



ROGERS LABS, INC.

4405 West 259th Terrace Louisburg, KS 66053 Phone / Fax (913) 837-3214

47CFR, PART 15C - Intentional Radiators 47CFR Paragraph 15.249 and Industry Canada RSS-GEN Issue 5 and RSS-210 Issue 10 Application For Grant of Certification

Model: AA3562

2402-2480 MHz

Low Power Digital Transmitter (DXX))

FCC ID: IPH-A3562

IC: 1792A-A3562

Garmin International, Inc.

1200 East 151st Street Olathe, KS 66062

FCC Designation: US5305 ISED Registration: 3041A-1

Test Report Number: 211001

Test Date: October 1, 2021

Authorized Signatory: Sot DRogers

Scot D. Rogers

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Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053

Revision 1

Garmin International, Inc.

Model: AA3562

Test: 211001 SN's: 3387568865, 3387568938, 3387568865, 3387568897 Phone/Fax: (913) 837-3214 Test to: 47CFR 15C, RSS-Gen RSS-247

File: AA3562 DXX TstRpt

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IC: 1792A-A3562

Date: October 27, 2021

Page 1 of 29



Table of Contents

TABLE OF CONTEN	тѕ	2
REVISIONS		3
EXECUTIVE SUMMA	RY	4
OPINION / INTERPRI	ETATION OF RESULTS	4
EQUIPMENT TESTE	D	5
Equipment Operationa	al Modes	5
Equipment Function		6
Equipment Configurat	ion	7
APPLICATION FOR	CERTIFICATION	8
APPLICABLE STANI	DARDS	9
EQUIPMENT TESTIN	G PROCEDURES	9
AC Line Conducted E	nission Test Procedure	9
Radiated Emission Tes	t Procedure	9
Antenna Port Conduct	ed Emission Test Procedure	9
Diagram 2 Test arrang	ement for radiated emissions of tabletop equipmer ement for radiated emissions tested on Open Area ement for Antenna Port Conducted emissions	Test Site (OATS)11
TEST SITE LOCATION	ons	12
UNITS OF MEASURE	EMENTS	12
ENVIRONMENTAL C	ONDITIONS	13
	DIFICATIONS AND DEVIATIONS	
	ATORS	
Rogers Labs, Inc.	Garmin International, Inc.	FCC ID: IPH-A3562

4405 West 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1

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IC: 1792A-A3562 Date: October 27, 2021

Page 2 of 29



Restricted Bands of Operation	13
Table 1 Radiated Emissions in Restricted Frequency Bands Data Mode 1 ANT (GFSK)	14
Summary of Results for Radiated Emissions in Restricted Bands	14
General Radiated Emissions Procedure	15
Table 2 General Radiated Emissions Data	16
Summary of Results for General Radiated Emissions	16
Operation in the Band 2400 – 2483.5 MHz	17
Figure 1 Plot of Transmitter Emissions Operation in 2402-2480 MHz Mode 1 ANT (GFSK)	18
Figure 2 Plot of Transmitter Emissions Low Band Edge Mode 1 ANT (GFSK)	19
Figure 3 Plot of Transmitter Emissions High Band Edge Mode 1 ANT (GFSK)	20
Figure 4 Plot of Transmitter Emissions 99% Occupied Bandwidth Mode 1 ANT (GFSK)	21
Transmitter Emissions Data	22
Table 3 Transmitter Radiated Emissions Mode 1 ANT (GFSK)	22
Summary of Results for Transmitter Radiated Emissions of Intentional Radiator	23
ANNEX	24
Annex A Measurement Uncertainty Calculations	25
Annex B Test Equipment	26
Annex C Rogers Qualifications	28
Annex D Laboratory Certificate of Accreditation	29

Revisions

Revision 1 Issued October 27, 2021

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053

Phone/Fax: (913) 837-3214

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File: AA3562 DXX TstRpt

FCC ID: IPH-A3562

IC: 1792A-A3562

Date: October 27, 2021

Page 3 of 29



Executive Summary

License Exempt Digital Transmission System Intentional Radiator operating under Title 47 Code of Federal Regulations (47 CFR) Paragraph 15.249 and Industry Canada RSS-210 Issue 10 and RSS-GEN Issue 5, low power (DXX) digital device transmitter operations in the 2400 – 2483.5 MHz frequency band.

Name of Applicant: Garmin International, Inc.

1200 East 151st Street Olathe, KS 66062

M/N: AA3562 HVIN: AA3562 PMN: AA3562 FCC ID: IPH-A3562 IC: 1792A-A3562 Operating Frequency Range: 2402-2480 MHz

Operational communication mode 1

Mode	Peak Power (dBµV/m@3m)	Average power (dBµV/m@3m)	99% OBW (kHz)
Mode 1, ANT (GFSK)	98.9	66.2	1,398.0

Opinion / Interpretation of Results

Tests Performed	Margin (dB)	Results
Restricted Bands 47 CFR 15.205, RSS-210 4.1	-6.9	Complies
Emissions as per 47CFR 15.207, RSS-GEN 8.8	N/A	Complies
Radiated Emissions 47 CFR 15.209, RSS-GEN 8.9	-8.4	Complies
Harmonic Emissions per 47 CFR 15.249, RSS-210 B.10	-4.2	Complies

Rogers Labs, Inc. Garmin International, Inc. FCC ID: IPH-A3562 4405 West 259th Terrace Model: AA3562 IC: 1792A-A3562

Louisburg, KS 66053 Test: 211001 SN's: 3387568865, 3387568865, 3387568865, 3387568865, 3387568867 Phone/Fax: (913) 837-3214 Test to: 47CFR 15C, RSS-Gen RSS-247 Date: October 27, 2021

Revision 1 File: AA3562 DXX TstRpt Page 4 of 29



Equipment Tested

Model: AA3562

Garmin International, Inc. 1200 East 151st Street Olathe, KS 66062

Equipment	Model / PN	Serial Number
EUT 1 (16)	AA3562	3387568965
EUT 2 (12)	AA3562	3387568938
EUT 3 (10)	AA3562	3353713832
EUT 4 (Antenna Port conducted)	AA3562	3387568897
Interface cables	Manufacturer provided	N/A
DC Power Supply	BK 1745	209C13
Transducer 1	GTM 54UHD	N/A
Transducer 2	Panoptix LVS12	N/A
Transducer 3	GTM 15	N/A

Test results in this report relate only to the items tested. Worst-case configuration data recorded in this report.

Software: 25.20, Antenna: 2.4 GHz ANT/BLE -2 dBi, 802.11 -2.3 dBi 50 Ohm, Dipole or PIFA

Equipment Operational Modes

Mode	Transmitter Operation
1	ANT (GFSK)
2	BLE (GMSK)
3	802.11b
4	802.11g
5	802.11n

Rogers Labs, Inc. Garmin International, Inc. FCC ID: IPH-A3562 4405 West 259th Terrace Model: AA3562 IC: 1792A-A3562

Louisburg, KS 66053 Test: 211001 SN's: 3387568865, 3387568938, 3387568865, 3387568897 Phone/Fax: (913) 837-3214 Test to: 47CFR 15C, RSS-Gen RSS-247 Date: October 27, 2021

Revision 1 File: AA3562 DXX TstRpt Page 5 of 29



Equipment Function

The EUT is a mobile mounted digital display and GPS receiver for use in the maritime environment. The design incorporates transmitters with operational capability across the 2402-2480 MHz frequency band. This design provides wireless operation in multiple communication modes across the 2402-2480 MHz band. The unit provides low power transmitter function (DXX) across the 2402-2480 MHz band. The BLE transmitter as a Digital Transmission System (DTS) operating in the 2402-2480 MHz frequency band and 802.11 operation in the 2412-2462 MHz frequency band. The design is offered in multiple display sizes utilizing electrically identical transmitter circuity. The product operates from external direct current power only and offers no provision to interface with utility power systems. The design utilizes internal fixed antenna systems and offers no provision for antenna replacement or modification. Multiple samples were provided for testing, three representative of production design with integral antennas, and the other modified by replacing the integral antennas with RF connection ports. Test samples were provided with test software providing testing personnel the ability to enable transmitter functions on defined channels and operational modes. The antenna modifications offered testing facility the ability to connect test equipment to the temporary antenna ports for antenna port conducted emission testing. The EUT was arranged as described by the manufacturer for testing purposes. The design provides interface options including connection to transducers providing below surface depth and other information, marine network interfaces, NMEA network interface, micro-USB, audio, composite and HDMI video interfaces, and power. The EUT offers no other interface connections than those in the configuration option shown below as described by the manufacturer. For testing purposes, the EUT received power from a bench DC power supply and configured to operate in available modes. As requested by the manufacturer and required by regulations, the equipment was tested for emissions compliance using the available configurations with the worst-case data presented. Test results in this report relate only to the products described in this report.

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053

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Revision 1

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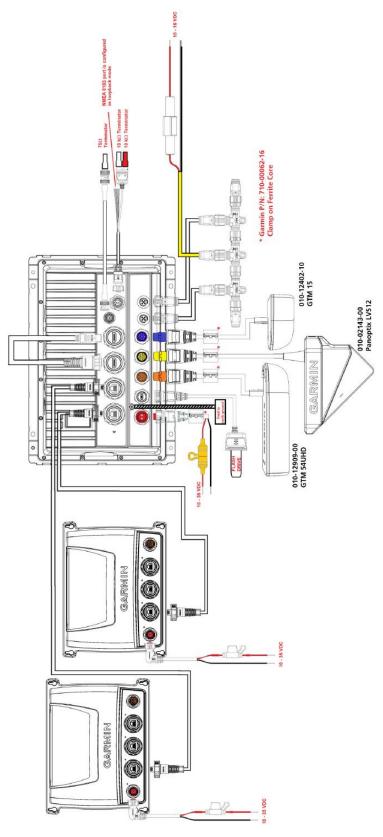
IC: 1792A-A3562

FCC ID: IPH-A3562

Test to: 47CFR 15C, RSS-Gen RSS-247 Date: October 27, 2021 File: AA3562 DXX TstRpt Page 6 of 29



Equipment Configuration



Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1

Garmin International, Inc.

Model: AA3562

Test: 211001 SN's: 3387568865, 3387568938, 3387568865, 3387568897 Test to: 47CFR 15C, RSS-Gen RSS-247

File: AA3562 DXX TstRpt

FCC ID: IPH-A3562 IC: 1792A-A3562

Date: October 27, 2021

Page 7 of 29



Application for Certification

(1) Manufacturer: Garmin International, Inc.

1200 East 151st Street

Olathe, KS 66062

(2) Identification: M/N: AA3562 HVIN: AA3562 PMN: AA3562

FCC ID: IPH-A3562 IC: 1792A-A3562

(3) Instruction Book:

Refer to Exhibit for Instruction Manual.

(4) Description of Circuit Functions:

Refer to Exhibit of Operational Description.

(5) Block Diagram with Frequencies:

Refer to Exhibit of Operational Description.

(6) Report of Measurements:

Report of measurements follows in this Report.

(7) Photographs: Construction, Component Placement, etc.:

Refer to Exhibit for photographs of equipment.

- (8) List of Peripheral Equipment Necessary for operation. The equipment operates from Direct Current Power supplied from external source. The EUT also provides communication options as documented and presented in this filing.
- (9) Transition Provisions of 47 CFR 15.37 are not requested.
- (10) Not Applicable. The unit is not a scanning receiver.
- (11) Not Applicable. The EUT does not operate in the 59 64 GHz frequency band.
- (12) The equipment is not software defined and this section is not applicable.
- (13) Applications for certification of U-NII devices in the 5.15-5.35 GHz and the 5.47-5.85 GHz bands must include a high-level operational description of the security procedures that control the radio frequency operating parameters and ensure that unauthorized modifications cannot be made. This requirement is not applicable to his DTS device.
- (14) Contain at least one drawing or photograph showing the test set-up for each of the required types of tests applicable to the device for which certification is requested. These drawings or photographs must show enough detail to confirm other information contained in the test report. Any photographs used must be focused originals without glare or dark spots and must clearly show the test configuration used. This information is provided in this report and Test Setup Exhibits provided with the application filing.

Rogers Labs, Inc. Garmin International, Inc. FCC ID: IPH-A3562 4405 West 259th Terrace Model: AA3562 IC: 1792A-A3562

Louisburg, KS 66053 Test: 211001 SN's: 3387568865, 3387568938, 3387568865, 3387568897 Phone/Fax: (913) 837-3214 Test to: 47CFR 15C, RSS-Gen RSS-247 Date: October 27, 2021

Revision 1 File: AA3562 DXX TstRpt Page 8 of 29



Applicable Standards

The following information is submitted in accordance with the eCFR Title 47 Code of Federal Regulations (47CFR), dated October 1, 2021: Part 2, Subpart J, Part 15C Paragraph 15.249, Industry Canada RSS-210 Issue 10, and RSS-GEN Issue 5. Test procedures used are the established Methods of Measurement of Radio-Noise Emissions as described in ANSI C63.10-2013. This report documents compliance for the EUT operations as Low Power Transmitter (DXX).

Equipment Testing Procedures

AC Line Conducted Emission Test Procedure

The EUT operates on direct current power only provided by the vehicle installation. Therefore, no AC line conducted emission testing was required or performed.

Radiated Emission Test Procedure

Radiated emissions testing was performed as required in 47 CFR 15C, RSS-210 Issue 10, and specified in ANSI C63.10-2013. The EUT was placed on a rotating 0.9 x 1.2-meter platform, elevated as required above the ground plane at a distance of 3 meters from the FSM antenna. EMI energy was maximized by equipment placement permitting orientation in three orthogonal axes, raising, and lowering the FSM antenna, changing the antenna polarization, and by rotating the turntable. Each emission was maximized before data was taken and recorded. The frequency spectrum from 9 kHz to 25,000 MHz was searched for emissions during preliminary investigation. Refer to diagrams one and two showing typical test setup. Refer to photographs in the test setup exhibits for specific EUT placement during testing.

Antenna Port Conducted Emission Test Procedure

The EUT was assembled as required for operation placed on a benchtop. This configuration provided the ability to connect test equipment to the provided test antenna port Antenna Port conducted emissions testing was performed presented in the regulations and specified in ANSI C63.10-2013. Testing was completed on a laboratory bench in a shielded room. The active antenna port of the device was connected to appropriate attenuation and the spectrum analyzer. Refer to diagram three showing typical test arrangement and photographs in the test setup exhibits for specific EUT placement during testing.

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053

Revision 1

Garmin International, Inc. Model: AA3562

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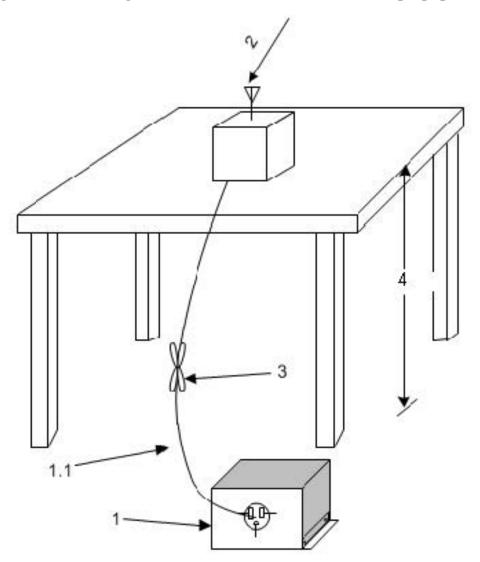
IC: 1792A-A3562

FCC ID: IPH-A3562

Page 9 of 29



Diagram 1 Test arrangement for radiated emissions of tabletop equipment



- 1—A LISN is optional for radiated measurements between 30 MHz and 1000 MHz but not allowed for measurements below 30 MHz and above 1000 MHz (see 6.3.1). If used, then connect EUT to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. The LISN may be placed on top of, or immediately beneath, the reference ground plane (see 6.2.2 and 6.2.3.2).
- 1.1—LISN spaced at least 80 cm from the nearest part of the EUT chassis.
- 2—Antenna can be integral or detachable, depending on the EUT (see 6.3.1).
- 3—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long (see 6.3.1).
- 4—For emission measurements at or below 1 GHz, the table height shall be 80 cm. For emission measurements above 1 GHz, the table height shall be 1.5 m for measurements, except as otherwise specified (see 6.3.1 and 6.6.3.1).

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214

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Garmin International, Inc. Model: AA3562

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Test: 211001 SN's: 3387568865, 3387568938, 3387568865, 3387568897 Test to: 47CFR 15C, RSS-Gen RSS-247 Date: October 27, 2021

File: AA3562 DXX TstRpt Page 10 of 29



Diagram 2 Test arrangement for radiated emissions tested on Open Area Test Site (OATS)

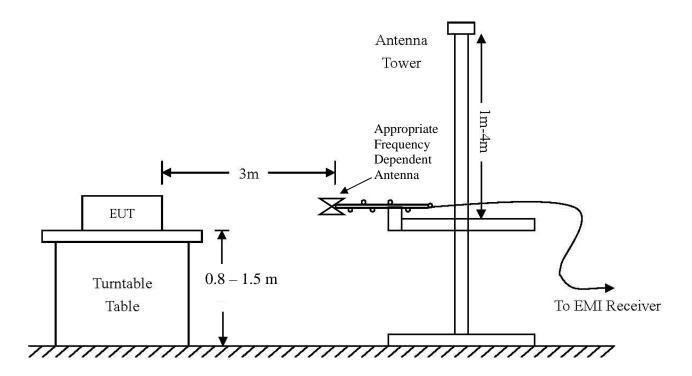
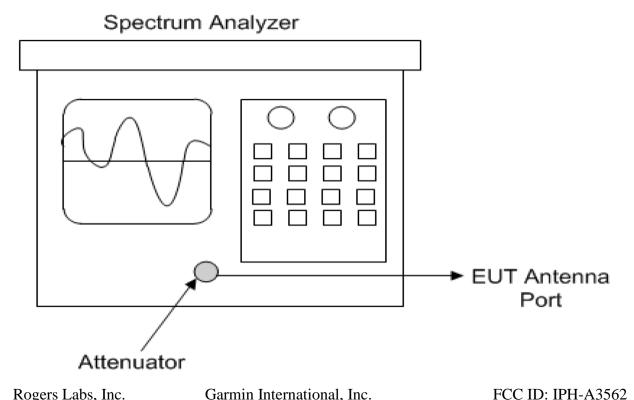


Diagram 3 Test arrangement for Antenna Port Conducted emissions



Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Garmin International, Inc. Model: AA3562

Model: AA3562 IC: 1792A-A3562 Test: 211001 SN's: 3387568865, 3387568938, 3387568865, 3387568897 Test to: 47CFR 15C, RSS-Gen RSS-247 Date: October 27, 2021

File: AA3562 DXX TstRpt Page 11 of 29



Test Site Locations

Conducted EMI AC line conducted emissions testing performed in a shielded screen room

located at Rogers Labs, Inc., 4405 West 259th Terrace, Louisburg, KS

Antenna port Antenna port conducted emissions testing was performed in a shielded

screen room located at Rogers Labs, Inc., 4405 West 259th Terrace,

Louisburg, KS

Radiated EMI The radiated emissions tests were performed at the 3 meters, Open Area

Test Site (OATS) located at Rogers Labs, Inc., 4405 West 259th Terrace,

Louisburg, KS

Registered Site information: FCC Site: US5305, ISED: 3041A, CAB Identifier: US0096

NVLAP Accreditation Lab code 200087-0

Units of Measurements

Conducted EMI Data presented in dBµV; dB referenced to one microvolt

Antenna port Conducted Data is in dBm; dB referenced to one milliwatt

Radiated EMI Data presented in dBµV/m; dB referenced to one microvolt per meter

Note: Radiated limit may be expressed for measurement in $dB\mu V/m$ when the measurement is taken at a distance of 3 or 10 meters. Data taken for this report was taken at distance of 3 meters. Sample calculation demonstrates corrected field strength reading for Open Area Test Site using the measurement reading and correcting for receive antenna factor, cable losses, and amplifier gains.

Sample Calculation:

RFS = Radiated Field Strength, FSM = Field Strength Measured

A.F. = Receive antenna factor, Losses = attenuators/cable losses, Gain = amplification gains

RFS $(dB\mu V/m @ 3m) = FSM (dB\mu V) + A.F. (dB/m) + Losses (dB) - Gain (dB)$

Rogers Labs, Inc. Garmin International, Inc. FCC ID: IPH-A3562 4405 West 259th Terrace Model: AA3562 IC: 1792A-A3562

Louisburg, KS 66053 Test: 211001 SN's: 3387568865, 3387568865, 3387568865, 3387568865, 3387568867 Phone/Fax: (913) 837-3214 Test to: 47CFR 15C, RSS-Gen RSS-247 Date: October 27, 2021

Revision 1 File: AA3562 DXX TstRpt Page 12 of 29



Environmental Conditions

Ambient Temperature 22.7° C

Relative Humidity 41 %

Atmospheric Pressure 1014.3 mb

Statement of Modifications and Deviations

No modifications to the EUT were required for the equipment to demonstrate compliance with the 47 CFR Part 15C, Industry Canada RSS-210 Issue 10, and RSS-GEN Issue 5 emission requirements. There were no deviations to the specifications.

Intentional Radiators

The following information is submitted supporting compliance with the requirements of 47 CFR, Subpart C, paragraph 15.249, Industry Canada RSS-210 Issue 10 and RSS-GEN Issue 5.

Antenna Requirements

The EUT incorporates 50-ohm integral Dipole or Planar Inverted F Antenna (PIFA) system. Production equipment offers no provision for connection to alternate antenna system. The antenna connection point complies with the unique antenna connection requirements. There are no deviations or exceptions to the specification.

Restricted Bands of Operation

Spurious emissions falling in the restricted frequency bands of operation were measured at the OATS. The EUT utilizes frequency, determining circuitry, which generates harmonics falling in the restricted bands. Emissions were investigated at the OATS, using appropriate antennas or pyramidal horns, amplification stages, and receiver / spectrum analyzer. Peak and average amplitudes of frequencies above 1000 MHz were compared to the required limits with worst-case data presented below. Test procedures of ANSI C63.10-2013 were used during testing. No other significant emission was observed which fell into the restricted bands of operation. Computed emission values consider the received radiated field strength, receive antenna correction factor, amplifier gain stage, and test system cable losses.

Rogers Labs, Inc. Garmin International, Inc. FCC ID: IPH-A3562 4405 West 259th Terrace Model: AA3562 IC: 1792A-A3562

Louisburg, KS 66053 Test: 211001 SN's: 3387568865, 3387568865, 3387568865, 3387568865, 3387568867 Phone/Fax: (913) 837-3214 Test to: 47CFR 15C, RSS-Gen RSS-247 Date: October 27, 2021

Revision 1 File: AA3562 DXX TstRpt Page 13 of 29



Table 1 Radiated Emissions in Restricted Frequency Bands Data Mode 1 ANT (GFSK)

Frequency in MHz	Horizontal Peak (dBµV/m)	Horizontal Average (dBµV/m)	Vertical Peak (dBµV/m)	Vertical Average (dBµV/m)	Limit @ 3m (dBµV/m)	Horizontal Margin (dB)	Vertical Margin (dB)
2386.6	56.0	30.7	58.3	30.7	54.0	-23.3	-23.3
2483.5	59.6	31.2	60.5	31.2	54.0	-22.8	-22.8
4804.0	50.6	36.0	49.7	35.9	54.0	-18.0	-18.1
4914.0	50.7	39.3	50.2	35.8	54.0	-14.7	-18.2
4960.0	52.0	37.5	53.8	37.7	54.0	-16.5	-16.3
7206.0	55.6	39.9	53.5	39.9	54.0	-14.1	-14.1
7371.0	56.9	43.4	53.3	39.8	54.0	-10.6	-14.2
7440.0	57.5	43.6	56.8	44.0	54.0	-10.4	-10.0
12010.0	59.3	46.2	58.6	45.9	54.0	-7.8	-8.1
12285.0	60.3	47.1	59.1	45.7	54.0	-6.9	-8.3
12400.0	59.6	46.8	59.7	46.7	54.0	-7.2	-7.3

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

Summary of Results for Radiated Emissions in Restricted Bands

The EUT demonstrated compliance with the radiated emissions requirements of 47CFR Part 15C and RSS-210 Issue 10 Intentional Radiator requirements. The EUT demonstrated a worst-case minimum margin of -6.9 dB below the emissions requirements in restricted frequency bands. Peak, Quasi-peak, and average amplitudes were checked for compliance with the regulations. Worst-case emissions are reported with other emissions found in the restricted frequency bands at least 20 dB below the requirements.

Rogers Labs, Inc. 4405 West 259th Terrace

Louisburg, KS 66053

Phone/Fax: (913) 837-3214 Revision 1

Garmin International, Inc. Model: AA3562

File: AA3562 DXX TstRpt

IC: 1792A-A3562 Test: 211001 SN's: 3387568865, 3387568938, 3387568865, 3387568897 Test to: 47CFR 15C, RSS-Gen RSS-247

Date: October 27, 2021 Page 14 of 29

FCC ID: IPH-A3562



General Radiated Emissions Procedure

The EUT was arranged in a manufacturer defined equipment configuration and operated with both transmitter active during testing. Preliminary testing was performed in a screen room with the EUT positioned 1 meter from the FSM. Radiated emissions measurements were performed to identify the frequencies, which produced the highest emissions. Each radiated emission was then maximized at the OATS location before final radiated measurements were performed. Final data was taken with the EUT located on the OATS at 3 meters distance between the EUT and the receiving antenna. The frequency spectrum from 9 kHz to 25,000 MHz was searched for general radiated emissions. Measured emission levels were maximized by EUT placement on the table, rotating the turntable through 360 degrees, varying the antenna height between 1 and 4 meters above the ground plane and changing antenna position between horizontal and vertical polarization. Antennas used were Loop from 9 kHz to 30 MHz, Broadband Biconical from 30 to 200 MHz, Biconilog from 30 to 1000 MHz, Log Periodic from 200 MHz to 1 GHz and or double Ridge or pyramidal horns and mixers above 1 GHz, notch filters and appropriate amplifiers and external mixers were utilized.

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FCC ID: IPH-A3562 IC: 1792A-A3562

Date: October 27, 2021

Page 15 of 29



Table 2 General Radiated Emissions Data

Frequency (MHz)	Horizontal Peak (dBµV/m)	Horizontal Quasi-Peak (dBµV/m)	Vertical Peak (dBµV/m)	Vertical Quasi-Peak (dBµV/m)	Limit @ 3m (dBµV/m)	Horizontal Margin (dB)	Vertical Margin (dB)
148.5	45.3	29.3	42.1	29.9	40.0	-10.7	-10.1
173.8	36.7	27.8	32.0	24.0	40.0	-12.2	-16.0
177.8	32.3	25.9	30.5	22.9	40.0	-14.1	-17.1
211.7	39.3	30.9	33.9	31.6	40.0	-9.1	-8.4
297.0	33.1	27.8	37.1	29.5	47.0	-19.2	-17.5
445.5	30.0	23.4	35.6	25.9	47.0	-23.6	-21.1
891.0	36.7	30.7	37.1	31.4	47.0	-16.3	-15.6

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency range below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

Summary of Results for General Radiated Emissions

The EUT demonstrated compliance with the radiated emissions requirements of 47CFR Part 15C paragraph 15.209, RSS-210 Issue 10, and RSS-GEN Issue 5 Intentional Radiators. The EUT configuration demonstrated a minimum margin of -8.4 dB below the requirements. Other emissions were present with amplitudes at least 20 dB below the Limits.

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Date: October 27, 2021

FCC ID: IPH-A3562

IC: 1792A-A3562

Page 16 of 29



Operation in the Band 2400 - 2483.5 MHz

The transmitter output power, harmonic, and general emissions were measured on an Open Area Test Site (OATS) @ 3 meters. The amplitude of radiated emission was measured on the OATS at distance of 3 meters from the FSM antenna (radiated emission testing was performed on sample #1) representative of production equipment with integral antennas. The EUT was placed on a turntable elevated as required above the ground plane and at a distance of 3 meters from the FSM antenna. The peak and quasi-peak amplitude of frequencies below 1000 MHz were measured using a spectrum analyzer. The peak and average amplitude of frequencies above 1000 MHz were measured using a spectrum analyzer. The amplitude of each emission was then recorded from the analyzer display. Emissions radiated outside of the specified bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits, whichever is the lesser attenuation. Antenna port emission plots were taken of transmitter performance for reference in this and other documentation using test sample #4. The amplitude of each radiated emission was maximized by equipment orientation and placement on the turn table, raising and lowering the FSM (Field Strength Measuring) antenna, changing the FSM antenna polarization, and by rotating the turntable. A Loop antenna was used for measuring emissions from 0.009 to 30 MHz, Biconilog Antenna for 30 to 1000 MHz, Double-Ridge, and/or Pyramidal Horn Antennas from 1 GHz to 25 GHz. Emissions were measured in dBµV/m @ 3 meters.

Refer to figures one through four showing plots of mode 1 taken of the 2402-2480 MHz transmitter operation displaying compliance with the specifications.

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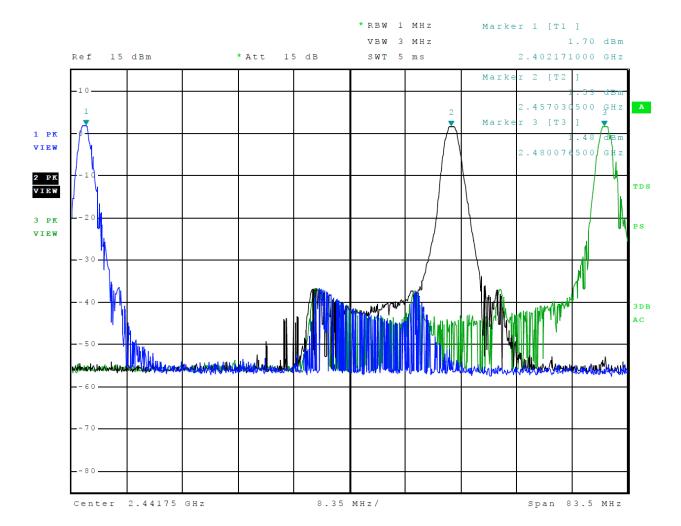
Garmin International, Inc. FCC ID: IPH-A3562 Model: AA3562 IC: 1792A-A3562

Test: 211001 SN's: 3387568865, 3387568938, 3387568865, 3387568897 Test to: 47CFR 15C, RSS-Gen RSS-247 Date: October 27, 2021

File: AA3562 DXX TstRpt Page 17 of 29



Figure 1 Plot of Transmitter Emissions Operation in 2402-2480 MHz Mode 1 ANT (GFSK)



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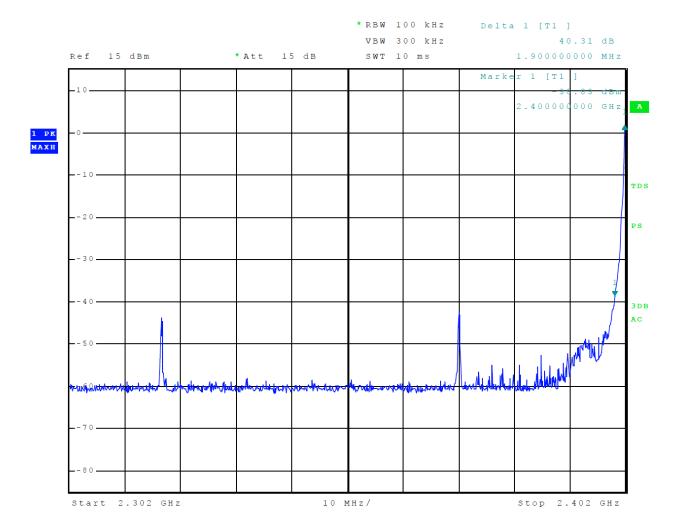
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Page 18 of 29



Figure 2 Plot of Transmitter Emissions Low Band Edge Mode 1 ANT (GFSK)



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Model: AA3562

Test: 211001 SN's: 3387568865, 3387568938, 3387568865, 3387568897 Test to: 47CFR 15C, RSS-Gen RSS-247

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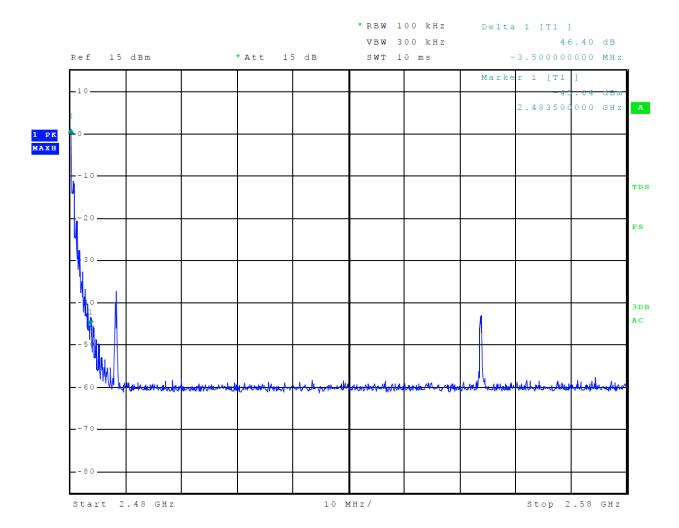
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Page 19 of 29



Figure 3 Plot of Transmitter Emissions High Band Edge Mode 1 ANT (GFSK)



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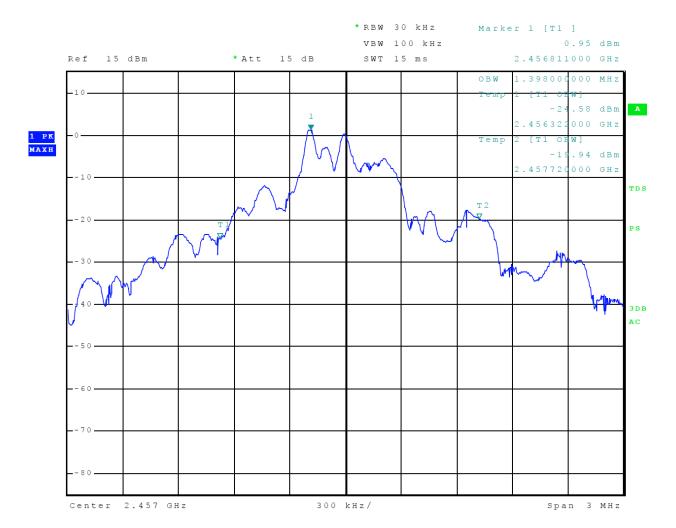
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Page 20 of 29



Figure 4 Plot of Transmitter Emissions 99% Occupied Bandwidth Mode 1 ANT (GFSK)



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FCC ID: IPH-A3562 IC: 1792A-A3562

Date: October 27, 2021 Page 21 of 29



Transmitter Emissions Data

Table 3 Transmitter Radiated Emissions Mode 1 ANT (GFSK)

Frequency in MHz	Horizontal Peak (dBµV/m)	Horizontal Average (dBµV/m)	Vertical Peak (dBµV/m)	Vertical Average (dBµV/m)	Limit @ 3m (dBµV/m)	Horizontal Margin (dB)	Vertical Margin (dB)
2402.0	92.8	60.2	98.9	66.2	94.0	-33.8	-27.8
4804.0	50.6	36.0	49.7	35.9	54.0	-18.0	-18.1
7206.0	55.6	39.9	53.5	39.9	54.0	-14.1	-14.1
9608.0	55.8	42.6	55.9	42.7	54.0	-11.4	-11.3
12010.0	59.3	46.2	58.6	45.9	54.0	-7.8	-8.1
14412.0	62.4	48.7	61.8	48.7	54.0	-5.3	-5.3
16814.0	64.0	51.0	63.9	51.0	54.0	-3.0	-3.0
2457.0	91.3	59.1	97.4	64.8	94.0	-34.9	-29.2
4914.0	50.7	39.3	50.2	35.8	54.0	-14.7	-18.2
7371.0	56.9	43.4	53.3	39.8	54.0	-10.6	-14.2
9828.0	57.0	43.6	55.8	42.5	54.0	-10.4	-11.5
12285.0	60.3	47.1	59.1	45.7	54.0	-6.9	-8.3
14742.0	62.6	50.0	61.6	48.8	54.0	-4.0	-5.2
17199.0	64.7	51.9	63.4	50.6	54.0	-2.1	-3.4
2480.0	93.6	60.9	98.4	65.7	94.0	-33.1	-28.3
4960.0	52.0	37.5	53.8	37.7	54.0	-16.5	-16.3
7440.0	57.5	43.6	56.8	44.0	54.0	-10.4	-10.0
9920.0	56.9	43.3	56.2	43.4	54.0	-10.7	-10.6
12400.0	59.6	46.8	59.7	46.7	54.0	-7.2	-7.3
14880.0	63.1	50.1	62.7	50.1	54.0	-3.9	-3.9
17360.0	65.4	51.4	64.3	51.4	54.0	-2.6	-2.6

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency range below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

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Test: 211001 SN's: 3387568865, 3387568938, 3387568865, 3387568897 Date: October 27, 2021

Revision 1

File: AA3562 DXX TstRpt

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Page 22 of 29



Summary of Results for Transmitter Radiated Emissions of Intentional Radiator

The EUT demonstrated compliance with the radiated emissions requirements of 47CFR Part 15.249, Industry Canada RSS-210 Issue 10, and RSS-GEN Issue 5 Intentional Radiator regulations. The EUT worst-case test sample configuration demonstrated minimum average margin of -27.8 dB below the average emission limit for the fundamental. The EUT worst-case configuration demonstrated minimum radiated harmonic emission margin of -2.1 dB below the limit. No other radiated emissions were found in the restricted bands less than 20 dB below limits than those recorded in this report. Other emissions were present with amplitudes at least 20 dB below the limits.

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Test to: 47CFR 15C, RSS-Gen RSS-247

IC: 1792A-A3562

FCC ID: IPH-A3562

Date: October 27, 2021

Page 23 of 29



Annex

- Annex A Measurement Uncertainty Calculations
- Annex B Test Equipment
- Annex C Rogers Qualifications
- Annex D Laboratory Certificate of Accreditation

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File: AA3562 DXX TstRpt Page 24 of 29

FCC ID: IPH-A3562



Annex A Measurement Uncertainty Calculations

The measurement uncertainty was calculated for all measurements listed in this test report according To CISPR 16-4. Result of measurement uncertainty calculations are recorded below. Component and process variability of production devices similar to those tested may result in additional deviations. The manufacturer has the sole responsibility of continued compliance.

Measurement	Expanded Measurement Uncertainty U _(lab)
3 Meter Horizontal 0.009-1000 MHz Measurements	4.16
3 Meter Vertical 0.009-1000 MHz Measurements	4.33
3 Meter Measurements 1-18 GHz	5.14
3 Meter Measurements 18-40 GHz	5.16
10 Meter Horizontal Measurements 0.009-1000 MHz	4.15
10 Meter Vertical Measurements 0.009-1000 MHz	4.32
AC Line Conducted	1.75
Antenna Port Conducted power	1.17
Frequency Stability	1.00E-11
Temperature	1.6°C
Humidity	3%

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Test to: 47CFR 15C, RSS-Gen RSS-247 File: AA3562 DXX TstRpt

IC: 1792A-A3562

FCC ID: IPH-A3562

Date: October 27, 2021

Page 25 of 29



Annex B Test Equipment

<u>Equipment</u>	Manufacturer	Model (SN)	Band Ca	al Date(m/d/y) Due
□ LISN	FCC FCC-L	ISN-50-25-10(1PA) (160611)		4/6/2021	4/6/2022
\square LISN	Compliance Design	FCC-LISN-2.Mod.cd,(126)	.15-30MHz	10/14/2020	10/14/2021
⊠ Cable	Huber & Suhner In	c. Sucoflex102ea(L10M)(3030	73)9kHz-40 GHz	10/14/2020	10/14/2021
\square Cable	Huber & Suhner In	c. Sucoflex102ea(1.5M)(30306	9)9kHz-40 GHz	10/14/2020	10/14/2021
⊠ Cable	Huber & Suhner In	c. Sucoflex102ea(1.5M)(30307	0)9kHz-40 GHz	10/14/2020	10/14/2021
\square Cable	Belden	RG-58 (L1-CAT3-11509)	9kHz-30 MHz	10/14/2020	10/14/2021
\square Cable	Belden	RG-58 (L2-CAT3-11509)	9kHz-30 MHz	10/14/2020	10/14/2021
	Com Power	AL-130 (121055)	.001-30 MHz	10/14/2020	10/14/2021
☐ Antenna:	EMCO	6509	.001-30 MHz	10/14/2020	10/14/2022
☐ Antenna	ARA	BCD-235-B (169)	20-350MHz	10/14/2020	10/14/2021
☐ Antenna:	Schwarzbeck Mode	el VHBB 9124 (1468)		10/14/2020	10/14/2022
	Sunol	JB-6 (A100709)	30-1000 MHz	10/14/2020	10/14/2021
☐ Antenna	ETS-Lindgren	3147 (40582)	200-1000MHz	10/14/2020	10/14/2022
☐ Antenna:	•	el: VULP 9118 A (VULP 9118	A-534)	10/14/2020	10/14/2022
	ETS-Lindgren	3117 (200389)	1-18 GHz	4/21/2020	4/21/2022
□ Antenna	Com Power	AH-118 (10110)	1-18 GHz	10/14/2020	10/14/2022
	Com Power	AH-840 (101046)	18-40 GHz	4/6/2021	4/6/2023
⊠ Analyzer	Rohde & Schwarz	ESU40 (100108)	20Hz-40GHz	5/20/2021	5/20/2022
⊠ Analyzer	Rohde & Schwarz	ESW44 (101534)	20Hz-44GHz	1/12/2021	1/12/2022
☐ Analyzer	Rohde & Schwarz	FS-Z60, 90, 140, and 220	40GHz-220GHz		12/22/2027
	Com-Power	PA-010 (171003)	100Hz-30MHz	10/14/2020	10/14/2021
	Com-Power	CPPA-102 (01254)	1-1000 MHz	10/14/2020	10/14/2021
	Com-Power	PAM-118A (551014)	0.5-18 GHz	10/14/2020	10/14/2021
	Com-Power	PAM-840A (461328)	18-40 GHz	10/14/2020	10/14/2021
□ Power Mete		N1911A with N1921A	0.05-40 GHz	4/6/2021	4/6/2022
☐ Generator	Rohde & Schwarz	SMB100A6 (100150)	20Hz-6 GHz	4/6/2021	4/6/2022
☐ Generator	Rohde & Schwarz	SMBV100A6 (260771)	20Hz-6 GHz	4/6/2021	4/6/2022
☐ RF Filter	Micro-Tronics	BRC50722 (009).9G notch	30-18000 MHz	4/6/2021	4/6/2022
☐ RF Filter	Micro-Tronics	HPM50114 (017)1.5G HPF	30-18000 MHz	4/6/2021	4/6/2022
☐ RF Filter	Micro-Tronics	HPM50117 (063) 3G HPF	30-18000 MHz	4/6/2021	4/6/2022
☐ RF Filter	Micro-Tronics	HPM50105 (059) 6G HPF	30-18000 MHz	4/6/2021	4/6/2022
⊠ RF Filter	Micro-Tronics	BRM50702 (172) 2G notch	30-18000 MHz	4/6/2021	4/6/2022
☐ RF Filter	Micro-Tronics	BRC50703 (G102) 5G notch		4/6/2021	4/6/2022
☐ RF Filter	Micro-Tronics	BRC50705 (024) 5G notch	30-18000 MHz	4/6/2021	4/6/2022
☐ Attenuator	Fairview	SA6NFNF100W-40 (1625)	30-18000 MHz	4/6/2021	4/6/2022
☐ Attenuator	Mini-Circuits	VAT-3W2+ (1436)	30-6000 MHz	4/6/2021	4/6/2022
☐ Attenuator	Mini-Circuits	VAT-3W2+ (1445)	30-6000 MHz	4/6/2021	4/6/2022
☐ Attenuator	Mini-Circuits	VAT-3W2+ (1735)	30-6000 MHz	4/6/2021	4/6/2022
☐ Attenuator	Mini-Circuits	VAT-6W2+ (1438)	30-6000 MHz	4/6/2021	4/6/2022
☐ Attenuator	Mini-Circuits	VAT-6W2+ (1736)	30-6000 MHz	4/6/2021	4/6/2022
		6312 (A81120N075)	00 0000 1/1112	11/4/2020	11/4/2021
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Rogers Labs,	Inc. Ga	rmin International, Inc.	FO	CC ID: IPH-	A3562
4405 West 25		odel: AA3562		C: 1792A-A3	
Louisburg, KS		st: 211001 SN's: 3387568865			
Phone/Fax: (9		st to: 47CFR 15C, RSS-Gen		ate: October	
Revision 1	*	e: AA3562 DXX TstRpt		age 26 of 29	_,,
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List of Test Eq	uipment		Calibration	Date (m/d/y)	<u>Due</u>
☐ Antenna:	Schwarzbeck M		4/21/2020	4/21/2022	
☐ Antenna:	Schwarzbeck M	odel: VULP 9118 A (VULP 9	118 A-534)	4/21/2020	4/21/2022
☐ Frequency (4/6/2021	4/6/2022			
☐ LISN: Com	-Power Model LI	-220A		10/14/2020	10/14/2021
☐ LISN: Com	-Power Model LI	-550C		10/14/2020	10/14/2021
☐ ISN: Com-I	Power Model ISN	T-8		4/6/2021	4/6/2022
☐ LISN: Fisch	ner Custom Comm	nunications Model: FCC-LISN	-50-16-2-08	4/6/2021	4/6/2022
\square Cable	Huber & Suhner	Inc. Sucoflex102ea(1.5M)(30	3072) 9kHz-40 GH	Iz 10/14/2020	10/14/2021
\square Cable	Huber & Suhner	Inc. Sucoflex102ea(L1M)(28	1183) 9kHz-40 GH	z 10/14/2020	10/14/2021
\square Cable	Huber & Suhner	Inc. Sucoflex102ea(L4M)(28	1184) 9kHz-40 GH	z 10/14/2020	10/14/2021
\square Cable	Huber & Suhner	Inc. Sucoflex102ea(L10M)(3	17546)9kHz-40 GH	Iz 10/14/2020	10/14/2021
\square Cable	Time Microway	e 4M-750HF290-750 (4M)	9kHz-24 GH	z 10/14/2020	10/14/2021
☐ RF Filter	Micro-Tronics	BRC17663 (001) 9.3-9.5	notch 30-1800 MF	Iz 4/6/2021	4/6/2022
☐ RF Filter	Micro-Tronics	BRC19565 (001) 9.2-9.6	notch 30-1800 MF	Iz 10/16/2018	4/6/2022
\square Analyzer	HP	8562A (3051A05950)	9kHz-125GHz	4/6/2021	4/6/2022
\square Analyzer	HP External Mi	xers11571, 11970	25GHz-110GH	Hz 4/18/2015	4/18/2025
\square Analyzer	HP	8591EM (3628A00871)		4/21/2020	4/21/2022
☐ Wave Form	Generator Keysi	ght 33512B (MY57400128)		4/21/2020	4/6/2022
☐ Antenna: S	olar 9229-1 & 92	30-1		2/22/2021	2/22/2022
□ CDN: Com-	-Power Model CI	N325E		10/14/2020	10/14/2021
☐ Injection Cl	amp Luthi Model	EM101		10/14/2020	10/14/2021
☐ Oscilloscop	e Scope: Tektron	ix MDO 4104		2/22/2021	2/22/2022
☐ EMC Trans	ient Generator H	7T TR 3000		2/22/2021	2/22/2022
\square AC Power S	Source (Ametech,	California Instruments)		2/22/2021	2/22/2022
☐ Field Intens	sity Meter: EFM-0	18		2/22/2021	2/22/2022
☐ ESD Simula	ator: MZ-15			2/22/2021	2/22/2022
☐ R.F. Power	Amp ACS 230-5)W		not required	
☐ R.F. Power	Amp EIN Model	A301		not required	
☐ R.F. Power	Amp A.R. Model	: 10W 1010M7		not required	
☐ R.F. Power	Amp A.R. Model	: 50U1000		not required	
☐ Tenney Temperature Chamber					
⊠ Shielded Room					
Rogers Labs, 4405 West 25 Louisburg, Ka Phone/Fax: (9 Revision 1	9 th Terrace	Garmin International, Inc. Model: AA3562 Test: 211001 SN's: 3387568 Test to: 47CFR 15C, RSS-C File: AA3562 DXX TstRpt	3865, 3387568938, Gen RSS-247	FCC ID: IPH- IC: 1792A-A3 3387568865, 3 Date: October Page 27 of 29	3562 387568897 27, 2021



Annex C Rogers Qualifications

Scot D. Rogers, Engineer

Rogers Labs, Inc.

Mr. Rogers has approximately 35 years' experience in the field of electronics. Working experience includes six years working in the automated controls industry and remaining years working with the design, development and testing of radio communications and electronic equipment.

Positions Held:

Systems Engineer: A/C Controls Mfg. Co., Inc. 6 Years

Electrical Engineer: Rogers Consulting Labs, Inc. 5 Years

Electrical Engineer: Rogers Labs, Inc. Current

Educational Background:

Bachelor of Science Degree in Electrical Engineering from Kansas State University

Bachelor of Science Degree in Business Administration Kansas State University

Several Specialized Training courses and seminars pertaining to Microprocessors and

Software programming

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Revision 1 File: AA3562 DXX TstRpt Page 28 of 29



Annex D Laboratory Certificate of Accreditation

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200087-0

Rogers Labs, Inc.

Louisburg, KS

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2021-02-19 through 2022-03-31

Effective Dates

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053

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File: AA3562 DXX TstRpt

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Date: October 27, 2021

Page 29 of 29