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PART 24 | RSS-133 MEASUREMENT REPORT

Applicant Name:

Garmin International Inc
1200 E. 151st. Street
Olathe, Kansas
United States 66062

Date of Testing:

3/20/2026 - 6/16/2026

Test Report Issue Date:

6/18/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2605040036-01-R1.IPH

FCC ID:

IPH-05172

IC:

1792A-05172

APPLICANT:

Garmin International Inc

Application Type:

Certification

Model/HVIN:

A05172

EUT Type:

Portable Digital Transceiver

FCC Classification:

PCS licensed Transmitter worn on body(PCT)

FCC Rule Part:

24

ISED Specification:

RSS-Gen Issue 5, RSS-133 Issue 7

Test Procedure(s):

ANSI C63.26-2015

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M2605040036-01-R1.IPH) supersedes and replaces the previously issued test report (S/N: 1M2605040036-01.IPH) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez
Executive Vice President



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V11.3 5/14/2025

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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	5/11/2026	WKR0000005883
1	Addressed comments made by TCB reviewer	6/18/2026	WKR0000005883

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
LTE Band 2	20 MHz	QPSK	1860 - 1900	0.141	21.49	1M09G7D
		16QAM	1860 - 1900	0.131	21.18	965KW7D
	15 MHz	QPSK	1857.5 - 1902.5	0.141	21.48	1M11G7D
		16QAM	1857.5 - 1902.5	0.141	21.48	938KW7D
	10 MHz	QPSK	1855 - 1905	0.140	21.45	1M10G7D
		16QAM	1855 - 1905	0.128	21.07	956KW7D
	5 MHz	QPSK	1852.5 - 1907.5	0.143	21.57	1M11G7D
		16QAM	1852.5 - 1907.5	0.131	21.18	939KW7D
	3 MHz	QPSK	1851.5 - 1908.5	0.130	21.14	1M11G7D
		16QAM	1851.5 - 1908.5	0.112	20.47	934KW7D
	1.4 MHz	QPSK	1850.7 - 1909.3	0.130	21.14	1M11G7D
		16QAM	1850.7 - 1909.3	0.111	20.44	930KW7D

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Test Location

Measurements were conducted at the Element laboratory(ies) indicated in Section 1.3 below. All measurement facilities are compliant with the test site requirements specified in ANSI C63.4:2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered test laboratory with the site description on file with ISED (Wireless Test Lab number 2451B) and FCC (Designation Number US1113, Test Lab Registration Number 445776).
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Garmin Portable Digital Transceiver FCC ID: IPH-05172** and **IC: 1792A-05172**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 24 and RSS-133.

The EUT integrated a certified module (Nordic) which is authorized under FCC ID: 2ANPO00NRF9151 and IC: 24529-NRF9151

For this EUT configuration, only the LTE Cat M1 capability of the module is enabled, while the NB-IoT capability is disabled.

Test Device Serial No.: 3627603492, 3627603487, 3632133273, 3632133294

2.2 Device Capabilities

This device contains the following capabilities:

Multi-band LTE (CAT-M1) / Multi-band NTN / Bluetooth (1x, EDR, LE) / ANT+ / 802.11b/g/n WLAN / NFC

2.3 Test Configuration

The EUT was tested per the guidance of ANSI C63.26:2015. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

The EUT was configured for testing using client-provided software/instruction that allowed direct control of the modem operating parameters. The device was connected to a call box to establish and maintain a communication link, enabling the EUT to operate in a controlled transmit state. The call box was configured to force the EUT to transmit at maximum output power for all applicable measurements.

2.4 Antenna Description

The manufacturer provided the antenna gains which can affect the validity of test results used for determination of compliance. The following antenna gains are used in this device provided by the client.

Band	Frequency Range [MHz]	Maximum Peak Gain (dBi)
LTE Cat M1 B2	1850 - 1910	-0.81
LTE Cat M1 B4	1710 - 1755	-0.73
LTE Cat M1 B12	699 - 716	-23.06
NTN n23	2000 - 2020	-1.46
NTN n255	1626.5 - 1660.5	-1.53

Table 2-1. Antenna Peak Gain

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2.5 Software and Firmware

Testing was performed on device(s) using software/firmware version 2.20 installed on the EUT.

2.6 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the “American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26:2015) were used in the measurement of the EUT.

Deviation from Measurement Procedure.....None

3.2 Radiated Power and Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4:2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated power measurements, ERP or EIRP are calculated based on the manufacturer provided antenna gain and the measured conducted output power per the guidance of ANSI C63.26:2015. The power of the emission is calculated using the following formula:

$$\text{ERP or EIRP}_{[\text{dBm}]} = P_{\text{measured} [\text{dBm}]} + G_T [\text{dBd/dBi}];$$

where ERP or EIRP_[dBm] is the effective radiated power or equivalent isotropically radiated power, P_{measured} is measured transmitter output power or PSD, in dBm or dBW, G_T is gain of the transmitting antenna in dBd (ERP) or dBi (EIRP)

For radiated spurious emissions measurements, the field strength conversion method is used per the formulas in Section 5.2.7 of ANSI C63.26:2015. Field Strength (EIRP) is calculated using the following formulas:

$$E_{[\text{dB}\mu\text{V/m}]} = \text{Measured amplitude level}_{[\text{dBm}]} + 107 + \text{Cable Loss}_{[\text{dB}]} + \text{Antenna Factor}_{[\text{dB/m}]}$$

And

$$\text{EIRP}_{[\text{dBm}]} = E_{[\text{dB}\mu\text{V/m}]} + 20\log D - 104.8; \text{ where } D \text{ is the measurement distance in meters.}$$

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4:2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 414788 D01 v01r01.

Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26:2015.

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	1.13
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

Table 4-1. Measurement Uncertainty Budget

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5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	ETS-001	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-001
-	ETS-002	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-002
-	WL25-1	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-2
Agilent	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
Espec	ESX-2CA	Environmental Chamber	11/20/2024	Biennial	11/20/2026	17620
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	6/4/2025	Biennial	6/4/2027	125518
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	1/16/2026	Annual	1/16/2027	100348
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/14/2025	Annual	8/14/2026	164948
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107

Table 5-1. Test Equipment Calibration Table

Notes:

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

Component	Serial Number
Pasternack Cable RG214/U	111815
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001

Table 5-2. ETS-001 EMC Cable and Switch System Components

Component	Serial Number
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	20502201 001
Rohde & Schwarz SF Unit	102134
Minicircuits Cable CBL=0.5M-NMNM+	15440

Table 5-3. ETS-002 EMC Cable and Switch System Components

Component	Serial Number
MegaPhase Cable, Model: TM26-S1S1-36	18160103 003
Pasternack 6dB Attenuator, Model: PE7005-6	N/A

Table 5-4. WL25-1 Conducted Cable Set Components

Component	Serial Number
Mini-Circuits Cable, Model: CBL-2FT-SMSM+	77743
MCL 6dB Attenuator, Model: BW-S6W2+	1314

Table 5-5. WL25-2 Conducted Cable Set Components

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6.0 SAMPLE EMISSION DESIGNATORS

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

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7.0 TEST RESULTS

7.1 Summary

Company Name: Garmin International Inc
 FCC ID: IPH-05172
 IC: 1792A-05172
 FCC Classification: PCS licensed Transmitter worn on body(PCT)
 Mode(s): LTE (Cat-M1)

Test Condition	Test Description	FCC Part Section(s)	RSS Section(s)	Test Limit	Test Result	Reference	Data Leveraged
CONDUCTED	Transmitter Conducted Output Power / Equivalent Isotropic Radiated Power	2.1046(a), 2.1046(c), 24.232(c)	RSS-Gen(6.12), RSS-133(6.4)	< 2 Watts max. EIRP	PASS	Section 7.2	No
	Occupied Bandwidth	2.1049(h)	RSS-Gen(6.7)	N/A	PASS	Section 7.3	No
	Conducted Band Edge / Spurious Emissions	2.1051, 24.238(a)	RSS-Gen(6.13), RSS-133(6.5)	> 43 + 10log10(P _{Watts}) at Band Edge and for all out-of-band emissions	PASS	Please see Note 5	Yes
	Peak-to-Average Ratio	24.232(d)	RSS-133(6.4)	≤ 13 dB	PASS	Please see Note 5	Yes
	Frequency Stability	2.1055, 24.235	RSS-Gen(6.11), RSS-133(6.3)	Fundamental emissions stay within authorized frequency block **Carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm	PASS	Please see Note 5	Yes
RADIAT	Radiated Spurious Emissions	2.1053, 24.238(a)	RSS-Gen(6.13), RSS-133(6.5)	≥ 43 + 10 log (P _{Watts}) dB of attenuation below transmitter power **Spurious emissions from receivers shall not exceed the limits detailed in RSS-Gen(7.3)	PASS	Section 7.4	No

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is EMC Software Tool v2.4.0.
- 5) This report is based on the original report (Report No. 77535RRF.002A1) for Model: nRF9151 (FCC ID: 2ANPO00NRF9151 and IC: 24529-NRF9151). The firmware remains identical, with only a difference in the software name. The new sample has been evaluated to verify worst-case Radiated Spurious Emissions (RSE) and conducted power. Accordingly, this report includes only the conducted power and RSE results. All other test data are leveraged from the original report as noted in the Data Leveraged column of the above table.

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7.2 Conducted Output Power & Radiated Power (EIRP)

Test Overview

All emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

Test Procedure Used

ANSI C63.26:2015 – Section 5.2

Test Settings

1. Detector = RMS
2. Trace mode = trace average for continuous emissions, max hold for pulse emissions
3. Sweep time = auto couple
4. The trace was allowed to stabilize
5. Please see test notes below for RBW and VBW settings

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. Conducted power measurements were evaluated using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
2. Customer provided antenna gain values were used in this section to determine the EIRP.

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	18700	1860.0	1 / 3	22.25	-0.81	21.44	0.139	33.01	-11.57
		18900	1880.0	1 / 3	22.30	-0.81	21.49	0.141	33.01	-11.52
		19100	1900.0	1 / 3	22.26	-0.81	21.45	0.140	33.01	-11.56
	16-QAM	18700	1860.0	1 / 5	21.89	-0.81	21.08	0.128	33.01	-11.93
		18900	1880.0	1 / 5	21.99	-0.81	21.18	0.131	33.01	-11.83
		19100	1900.0	1 / 5	21.94	-0.81	21.13	0.130	33.01	-11.88
15 MHz	QPSK	18675	1857.5	1 / 3	22.14	-0.81	21.33	0.136	33.01	-11.68
		18900	1880.0	1 / 3	22.29	-0.81	21.48	0.141	33.01	-11.53
		19125	1902.5	1 / 3	22.29	-0.81	21.48	0.141	33.01	-11.53
	16-QAM	18675	1857.5	1 / 3	22.14	-0.81	21.33	0.136	33.01	-11.68
		18900	1880.0	1 / 3	22.29	-0.81	21.48	0.141	33.01	-11.53
		19125	1902.5	1 / 3	22.29	-0.81	21.48	0.141	33.01	-11.53
10 MHz	QPSK	18650	1855.0	1 / 3	22.26	-0.81	21.45	0.140	33.01	-11.56
		18900	1880.0	1 / 3	22.20	-0.81	21.39	0.138	33.01	-11.62
		19150	1905.0	1 / 3	22.22	-0.81	21.41	0.138	33.01	-11.60
	16-QAM	18650	1855.0	1 / 5	21.88	-0.81	21.07	0.128	33.01	-11.94
		18900	1880.0	1 / 3	21.74	-0.81	20.93	0.124	33.01	-12.08
		19150	1905.0	1 / 3	21.88	-0.81	21.07	0.128	33.01	-11.95
5 MHz	QPSK	18625	1852.5	1 / 3	22.36	-0.81	21.55	0.143	33.01	-11.46
		18900	1880.0	1 / 3	22.31	-0.81	21.50	0.141	33.01	-11.51
		19175	1907.5	1 / 3	22.38	-0.81	21.57	0.143	33.01	-11.44
	16-QAM	18625	1852.5	1 / 3	21.90	-0.81	21.09	0.128	33.01	-11.92
		18900	1880.0	1 / 0	21.86	-0.81	21.05	0.127	33.01	-11.96
		19175	1907.5	1 / 0	21.99	-0.81	21.18	0.131	33.01	-11.83
3 MHz	QPSK	18615	1851.5	1 / 5	21.89	-0.81	21.08	0.128	33.01	-11.93
		18900	1880.0	1 / 3	21.85	-0.81	21.04	0.127	33.01	-11.97
		19185	1908.5	1 / 5	21.95	-0.81	21.14	0.130	33.01	-11.87
	16-QAM	18615	1851.5	1 / 3	21.25	-0.81	20.44	0.111	33.01	-12.57
		18900	1880.0	1 / 3	21.23	-0.81	20.42	0.110	33.01	-12.60
		19185	1908.5	1 / 3	21.28	-0.81	20.47	0.112	33.01	-12.54
1.4 MHz	QPSK	18607	1850.7	1 / 3	21.95	-0.81	21.14	0.130	33.01	-11.87
		18900	1880.0	1 / 3	21.95	-0.81	21.14	0.130	33.01	-11.88
		19193	1909.3	1 / 3	21.93	-0.81	21.12	0.129	33.01	-11.89
	16-QAM	18607	1850.7	1 / 3	21.21	-0.81	20.40	0.110	33.01	-12.61
		18900	1880.0	1 / 3	21.20	-0.81	20.39	0.109	33.01	-12.62
		19193	1909.3	1 / 3	21.25	-0.81	20.44	0.111	33.01	-12.57

Table 7-2. Conducted/Radiated Power Result – LTE CAT-M1 Band 2

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	18700	1860.0	6 / 0	21.84	-0.81	21.03	0.127	33.01	-11.98
		18900	1880.0	6 / 0	21.98	-0.81	21.17	0.131	33.01	-11.85
		19100	1900.0	6 / 0	21.90	-0.81	21.09	0.128	33.01	-11.92
	16-QAM	18700	1860.0	5 / 0	21.75	-0.81	20.94	0.124	33.01	-12.07
		18900	1880.0	5 / 0	21.82	-0.81	21.01	0.126	33.01	-12.00
		19100	1900.0	5 / 0	21.81	-0.81	21.00	0.126	33.01	-12.01
15 MHz	QPSK	18675	1857.5	6 / 0	21.78	-0.81	20.97	0.125	33.01	-12.04
		18900	1880.0	6 / 0	21.97	-0.81	21.16	0.130	33.01	-11.86
		19125	1902.5	6 / 0	21.95	-0.81	21.14	0.130	33.01	-11.88
	16-QAM	18675	1857.5	5 / 0	21.82	-0.81	21.01	0.126	33.01	-12.01
		18900	1880.0	5 / 0	21.83	-0.81	21.02	0.126	33.01	-11.99
		19125	1902.5	5 / 0	21.72	-0.81	20.91	0.123	33.01	-12.10
10 MHz	QPSK	18650	1855.0	6 / 0	20.95	-0.81	20.14	0.103	33.01	-12.87
		18900	1880.0	6 / 0	20.91	-0.81	20.10	0.102	33.01	-12.91
		19150	1905.0	6 / 0	20.95	-0.81	20.14	0.103	33.01	-12.87
	16-QAM	18650	1855.0	5 / 0	20.84	-0.81	20.03	0.101	33.01	-12.98
		18900	1880.0	5 / 0	20.79	-0.81	19.98	0.100	33.01	-13.03
		19150	1905.0	5 / 0	20.81	-0.81	20.00	0.100	33.01	-13.02
5 MHz	QPSK	18625	1852.5	6 / 0	21.11	-0.81	20.30	0.107	33.01	-12.71
		18900	1880.0	6 / 0	20.95	-0.81	20.14	0.103	33.01	-12.87
		19175	1907.5	6 / 0	21.14	-0.81	20.33	0.108	33.01	-12.68
	16-QAM	18625	1852.5	5 / 0	19.89	-0.81	19.08	0.081	33.01	-13.93
		18900	1880.0	5 / 0	19.84	-0.81	19.03	0.080	33.01	-13.99
		19175	1907.5	5 / 0	20.00	-0.81	19.19	0.083	33.01	-13.82
3 MHz	QPSK	18615	1851.5	6 / 0	20.07	-0.81	19.26	0.084	33.01	-13.75
		18900	1880.0	6 / 0	20.02	-0.81	19.21	0.083	33.01	-13.80
		19185	1908.5	6 / 0	20.08	-0.81	19.27	0.085	33.01	-13.74
	16-QAM	18615	1851.5	5 / 0	19.93	-0.81	19.12	0.082	33.01	-13.89
		18900	1880.0	5 / 0	19.71	-0.81	18.90	0.078	33.01	-14.11
		19185	1908.5	5 / 0	19.94	-0.81	19.13	0.082	33.01	-13.88
1.4 MHz	QPSK	18607	1850.7	6 / 0	20.00	-0.81	19.19	0.083	33.01	-13.82
		18900	1880.0	6 / 0	20.20	-0.81	19.39	0.087	33.01	-13.62
		19193	1909.3	6 / 0	20.00	-0.81	19.19	0.083	33.01	-13.82
	16-QAM	18607	1850.7	5 / 0	19.82	-0.81	19.01	0.080	33.01	-14.00
		18900	1880.0	5 / 0	19.73	-0.81	18.92	0.078	33.01	-14.09
		19193	1909.3	5 / 0	19.92	-0.81	19.11	0.082	33.01	-13.90

Table 7-3. Conducted/Radiated Power Result – LTE CAT-M1 Band 2 – Full RB case

Sample e.i.r.p Calculation:

At 1860MHz (LTE Cat-M1 Band 2 Full RB), the average conducted output power was measured to be 21.84 dBm with antenna gain -0.81 dBi.

$$\text{ERP or EIRP [dBm]} = P_{\text{measured [dBm]}} + G_T [\text{dBd/dBi}];$$

ERP or EIRP = effective radiated power or equivalent isotropically radiated power

P_{measured} = measured transmitter output power

G_T = gain of the transmitting antenna in dBd (ERP) or dBi (EIRP)

$$21.84 \text{ dBm} + -0.81 \text{ dBi} = 21.03 \text{ dBm}$$

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7.3 Occupied Bandwidth

Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst-case configuration results are reported in this section.

Test Procedure Used

ANSI C63.26:2015 – Section 5.4.4

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

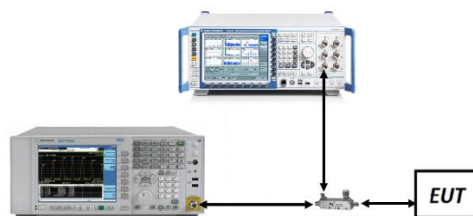


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None.

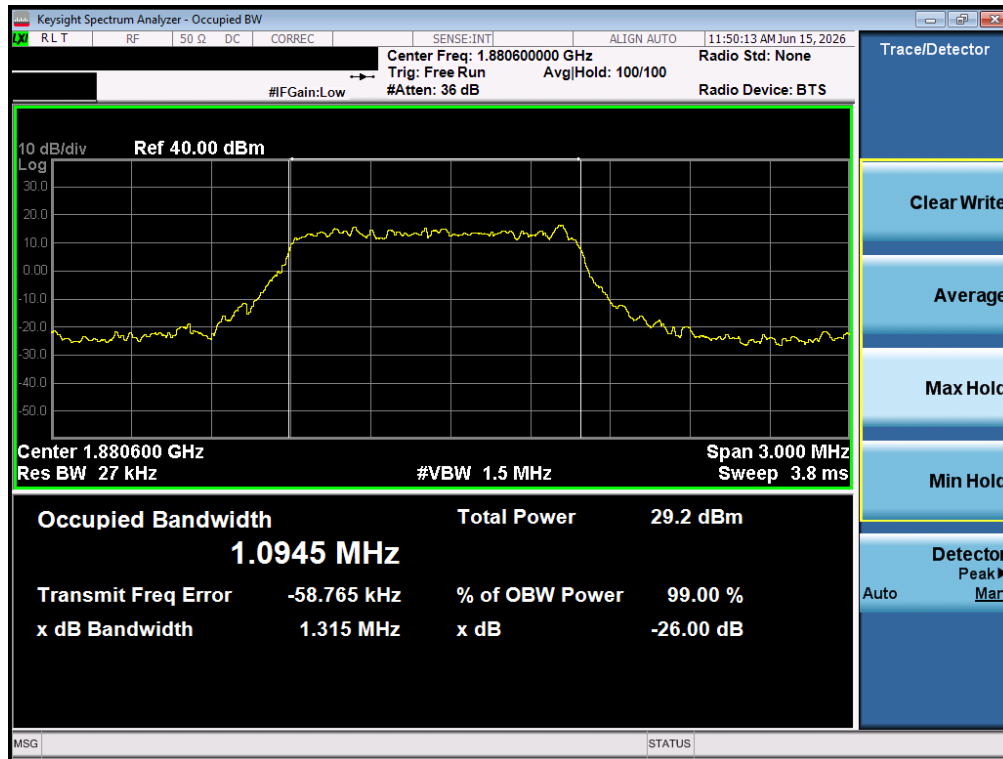
FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B2	20 MHz	QPSK	1.09
		16QAM	0.97
	15 MHz	QPSK	1.11
		16QAM	0.94
	10 MHz	QPSK	1.10
		16QAM	0.96
	5 MHz	QPSK	1.11
		16QAM	0.94
	3 MHz	QPSK	1.11
		16QAM	0.93
	1.4 MHz	QPSK	1.11
		16QAM	0.93

Table 7-4. Occupied Bandwidth Results – Ant1

FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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LTE Band 2 – Ant1

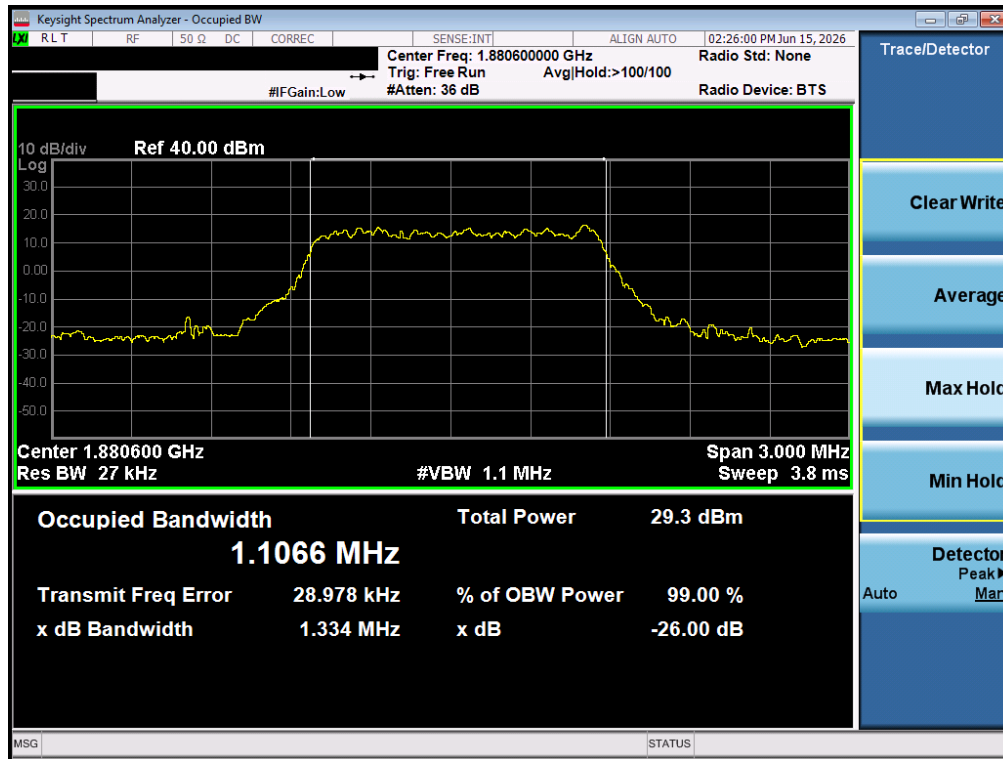


Plot 7-3. Occupied Bandwidth Plot (LTE Band 2 - 20MHz QPSK - Full RB - Ant1)



Plot 7-4. Occupied Bandwidth Plot (LTE Band 2 - 20MHz 16-QAM - Full RB - Ant1)

FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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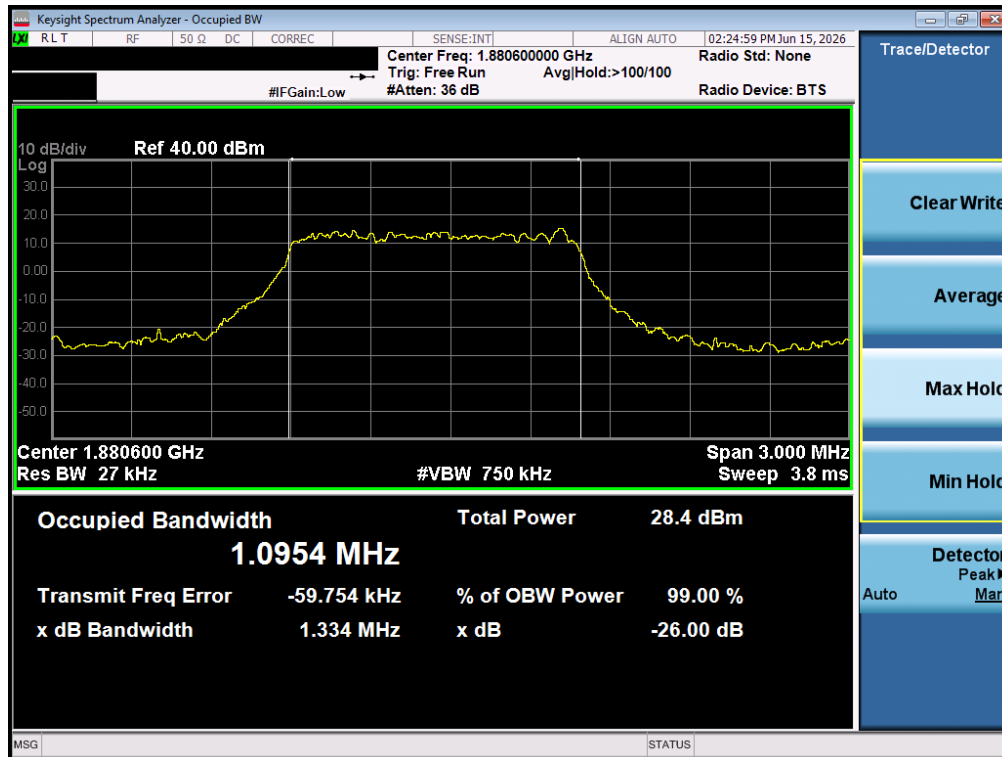


Plot 7-5. Occupied Bandwidth Plot (LTE Band 2 - 15MHz QPSK - Full RB - Ant1)



Plot 7-6. Occupied Bandwidth Plot (LTE Band 2 - 15MHz 16-QAM - Full RB - Ant1)

FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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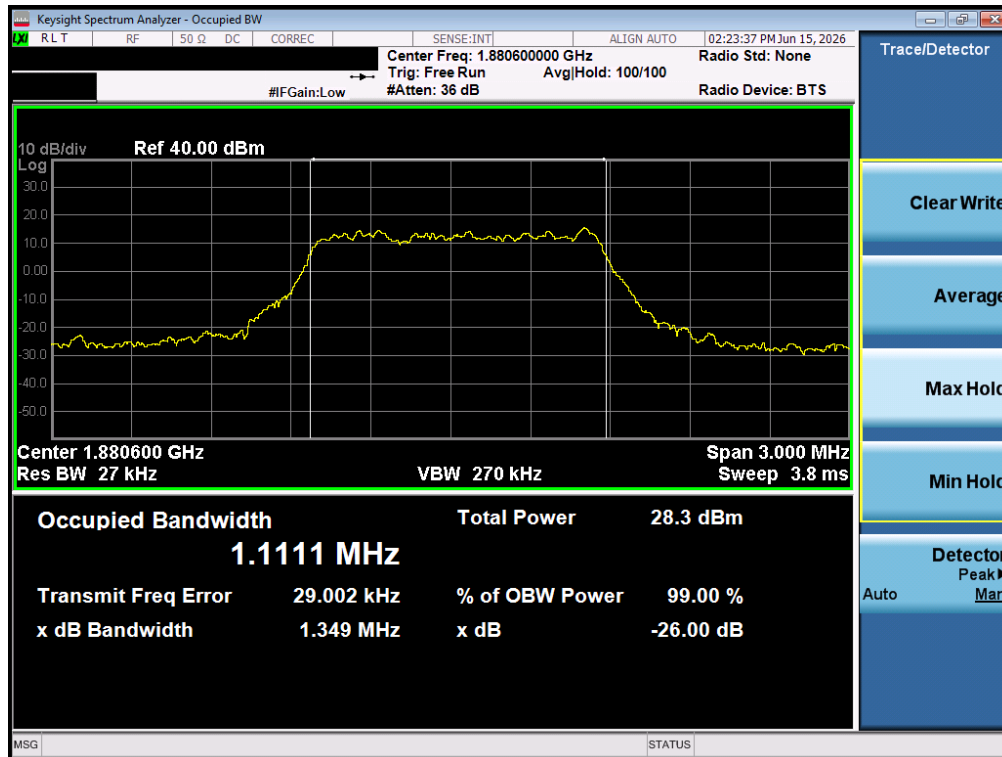


Plot 7-7. Occupied Bandwidth Plot (LTE Band 2 - 10MHz QPSK - Full RB - Ant1)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 2 - 10MHz 16-QAM - Full RB - Ant1)

FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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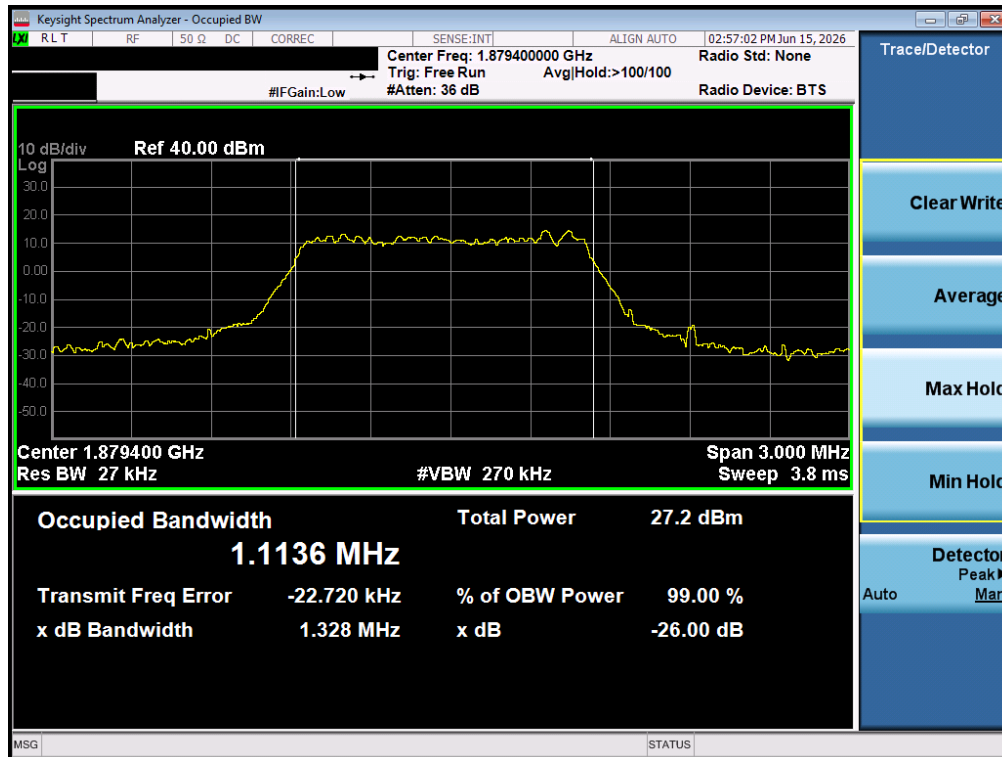


Plot 7-9. Occupied Bandwidth Plot (LTE Band 2 - 5MHz QPSK - Full RB - Ant1)

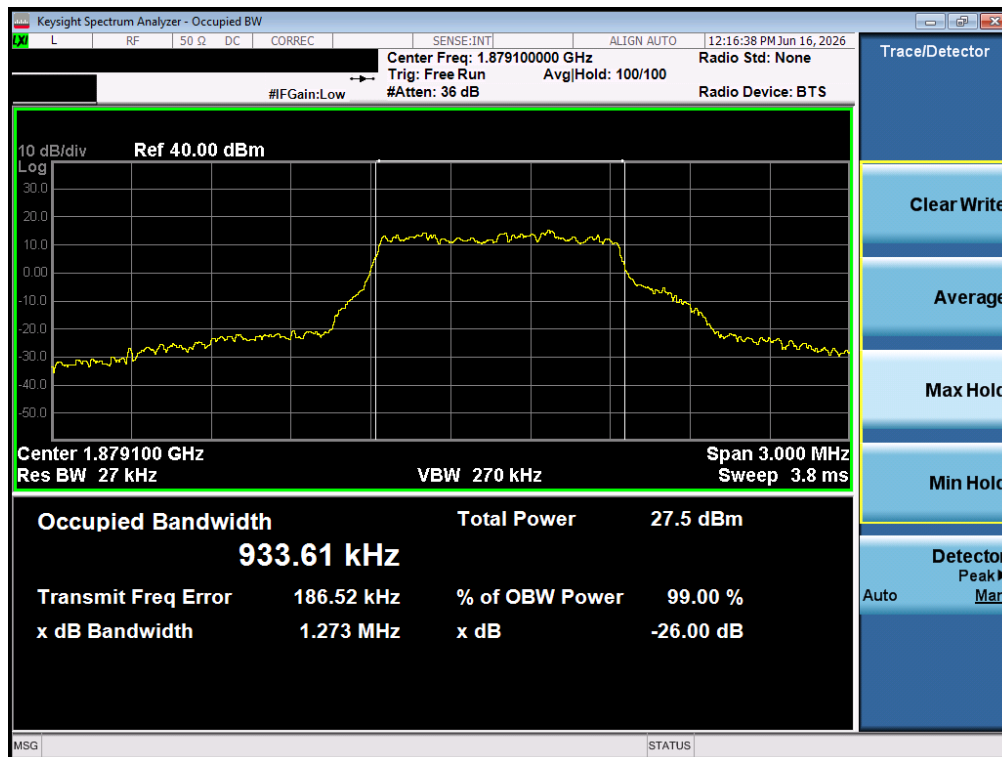


Plot 7-10. Occupied Bandwidth Plot (LTE Band 2 - 5MHz 16-QAM - Full RB - Ant1)

FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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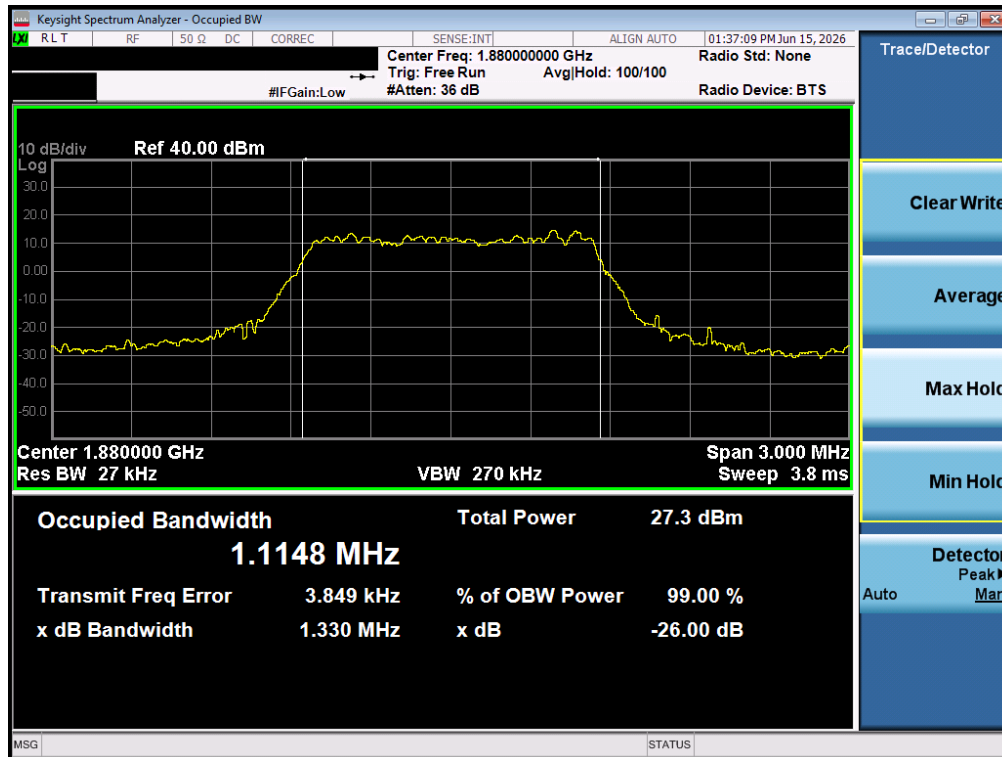


Plot 7-11. Occupied Bandwidth Plot (LTE Band 2 - 3MHz QPSK - Full RB - Ant1)



Plot 7-12. Occupied Bandwidth Plot (LTE Band 2 - 3MHz 16-QAM - Full RB - Ant1)

FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Plot 7-13. Occupied Bandwidth Plot (LTE Band 2 - 1.4MHz QPSK - Full RB - Ant1)



Plot 7-14. Occupied Bandwidth Plot (LTE Band 2 - 1.4MHz 16-QAM - Full RB - Ant1)

FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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7.4 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26:2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26:2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

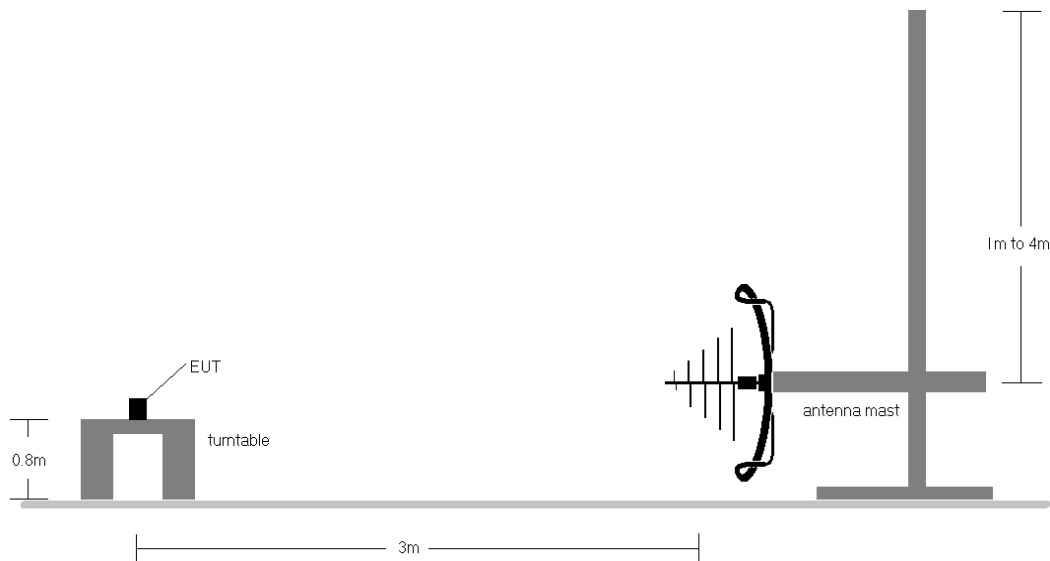


Figure 7-3. Test Instrument & Measurement Setup < 1GHz

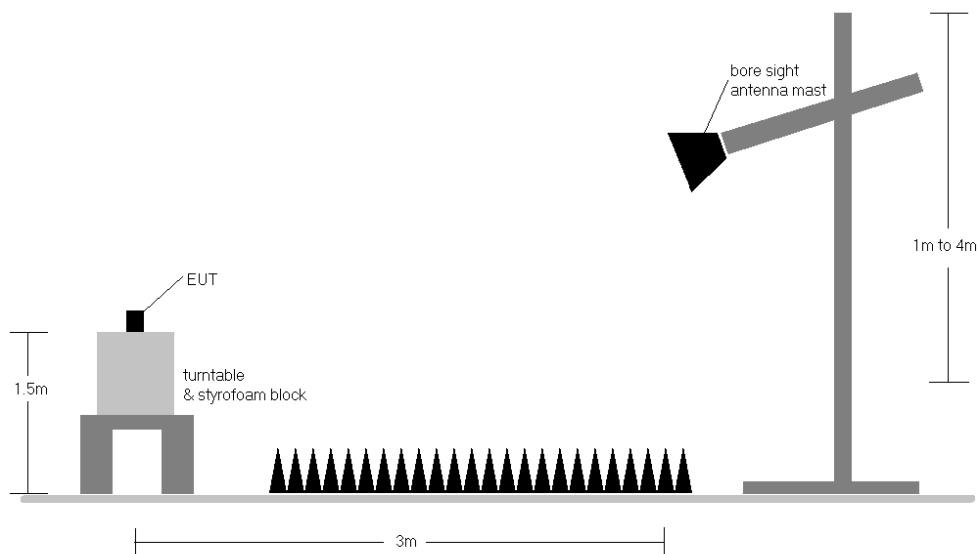


Figure 7-4. Test Instrument & Measurement Setup >1 GHz

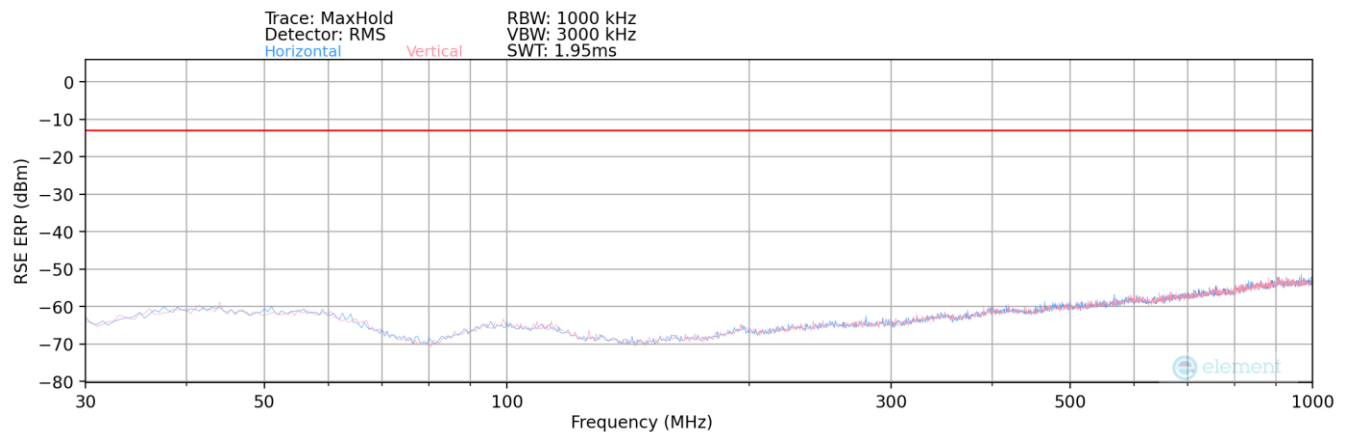
FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26:2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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LTE CAT-M1 Band 2

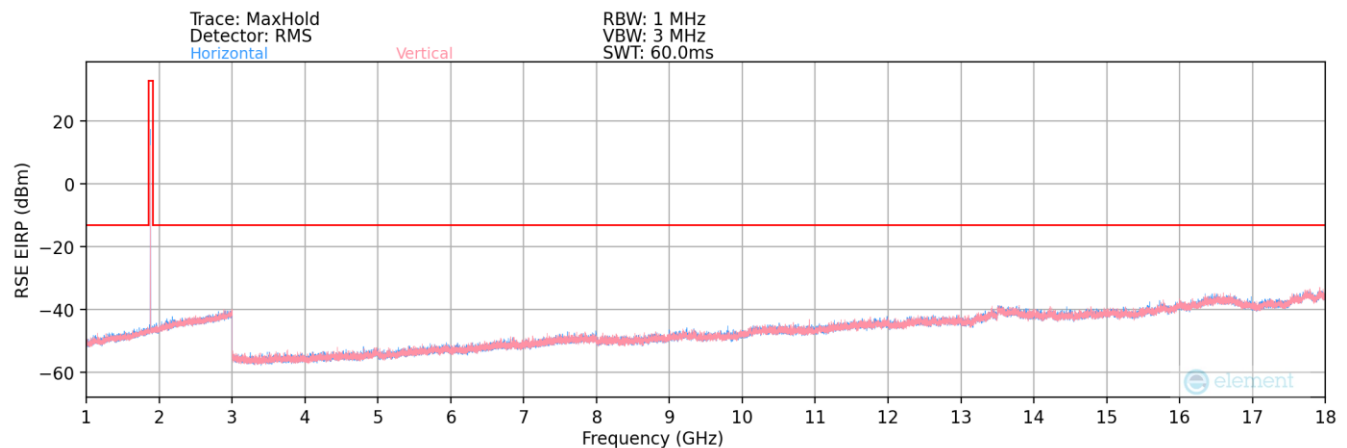


Plot 7-1. Radiated Spurious Plot (LTE CAT-M1 Band 2)

Bandwidth (MHz):	20
Frequency (MHz):	1880
RB / Offset:	1 / 3

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
85.57	H	-	-	-60.60	-17.51	28.89	-68.52	-13.00	-55.52
289.97	H	-	-	-65.88	-11.83	29.29	-68.12	-13.00	-55.12
573.18	H	-	-	-68.74	-5.91	32.35	-65.06	-13.00	-52.06

Table 7-5. Radiated Spurious Data (LTE CAT-M1 Band 2)



Plot 7-2. Radiated Spurious Plot (LTE CAT-M1 Band 2)

FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	1860
RB / Offset:	1 / 3

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.00	H	101	258	-56.58	7.37	57.79	-37.46	-13.00	-24.46
5580.00	H	101	10	-70.37	11.22	47.85	-47.40	-13.00	-34.40
7440.00	H	-	-	-74.29	15.21	47.92	-47.34	-13.00	-34.34
9300.00	H	-	-	-75.19	17.37	49.18	-46.08	-13.00	-33.08
11160.00	H	-	-	-75.94	20.09	51.15	-44.11	-13.00	-31.11

Table 7-6. Radiated Spurious Data (LTE CAT-M1 Band 2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1880
RB / Offset:	1 / 3

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.00	H	330	170	-60.15	7.60	54.45	-40.80	-13.00	-27.80
5640.00	H	124	172	-70.63	11.19	47.56	-47.70	-13.00	-34.70
7520.00	H	111	22	-72.36	15.15	49.79	-45.47	-13.00	-32.47
9400.00	H	-	-	-74.89	17.40	49.51	-45.74	-13.00	-32.74
11280.00	H	-	-	-75.29	20.41	52.12	-43.14	-13.00	-30.14
13160.00	H	-	-	-76.54	23.06	53.52	-41.74	-13.00	-28.74

Table 7-7. Radiated Spurious Data (LTE CAT-M1 Band 2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1900
RB / Offset:	1 / 3

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3800.00	H	345	142	-65.44	7.83	49.39	-45.87	-13.00	-32.87
5700.00	H	112	228	-72.04	10.69	45.65	-49.61	-13.00	-36.61
7600.00	H	336	94	-73.29	15.29	49.00	-46.26	-13.00	-33.26
9500.00	H	-	-	-75.06	17.64	49.58	-45.68	-13.00	-32.68
11400.00	H	-	-	-75.62	20.65	52.03	-43.23	-13.00	-30.23
13300.00	H	-	-	-76.24	23.89	54.65	-40.60	-13.00	-27.60

Table 7-8. Radiated Spurious Data (LTE CAT-M1 Band 2 – High Channel)

FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1M2605040036-01-R1-IPH		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 28 of 29

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Garmin Portable Digital Transceiver FCC ID: IPH-05172** and **IC: 1792A-05172** complies with all the requirements of Part 24 of the FCC rules and RSS-133 of the ISED rules.

- END OF TEST REPORT -

FCC ID: IPH-05172 IC: 1792A-05172	PART 24 RSS-133 MEASUREMENT REPORT	Test Dates: 3/20/2026 - 6/16/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1M2605040036-01-R1.IPH		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 29 of 29