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FCC Part 15, Subpart C, Section 15.247
Test Report

On

Ambulatory Electrograph (ECG) Monitor System
Gateway
FCC ID: 2AXAK-100005

Customer Name:	LifeLens Technologies
Customer P.O:	RETL0002
Date of Report Rev.:	October 12, 2020
Test Report No:	R-3287P-3 Rev. A
Test Start Date:	August 17, 2020
Test Finish Date:	August 25, 2020
Test Technicians:	S. Charles, M. Nowak
Approved By:	D. Rybicki
Report Rev. Prepared By:	B. Bolton

Table of Contents

Revision History 3
Technical Information 4
Certification and Signatures 6
Requirements and Test Results 7
FCC Section 15.247(a)(2), Occupied Bandwidth 7
FCC Sections 15.247(b)(3), Power Output 7
FCC Section 15.247(d), Antenna Port Conducted Emissions 8
FCC Section 15.247(e), Antenna Port, Power Density 8
FCC Section 15.209(a), Radiated Emission Limits, General Requirements 9
FCC Section 15.207(a), Conducted Limits 9
FCC Section 15.247 (i), RF Exposure Limits 11
Test Setup Drawings 12
Measurement Uncertainty 14
Equipment List 15
Test Data, Occupied Bandwidth 16
Test Data, Power Output 20
Test Data, Antenna Conducted Emissions 24
Test Data, Antenna Conducted Emissions in Restricted Band 31
Test Data, Antenna Port, Power Density 49
Test Data, Radiated Emissions Limits, General Requirements 53
Test Data, Conducted Limits 56

Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document.

Revision	Date	Pages Affected
-	September 25, 2020	Original Release
A	October 12, 2020	Global • Report Number Changed from R-3287P-3 to R-3287P-3 Rev. A • Date of Report Changed to Date of Report Rev. • Report Prepared by Changed to Report Rev. Prepared by Page 11 • RF Exposure Calculations Updated Page 12, 13, 14 • Added Test Setup Drawings Figure 1, Figure 2, and Figure 3 Page 14 • Added Measurement Uncertainty

Technical Information

Report Number:	R-3287P-3
Customer:	LifeLens Technologies
Address:	1 Ivyland Blvd, Suite 115
	Ivyland, PA 18974
Test Sample:	Ambulatory Electrograph (ECG) Monitor System, Gateway
Part Number:	LL-ECG-RECH-PR01
FCC ID:	2AXAK-100005
Type:	Bluetooth Low Energy (BLE)
Power Requirements:	120VAC, 60Hz (charging), 3.6VDC Lithium Ion (Standalone)
Frequency of Operation:	2402 to 2480 MHz
Equipment Class:	DTS
Equipment Use:	Mobile

Test Specification:
FCC Rules and Regulations Part 15, Subpart C, Section 15.247

Test Procedure:
ANSI C63.4:2014
ANSI C63.10:2013

Test Facility:
Retlif Testing Laboratories
3131 Detwiler Road
Harleysville, PA 19438

FCC Accreditation Designation Number: US2321

Tests Performed

The test methods performed on the Ambulatory Electrograph (ECG) Monitor System, Gateway are shown in Table 1 below:

Table 1 – Test Methods

FCC Part 15, Subpart C	Test Method
15.247(a)(2)	Occupied Bandwidth
15.247(b)(3)	Power Output
15.247(d)	Antenna Port, Conducted Emissions
15.247(d)	Out of Band / Band Edge Radiated Emissions, 9kHz to 25 GHz
15.247(e)	Antenna Port, Power Density
15.207(a)	Conducted Limits, 150 kHz to 30 MHz
15.209(a)	Radiated Emissions Limits, 30 MHz to 25 GHz

Certification and Signatures

We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.

Arik L. Warwick
EMI Test Engineer

David M. Rybicki
Laboratory Supervisor

Non-Warranty Provision
The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

Non-Endorsement
This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation, endorsement or certification of the product or material tested. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

Requirements and Test Results

FCC Section 15.247(a)(2), Occupied Bandwidth
Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz
Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands. The minimum 6 dB bandwidths shall be at least 500 kHz.

- Results:
  The EUT complies with the 6 dB bandwidth requirement. The minimum measured 6 dB bandwidth was 733.47 kHz.

FCC Sections 15.247(b)(3), Power Output
Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz
The maximum peak conducted output power of the intentional radiator shall not exceed the following:

For systems using digital modulation in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antenna and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antenna and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

- Results:
  The EUT complies with the Power Output requirement. The device operates in the 2400 – 2483.5 MHz band. The maximum peak output power was measured and was found to be 3.288 mW.

Requirements and Test Results (con't)

FCC Section 15.247(d), Antenna Port Conducted Emissions
Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) must also comply with the radiated emissions limits specified in Section 15.209(a) (see Section 15.205(c)).

- Results:
  In any 100 kHz bandwidth outside the frequency band in which the Spread spectrum intentional radiator was operating, the radio frequency power that was produced by the intentional radiator was at least 20 dB below that in the 100 kHz bandwidth within the band that contained the highest level of the desired power. All emissions, which fell within the restricted bands specified in 15.205(a), were measured and found to be in compliance with the limits specified in 15.209(a).

FCC Section 15.247(e), Antenna Port, Power Density
Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

- Results:
  The power spectral density conducted from the intentional radiator to the antenna was not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density was determined in accordance with Section 15.247(b)(3).

Requirements and Test Results (con't)

FCC Section 15.209(a), Radiated Emission Limits, General Requirements

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in Table 2.

Table 2 - Radiated Emission Limits

Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 to 88	100	3
88 to 216	150	3
216 to 960	200	3
Above 960	500	3

- Results:
  The field strength of spurious radiated emissions did not exceed the limits specified in Table 2.

FCC Section 15.207(a), Conducted Limits

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits shown in Table 3, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of the paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Table 3 - Conducted Emission Limits

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
*Decreases due to logarithm of the frequency		

- Results:
  The conducted emissions observed did not exceed the limits specified in Table 3.

Requirements and Test Results (con't)

Field Strength Calculation/Conversion:

The maximized field strength of the emission was obtained as follows:

$C_R = M_R + C_F$

Where:
C_R = Corrected Reading in dBµV/m
M_R = Uncorrected Meter Reading in dBµV
C_F = Correction Factor in dB (Antenna Factor, Pre-amp + Cable Loss)

Example:

M_R = 15.35 dBµV
C_F = 16.85 dB
C_R = 15.35 dBuV + 16.85 = 32.2 dBµV/m

dBµV/m is converted to uV/M for comparison to the specified limit using the formula:

invLog dBµV/M/20

32.2 dBuV/m = 40.74 uV/m

RF Power Conversion:

Power readings in dBm may be converted to mW using the formula:

InvLog dBm/10

Example: 20dBm = 100mW

Spectrum Analyzer Desensitization Considerations

Due to the nature of the emissions being measured, care was taken to ensure that the resolution bandwidth of the spectrum analyzer was adequate to provide accurate measurements. FCC specified bandwidths of 100 kHz and 1 MHz were utilized below and above 1 GHz, respectively.

Requirements and Test Results (con't)

FCC Section 15.247 (i), RF Exposure Limits

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g SAR test exclusion thresholds were determined by the following:

$$\frac{\text{Max Power of Channel, including tuneup tolerance (mW)}}{\text{Min Separation distance (mm)}} \times \sqrt{f_{GHz}}$$

- When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 4.1 f) of KDB 447498 D01 General RF Exposure Guidance is applied to determine SAR test exclusion.
- For proximity to head and body devices (1-g SAR) the test exclusion threshold is ≤ 3.0.

Transmit Frequency	**2.402 GHz**	**2.426 GHz**	**2.480 GHz**
Conducted Power	3.116 mW	3.288 mW	3.116 mW
Rounded Power	4 mW	4 mW	4 mW
Minimum Separation	5 mm	5 mm	5 mm

2.402 GHz

$$Test\ Exclusion\ Threshold = \frac{4\ mW}{5\ mm} \times \sqrt{2.402}$$

Test Exclusion Threshold = 1.24

Result: 1.24 ≤ 3.0 (Pass)

2.426 GHz

$$Test\ Exclusion\ Threshold = \frac{4\ mW}{5\ mm} \times \sqrt{2.426}$$

Test Exclusion Threshold = 1.25

Result: 1.25 ≤ 3.0 (Pass)

2.480 GHz

$$Test\ Exclusion\ Threshold = \frac{4\ mW}{5\ mm} \times \sqrt{2.480}$$

Test Exclusion Threshold = 1.26

Result: 1.26 ≤ 3.0 (Pass)

Test Setup Drawings

Figure 1 – 15.247 (a),(b),(d), and (e)

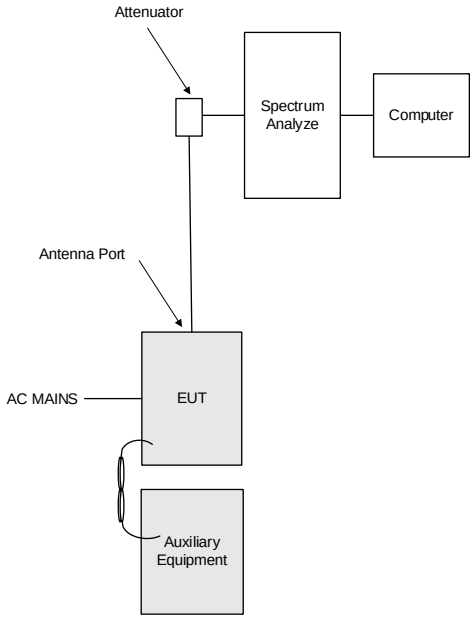


Figure 2 – 15.207 (a)

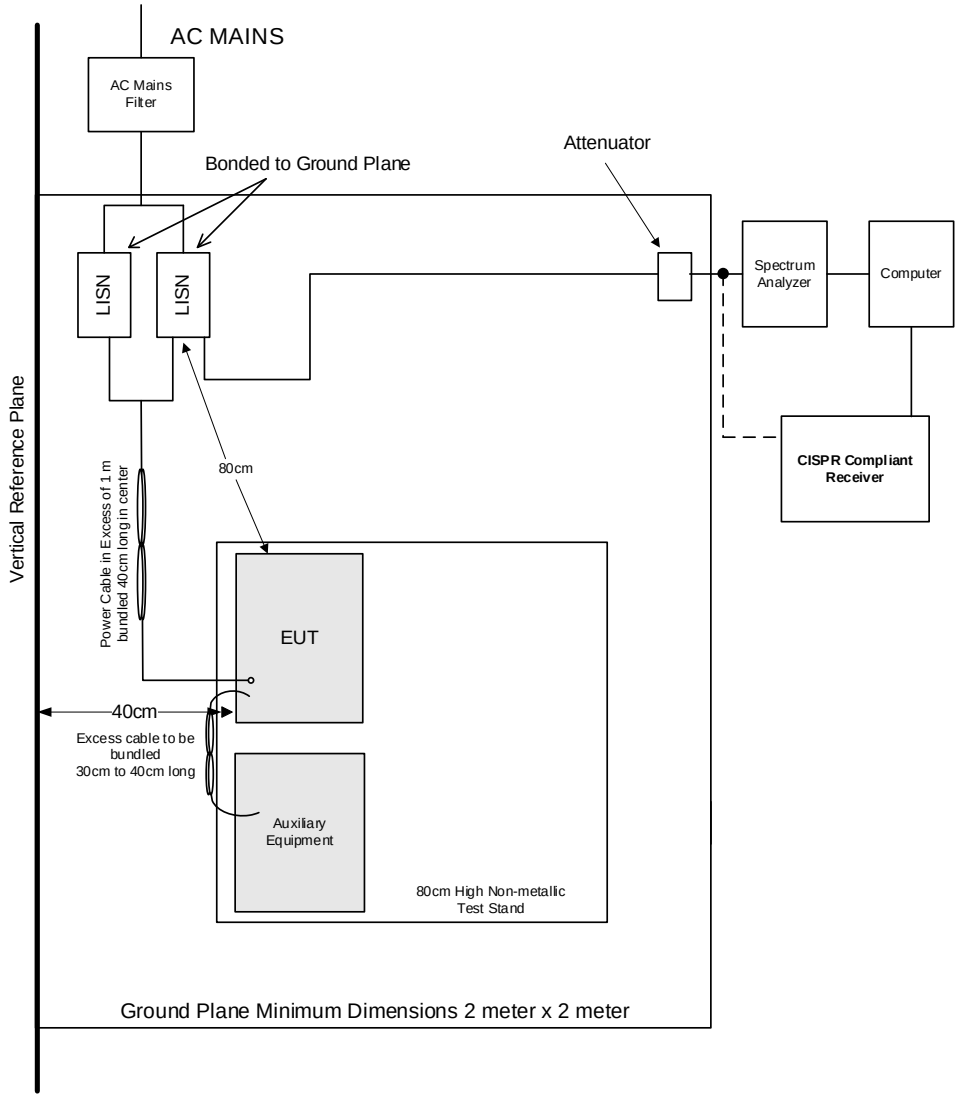
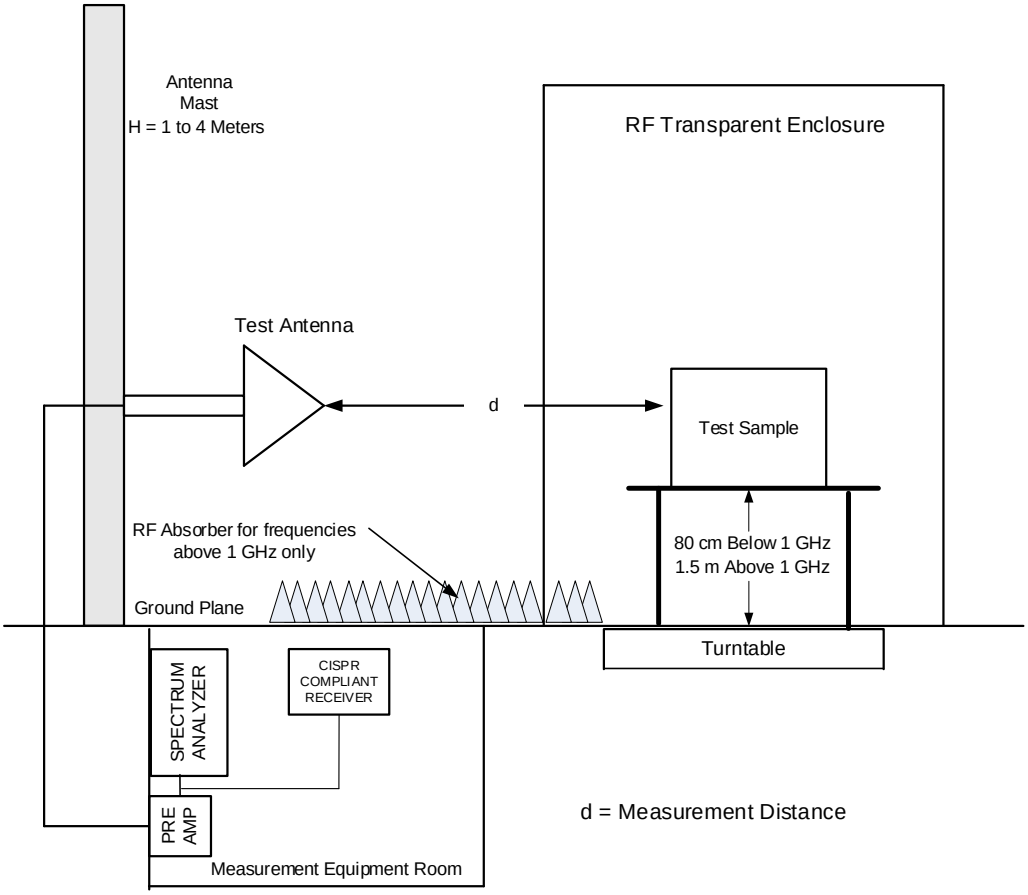


Figure 3 – 15.247 (d), 15.209(a)



Measurement Uncertainty

In accordance with ISO/IEC 17025, Retlif Testing Laboratories has produced an estimate of the uncertainty of its measurements using accepted methods of analysis, through the production and application of suitable uncertainty of measurement procedures. For emissions testing, measurement uncertainty has been calculated in order to provide a confidence level of 95% (K=2.0). The results of these calculations are shown in the table below:

Table 4 - Measurement Uncertainty

Test Method	Confidence Level	Probability Distribution	K	Expanded Uncertainty
Conducted Emissions	95 %	Normal	2.00	3.74 dB
Radiated Emissions	95 %	Normal	2.00	6.08 dB
Antenna Port Tests	95 %	Normal	2.00	1.49 dB

Equipment List

FCC Section 15.247(a)(2), Occupied Bandwidth
FCC Section 15.247(b)(3), Power Output
FCC Section 15.247(d), Antenna Port, Conducted Emissions
FCC Section 15.247(e), Antenna Port, Power Density

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
713	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 26.5 GHz	ESIB26	3/19/2020	3/31/2021
8457	GENERAL TECHNICS	COMPUTER, CONTROL		N/A	No Calibration Required	
8619	OMEGA	HYGROMETER	-20 to 70 deg. C, 0-99% RH	OM-73	3/16/2020	3/31/2021

FCC Section 15.247(d), Spurious Radiated Emissions

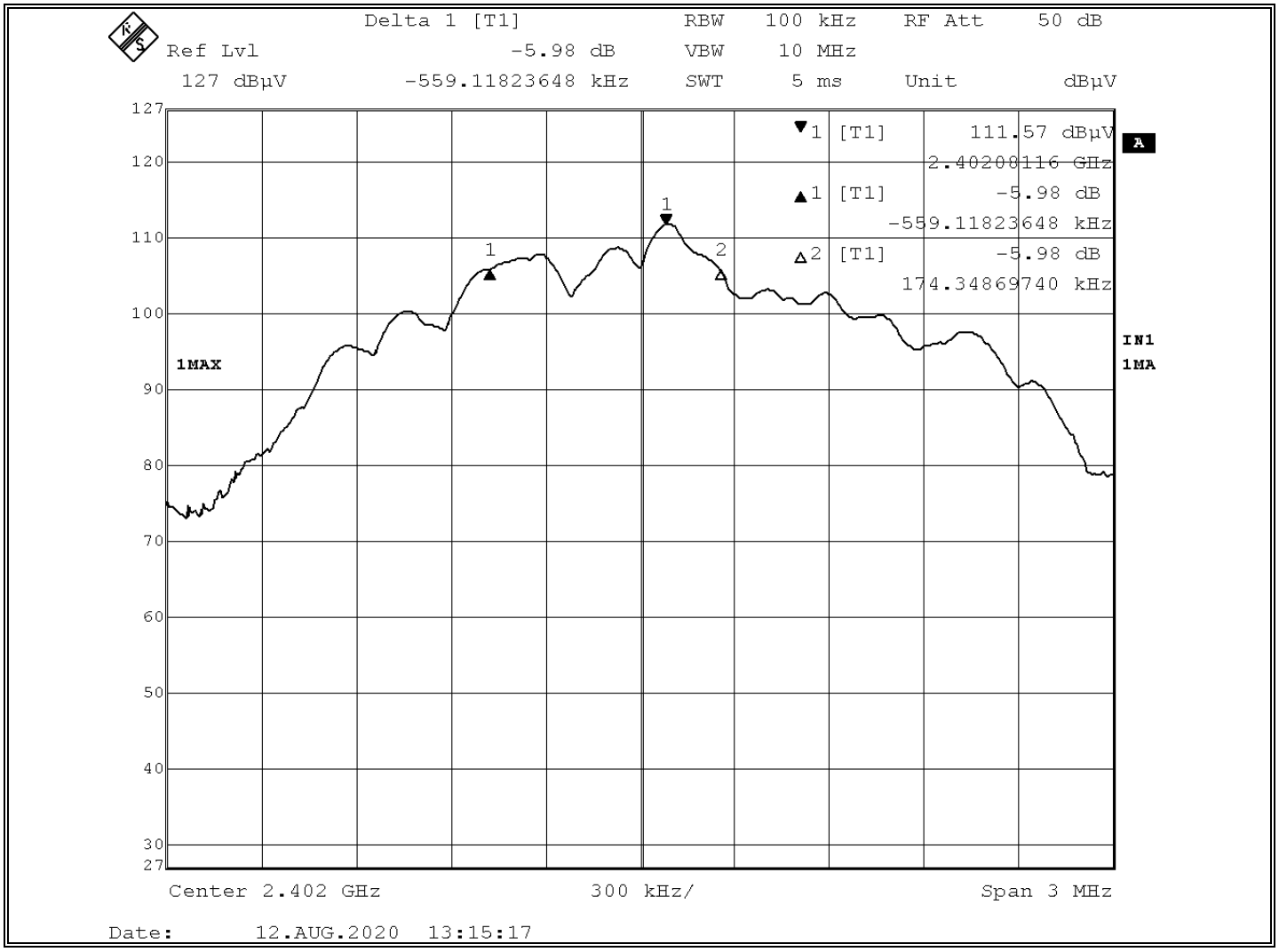
EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
127A	ETS / EMCO	ANTENNA, BICONICAL	20 - 200 MHz	3104	5/6/2019	11/30/2020
8016	ETS / EMCO	ANTENNA, LOG PERIODIC	200 MHz - 1 GHz	3146	9/9/2019	3/31/2021
8080	ROHDE & SCHWARZ	RECEIVER, EMI	20 - 1300 MHz	354-3000.56ESVP	11/5/2019	11/30/2020
8300	RETLIF	OPEN AREA TEST SITE, ATTENUATION	3/10 Meter OATS	RPA	5/7/2020	5/31/2022
8300C	UNKNOWN	CABLE, COAXIAL	3/10 METER	3 METER CABLE	2/5/2020	8/31/2020
8644	AGILENT / HP	ANALYZER, SPECTRUM	100 Hz - 22 GHz	85662A	9/23/2019	9/30/2020
8644A	AGILENT / HP	ANALYZER, SPECTRUM	100 Hz - 22.5 GHz	8566B	9/23/2019	9/30/2020
8644B	AGILENT / HP	ANALYZER, RF PRESELECTOR	20 Hz - 2 GHz	85685A	9/23/2019	9/30/2020
8668	DIGI-SENSE	HYGROMETER	0 - 50 deg. c, 10 - 90 % RH	20250-31	3/16/2020	9/30/2020

FCC Section 15.207(a), Conducted Limits

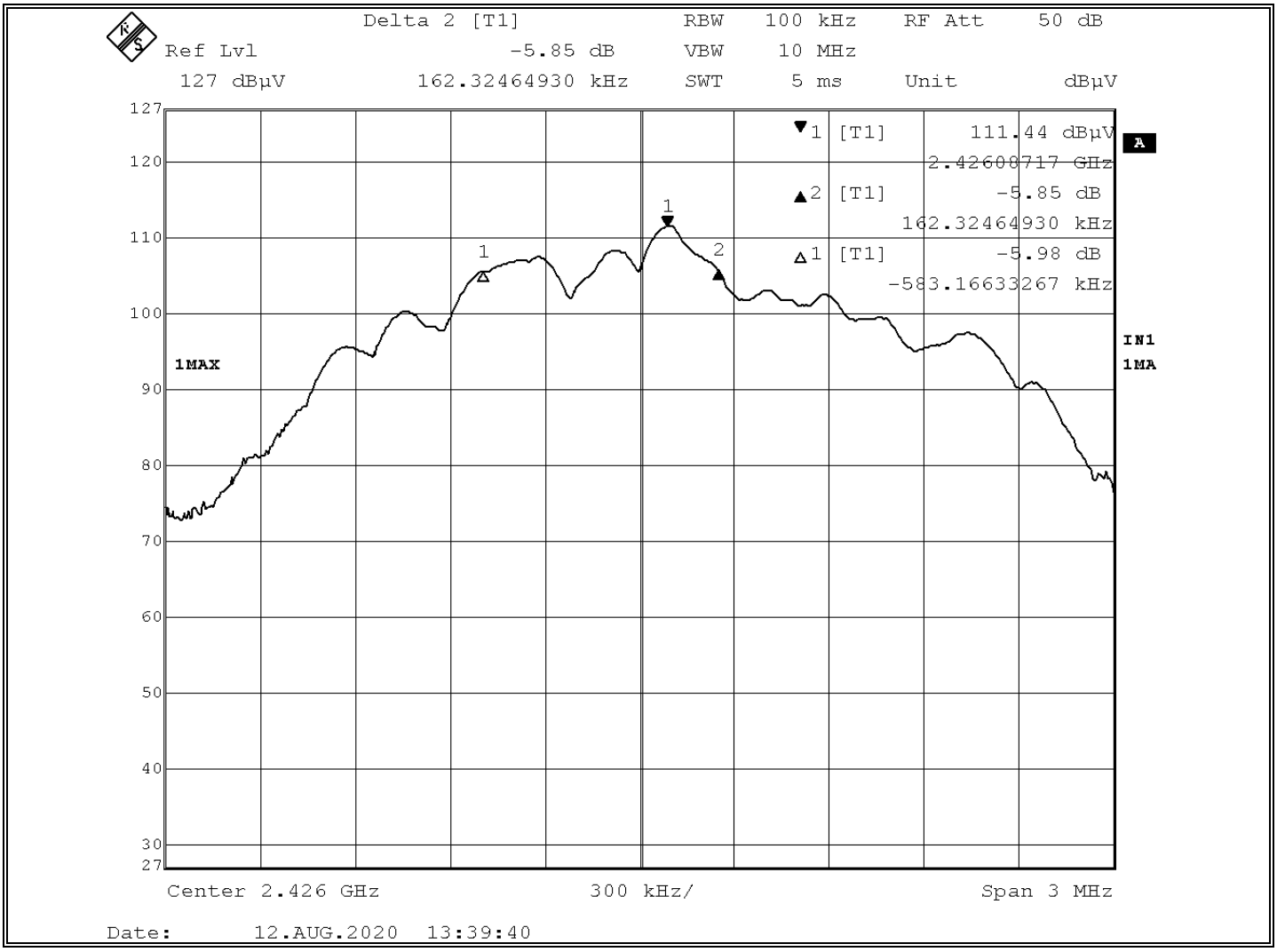
EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
8079	ROHDE & SCHWARZ	RECEIVER, EMI	9 kHz - 30 MHz	ESH3	6/24/2020	6/30/2021
8366A	RETLIF	CABLE, COAXIAL	10 KHz - 1 GHz	20' BNC	5/14/2020	5/31/2021
8557	NARDA MICROWAVE	ATTENUATOR, COAXIAL	11 dB, DC - 11 GHz, 20 W	768-10	6/2/2020	6/30/2021
8619	OMEGA	HYGROMETER	-20 to 70 deg. C, 0-99% RH	OM-73	3/16/2020	3/31/2021
8633	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30	21106-50-BP-25-BNC	6/22/2020	6/30/2021
8634	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30	21106-50-BP-25-BNC	6/22/2020	6/30/2021
8750	RIGOL	ANALYZER, SPECTRUM	9 kHz - 3.2 GHz	DSA832E	5/18/2020	5/31/2021

FCC 15.247(a)(2)
Test Data, Occupied Bandwidth

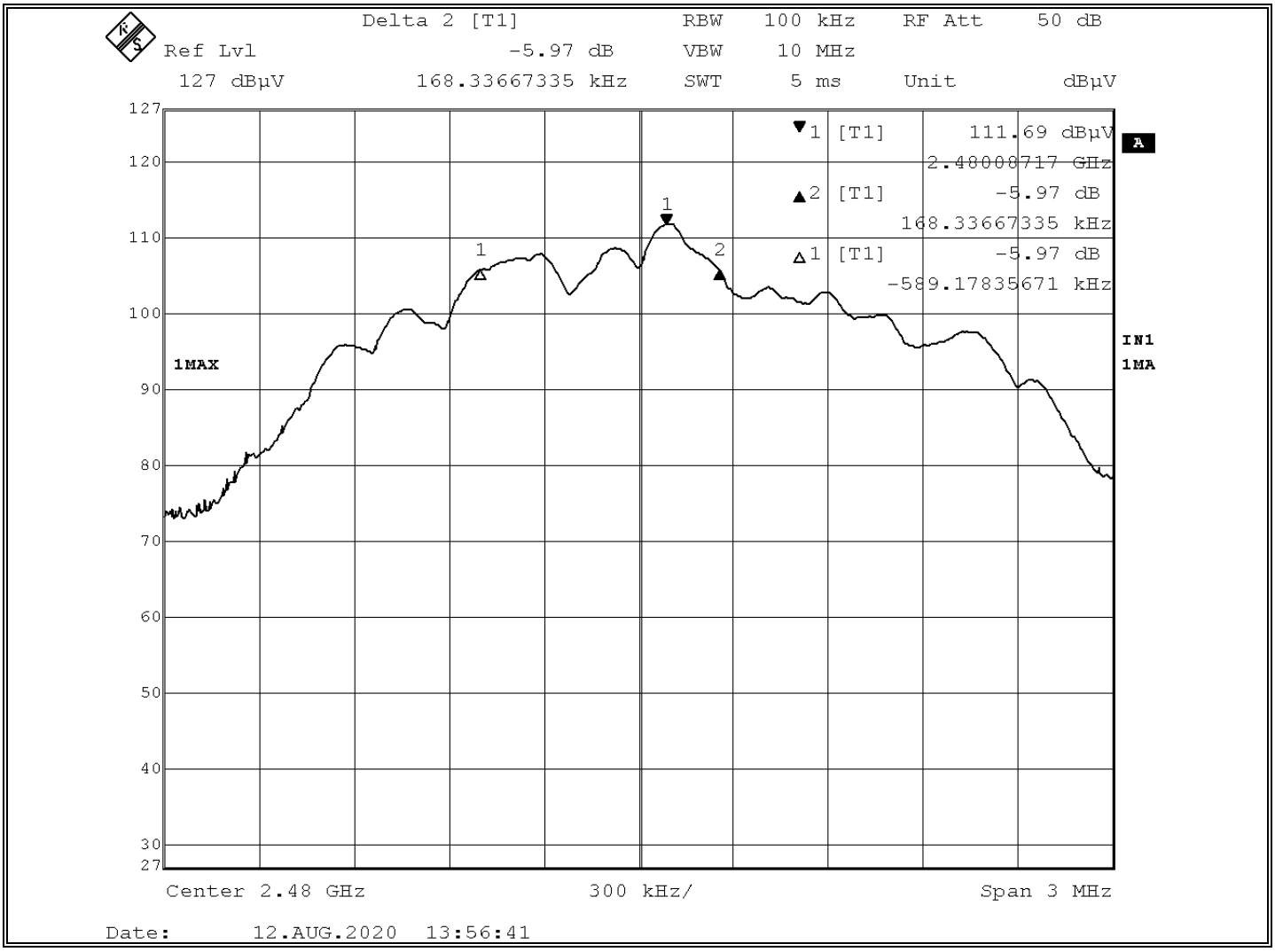
EMISSIONS TEST DATA SHEET	
Test Specification:	FCC Part 15, Subpart C, Section 15.247(a)(2), Occupied Bandwidth
Method:	ANSI C63.10, Section 6.9, Occupied Bandwidth Tests
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Continuously searching for host
Technician:	S. Macdonald
Date(s):	8/12/20
Temperature:	22.8 ºC
Relative Humidity:	47 %
Notes:	Channel 1 6 dB Bandwidth = 733.47 kHz



EMISSIONS TEST DATA SHEET	
Test Specification:	FCC Part 15, Subpart C, Section 15.247(a)(2), Occupied Bandwidth
Method:	ANSI C63.10, Section 6.9, Occupied Bandwidth Tests
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Continuously searching for host
Technician:	S. Macdonald
Date(s):	8/12/20
Temperature:	22.8 ºC
Relative Humidity:	47 %
Notes:	Channel 13 6 dB Bandwidth = 745.49 kHz

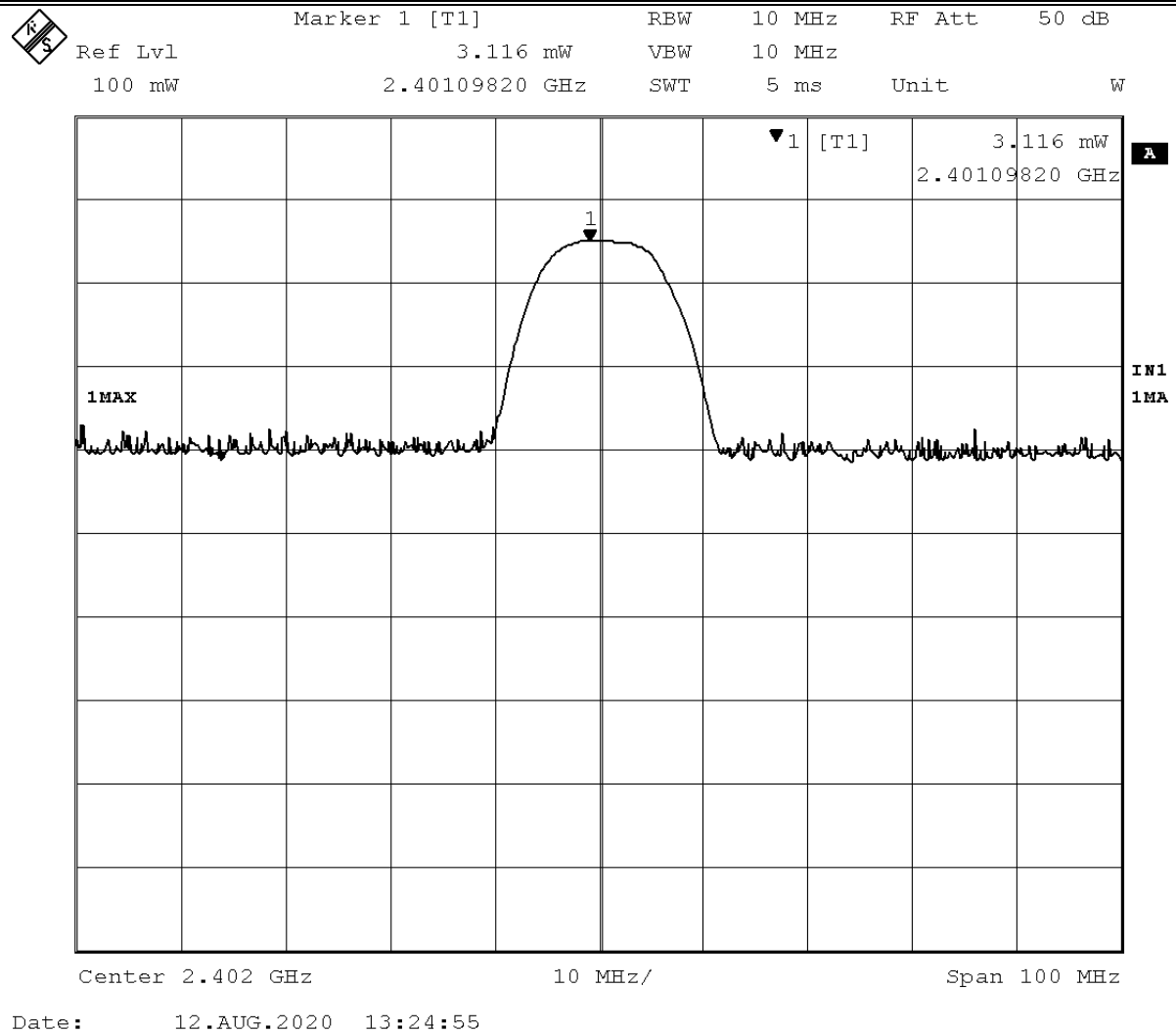


EMISSIONS TEST DATA SHEET	
Test Specification:	FCC Part 15, Subpart C, Section 15.247(a)(2), Occupied Bandwidth
Method:	ANSI C63.10, Section 6.9, Occupied Bandwidth Tests
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Continuously searching for host
Technician:	S. Macdonald
Date(s):	8/12/20
Temperature:	22.8 ºC
Relative Humidity:	47 %
Notes:	Channel 40 6 dB Bandwidth = 757.52 kHz

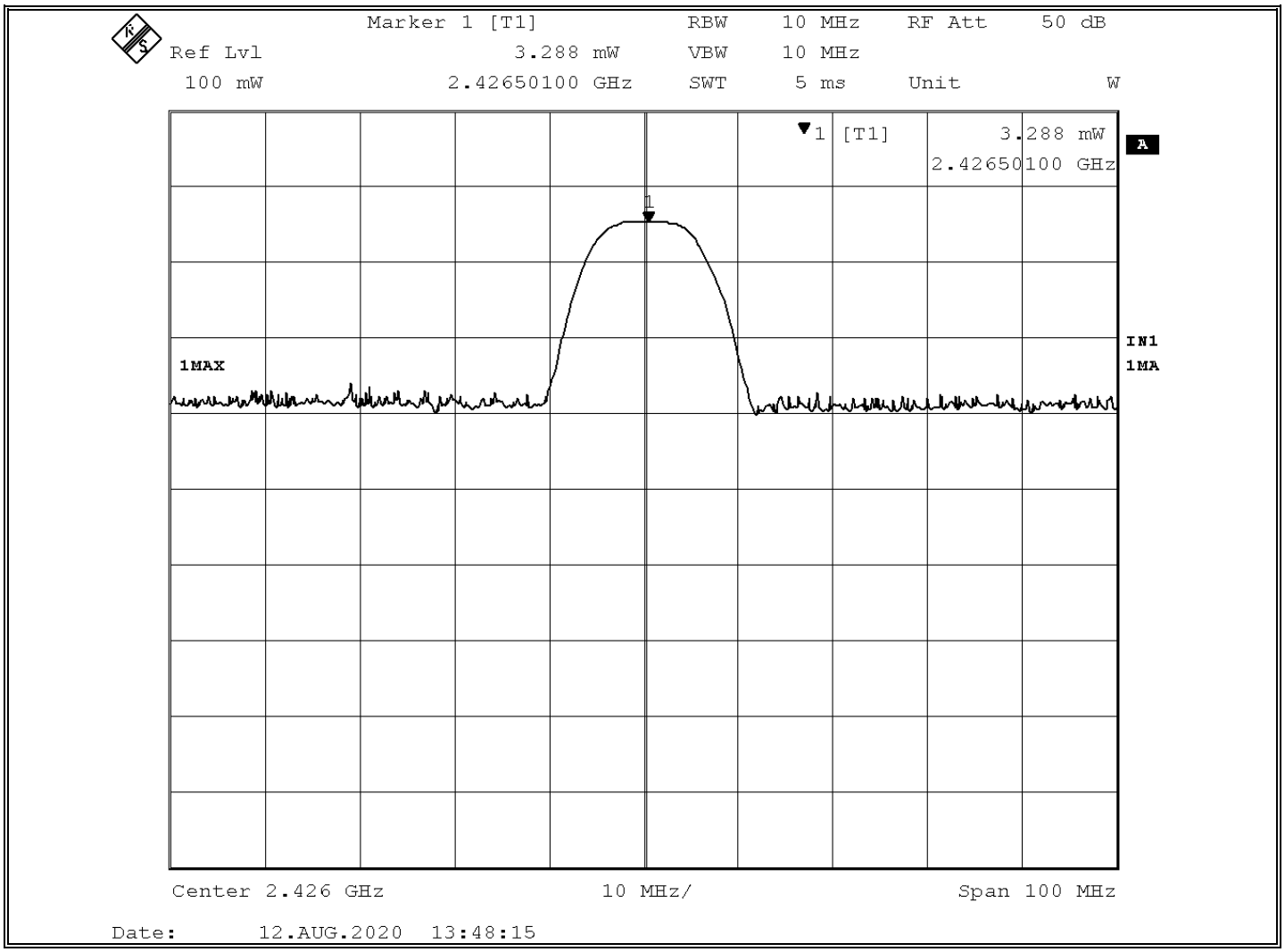


FCC 15.247(b)(3)
Test Data, Power Output

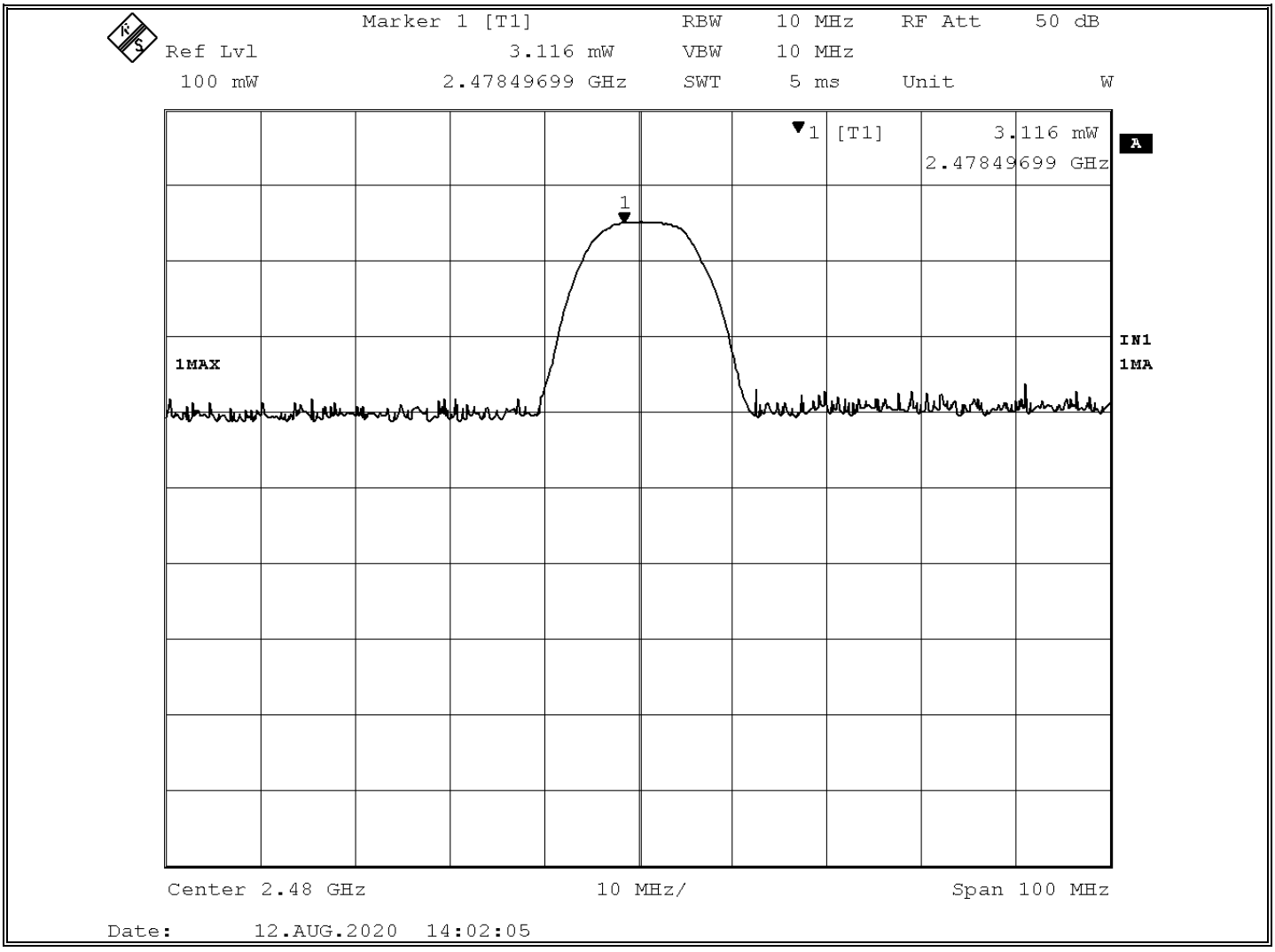
EMISSIONS TEST DATA SHEET	
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (b)(3)
Method:	ANSI C63.10, Section 11.9.1 Maximum peak conducted output power
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Transmitting modulated signal at 2.402 GHz (Channel 1)
Technician:	S. Macdonald
Date(s):	8/12/20
Temperature:	23.2 °C
Relative Humidity:	54.1 %
Notes:	Power Output = 3.116 mW



EMISSIONS TEST DATA SHEET	
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (b)(3)
Method:	ANSI C63.10, Section 11.9.1 Maximum peak conducted output power
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Transmitting modulated signal at 2.426 GHz (Channel 13)
Technician:	S. Macdonald
Date(s):	8/12/20
Temperature:	23.2 °C
Relative Humidity:	54.1 %
Notes:	Power Output = 3.288 mW



EMISSIONS TEST DATA SHEET	
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (b)(3)
Method:	ANSI C63.10, Section 11.9.1 Maximum peak conducted output power
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Transmitting modulated signal at 2.480 GHz (Channel 40)
Technician:	S. Macdonald
Date(s):	8/12/20
Temperature:	23.2 °C
Relative Humidity:	54.1 %
Notes:	Power Output = 3.116 mW

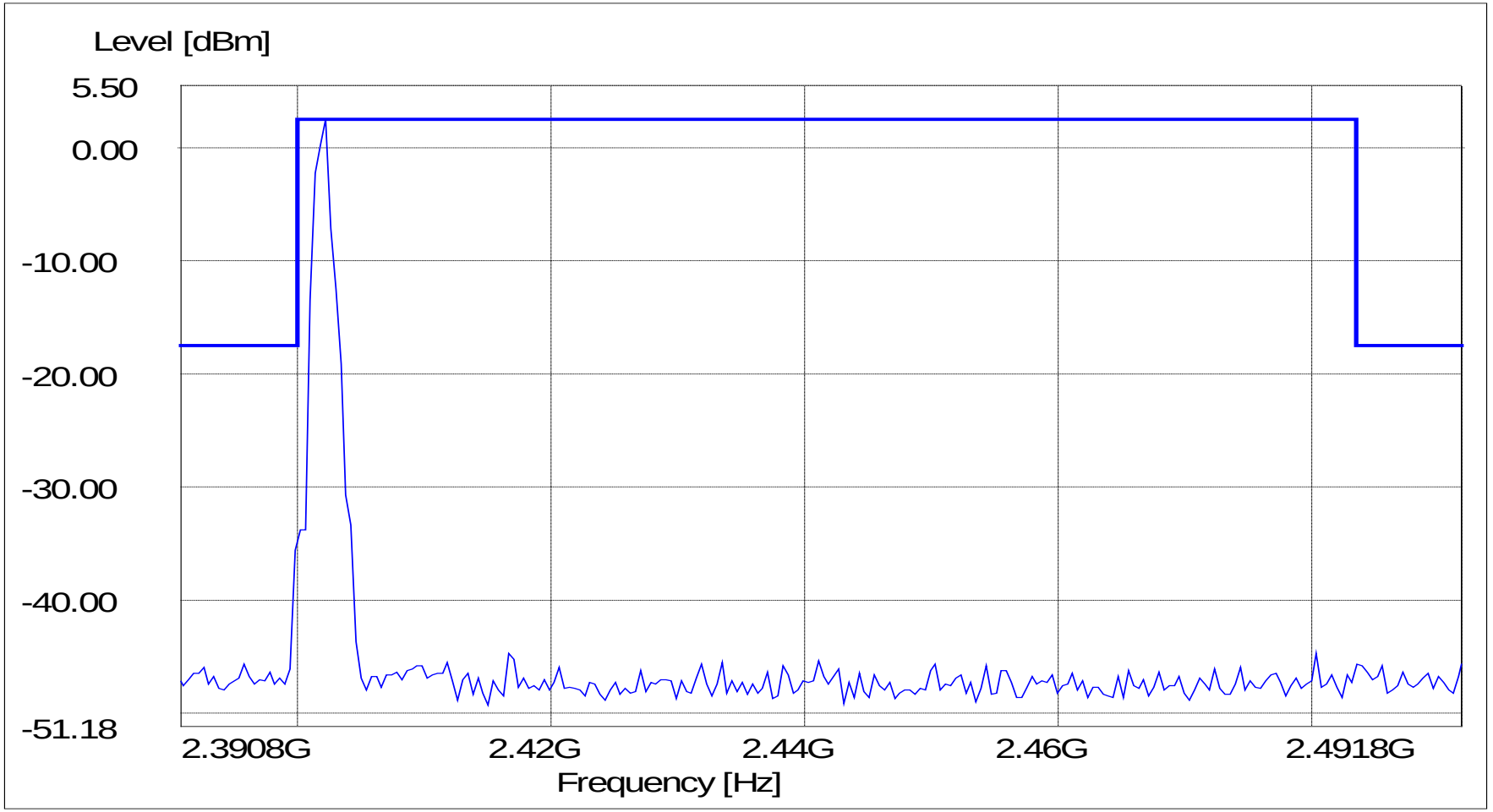


FCC Part 15.247, Paragraph (d)
Test Data, Antenna Conducted Emissions

Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions

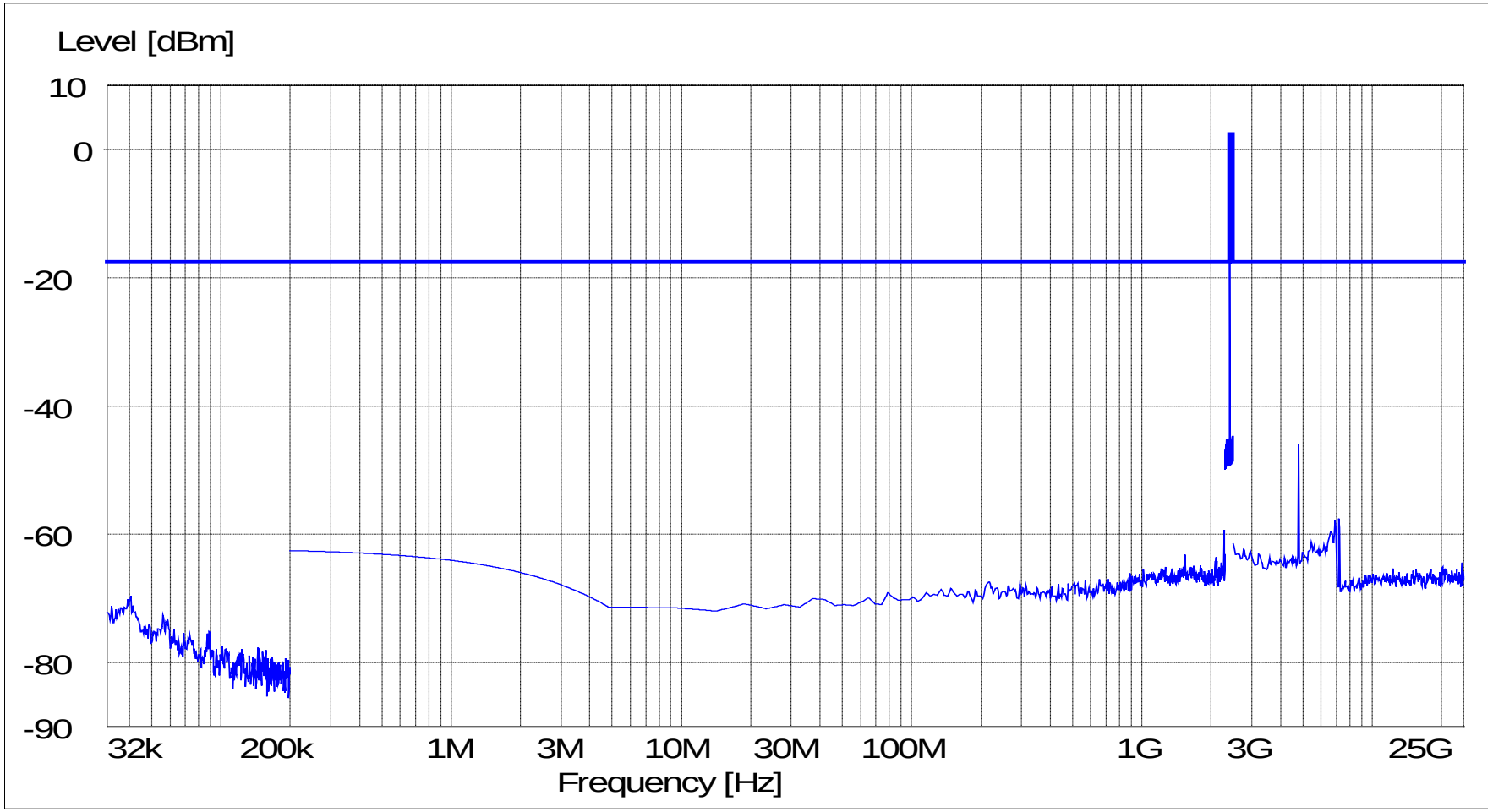
Customer: LifeLens Technologies, LLC
Test Sample: Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation: Continuously transmitting a modulated 2.402 GHz signal
Technician/Date: S. Macdonald / 8/13/20
Port Tested: Antenna
Notes: Zoomed in to see peak level and band edge



Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions

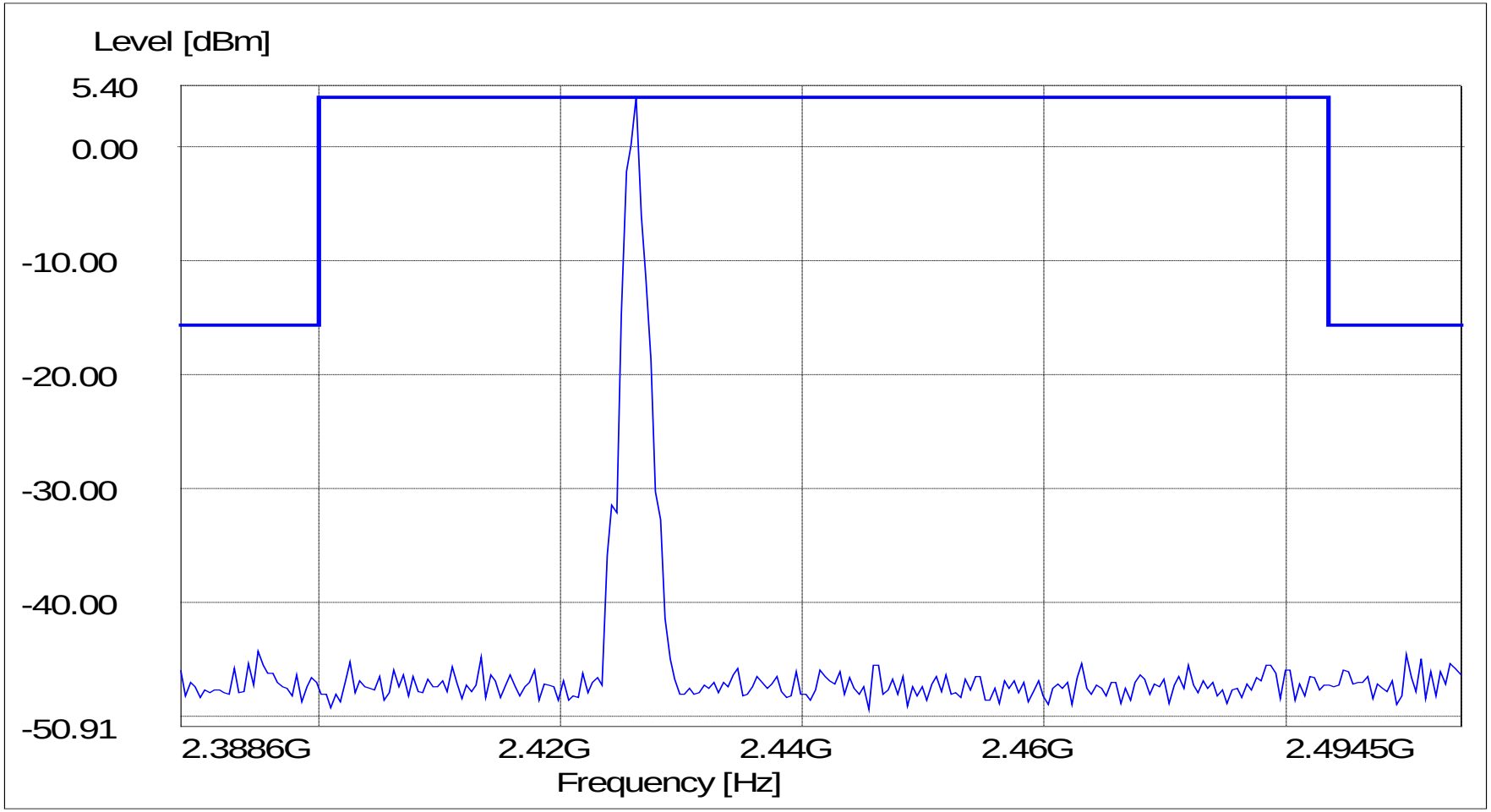
Customer: LifeLens Technologies, LLC
Test Sample: Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation: Continuously transmitting a modulated 2.402 GHz signal
Technician/Date: S. Macdonald / 8/13/20
Port Tested: Antenna
Notes:



Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions

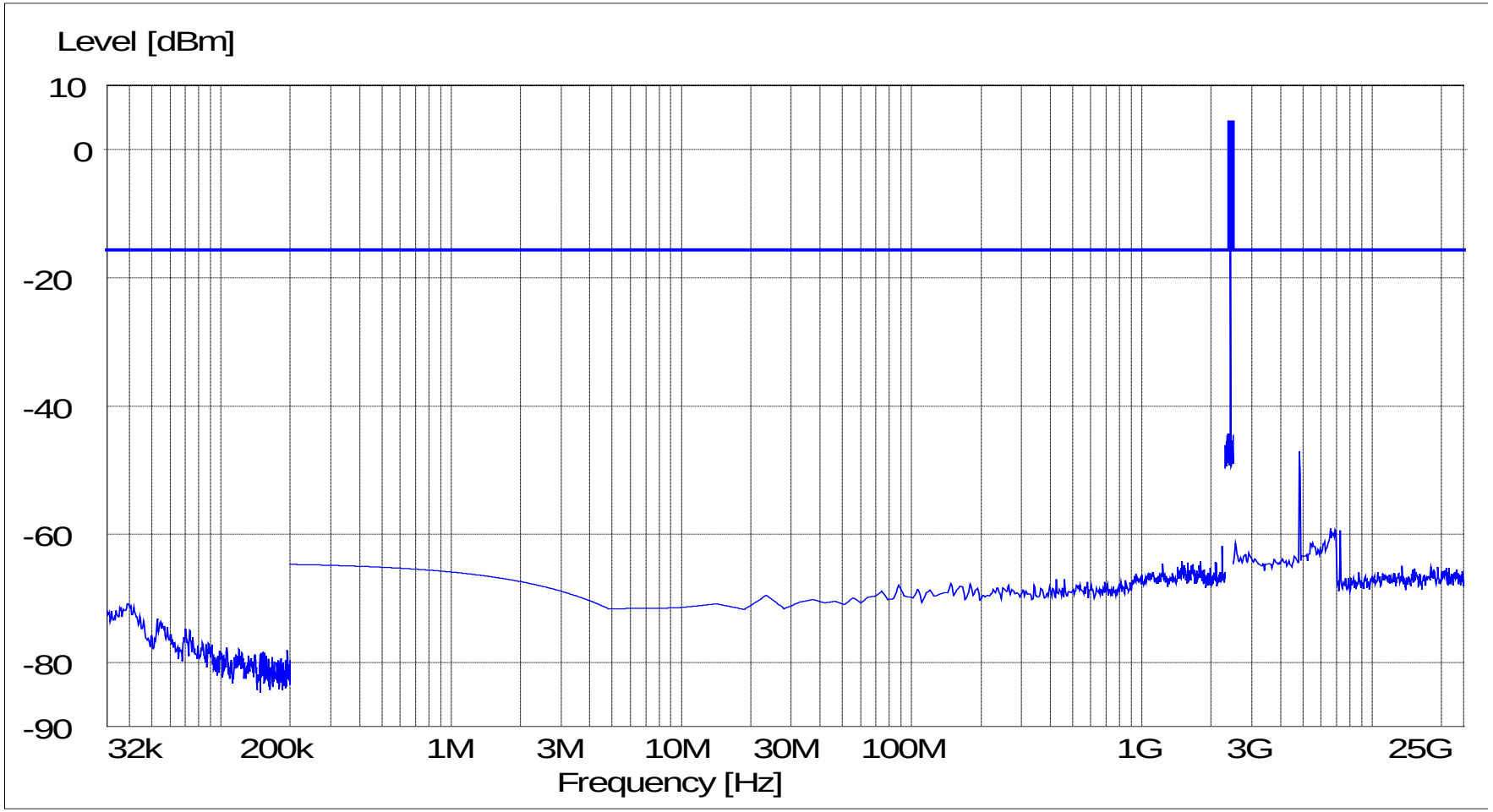
Customer: LifeLens Technologies, LLC
Test Sample: Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation: Continuously transmitting a modulated 2.426 GHz signal
Technician/Date: S. Macdonald / 8/13/20
Port Tested: Antenna
Notes: Zoomed in to see peak level and band edge



Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions

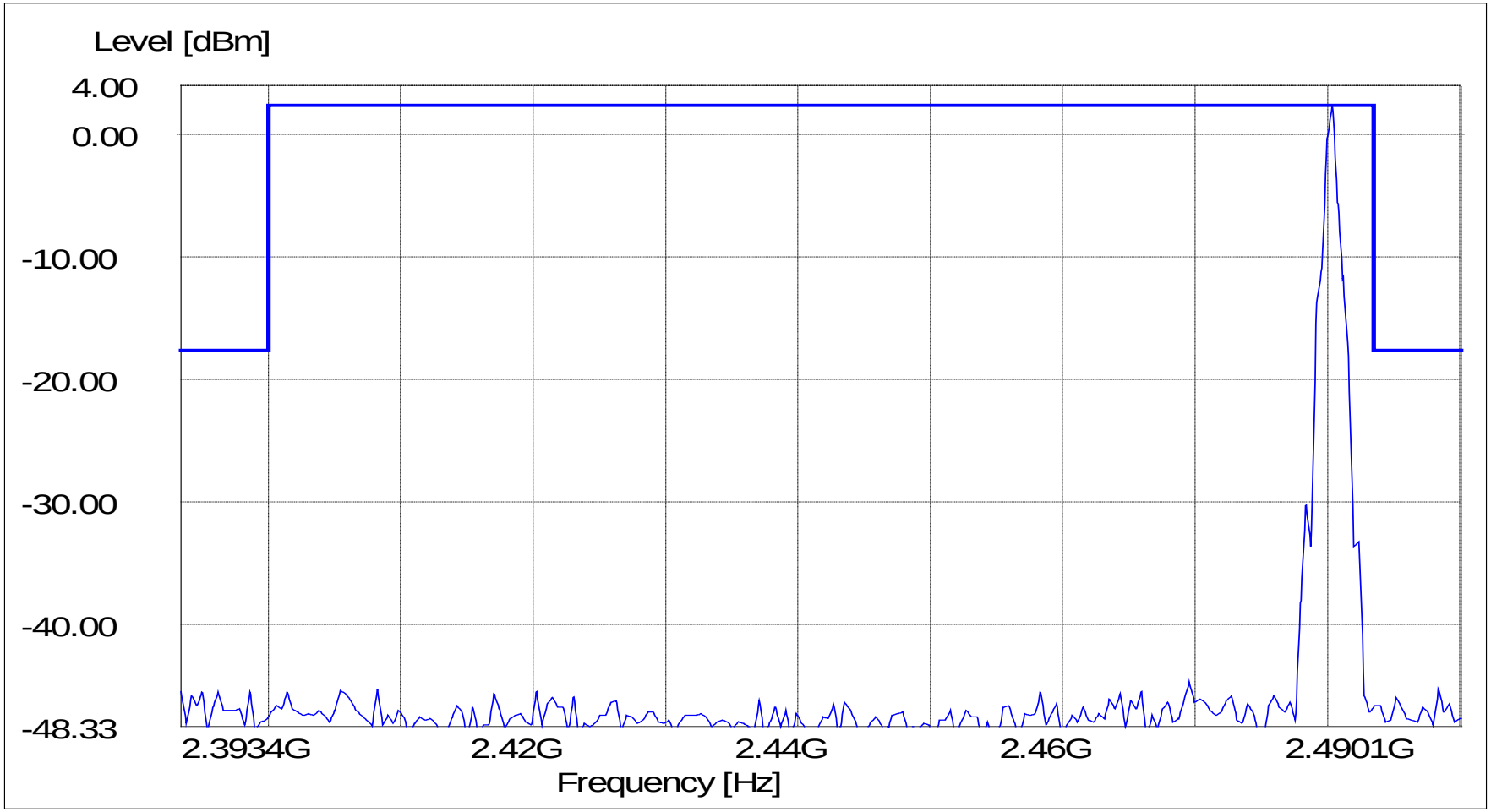
Customer: LifeLens Technologies, LLC
Test Sample: Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation: Continuously transmitting a modulated 2.426 GHz signal
Technician/Date: S. Macdonald / 8/13/20
Port Tested: Antenna
Notes:



Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions

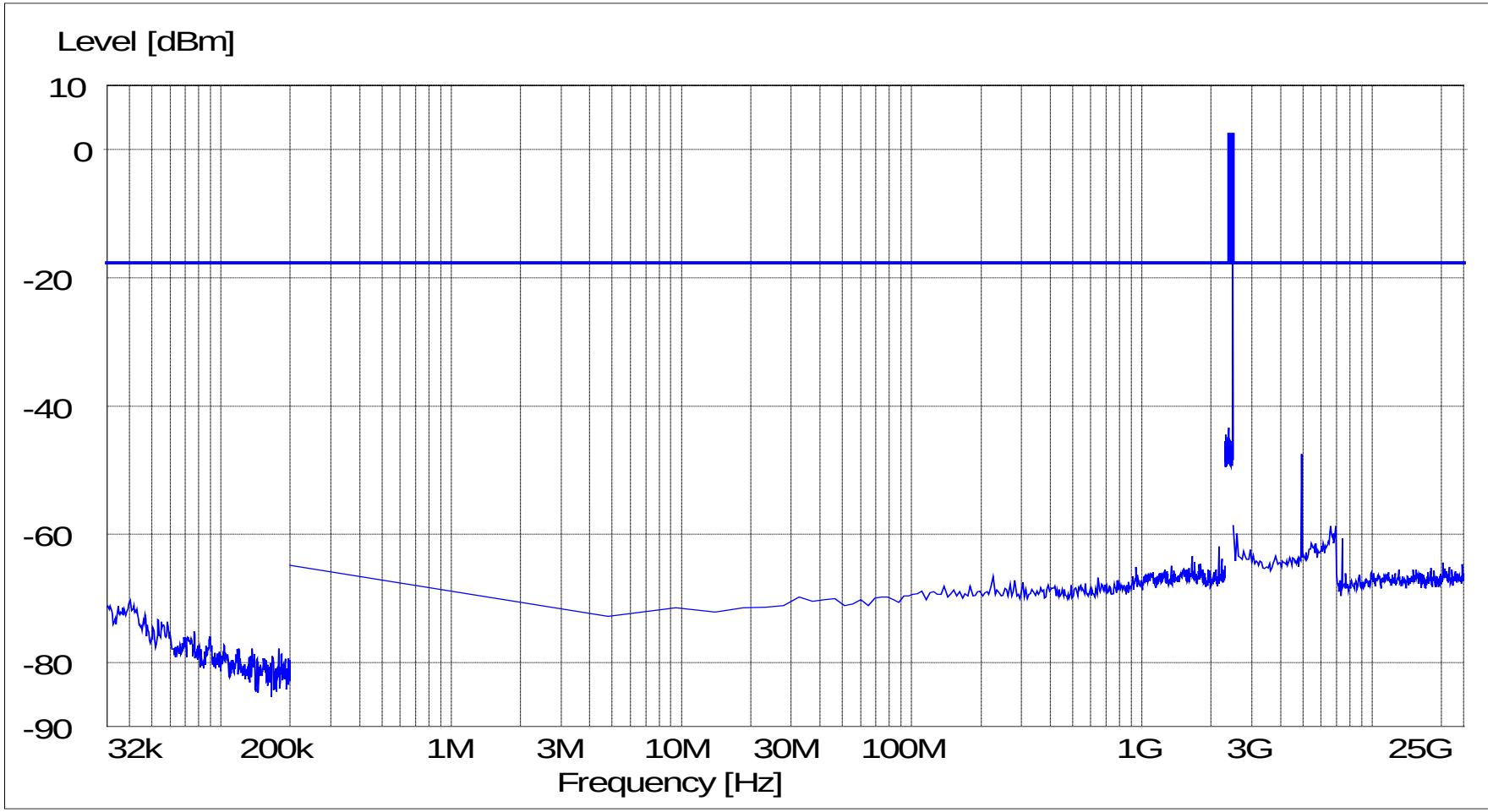
Customer: LifeLens Technologies, LLC
Test Sample: Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation: Continuously transmitting a modulated 2.48 GHz signal
Technician/Date: S. Macdonald / 8/13/20
Port Tested: Antenna
Notes: Zoomed in to see peak level and band edge



Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions

Customer: LifeLens Technologies, LLC
Test Sample: Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation: Continuously transmitting a modulated 2.48 GHz signal
Technician/Date: S. Macdonald / 8/13/20
Port Tested: Antenna
Notes:

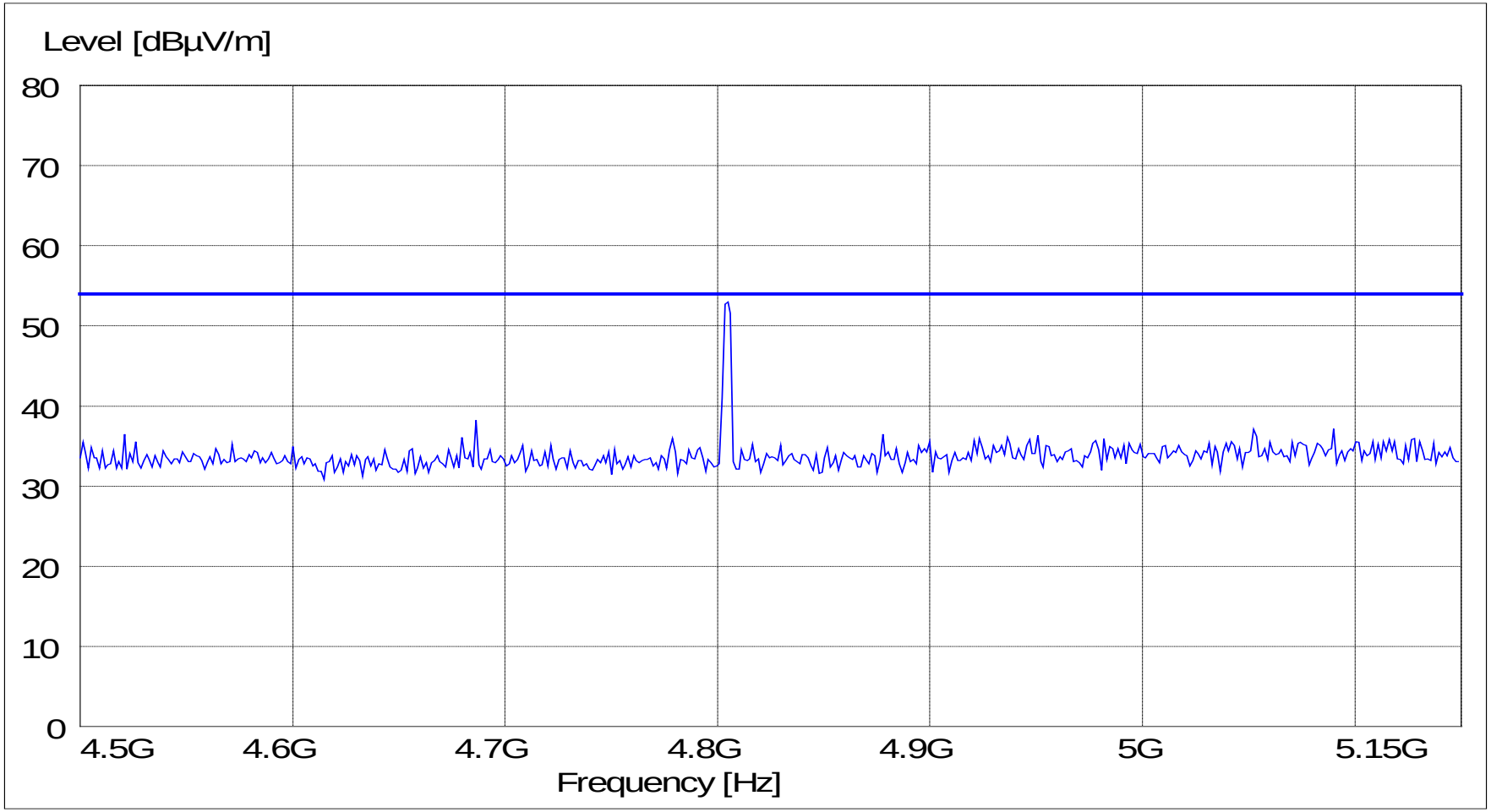


FCC Part 15.247, Paragraph (d)
Test Data, Antenna Conducted Emissions in Restricted Band

Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions in Restricted Band

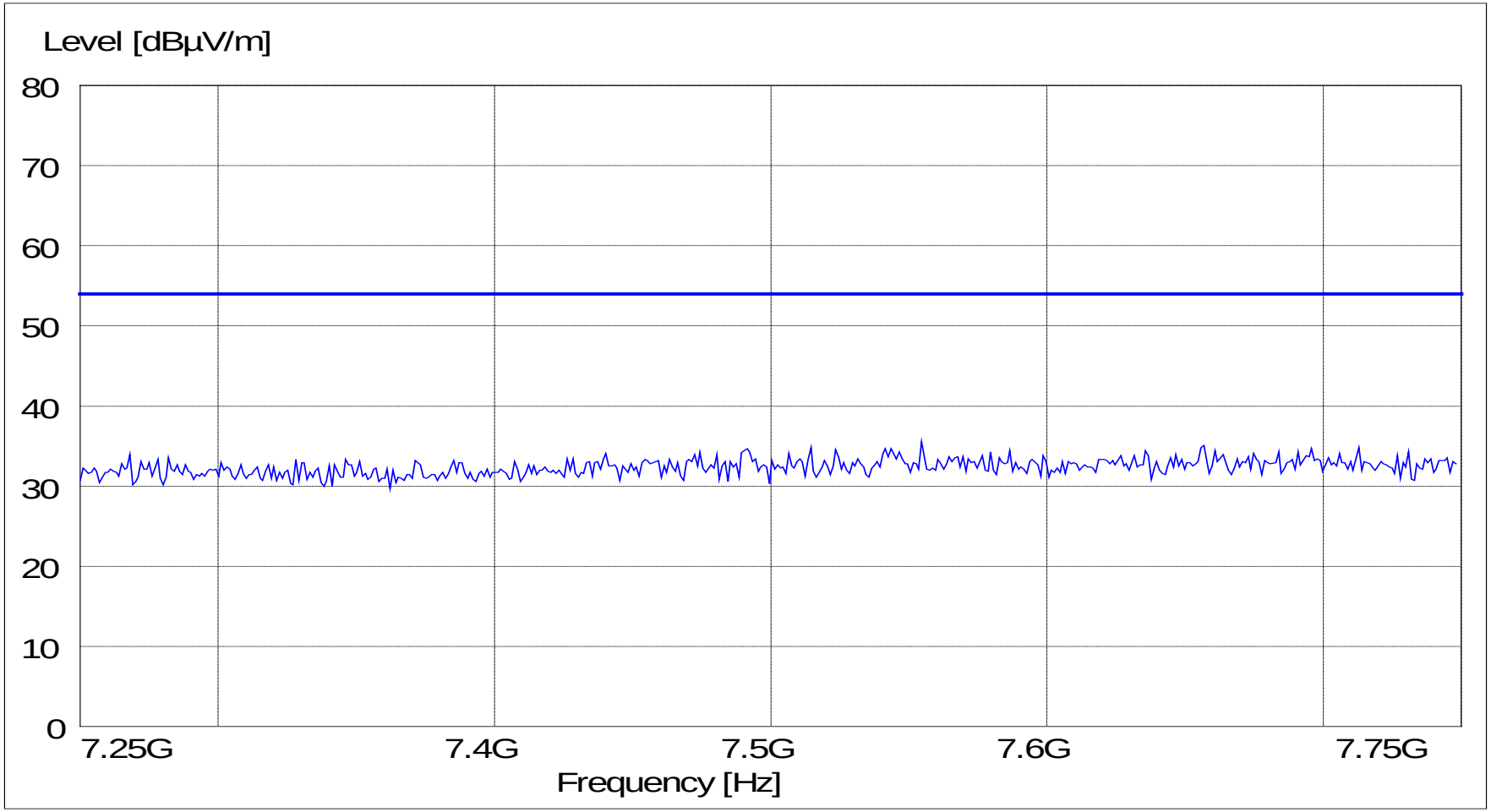
Customer: LifeLens Technologies, LLC
Test Sample: Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation: Continuously transmitting a modulated 2.402 GHz signal
Technician/Date: S. Macdonald / 8/13/20
Port Tested: Antenna
Notes: Peak detector



Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions in Restricted Band

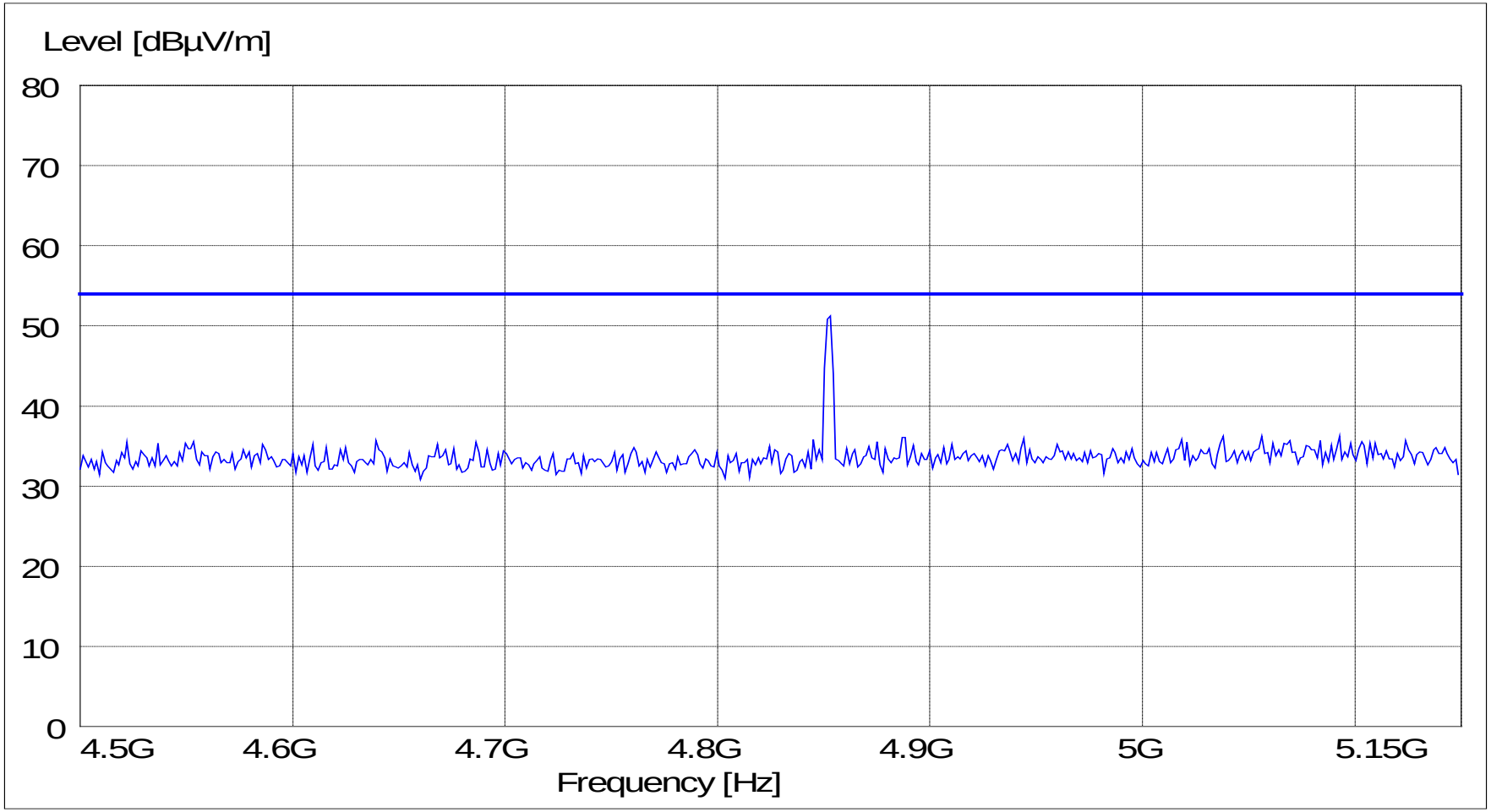
```
Customer:           LifeLens Technologies, LLC
Test Sample:        Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation:  Continuously transmitting a modulated 2.402 GHz signal
Technician/Date:    S. Macdonald / 8/13/20
Port Tested:        Antenna
Notes:              Peak detector
```



Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions in Restricted Band

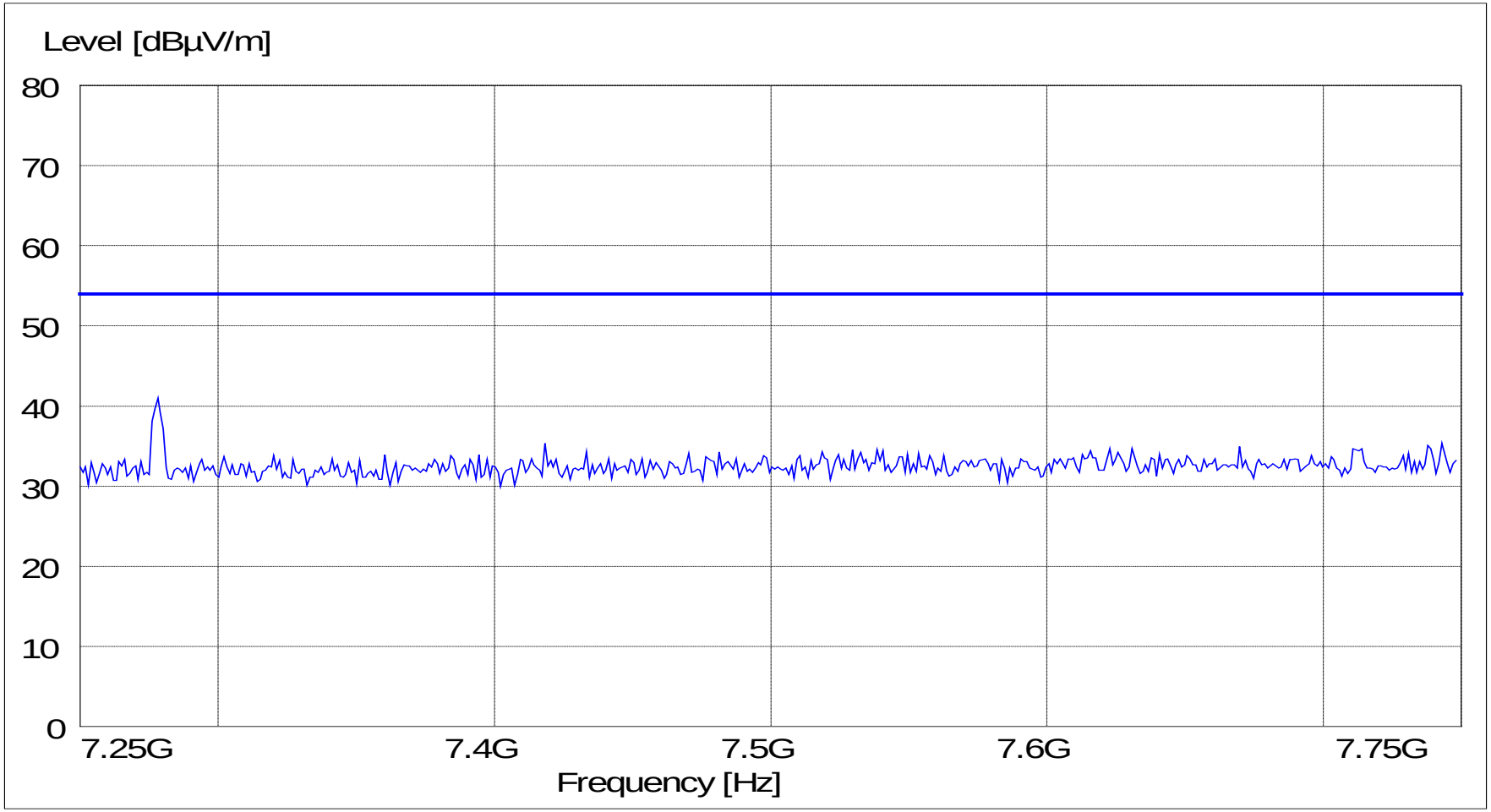
Customer: LifeLens Technologies, LLC
Test Sample: Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation: Continuously transmitting a modulated 2.426 GHz signal
Technician/Date: S. Macdonald / 8/13/20
Port Tested: Antenna
Notes: Peak detector



Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions in Restricted Band

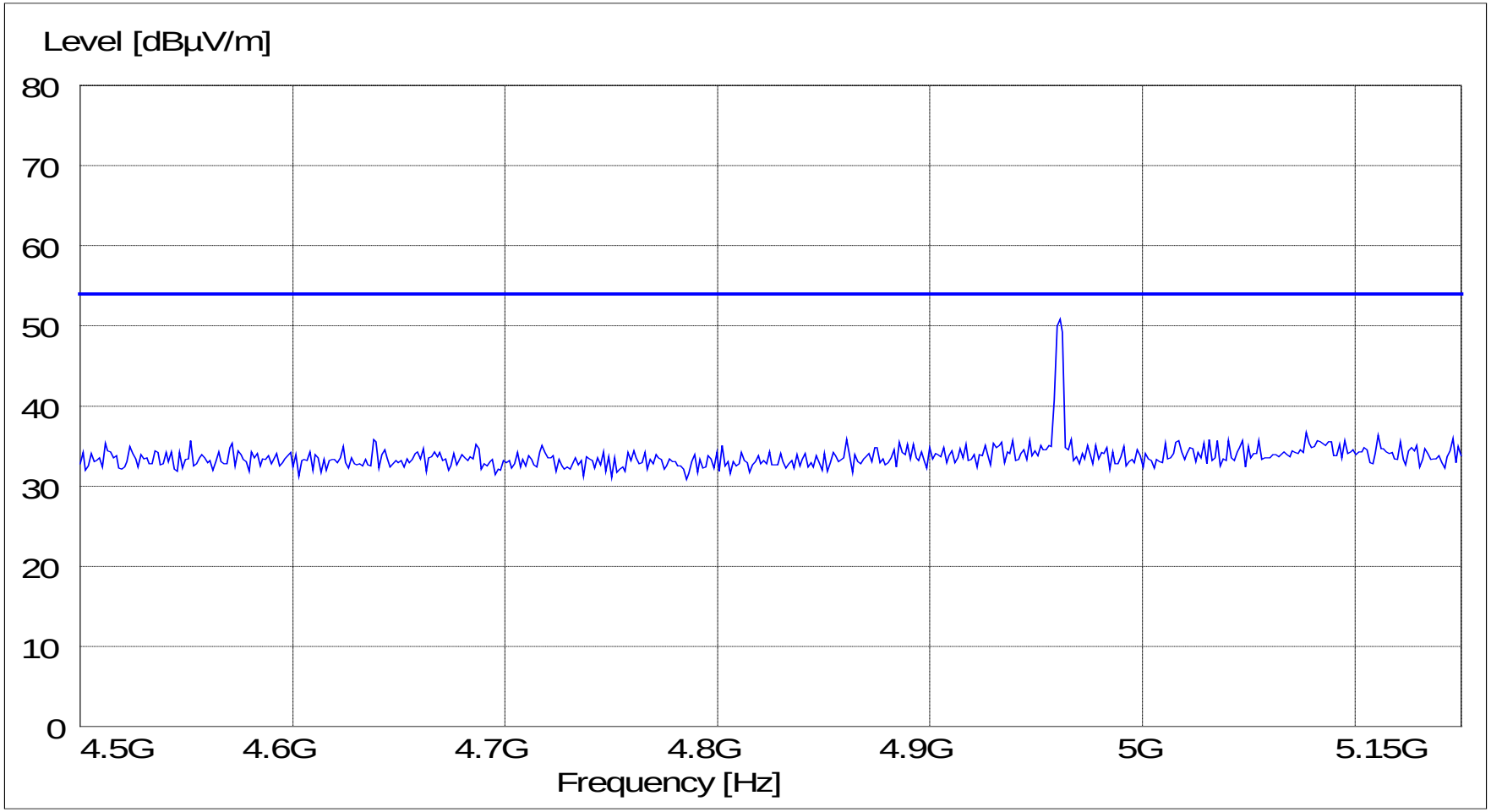
```
Customer:           LifeLens Technologies, LLC
Test Sample:        Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation:  Continuously transmitting a modulated 2.426 GHz signal
Technician/Date:    S. Macdonald / 8/13/20
Port Tested:        Antenna
Notes:              Peak detector
```



Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions in Restricted Band

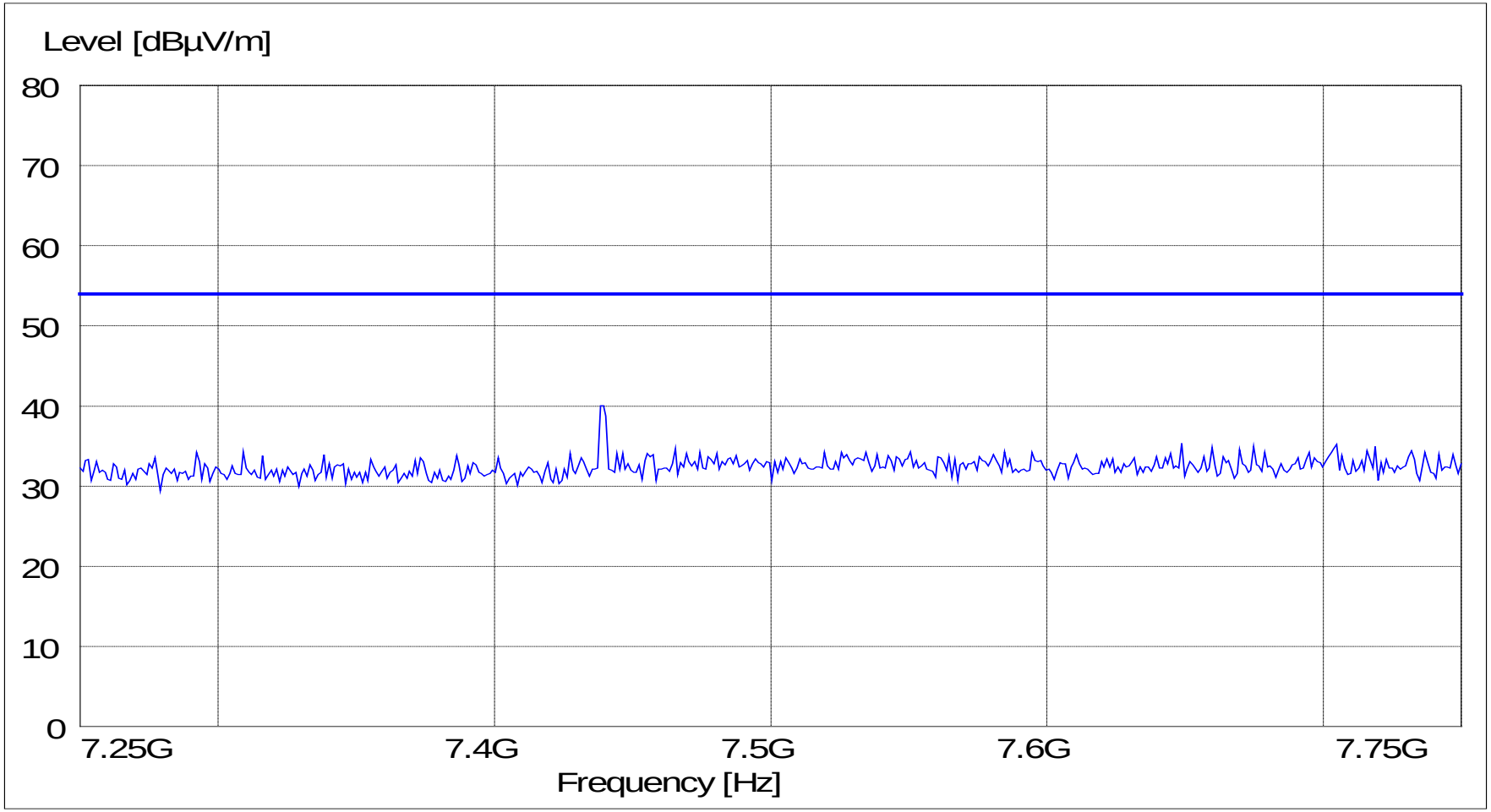
Customer: LifeLens Technologies, LLC
Test Sample: Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation: Continuously transmitting a modulated 2.48 GHz signal
Technician/Date: S. Macdonald / 8/13/20
Port Tested: Antenna
Notes: Peak detector



Retlif Testing Laboratories, R-3287P-3

FCC Part 15.247 (d) Out of Band Emissions in Restricted Band

Customer: LifeLens Technologies, LLC
Test Sample: Gateway
Part/Serial Number: LL-ECG-RECH-PR01 / 02000401
Test Specification: FCC Part 15, Subpart C
Mode of Operation: Continuously transmitting a modulated 2.48 GHz signal
Technician/Date: S. Macdonald / 8/13/20
Port Tested: Antenna
Notes: Peak detector



FCC Part 15.247, Paragraph (d)
Out of Band Emissions
Sweep Table
32 kHz to 25 GHz, 20 dB Below Fundamental

SWEEP TABLE: "R-3287P-3 OoB CE"

Unit: dBm

	Detector:	Mode:
Curve 1:	MaxPeak	MaxHold

Subrange 1:

Start Frequency:	32.0 kHz		
Stop Frequency:	200.0 kHz		
Measure Time:	Coupled		
IF Bandwidth:	10 kHz		
Receiver:	ESIX	Transducer:	dBuV to dBm
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	20 dB	Preselection:	Off
Ref. Level:	-10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	10
Curve 2:	Off	Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

Subrange 2:

Start Frequency:	200.0 kHz		
Stop Frequency:	2.3 GHz		
Measure Time:	Coupled		
IF Bandwidth:	100 kHz		
Receiver:	ESIX	Transducer:	dBuV to dBm
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	20 dB	Preselection:	Off
Ref. Level:	-10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	10
Curve 2:	Off	Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

Subrange 3:

Start Frequency:	2.3 GHz		
Stop Frequency:	2.5 GHz		
Measure Time:	Coupled		
IF Bandwidth:	100 kHz		
Receiver:	ESIX	Transducer:	dBuV to dBm
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	Normal	Preselection:	Off
Ref. Level:	10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	10
Curve 2:	Off	Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

Subrange 4:

Start Frequency:	2.5 GHz		
Stop Frequency:	25.0 GHz		
Measure Time:	Coupled		
IF Bandwidth:	100 kHz		
Receiver:	ESIX	Transducer:	dBuV to dBm
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	20 dB	Preselection:	Off
Ref. Level:	-10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	10
Curve 2:	Off	Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

FCC Part 15.247, Paragraph (d)
Out of Band Emissions
Sweep Table
Restricted Band (Antenna Conducted)

SWEEP TABLE: "R-3287P-3 CE restric"

Unit: dBµV/m

	Detector:	Mode:
Curve 1:	MaxPeak	MaxHold

Subrange 1:

Start Frequency:	4.5 GHz		
Stop Frequency:	5.2 GHz		
Measure Time:	Coupled		
IF Bandwidth:	1 MHz		
Receiver:	ESIX	Transducer:	FCC Rest Band 3m2dBi
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	20 dB	Preselection:	Off
Ref. Level:	-10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	Continuous
		Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

Subrange 2:

Start Frequency:	7.3 GHz		
Stop Frequency:	7.8 GHz		
Measure Time:	Coupled		
IF Bandwidth:	1 MHz		
Receiver:	ESIX	Transducer:	FCC Rest Band 3m2dBi
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	20 dB	Preselection:	Off
Ref. Level:	-10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	Continuous
		Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

SWEEP TABLE: "R-3287P-3 CE RB ave"

Unit: dBµV/m

	Detector:	Mode:
Curve 1:	RMS	MaxHold

Subrange 1:

Start Frequency:	4.5 GHz		
Stop Frequency:	4.7 GHz		
Measure Time:	Coupled		
IF Bandwidth:	1 MHz		
Receiver:	ESIX	Transducer:	FCC Rest Band 3m2dBi
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	20 dB	Preselection:	Off
Ref. Level:	-10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	Continuous
		Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

Subrange 2:

Start Frequency:	4.7 GHz		
Stop Frequency:	4.9 GHz		
Measure Time:	Coupled		
IF Bandwidth:	1 MHz		
Receiver:	ESIX	Transducer:	FCC Rest Band 3m2dBi
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	20 dB	Preselection:	Off
Ref. Level:	-10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	Continuous
		Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

Subrange 3:

Start Frequency:	4.9 GHz		
Stop Frequency:	5.2 GHz		
Measure Time:	Coupled		
IF Bandwidth:	1 MHz		
Receiver:	ESIX	Transducer:	FCC Rest Band 3m2dBi
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	20 dB	Preselection:	Off
Ref. Level:	-10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	Continuous
		Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

Subrange 4:

Start Frequency:	7.3 GHz		
Stop Frequency:	7.4 GHz		
Measure Time:	Coupled		
IF Bandwidth:	1 MHz		
Receiver:	ESIX	Transducer:	FCC Rest Band 3m2dBi
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	20 dB	Preselection:	Off
Ref. Level:	-10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	Continuous
		Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

Subrange 5:

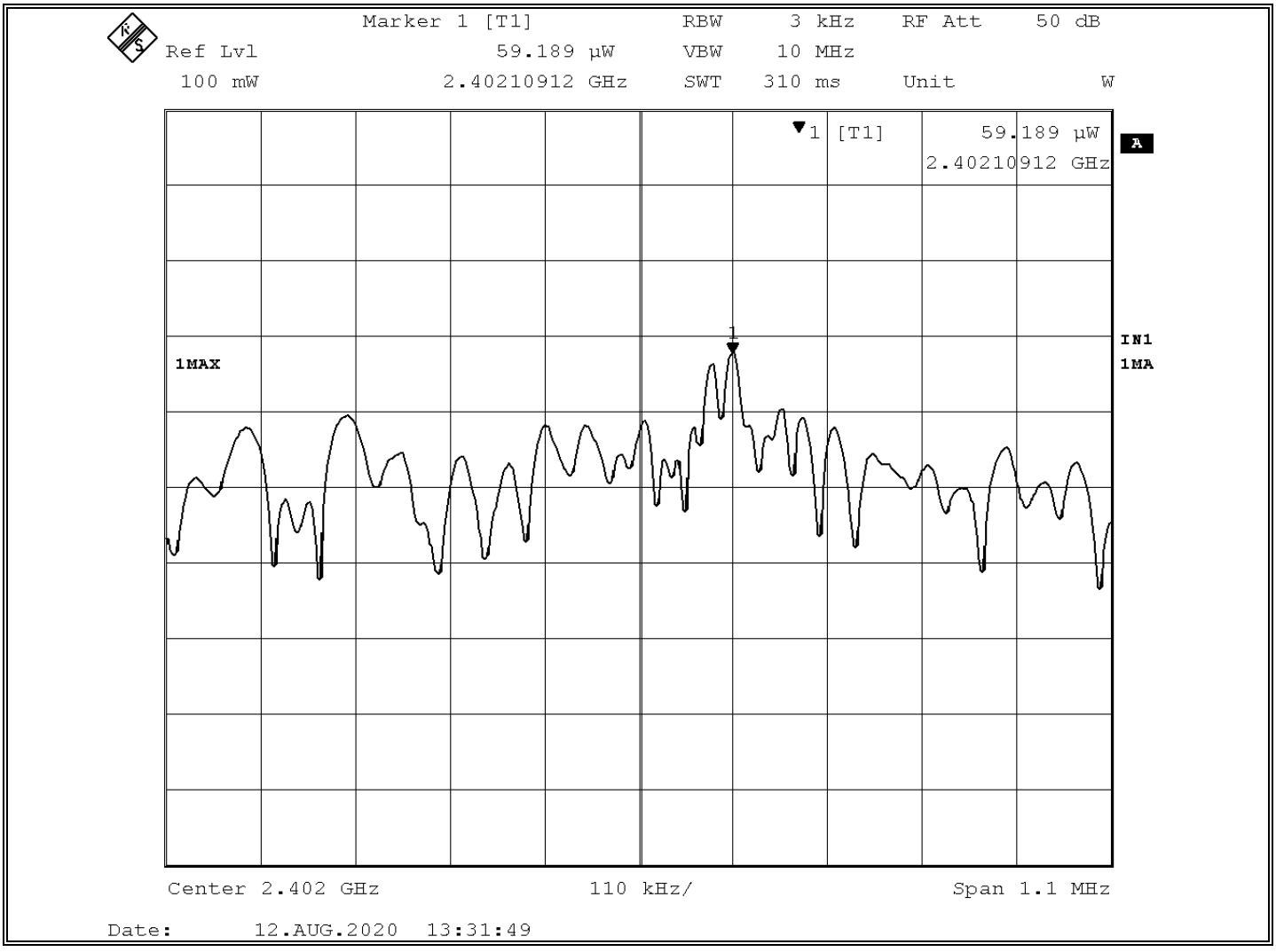
Start Frequency:	7.4 GHz		
Stop Frequency:	7.6 GHz		
Measure Time:	Coupled		
IF Bandwidth:	1 MHz		
Receiver:	ESIX	Transducer:	FCC Rest Band 3m2dBi
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	20 dB	Preselection:	Off
Ref. Level:	-10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	Continuous
		Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

Subrange 6:

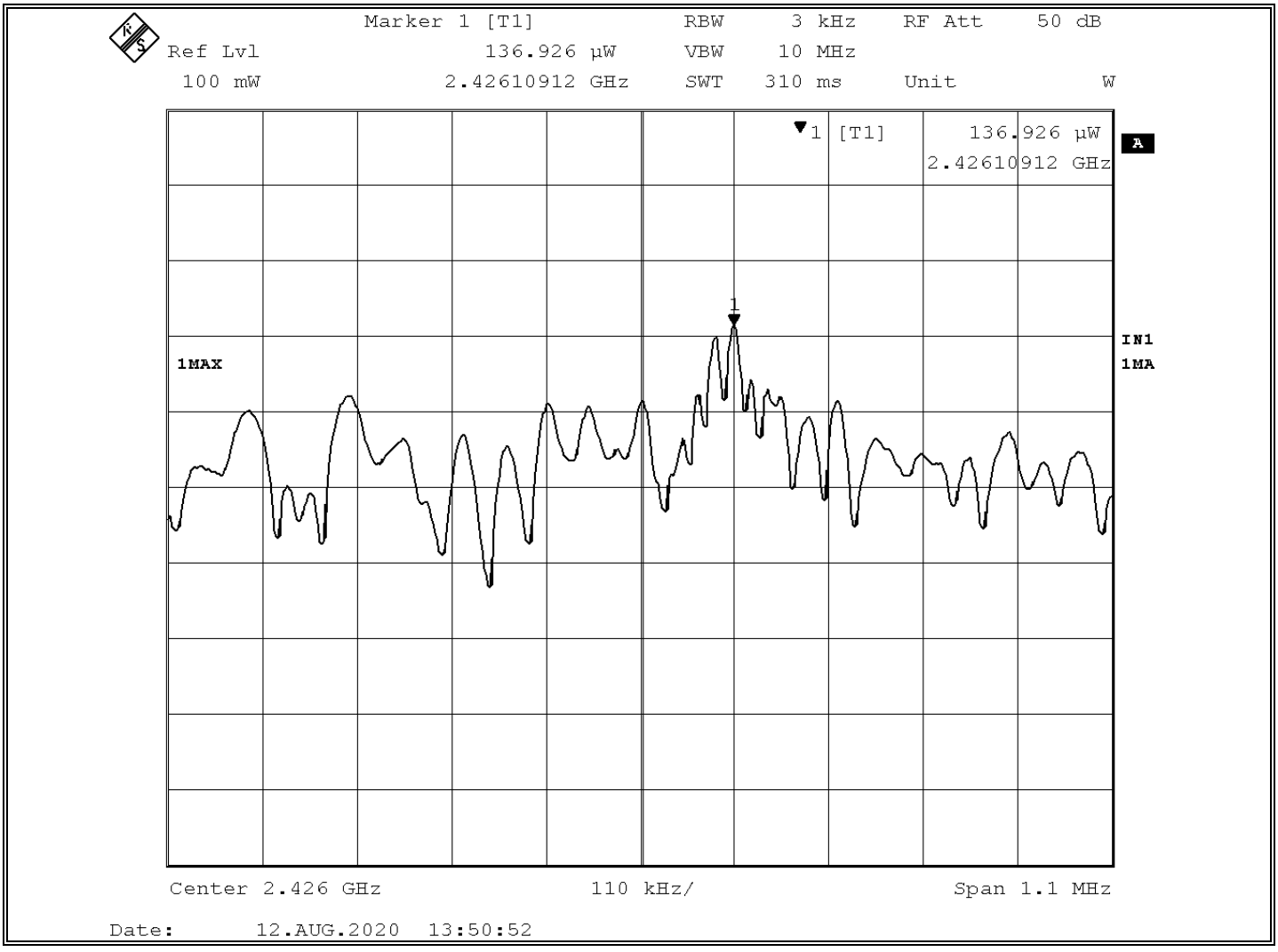
Start Frequency:	7.6 GHz		
Stop Frequency:	7.8 GHz		
Measure Time:	Coupled		
IF Bandwidth:	1 MHz		
Receiver:	ESIX	Transducer:	FCC Rest Band 3m2dBi
Signal Path:	None	System Transducer:	None
Meas. Mode:	Lin	Add. Transd. 1:	None
Tracking Gen.:	--	Add. Transd. 2:	None
Input:	1	Add. Transd. 3:	None
Preamplifier:	Off	Op. Range:	--
RF Att.:	20 dB	Preselection:	Off
Ref. Level:	-10.0 dBm	Rep. by Device:	--
Min. RF Att.:	--	Option:	--
IF Att.:	--	Video Bandwidth:	10 MHz
Curve 1:	On	Repetition:	Continuous
		Stop Mark:	Off
Curve 3:	Off	Stop Message:	Off
Curve 4:	Off	Stop Message:	

FCC 15.247(e)
Test Data, Antenna Port, Power Density

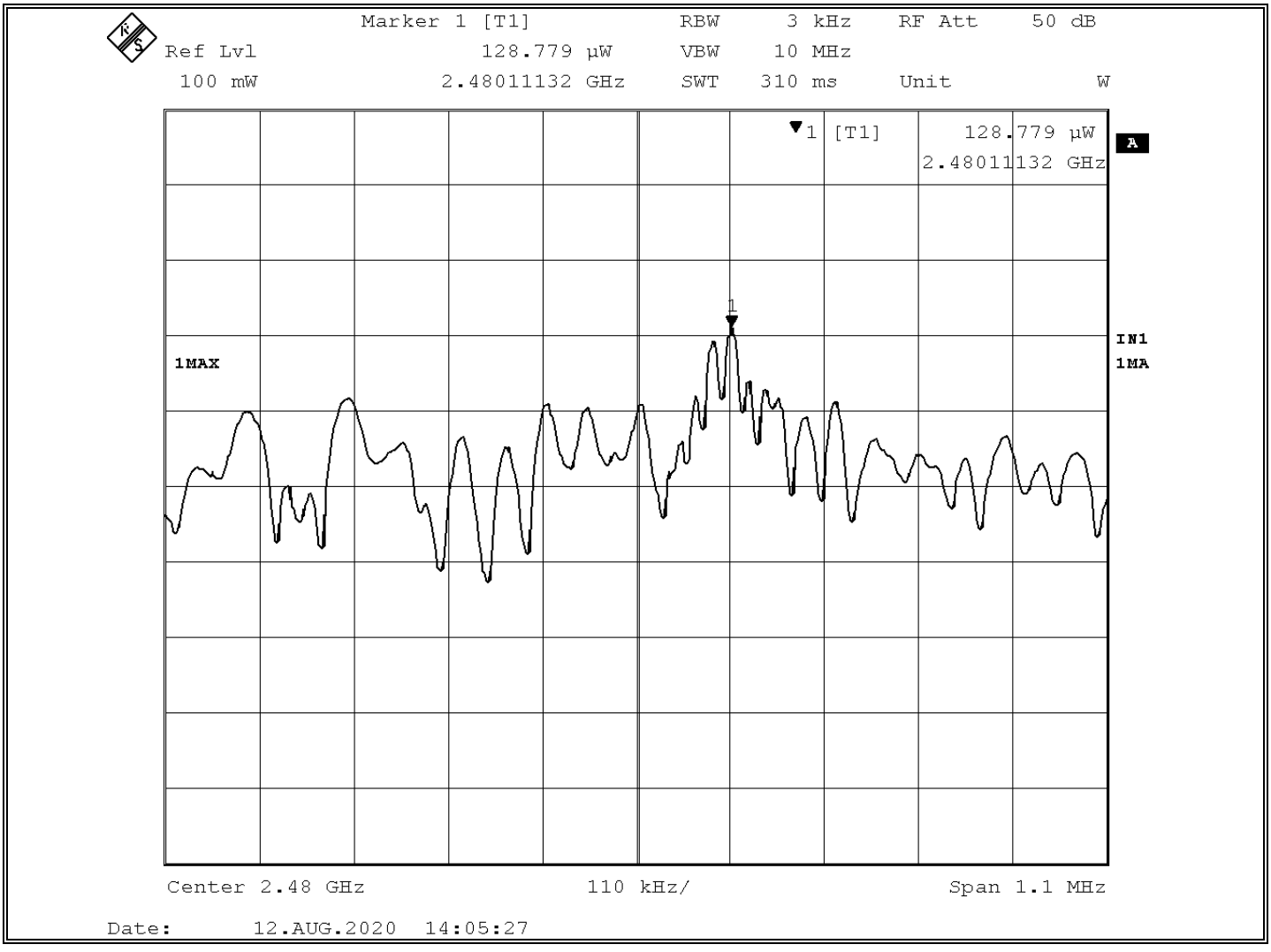
EMISSIONS TEST DATA SHEET	
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Method:	ANSI C63.10, Section 11.10.2 Maximum power spectral density level in the fundamental emission
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Transmitting modulated signal at 2.402 GHz (Channel 1)
Technician:	S. Macdonald
Date(s):	8/12/20
Temperature:	23.2 °C
Relative Humidity:	54.1 %
Notes:	Power Density = 0.0592 mW



EMISSIONS TEST DATA SHEET	
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Method:	ANSI C63.10, Section 11.10.2 Maximum power spectral density level in the fundamental emission
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Transmitting modulated signal at 2.426 GHz (Channel 13)
Technician:	S. Macdonald
Date(s):	8/12/20
Temperature:	23.2 °C
Relative Humidity:	54.1 %
Notes:	Power Density = 0.137 mW



EMISSIONS TEST DATA SHEET	
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Method:	ANSI C63.10, Section 11.10.2 Maximum power spectral density level in the fundamental emission
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Transmitting modulated signal at 2.480 GHz (Channel 40)
Technician:	S. Macdonald
Date(s):	8/12/20
Temperature:	23.2 °C
Relative Humidity:	54.1 %
Notes:	Power Density = 0.129 mW



FCC 15.209(a)
Test Data, Radiated Emissions Limits, General Requirements

EMISSIONS TEST DATA SHEET

Test Specification:	FCC Part 15, Subpart C, Paragraph: 15.209(a)
Method:	ANSI C63.4, Section 8, Radiated Emission Measurements, 30MHz to 1GHz
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Continuously charging and communicating via BLE
Technician:	M. Nowak
Date(s):	8/18/20
Temperature:	24.1 ºC
Relative Humidity:	57 %
Test Distance:	3m
Detector:	Quasi-Peak

Notes: The frequency range was scanned from 30 MHz to 1 GHz
The emissions observed from the EUT do not exceed the specified limits. The six highest readings relative to the limit are presented.
*Noise floor measurements, minimum sensitivity of measurement system

Frequency	Antenna Pol /Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
MHz	(V/H) / (m)	Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
30.00							100
I							I
*33.00	H / 1.00	180.0	1.4	12.3	13.7	4.85	I
I							I
88.00							100
88.00							150
I							I
*110.00	H / 1.00	180.0	6.2	13.3	19.5	9.45	I
I							I
*195.00	H / 1.00	180.0	1.5	18.9	20.4	10.48	I
I							I
216.00							150
216.00							200
I							I
*217.00	H / 1.00	180.0	4.4	13.3	17.7	7.68	I
I							I
*605.00	H / 1.00	180.0	3.9	23.1	27.0	22.39	I
I							I
960.00							200
960.00							500
I							I
*995.00	H / 1.00	180.0	3.7	30.1	33.8	48.98	I
I							I
1000.00							500

EMISSIONS TEST DATA SHEET	
Test Specification:	FCC Part 15, Subpart C, Paragraph: 15.209(a)
Method:	ANSI C63.4, Section 8, Radiated Emission Measurements, 30MHz to 1GHz
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Continuously charging and communicating via BLE
Technician:	M. Nowak
Date(s):	8/18/20
Temperature:	24.1 ºC
Relative Humidity:	57 %
Test Distance:	3m
Detector:	Peak

Notes: The frequency range was scanned from 1 GHz to 25 GHz
The emissions observed from the EUT do not exceed the specified limits. The five highest readings relative to the limit are presented.
*Noise floor measurements, minimum sensitivity of measurement system

Frequency	Antenna Pol /Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Average Limit
GHz	(V/H) / (m)	Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
1.00							500
I							I
*1.05	H / 1.00	180.0	51.2	-8.2	43.0	141.26	I
I							I
*2.95	H / 1.00	180.0	43.1	-3.2	39.9	98.86	I
I							I
*4.05	H / 1.00	180.0	42.2	0.0	42.2	128.83	I
I							I
*10.00	H / 1.00	180.0	42.5	5.7	48.2	257.04	I
I							I
*12.00	H / 1.00	180.0	40.9	7.5	48.4	263.03	I
I							I
25.00							500

FCC 15.207(a)
Test Data, Conducted Limits

EMISSIONS TEST DATA SHEET

Test Specification:	FCC Part 15, Subpart C, Section 15.207, Conducted Emissions
Method:	ANSI C63.4, Section 7., AC power-line conducted emission measurements
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Continuously charging and communicating via BLE
Technician:	M. Nowak
Date(s):	8/19/20
Temperature:	22.0 ºC
Relative Humidity:	49.3 %
Lead Tested:	Switching Adapter, 120 VAC, 60 Hz, Hot

The frequency range was scanned from 0.15 MHz to 30 MHz.
The six highest emissions relative to the limit are presented.
The emissions observed from the EUT do not exceed the specified limits.

Frequency	Detector	Meter Reading	Total Correction Factor	Corrected Reading	Limit	Margin
MHz	–	dBµV	dB	dBµV	dBµV	dB
0.2935	Peak	33.4	11.2	44.6*	–	–
0.2935	Quasi-Peak	24.0	11.2	35.2	60.4	25.2
0.2935	Average	7.6	11.2	18.8	50.4	31.6
0.3350	Peak	34.6	11.3	45.9*	–	–
0.3350	Quasi-Peak	21.2	11.3	32.5	59.3	26.8
0.3350	Average	6.8	11.3	18.1	49.3	31.2
0.5542	Peak	31.7	11.3	43.0*	–	–
0.5542	Quasi-Peak	18.1	11.3	29.4	56.0	26.6
0.5542	Average	3.0	11.3	14.3	46.0	31.7
0.5792	Peak	36.7	11.3	48.0*	–	–
0.5792	Quasi-Peak	25.1	11.3	36.4	56.0	19.6
0.5792	Average	5.1	11.3	16.4	46.0	29.6
0.9162	Peak	27.6	11.3	38.9*	–	–
0.9162	Quasi-Peak	21.8	11.3	33.1	56.0	22.9
0.9162	Average	10.4	11.3	21.7	46.0	24.3
1.5301	Peak	25.8	11.3	37.1*	–	–
1.5301	Quasi-Peak	15.6	11.3	26.9	56.0	29.1
1.5301	Average	3.6	11.3	14.9	46.0	31.1

* Peak measurements are recorded for informational purposes only.

EMISSIONS TEST DATA SHEET

Test Specification:	FCC Part 15, Subpart C, Section 15.207, Conducted Emissions
Method:	ANSI C63.4, Section 7., AC power-line conducted emission measurements
Job Number/Customer:	R-3287P-3 / LifeLens Technologies, LLC
Test Sample:	Gateway
Part Number:	LL-ECG-RECH-PR01
Serial Number:	02000401
Operating Mode:	Continuously charging and communicating via BLE
Technician:	M. Nowak
Date(s):	8/19/20
Temperature:	22.0 ºC
Relative Humidity:	49.3 %
Lead Tested:	Switching Adapter, 120 VAC, 60 Hz, Neutral

The frequency range was scanned from 0.15 MHz to 30 MHz.
The six highest emissions relative to the limit are presented.
The emissions observed from the EUT do not exceed the specified limits.

Frequency	Detector	Meter Reading	Total Correction Factor	Corrected Reading	Limit	Margin
MHz	–	dBµV	dB	dBµV	dBµV	dB
0.1938	Peak	33.0	11.2	44.2*	–	–
0.1938	Quasi-Peak	25.1	11.2	36.3	63.9	27.6
0.1938	Average	10.5	11.2	21.7	53.9	32.2
0.4444	Peak	30.7	11.3	42.0*	–	–
0.4444	Quasi-Peak	22.1	11.3	33.4	57.0	23.6
0.4444	Average	11.0	11.3	22.3	47.0	24.7
0.5542	Peak	30.8	11.3	42.1*	–	–
0.5542	Quasi-Peak	19.5	11.3	30.8	56.0	25.2
0.5542	Average	4.4	11.3	15.7	46.0	30.3
0.5792	Peak	34.7	11.3	46.0*	–	–
0.5792	Quasi-Peak	20.9	11.3	32.2	56.0	23.8
0.5792	Average	5.4	11.3	16.7	46.0	29.3
0.8772	Peak	26.1	11.3	37.4*	–	–
0.8772	Quasi-Peak	18.0	11.3	29.3	56.0	26.7
0.8772	Average	10.1	11.3	21.4	46.0	24.6
1.0747	Peak	19.2	11.3	30.5*	–	–
1.0747	Quasi-Peak	12.7	11.3	24.0	56.0	32.0
1.0747	Average	6.8	11.3	18.1	46.0	27.9

* Peak measurements are recorded for informational purposes only.