

TEST REPORT

Report Number: R15605213-E4

Applicant : Garmin International Inc.
1200 East 151st Street
Olathe, KS 66062-3426, USA

Model : A04911

FCC ID : IPH-04911

EUT Description : Extremity Worn Digital Transceiver

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C: 2025

Date Of Issue:
2025-04-09

Prepared by:
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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
v1	2025-04-09	Initial Issue	Chandler Stanley

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Garmin International Inc.
1200 East 151st Street
Olathe, KS 66062-3426, USA

EUT DESCRIPTION: Extremity Worn Digital Transceiver

MODEL: A04911

SERIAL NUMBER: 3497995537, 3497995201

SAMPLE RECEIPT DATE: 2024-12-17

DATE TESTED: 2024-12-27 to 2025-01-06

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C: 2025	Refer to Section 3

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released
For UL LLC By:



Brian Kiewra
Project Engineer
Consumer, Medical and IT Segment
UL LLC

Prepared By:



Chandler Stanley
Engineer
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UL LLC

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- ANSI C63.10-2020
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15C

3. SUMMARY OF TEST RESULTS

Requirement Description	Requirement Clause Number	Result	Remarks
Occupied Bandwidth	FCC §15.215 (c)	Not Performed	See Note 1
Fundamental Measurements.	FCC §15.225 (a-d) FCC §15.209 (d)	Compliant	None
Tx Spurious Emissions			
Frequency Stability	FCC §15.225 (e)	Not Performed	See Note 1
AC Mains Line Conducted Emissions	FCC §15.207	Compliant	None

Note 1: This test report covers radiated testing on a depopulated version of a certified product, resulting in a C2PC. It is the responsibility of the end product manufacturer to provide the certification reports to show full compliance to the FCC requirements.

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, Certificate Number #0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
<input type="checkbox"/>	Building: 12 Laboratory Dr RTP, NC 27709, U.S.A	US0067	2180C	825374
<input checked="" type="checkbox"/>	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Channel Bandwidth	1.22%
RF output power, conducted	1.3 dB (PK) 0.45 dB (AV)
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	1.94 dB
All emissions, radiated	6.01 dB
Conducted Emissions (0.150-30MHz) - LISN	3.40 dB
Temperature	0.57°C
Humidity	3.39%
DC Supply voltages	1.70%

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

$$\text{Field Strength (dBuV/m)} = \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Preamp Gain (dB)}$$

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

$$\text{Final Voltage (dBuV)} = \text{Measured Voltage (dBuV)} + \text{Cable Loss (dB)} + \text{Limiter Factor (dB)} + \text{LISN Insertion Loss.}$$

$$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$$

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a Extremity Worn Digital Transceiver with BT, BLE, ANT+, 802.11b/g/n 2.4GHz WLAN, NFC, and Global Navigation Satellite System (GNSS) receiver. This report covers radiated testing of the NFC radio.

6.2. MAXIMUM ELECTRIC FIELD STRENGTH

The transmitter has a maximum peak radiated electric field strength at 30m as follows:

Fundamental Frequency (MHz)	E-Field (dBuV/m)
13.56	28.52

6.3. SOFTWARE AND FIRMWARE

The software version installed during testing was 3.51.

6.4. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated under three orthogonal orientations X, Y, and Z. The Z orientation was determined to be the worst-case orientation. Therefore, all final radiated testing was performed with the EUT in the Z orientation.

In addition, Type A, B, AB, F, and AF with and without a tag were investigated to determine the worst case based on the highest power and spurious emissions. Type B with a tag was determined to be the worst case and therefore selected for all final tests.

The distance between the EUT and NFC reader was also investigated, and the worst-case condition occurs when the NFC reader and EUT are separated by 3cm; therefore, all final radiated testing was performed with the EUT and NFC reader separated by 3cm.

6.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adaptor	Garmin/Phihong	AQ27A-59CFA	N/A	N/A
NFC Reader	Synnix Technology Co.	CL-2100R	N/A	N/A
Laptop	Lenovo	T14	PF4FKVYQ	N/A

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Proprietary	1	USB-C	Shielded	<3m	Program/Charge EUT

SETUP DIAGRAM

Please refer to R15605213-EP3 for setup diagrams

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
0.009-30MHz					
135144	Active Loop Antenna	ETS-Lindgren	6502	2024-10-02	2025-10-02
30-1000 MHz					
90628	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2024-01-02	2026-01-02
Gain-Loss Chains					
207638	Gain-loss string: 0.009-30MHz	Various	Various	2024-05-22	2025-05-22
207639	Gain-loss string: 25-1000MHz	Various	Various	2024-05-22	2025-05-22
Receiver & Software					
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2024-04-16	2025-04-16
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
241204	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2024-04-04	2025-04-04
179892	Environmental Meter	Fisher Scientific	15-077-963	2024-08-12	2025-08-12
80391	LISN, 50-ohm/50-uH, 250uH 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50/250-25-2-01	2024-08-01	2025-08-01
70374	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2024-7-30	2025-7-30
52859	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2024-04-04	2025-04-04
PS216	AC Power Source	Elgar	CW2501M	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Miscellaneous (if needed)					
84681	ANSI C63.4 1m extension cable.	UL	Per Annex B of ANSI C63.4	2024-04-04	2025-04-04

8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMIT

FCC §15.225

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/ meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110– 14.010 MHz and shall not exceed the general radiated emission limits in § 15.209 as follows:

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

Formula for converting the filed strength from uV/m to dBuV/m is:

$$\text{Limit (dBuV/m)} = 20 \log \text{limit (uV/m)}$$

In addition:

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

§15.209 (d) The provisions in §§ 15.225, measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part.

TEST PROCEDURE

ANSI C63.10 - 2020

The EUT is an intentional radiator that incorporates a digital device, the highest fundamental frequency generated or used in the device is 13.56 MHz; therefore, the frequency range was investigated from 9kHz to the 10th harmonic of the highest fundamental frequency, or 1000 MHz, whichever is greater.

Note: For all Below 30MHz test data, all measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were $40 * \text{Log}(\text{test distance} / \text{specification distance})$

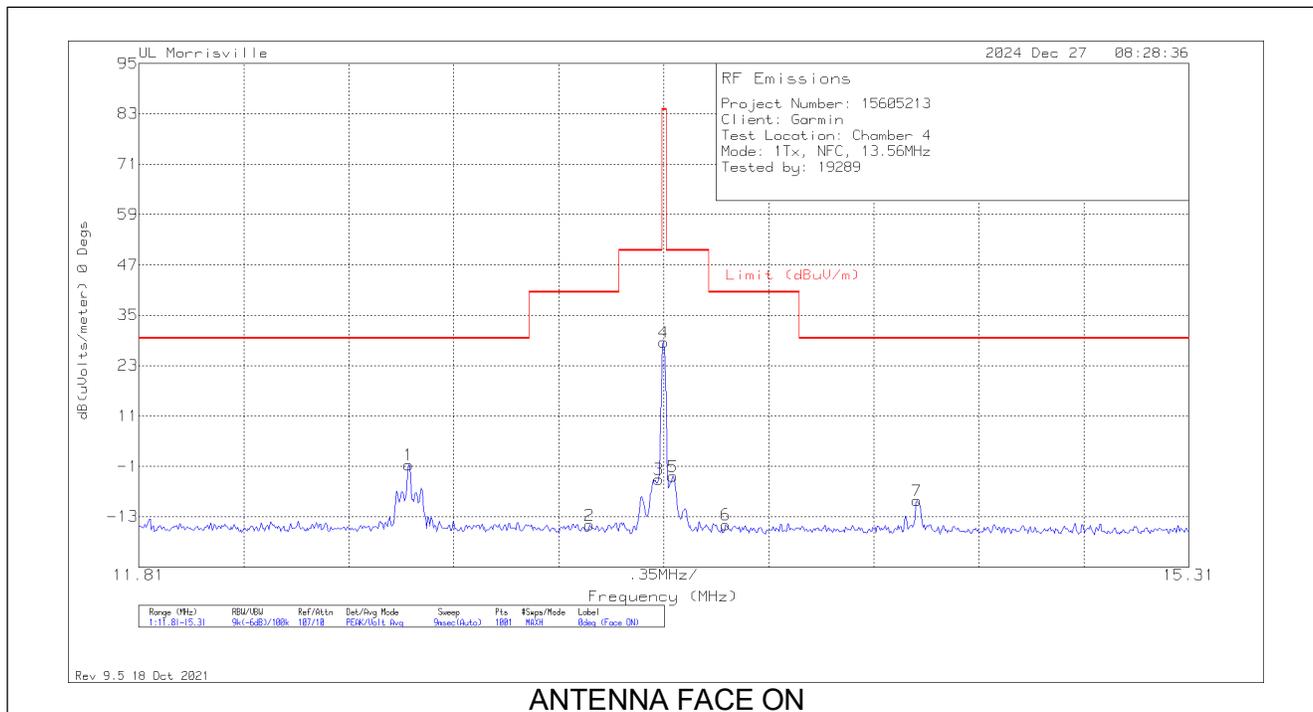
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

RESULTS

8.2. FUNDAMENTAL AND SPURIOUS EMISSIONS (<30MHz)

8.2.1. TYPE B, TAG ON

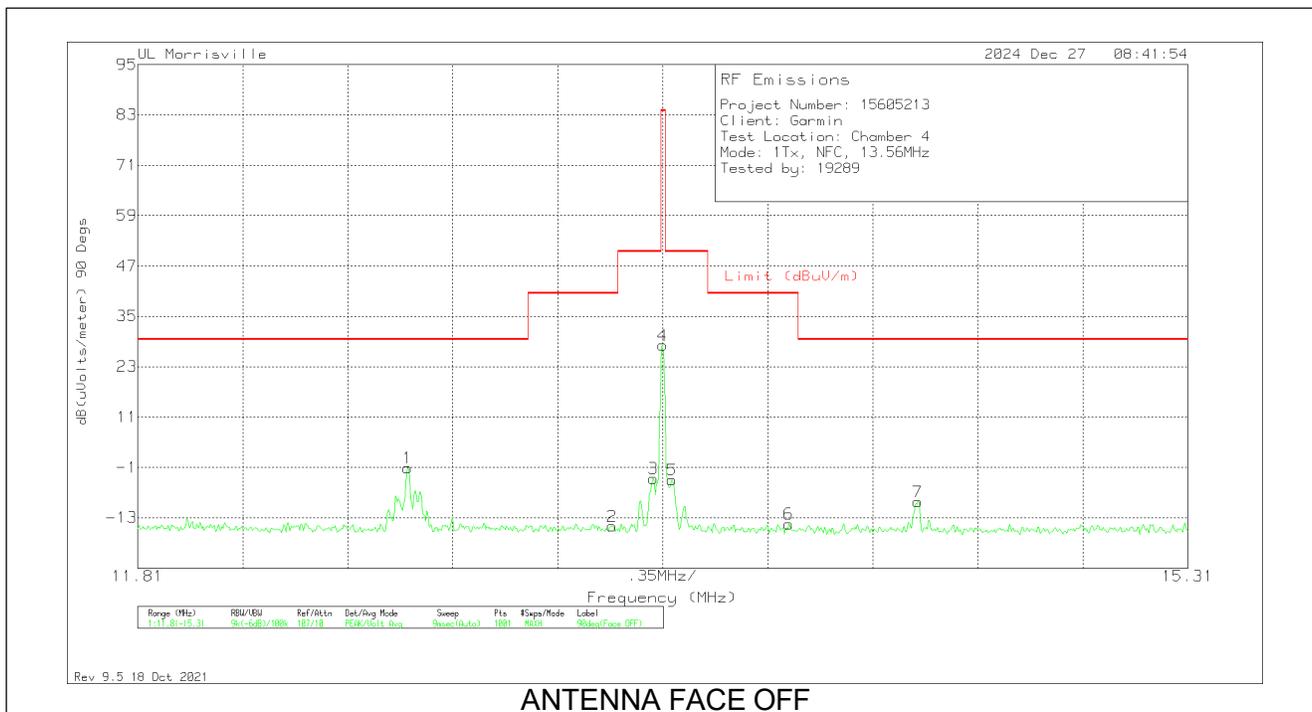
FUNDAMENTAL



ANTENNA FACE ON

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
1	12.7095	28.98	Pk	9.9	.5	-40	-62	29.5	-30.12	358	100	0 degs
2	13.3115	14.68	Pk	9.8	.5	-40	-15.02	40.5	-55.52	358	100	0 degs
3	13.5425	25.63	Pk	9.8	.5	-40	-4.07	50.5	-54.57	358	100	0 degs
4	13.56	58.22	Pk	9.8	.5	-40	28.52	84	-55.48	358	100	0 degs
5	13.5915	26.27	Pk	9.8	.5	-40	-3.43	50.5	-53.93	358	100	0 degs
6	13.7665	14.82	Pk	9.7	.5	-40	-14.98	40.5	-55.48	358	100	0 degs
7	14.4035	20.58	Pk	9.7	.5	-40	-9.22	29.5	-38.72	358	100	0 degs

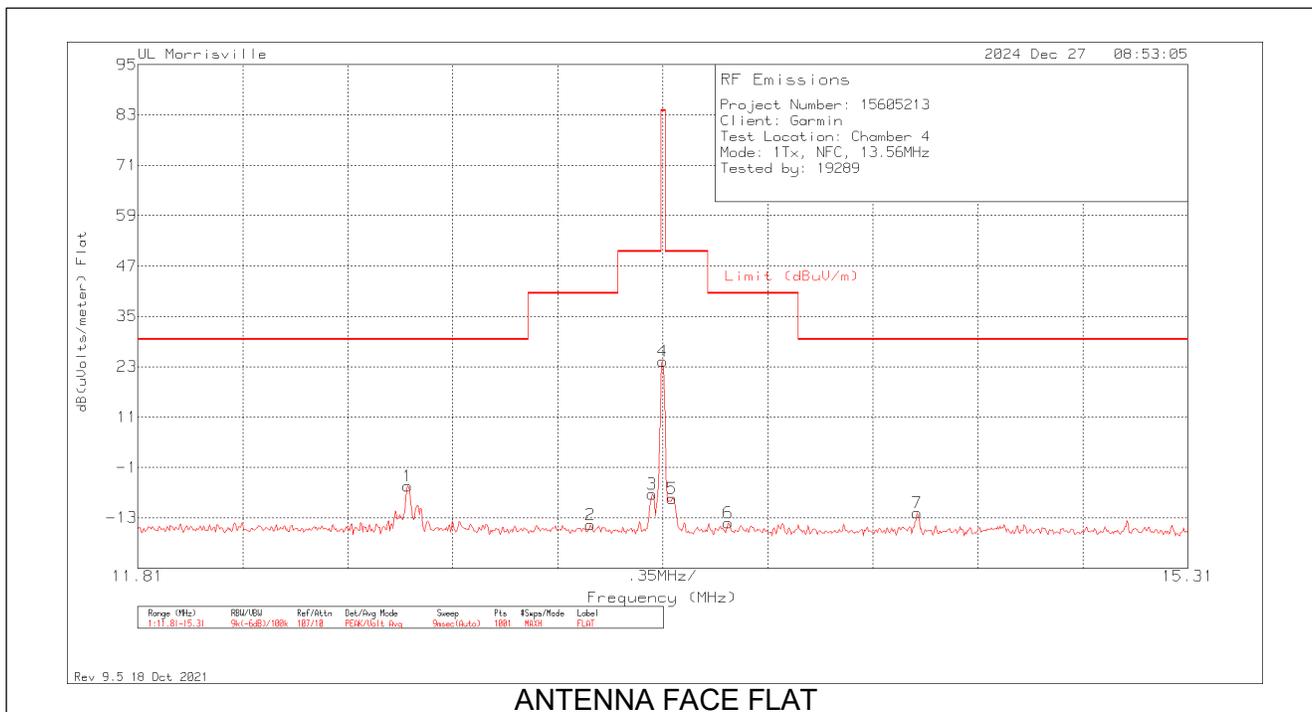
Pk - Peak detector



ANTENNA FACE OFF

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
1	12.7095	28.5	Pk	9.9	.5	-40	-1.1	29.5	-30.6	85	100	90 degs
2	13.392	14.68	Pk	9.8	.5	-40	-15.02	40.5	-55.52	85	100	90 degs
3	13.5285	26.08	Pk	9.8	.5	-40	-3.62	50.5	-54.12	85	100	90 degs
4	13.56	57.77	Pk	9.8	.5	-40	28.07	84	-55.93	85	100	90 degs
5	13.5915	25.69	Pk	9.8	.5	-40	-4.01	50.5	-54.51	85	100	90 degs
6	13.98	15.31	Pk	9.7	.5	-40	-14.49	40.5	-54.99	85	100	90 degs
7	14.4105	20.59	Pk	9.7	.5	-40	-9.21	29.5	-38.71	85	100	90 degs

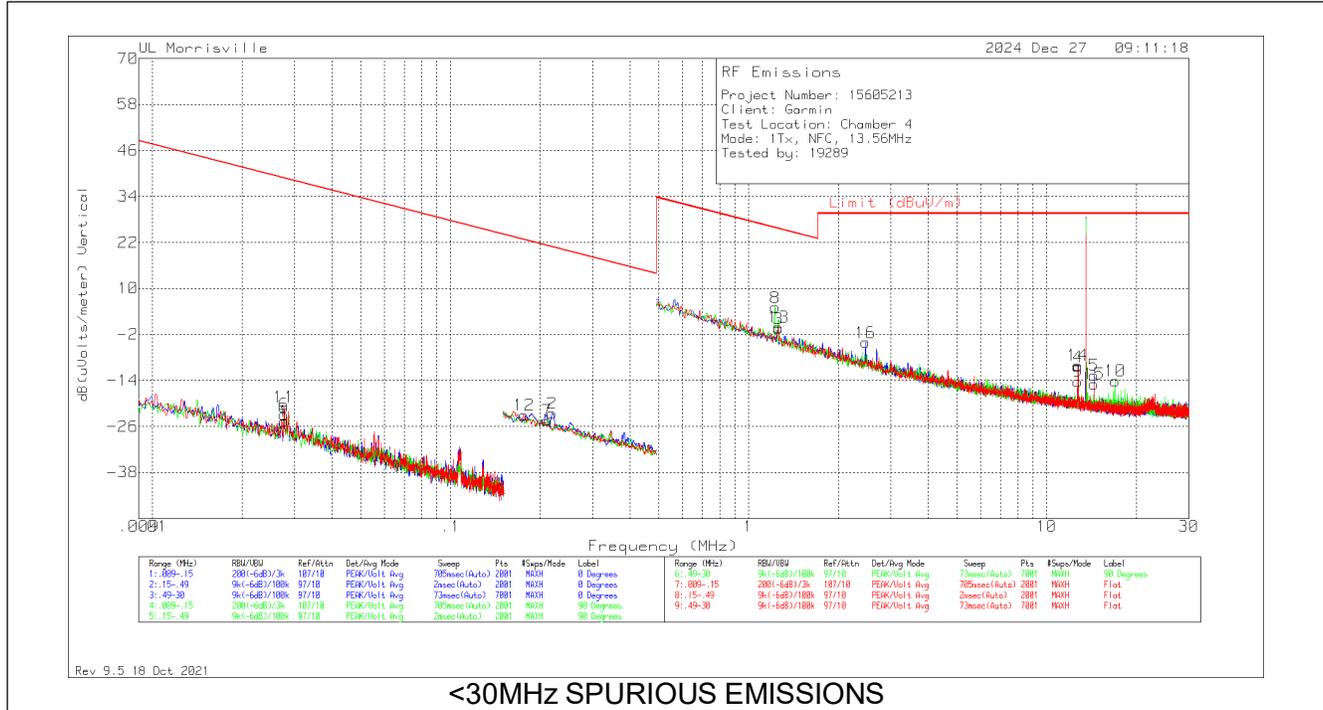
Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
1	12.7095	24.22	Pk	9.9	.5	-40	-5.38	29.5	-34.88	4	100	Flat
2	13.3185	15	Pk	9.8	.5	-40	-14.7	40.5	-55.2	4	100	Flat
3	13.525	22.35	Pk	9.8	.5	-40	-7.35	50.5	-57.85	4	100	Flat
4	13.56	53.94	Pk	9.8	.5	-40	24.24	84	-59.76	4	100	Flat
5	13.5915	21.35	Pk	9.8	.5	-40	-8.35	50.5	-58.85	4	100	Flat
6	13.777	15.62	Pk	9.7	.5	-40	-14.18	40.5	-54.68	4	100	Flat
7	14.407	17.93	Pk	9.7	.5	-40	-11.87	29.5	-41.37	4	100	Flat

Pk - Peak detector

SPURIOUS EMISSION - E FIELD

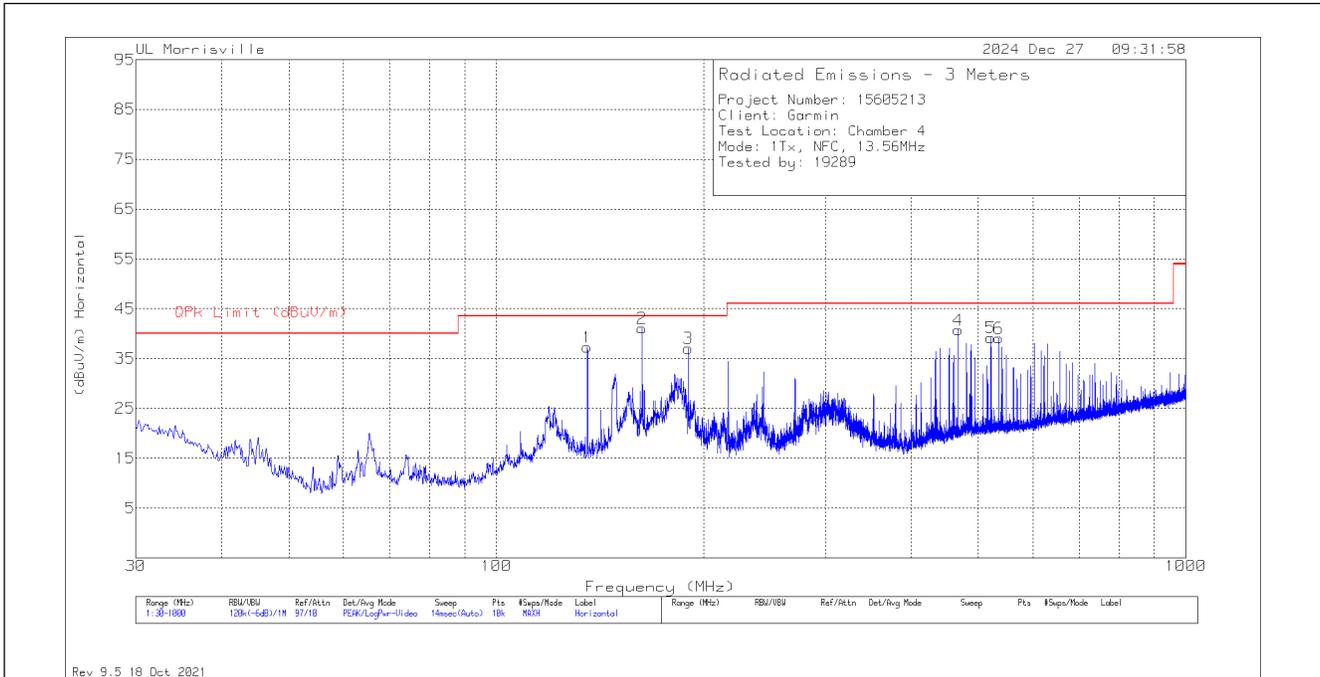


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	.0276	41.93	Pk	13.3	.1	-80	-24.67	38.79	58.79	-63.46	0-360	0 degs
6	.02767	43.7	Pk	13.3	.1	-80	-22.9	38.76	58.76	-61.66	0-360	90 degs
11	.02767	45.72	Pk	13.3	.1	-80	-20.88	38.76	58.76	-59.64	0-360	Flat
12	.17644	45.85	Pk	11	.1	-80	-23.05	22.67	42.67	-45.72	0-360	Flat
7	.21137	44.57	Pk	10.9	.1	-80	-24.43	21.1	41.1	-45.53	0-360	90 degs
2	.21953	46.38	Pk	10.9	.1	-80	-22.62	20.77	40.77	-43.39	0-360	0 degs
8	1.2278	33.82	Pk	11	.2	-40	5.02	25.82	-	-20.8	0-360	90 degs
3	1.25731	28.29	Pk	11	.2	-40	-.51	25.62	-	-26.13	0-360	0 degs
13	1.25731	28.66	Pk	11	.2	-40	-.14	25.62	-	-25.76	0-360	Flat
16	2.4673	24.61	Pk	11.1	.2	-40	-4.09	29.54	-	-33.63	0-360	0 degs
14	12.70375	19.54	Pk	9.9	.5	-40	-10.06	29.54	-	-39.6	0-360	Flat
9	12.7164	15.36	Pk	9.9	.5	-40	-14.24	29.54	-	-43.78	0-360	90 degs
4	12.75434	19.16	Pk	9.9	.5	-40	-10.44	29.54	-	-39.98	0-360	0 degs
15	14.4028	14.95	Pk	9.7	.5	-40	-14.85	29.54	-	-44.39	0-360	Flat
5	14.40702	17.13	Pk	9.7	.5	-40	-12.67	29.54	-	-42.21	0-360	0 degs
10	16.97034	16.04	Pk	9.4	.5	-40	-14.06	29.54	-	-43.6	0-360	90 degs

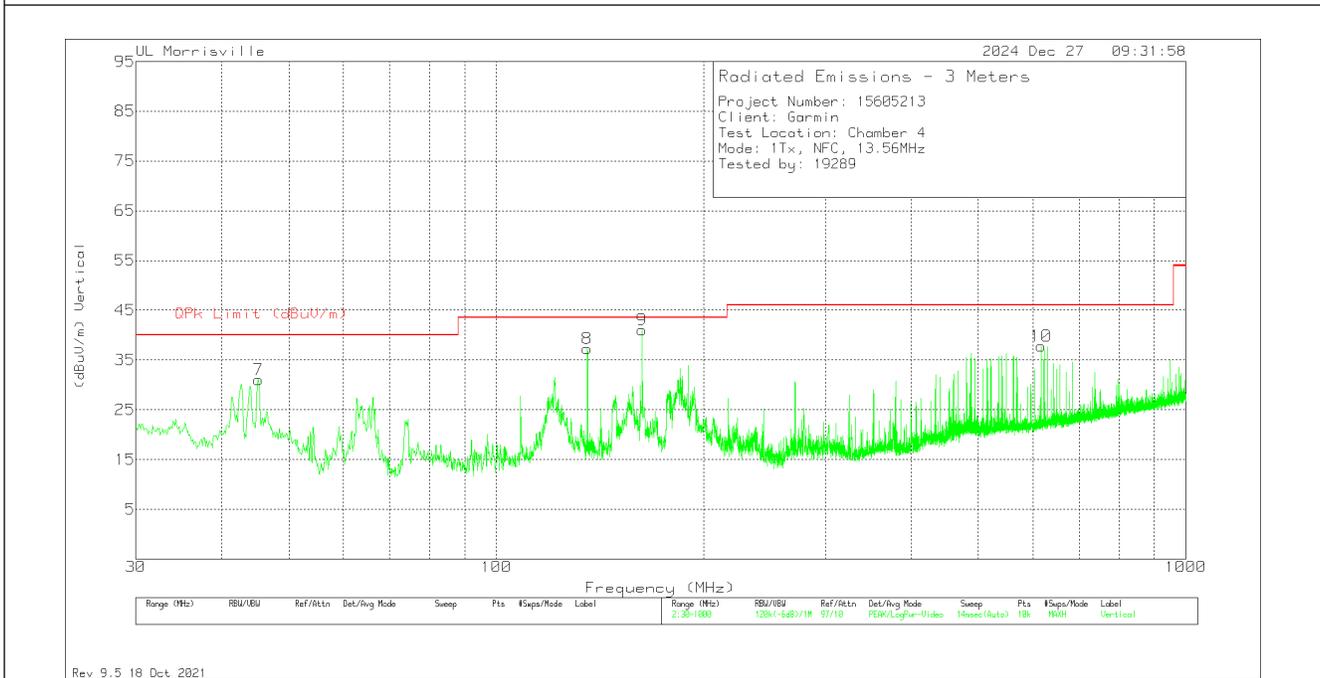
Pk - Peak detector

8.3. TX SPURIOUS EMISSION 30 TO 1000 MHz

8.3.1. TYPE B, WITH TAG



HORIZONTAL



VERTICAL

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	45.1805	46.61	Pk	16.4	-32	31.01	40	-8.99	0-360	100	V
1	135.536	48.85	Pk	19.6	-31.2	37.25	43.52	-6.27	0-360	100	H
8	135.536	48.9	Pk	19.6	-31.2	37.3	43.52	-6.22	0-360	100	V
2	162.71398	52.16	Qp	18.4	-31.1	39.46	43.52	-4.06	192	165	H
9	162.71182	52.94	Qp	18.4	-31.1	40.24	43.52	-3.28	310	107	V
3	189.856	50.67	Pk	17.3	-30.9	37.07	43.52	-6.45	0-360	100	H
4	467.26209	42.16	Qp	23.4	-29.7	35.86	46.02	-10.16	200	111	H
5	521.499	44.9	Pk	23.9	-29.6	39.2	46.02	-6.82	0-360	100	H
6	535.079	44.21	Pk	24.2	-29.3	39.11	46.02	-6.91	0-360	100	H
10	616.462	41.67	Pk	25.2	-29.1	37.77	46.02	-8.25	0-360	100	V

Pk - Peak detector

Qp - Quasi-Peak detector

9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

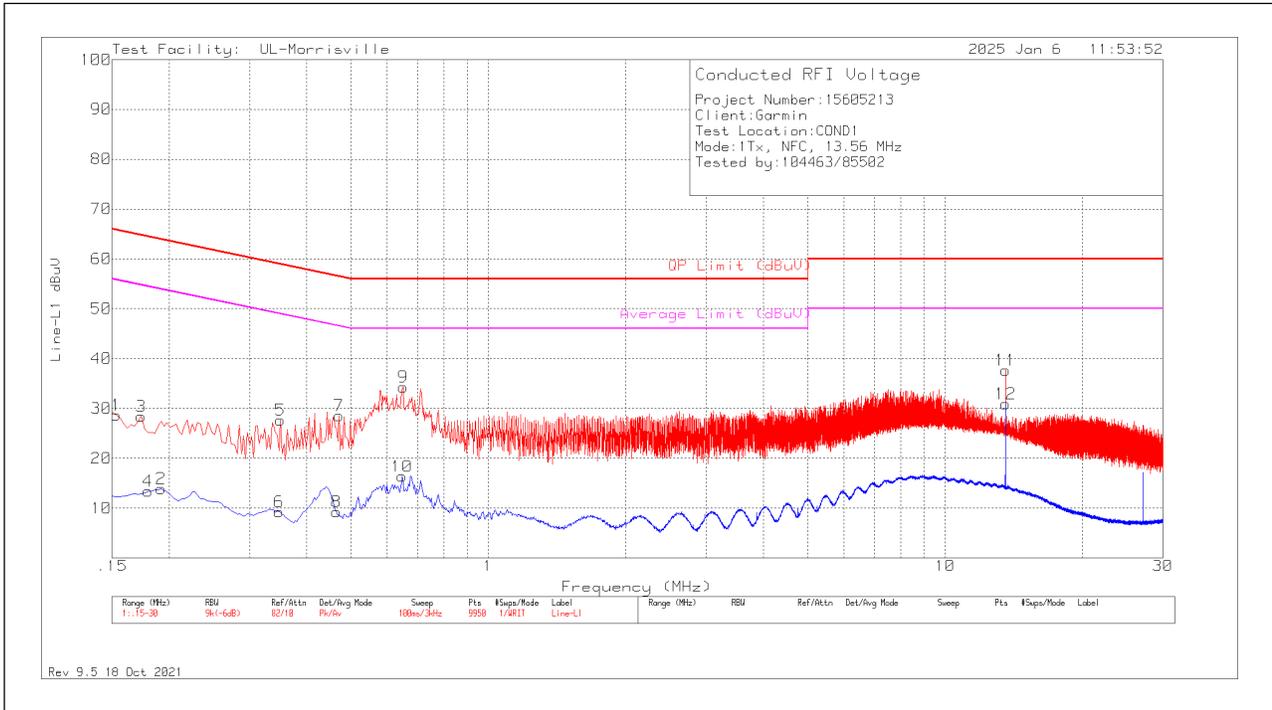
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

RESULTS

9.1. AC POWER LINE NORM

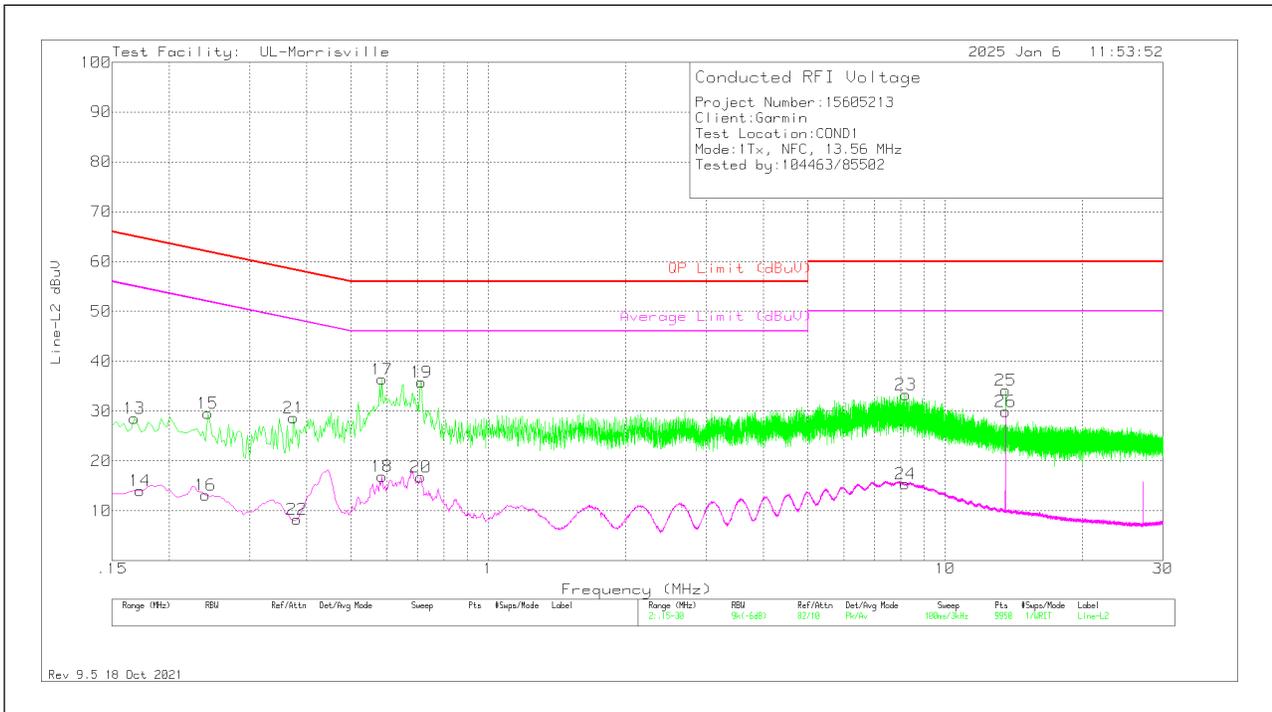
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.153	18.68	Pk	.2	9.8	28.68	65.84	-37.16	-	-
3	.174	18.4	Pk	.2	9.8	28.4	64.77	-36.37	-	-
4	.18	3.42	Av	.2	9.8	13.42	-	-	54.49	-41.07
2	.192	3.88	Av	.2	9.8	13.88	-	-	53.95	-40.07
6	.348	-.65	Av	.1	9.8	9.25	-	-	49.01	-39.76
5	.351	17.71	Pk	.1	9.8	27.61	58.94	-31.33	-	-
8	.465	-.58	Av	0	9.8	9.22	-	-	46.6	-37.38
7	.471	18.73	Pk	0	9.8	28.53	56.5	-27.97	-	-
10	.648	6.53	Av	0	9.8	16.33	-	-	46	-29.67
9	.651	24.5	Pk	0	9.8	34.3	56	-21.7	-	-
11	13.56	27.62	Pk	.1	10	37.72	60	-22.28	-	-
12	13.56	20.79	Av	.1	10	30.89	-	-	50	-19.11

Pk - Peak detector
 Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.168	18.57	Pk	.2	9.8	28.57	65.06	-36.49	-	-
14	.1725	4.04	Av	.2	9.8	14.04	-	-	54.84	-40.8
16	.24	3.23	Av	.1	9.8	13.13	-	-	52.1	-38.97
15	.243	19.66	Pk	.1	9.8	29.56	61.99	-32.43	-	-
21	.375	18.74	Pk	.1	9.8	28.64	58.39	-29.75	-	-
22	.381	-1.6	Av	.1	9.8	8.3	-	-	48.26	-39.96
17	.585	26.56	Pk	0	9.8	36.36	56	-19.64	-	-
18	.585	7.14	Av	0	9.8	16.94	-	-	46	-29.06
20	.711	6.99	Av	0	9.8	16.79	-	-	46	-29.21
19	.714	25.97	Pk	0	9.8	35.77	56	-20.23	-	-
24	8.19	5.25	Av	.1	10	15.35	-	-	50	-34.65
23	8.193	23.24	Pk	.1	10	33.34	60	-26.66	-	-
25	13.56	24.11	Pk	.1	10	34.21	60	-25.79	-	-
26	13.56	19.86	Av	.1	10	29.96	-	-	50	-20.04

Pk - Peak detector
 Av - Average detection

10. SETUP PHOTOS

Please refer to R1560213-EP3 for setup photos

END OF TEST REPORT