0.0	33.2	46.0	12.8
885.4	7.9	P	H	22.7	3.4	0.0	34.0	46.0	12.0
957.5	8.5	P	H	23.4	3.5	0.0	35.4	46.0	10.6
35.5	17.4	P	V	11.7	0.6	0.0	29.7	40.0	10.3
42.2	15.7	P	V	10.5	0.7	0.0	26.9	40.0	13.1
45.5	16.7	P	V	9.9	0.7	0.0	27.3	40.0	12.7
51.5	8.8	P	V	9.2	0.8	0.0	18.8	40.0	21.2
58.8	10.3	P	V	9.0	0.8	0.0	20.1	40.0	19.9
65.6	12.3	P	V	9.0	0.8	0.0	22.1	40.0	17.9
74.9	10.8	P	V	9.2	0.9	0.0	20.9	40.0	19.1
86.6	10.6	P	V	9.4	1.0	0.0	21.0	40.0	19.0
96.4	17.7	P	V	9.8	1.1	0.0	28.6	43.5	14.9
100.6	14.4	P	V	10.1	1.1	0.0	25.6	43.5	17.9
129.5	10.6	P	V	11.9	1.2	0.0	23.7	43.5	19.8
152.6	13.5	P	V	12.7	1.3	0.0	27.5	43.5	16.0
174.0	10.7	P	V	13.2	1.4	0.0	25.3	43.5	18.2
197.0	11.3	P	V	14.1	1.5	0.0	26.9	43.5	16.6
219.4	11.5	P	V	14.8	1.6	0.0	27.9	46.0	18.1
238.4	15.2	P	V	15.0	1.7	0.0	31.9	46.0	14.1
257.6	13.4	P	V	12.2	1.7	0.0	27.3	46.0	18.7
268.4	13.1	P	V	12.5	1.8	0.0	27.4	46.0	18.6
300.5	10.7	P	V	14.0	1.9	0.0	26.6	46.0	19.4
330.5	10.6	P	V	14.2	2.0	0.0	26.8	46.0	19.2
371.1	8.9	P	V	14.5	2.1	0.0	25.5	46.0	20.5
398.6	8.9	P	V	15.4	2.2	0.0	26.5	46.0	19.5
428.1	9.6	P	V	15.9	2.3	0.0	27.8	46.0	18.2
458.4	9.4	P	V	16.8	2.4	0.0	28.6	46.0	17.4
485.4	9.7	P	V	17.0	2.5	0.0	29.2	46.0	16.8
556.1	8.6	P	V	18.1	2.6	0.0	29.3	46.0	16.7
620.6	8.7	P	V	19.0	2.8	0.0	30.5	46.0	15.5
679.2	7.2	P	V	20.9	2.9	0.0	31.0	46.0	15.0
742.2	7.5	P	V	20.9	3.1	0.0	31.5	46.0	14.5
810.8	8.1	P	V	21.4	3.2	0.0	32.7	46.0	13.3
872.9	8.8	P	V	22.7	3.3	0.0	34.8	46.0	11.2
947.4	9.1	P	V	23.3	3.5	0.0	35.9	46.0	10.1

Judgment: Passed by 7.1 dB; Where both peak data and quasi-peak data is performed, the quasi-peak is the final determination of compliance.



Radiated emissions in a graphical format. The following chart has the same data as the previous table.

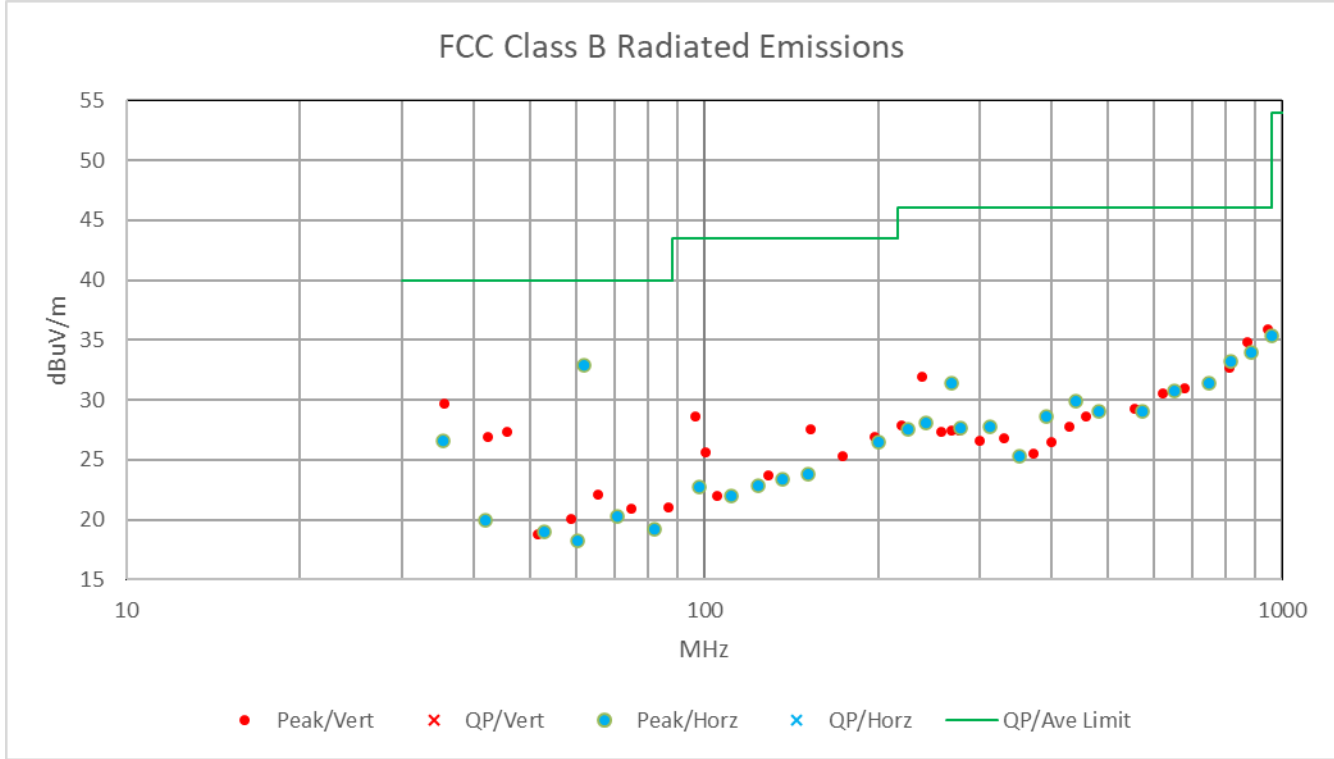
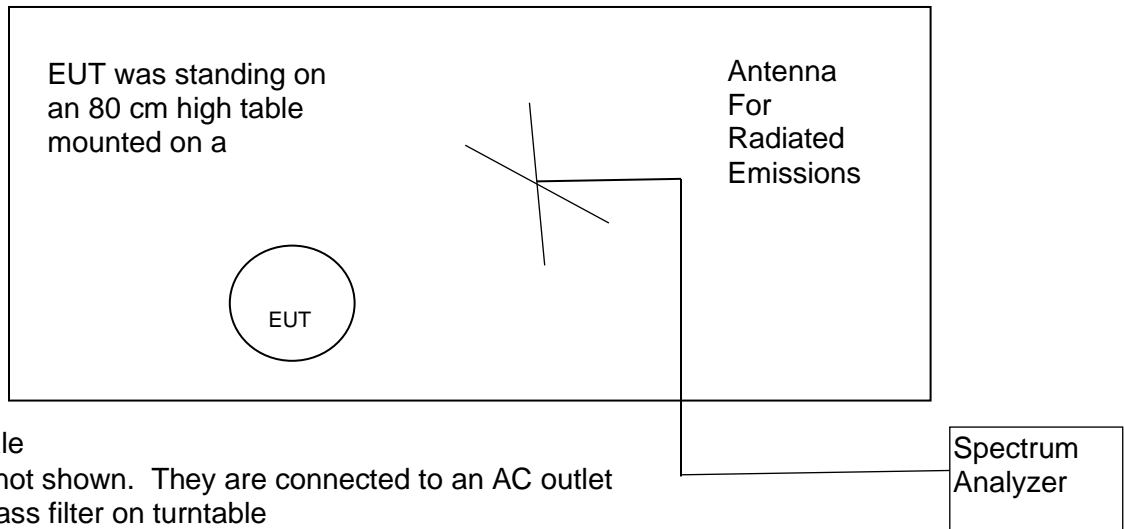


Figure 2. Drawing of Radiated Emissions Test Setup

Chamber E, anechoic



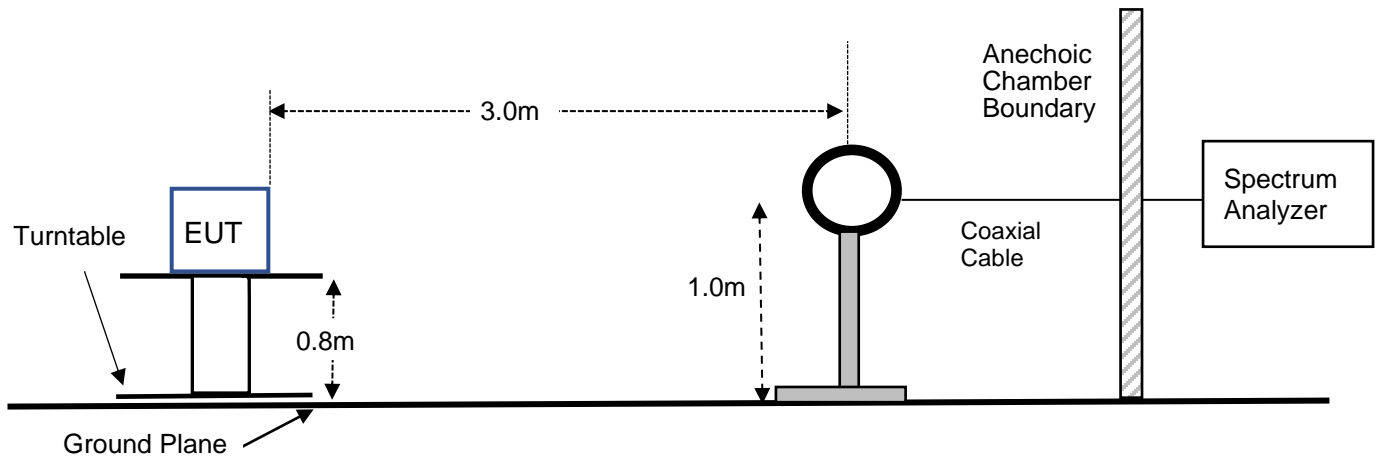
Notes:

- Not to Scale
- AC cords not shown. They are connected to an AC outlet with low-pass filter on turntable

Frequency Range	Receive Antenna	Spectrum Analyzer
0.01 to 30 MHz	ANT-53	REC-21
30 to 200 MHz	ANT-80	REC-21
200 to 1000 MHz	ANT-68	REC-21

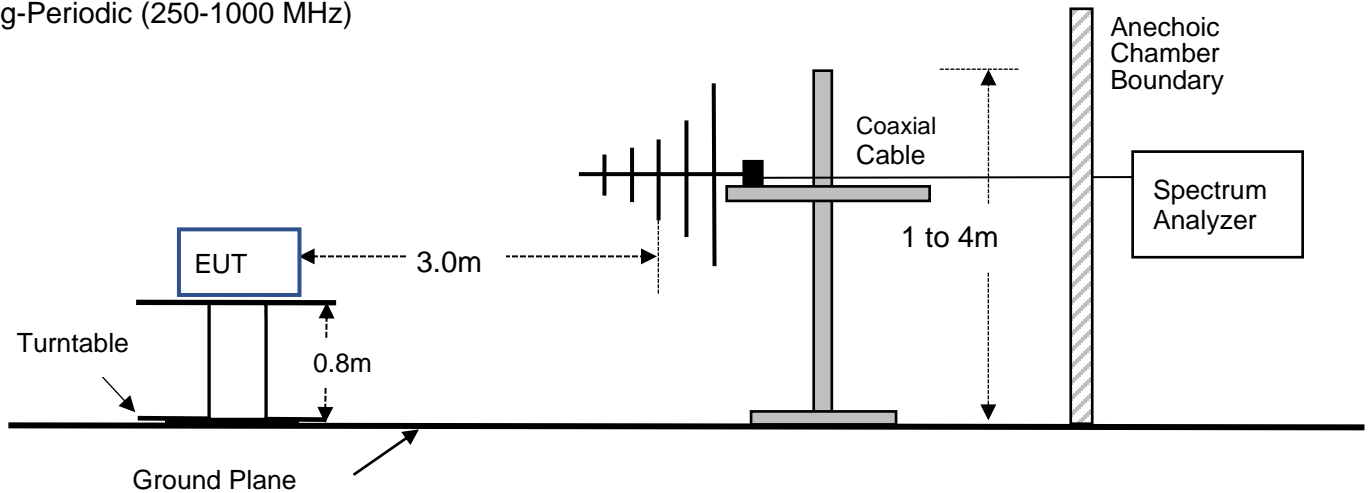


Radiated Emissions Test Setup for Frequencies Below 30MHz (Side View)



Radiated Emissions Test Setup for Frequencies from 30MHz to 1000MHz (Side View)

Biconical antenna (30-250 MHz)
 Log-Periodic (250-1000 MHz)



11.3 Magnetic Field Measurements and Decay Factor Calculations

Radiated emission measurements are performed with an EMCO shielded loop antenna. The antenna was rotated in order to find the maximize readings.

The distance correction factor is calculated as follows:

The distance factor in (dB) = $DE \cdot 20 \cdot \log(TD/SD)$
 Where: DE = Decay Exponent (2.0 is used for this)
 TD = Test distance in meters. This is 3 meters
 SD = Specification Distance in meters

From 9 kHz to 490 kHz, the Specification Distance is 300m therefore the distance factor is $2 \cdot 20 \cdot \log(300/3) = 80$ dB.

From 490 kHz to 30 MHz, the Specification Distance is 30m therefore the distance factor is $2 \cdot 20 \cdot \log(30/3) = 40$ dB.



11.3.1 Magnetic Field Radiated Emissions Results (0.009 to 30 MHz)

Test Date	11/01/2023
EUT	Model: LB125; Serial Number: WEO1000011
Test Distance	3 Meters
Specification	FCC 15 & RSS-GEN
Notes	Test were performed with a 0.8 meter table
Tested by	Chris D'Alessio

Freq (kHz)	Peak reading dBuV	Loop Ant Factor dB/m	Test Dist. (m)	Decay exp	Cable Loss dB	FCC Distance factor dB	Field Strength dBuV/m	RSS & FCC Limit dBuV/m	Margin under limit	Notes
125.0	63.9	18.9	3.0	2.0	0.1	-80.0	2.9	25.7	22.8	
250.0	36.7	18.6	3.0	2.0	0.1	-80.0	-24.6	19.6	44.2	
375.0	36.1	18.4	3.0	2.0	0.1	-80.0	-25.4	16.1	41.5	
500.0	35.5	18.3	3.0	2.0	0.1	-40.0	13.9	33.6	19.7	
Column numbers										
1	2	3	4	5	6	7	8	9	10	

- Column #1. Frequency of Tested Emission.
- Column #2. Uncorrected readings from the spectrum analyzer (Peak)
- Column #3. Antenna factor converts dBuV to dBuV/m
- Column #4. Test Distance in meters
- Column #5. Decay Exponent
- Column #6. Cable Loss
- Column #7. Distance factor (dB) = (Decay Exponent)*20*Log(Test Distance/Specification Distance)
- Column #8. Total field strength. This = Columns 2 + 3 + 6 + 7
- Column #9. FCC and Canada Limit in dBuV/m
- Column #10. This is the margin under the limit for that row.

All limits are general limits of FCC 15.209 or the RSS-Gen.
 The emissions were scanned from 10 kHz to 30 MHz.

No other emissions were detected from 10 kHz to 30 MHz within 10 dB of the 15.209 or the RSS-GEN limits.

Judgement: Passed by at least 10 dB.

11.3.2 Field Strength at 3 meters

This is the field Strength results with no distance correction factor. This is used for ISED forms and RF exposure calculations.

Test Dist. (m)	Freq (kHz)	Peak reading dBuV	Loop Ant Factor dB/m	Cable Loss dB	Field Strength dBuV/m	Notes
3	125	63.9	18.9	0.1	82.9	Max Field Strength at 3 meters



11.4 Occupied Bandwidth Data

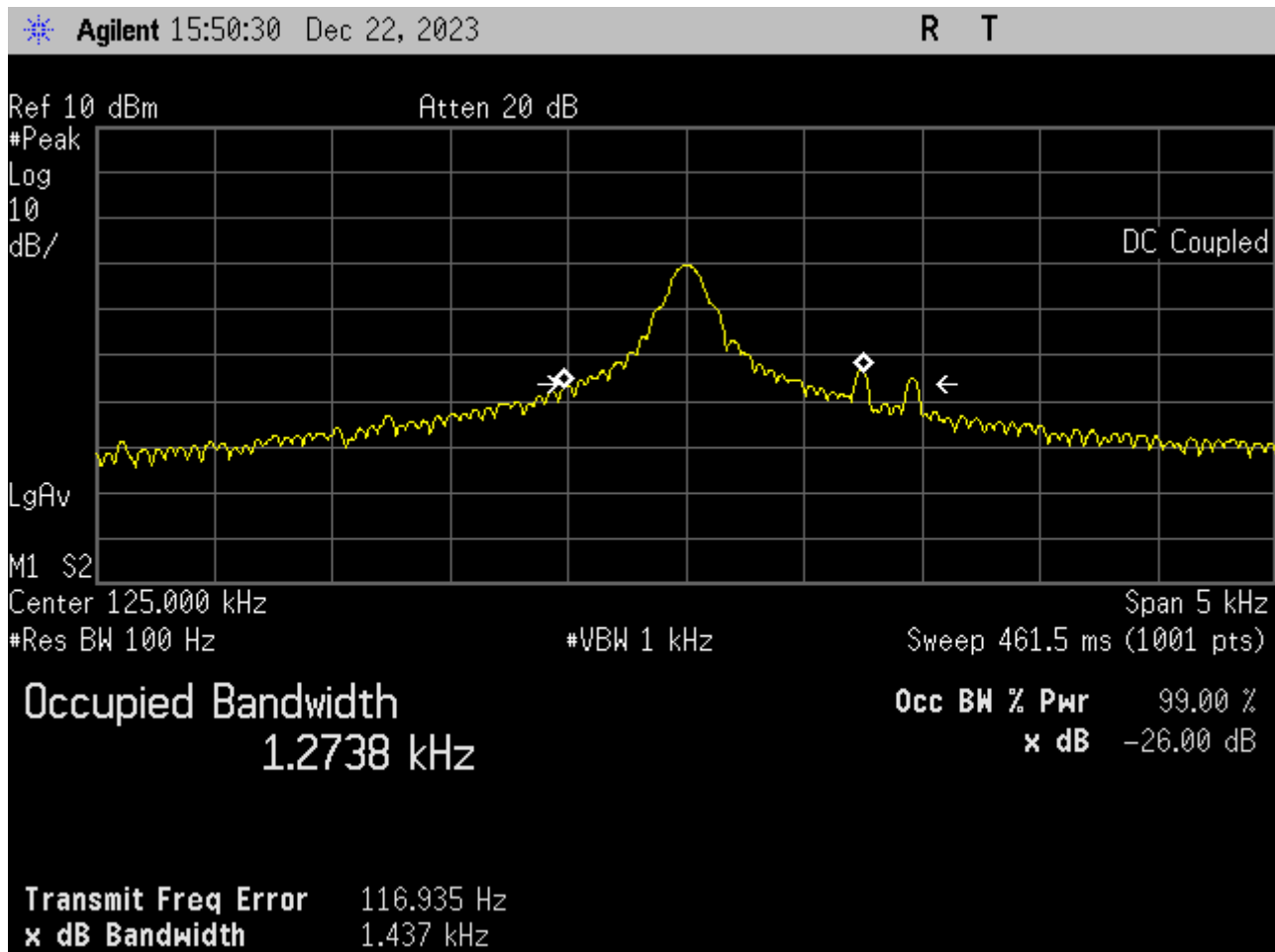
The occupied bandwidth of the RF output was measured using a spectrum analyzer using a peak detector function and a narrow resolution bandwidth. A broadband antenna was used to receive the modulated signal. The spectrum analyzer was set to the MAX HOLD mode to record the worst case of the modulation. The spectrum analyzer display was digitized and plotted. The plots of the occupied bandwidth for the EUT are supplied on the following page.

Model	LB125	Specification	FCC Part 15 RSS-210
Serial Number	WEO1000011	Test Date	10/25/2023
Test Personnel	Joseph Strzelecki	Equipment	REC-44

	99% OBW
EUT	125 kHz signal
LB125	1.278 kHz

Judgement: Pass

Figure 3. Occupied Bandwidth Plots





12.0 MEASUREMENT INSTRUMENTATION UNCERTAINTY

The uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2 in accordance with CISPR 16-4-2.

Measurement	Uncertainty
Conducted Emissions, LISN method, 150 kHz to 30 MHz	2.7 dB
Radiated Emissions, H-field, 3 meters, 9 kHz to 30 MHz	2.7 dB
Radiated Emissions, E-field, 3 meters, 30 to 200 MHz	3.3 dB
Radiated Emissions, E-field, 3 meters, 200 to 1000 MHz	4.9 dB
99% Occupied Bandwidth using REC-44	1% of frequency span
Temperature THM-03	0.6 Deg C

13.0 REVISION HISTORY

RP-9911 Revisions:			
Rev.	Affected Sections	Description	Rationale
1	Cover, 1.0, 2.0 & 3.1	Revised Description of EUT	Wrong nomenclature