**PART 24 | RSS-133
MEASUREMENT REPORT****Applicant Name:**

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

Date of Testing:

2/18/2026 - 7/8/2026

Test Report Issue Date:

7/9/2026

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2605260039-01.IPH

FCC ID:

IPH-05171

IC:

1792A-05171

Applicant Name:

Garmin International Inc

Application Type:

Certification

Model/HVIN:

A05171

EUT Type:

Portable Digital Transceiver

FCC Classification:

PCS Licensed Transmitter worn on body (PCT)

FCC Rule Part:

24

ISED Specification:

RSS-133 Issue 7, RSS-Gen Issue 5

Test Procedure(s):

ANSI C63.26-2015, TIA-603-E-2016, KDB 971168 D01 v03r01

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.

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



FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Revision Summary

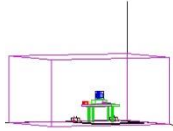
Revision	Date	Comments	Revised By
-	6/23/2026	Initial Release	WKR0000010305

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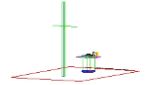
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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
Band 2	1.4 MHz	QPSK	1850.7 - 1909.3	0.172	22.35	1M11G7D
		16QAM	1850.7 - 1909.3	0.137	21.36	953KW7D
	3 MHz	QPSK	1851.5 - 1908.5	0.164	22.16	1M1G7D
		16QAM	1851.5 - 1908.5	0.137	21.36	959KW7D
	5 MHz	QPSK	1852.5 - 1907.5	0.170	22.31	1M11G7D
		16QAM	1852.5 - 1907.5	0.169	22.29	966KW7D
	10MHz	QPSK	1855 - 1905	0.170	22.31	1M1G7D
		16QAM	1856 - 1905	0.163	22.12	966KW7D
	15 MHz	QPSK	1857.5 - 1902.5	0.161	22.08	1M11G7D
		16QAM	1857.5 - 1902.5	0.168	22.25	972KW7D
	20 MHz	QPSK	1860 - 1900	0.169	22.28	1M11G7D
		16QAM	1860 - 1900	0.161	22.08	955KW7D

EUT Overview

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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 Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is 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 Materials Technology located in Morgan Hill, CA 95037, U.S.A.

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 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 Materials Technology facility is a registered test laboratory with the site description on file with ISED (Wireless Test Lab number 22831) and FCC (Designation Number US1163).
- 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-05171** and **IC: 1792A-05171**. 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.: 3627310943, 3637488121, 3637488182

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

Simultaneous Tx Config	Bluetooth 2.4GHz	WLAN	LTE / NTN		
	BDR, EDR, LE, ANT+	802.11 b/g/n	LB	MB/HB	UHB
Config 1	✓	✗	✗	✓	✗
Config 2	✓	✗	✓	✗	✗

Table 2-1. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 1 and reported in RF Part 27a test report.

2.3 Antenna Description

The following antenna gains provided by the manufacturer were used for testing. The validity of the calculated results is based on the accuracy of the information provided.

Band	Max Peak Gain [dBi]
LTE Cat M1 Band 2	-0.51

Table 2-2. Highest Antenna Gain

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2.4 Test Configuration

The EUT was tested per the guidance of ANSI C63.26-2015, TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel were reported.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

2.5 Software and Firmware

The test was conducted with firmware version 5.00 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 documents titled “American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26-2015 and TIA-603-E-2016) and “Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems” (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

Deviation from Measurement Procedure.....None

3.2 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 spurious emissions measurements and calculations, conversion method is used per the formulas in KDB 971168 Section 5.8.4. Field Strength (EIRP) is calculated using the following formulas:

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

And

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

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

Radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015 and TIA-603-E-2016.

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. 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	2.00
Radiated Disturbance (<30MHz)	4.24
Radiated Disturbance (30MHz-1GHz)	4.96
Radiated Disturbance (1-18GHz)	5.18
Radiated Disturbance (>18GHz)	5.18

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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
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/31/2026	Annual	3/31/2027	T058601-02
ESPEC	SU-241	Tabletop Temperature Chamber	11/6/2025	Annual	11/6/2026	92009574
ETS-Lindgren	3117	Double Ridged Guide Horn (1-18 GHz)	4/21/2026	Annual	4/21/2027	218555
Fairview Microwave	FMCA1975-36	30MHz-40GHz Conducted RF Cable *	6/10/2025	Annual	6/10/2026	-
Fairview Microwave	M2CP1122-10	30MHz-40GHz Conducted Coupler *	6/10/2025	Annual	6/10/2026	1946
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2025	Annual	6/10/2026	-
Keysight Technology	N9040B	UXA Signal Analyzer	7/29/2025	Annual	7/29/2026	U557212289
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	8/5/2025	Annual	8/5/2026	104093
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	12/5/2025	Annual	12/5/2026	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	10/14/2025	Annual	10/14/2026	102328
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/3/2025	Annual	10/3/2026	171008
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	7/3/2025	Annual	7/3/2026	100057
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	7/17/2025	Annual	7/17/2026	00302

Table 5-1. Test Equipment

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.
- * denotes passive equipment that has been internally verified/calibrated.

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6.0 SAMPLE CALCULATIONS

Emission Designator

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-05171
 IC: 1792A-05171
 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. ERP	PASS	Section 7.2	No
	Occupied Bandwidth	2.1049(h)	RSS-Gen(6.7)	N/A	PASS	Please see Note 5	Yes
	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 7.3	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. For radiated spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.6.1.
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

Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

The relevant equation for determining the EIRP from the conducted RF output power measured is:

$$\text{EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

EIRP = Equivalent Isotropic Radiated Power (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBi (EIRP)

Test Setup

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

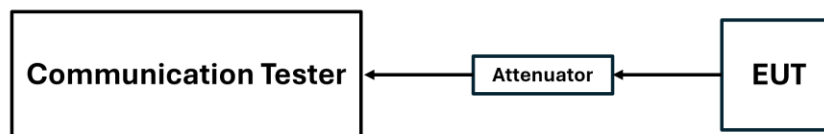


Figure 7-1. LTE Test Instrument & Measurement Setup

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Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. The Ant. Gains (GT) are listed in dBi.

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LTE CAT-M1 Band 2

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	-0.51	1 / 3	22.86	22.35	0.172	33.01	-10.66
		1880.0	-0.51	1 / 3	22.83	22.32	0.171	33.01	-10.69
		1909.3	-0.51	1 / 3	22.47	21.96	0.157	33.01	-11.05
	16-QAM	1850.7	-0.51	1 / 3	21.87	21.36	0.137	33.01	-11.65
		1880.0	-0.51	1 / 3	21.80	21.29	0.135	33.01	-11.72
		1909.3	-0.51	1 / 3	21.81	21.30	0.135	33.01	-11.71
3 MHz	QPSK	1851.5	-0.51	1 / 3	22.67	22.16	0.164	33.01	-10.85
		1880.0	-0.51	1 / 3	22.60	22.09	0.162	33.01	-10.92
		1908.5	-0.51	1 / 3	22.61	22.10	0.162	33.01	-10.91
	16-QAM	1851.5	-0.51	1 / 3	21.87	21.36	0.137	33.01	-11.65
		1880.0	-0.51	1 / 3	21.69	21.18	0.131	33.01	-11.83
		1908.5	-0.51	1 / 3	21.87	21.36	0.137	33.01	-11.65
5 MHz	QPSK	1852.5	-0.51	1 / 3	22.82	22.31	0.170	33.01	-10.70
		1880.0	-0.51	1 / 3	22.75	22.24	0.167	33.01	-10.77
		1907.5	-0.51	1 / 3	22.79	22.28	0.169	33.01	-10.73
	16-QAM	1852.5	-0.51	1 / 3	22.62	22.11	0.163	33.01	-10.90
		1880.0	-0.51	1 / 0	22.80	22.29	0.169	33.01	-10.72
		1907.5	-0.51	1 / 3	22.42	21.91	0.155	33.01	-11.10
10 MHz	QPSK	1855.0	-0.51	1 / 3	22.82	22.31	0.170	33.01	-10.70
		1880.0	-0.51	1 / 3	22.75	22.24	0.167	33.01	-10.77
		1905.0	-0.51	1 / 3	22.69	22.18	0.165	33.01	-10.83
	16-QAM	1855.0	-0.51	1 / 3	22.61	22.10	0.162	33.01	-10.91
		1880.0	-0.51	1 / 3	22.59	22.08	0.161	33.01	-10.93
		1905.0	-0.51	1 / 3	22.63	22.12	0.163	33.01	-10.89
15 MHz	QPSK	1857.5	-0.51	1 / 3	22.55	22.04	0.160	33.01	-10.97
		1880.0	-0.51	1 / 3	22.59	22.08	0.161	33.01	-10.93
		1902.5	-0.51	1 / 3	22.55	22.04	0.160	33.01	-10.97
	16-QAM	1857.5	-0.51	1 / 3	22.57	22.06	0.161	33.01	-10.95
		1880.0	-0.51	1 / 3	22.51	22.00	0.158	33.01	-11.01
		1902.5	-0.51	1 / 3	22.76	22.25	0.168	33.01	-10.76
20 MHz	QPSK	1860.0	-0.51	1 / 3	22.79	22.28	0.169	33.01	-10.73
		1880.0	-0.51	1 / 3	22.75	22.24	0.167	33.01	-10.77
		1900.0	-0.51	1 / 0	22.65	22.14	0.164	33.01	-10.87
	16-QAM	1860.0	-0.51	1 / 3	22.59	22.08	0.161	33.01	-10.93
		1880.0	-0.51	1 / 3	22.49	21.98	0.158	33.01	-11.03
		1900.0	-0.51	1 / 3	22.48	21.97	0.157	33.01	-11.04

Table 7-2. Conducted/Radiated Power result – LTE Cat-M1 Band 2

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 15 of 32

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	-0.51	6 / 0	20.52	20.01	0.100	33.01	-13.00
		1880.0	-0.51	6 / 0	20.41	19.90	0.098	33.01	-13.11
		1909.3	-0.51	6 / 0	20.53	20.02	0.100	33.01	-12.99
	16-QAM	1850.7	-0.51	5 / 0	20.61	20.10	0.102	33.01	-12.91
		1880.0	-0.51	5 / 0	20.46	19.95	0.099	33.01	-13.06
		1909.3	-0.51	5 / 0	20.61	20.10	0.102	33.01	-12.91
3 MHz	QPSK	1851.5	-0.51	6 / 0	20.56	20.05	0.101	33.01	-12.96
		1880.0	-0.51	6 / 0	20.42	19.91	0.098	33.01	-13.10
		1908.5	-0.51	6 / 0	20.58	20.07	0.102	33.01	-12.94
	16-QAM	1851.5	-0.51	5 / 0	20.58	20.07	0.102	33.01	-12.94
		1880.0	-0.51	5 / 0	20.47	19.96	0.099	33.01	-13.05
		1908.5	-0.51	5 / 0	20.56	20.05	0.101	33.01	-12.96
5 MHz	QPSK	1852.5	-0.51	6 / 0	21.57	21.06	0.128	33.01	-11.95
		1880.0	-0.51	6 / 0	21.46	20.95	0.124	33.01	-12.06
		1907.5	-0.51	6 / 0	21.52	21.01	0.126	33.01	-12.00
	16-QAM	1852.5	-0.51	5 / 0	20.62	20.11	0.103	33.01	-12.90
		1880.0	-0.51	5 / 0	20.51	20.00	0.100	33.01	-13.01
		1907.5	-0.51	5 / 0	20.61	20.10	0.102	33.01	-12.91
10 MHz	QPSK	1855.0	-0.51	6 / 0	21.54	21.03	0.127	33.01	-11.98
		1880.0	-0.51	6 / 0	21.57	21.06	0.128	33.01	-11.95
		1905.0	-0.51	6 / 0	21.41	20.90	0.123	33.01	-12.11
	16-QAM	1855.0	-0.51	5 / 0	21.61	21.10	0.129	33.01	-11.91
		1880.0	-0.51	5 / 0	21.52	21.01	0.126	33.01	-12.00
		1905.0	-0.51	5 / 0	21.69	21.18	0.131	33.01	-11.83
15 MHz	QPSK	1857.5	-0.51	6 / 0	22.45	21.94	0.156	33.01	-11.07
		1880.0	-0.51	6 / 0	22.30	21.79	0.151	33.01	-11.22
		1902.5	-0.51	6 / 0	22.29	21.78	0.151	33.01	-11.23
	16-QAM	1857.5	-0.51	5 / 0	22.64	22.13	0.163	33.01	-10.88
		1880.0	-0.51	5 / 0	22.44	21.93	0.156	33.01	-11.08
		1902.5	-0.51	5 / 0	22.53	22.02	0.159	33.01	-10.99
20 MHz	QPSK	1860.0	-0.51	6 / 0	22.40	21.89	0.155	33.01	-11.12
		1880.0	-0.51	6 / 0	22.35	21.84	0.153	33.01	-11.17
		1900.0	-0.51	6 / 0	22.27	21.76	0.150	33.01	-11.25
	16-QAM	1860.0	-0.51	5 / 0	22.56	22.05	0.160	33.01	-10.96
		1880.0	-0.51	5 / 0	22.46	21.95	0.157	33.01	-11.06
		1900.0	-0.51	5 / 0	22.48	21.97	0.157	33.01	-11.04

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

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 16 of 32

Sample e.i.r.p Calculation:

At 1850.7MHz (LTE Cat-M1 Band 2 Full RB), the average conducted output power was measured to be 20.52 dBm with antenna gain -0.51 dBi.

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

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)

$$20.52 \text{ dBm} + -0.51 \text{ dBi} = 20.01 \text{ dBm}$$

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 17 of 32

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.

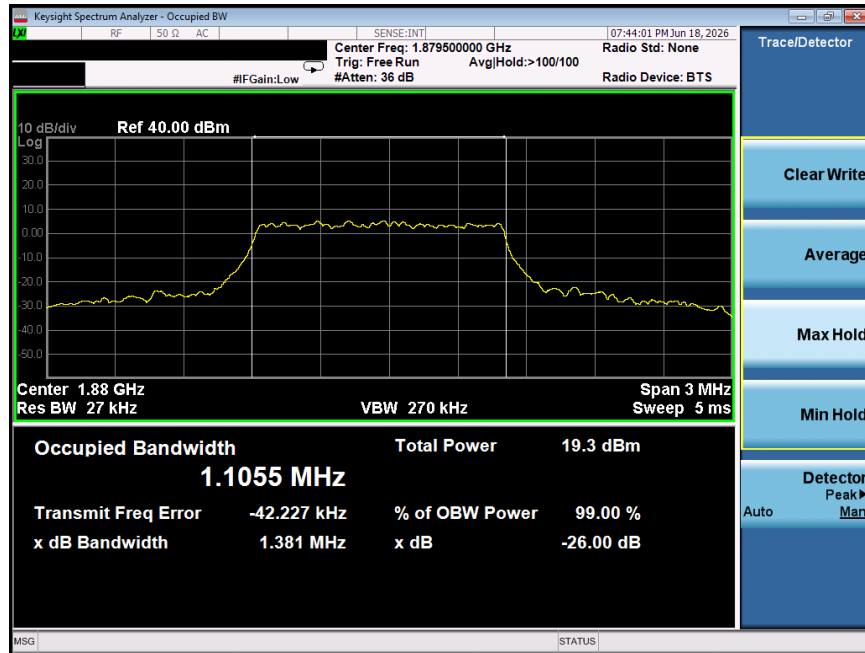
FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.IPH		This report is blockchain verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the blockchain logo.		Page 18 of 32

Mode	Bandwidth	Modulation	OBW [MHz]
Band 2	20 MHz	QPSK	1.106
		16QAM	0.955
	15 MHz	QPSK	1.110
		16QAM	0.972
	10 MHz	QPSK	1.103
		16QAM	0.966
	5MHz	QPSK	1.114
		16QAM	0.966
	3 MHz	QPSK	1.102
		16QAM	0.959
	1.4 MHz	QPSK	1.105
		16QAM	0.953

Table 7-4. Occupied Bandwidth Results

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 19 of 32

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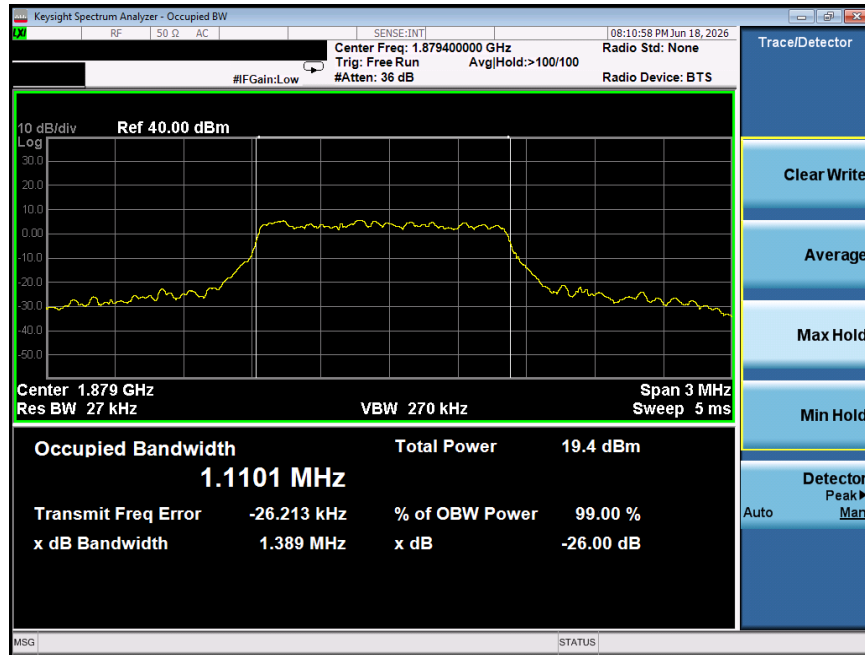


Plot 7-3. Occupied Bandwidth Plot (LTE Band 2 - 20MHz QPSK - Full RB)



Plot 7-3. Occupied Bandwidth Plot (LTE Band 2 - 20MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 20 of 32

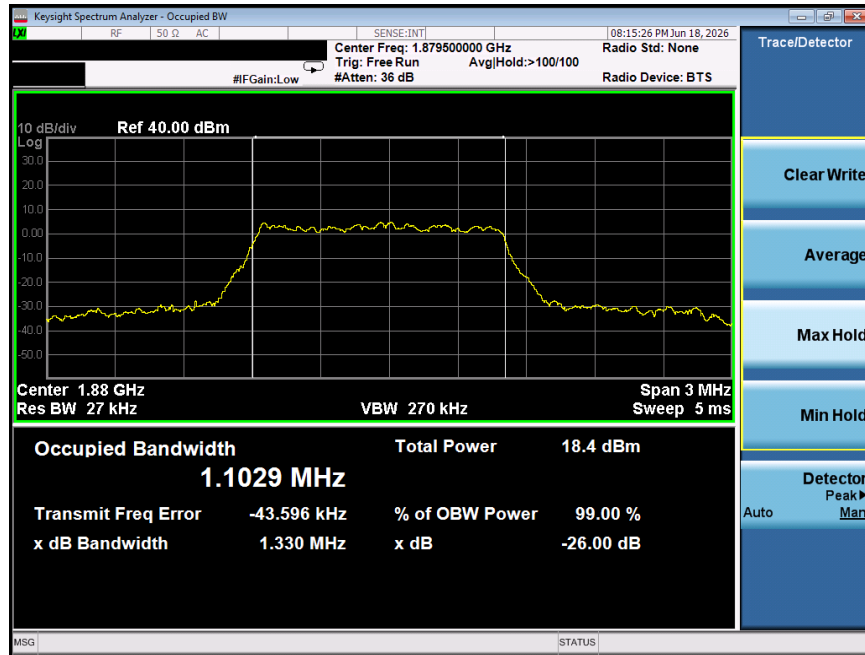


Plot 7-5. Occupied Bandwidth Plot (LTE Band 2 - 15MHz QPSK - Full RB)

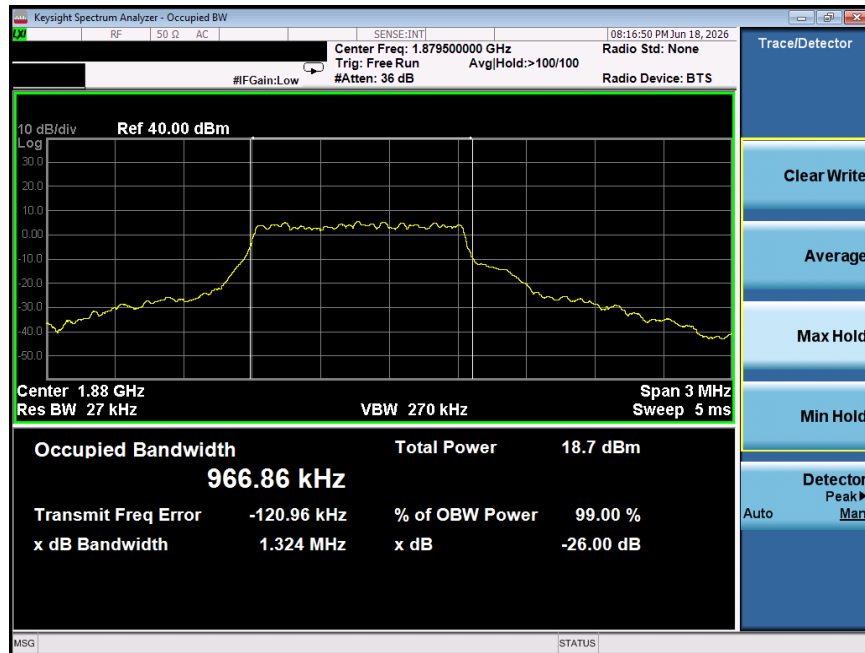


Plot 7-6. Occupied Bandwidth Plot (LTE Band 2 - 15MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 21 of 32

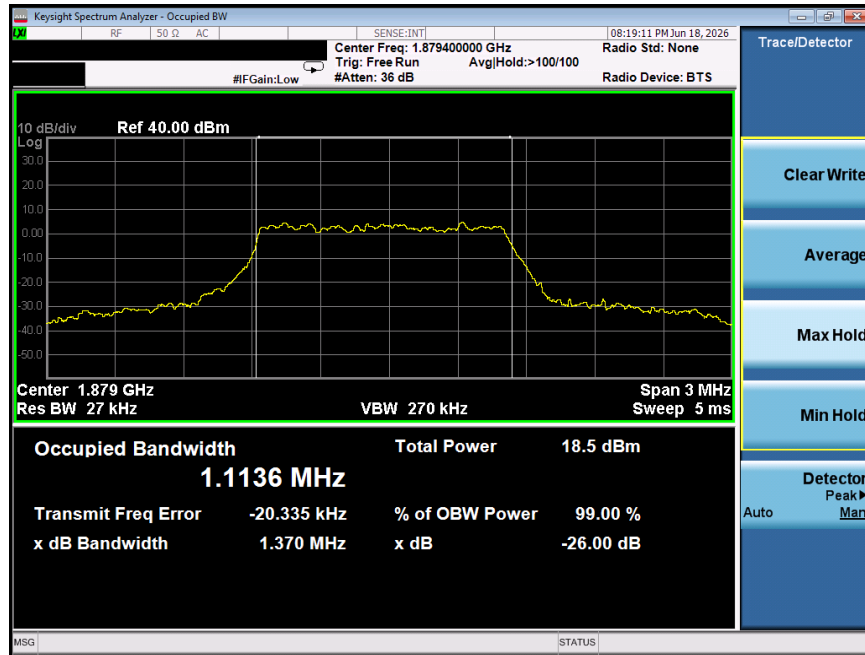


Plot 7-7. Occupied Bandwidth Plot (LTE Band 2 - 10MHz QPSK - Full RB)

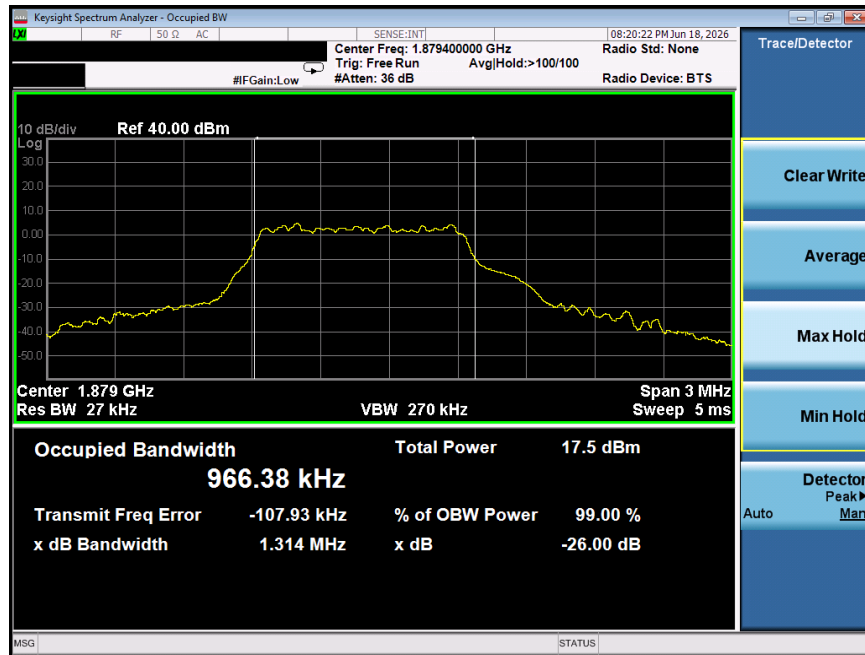


Plot 7-8. Occupied Bandwidth Plot (LTE Band 2 - 10MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 22 of 32

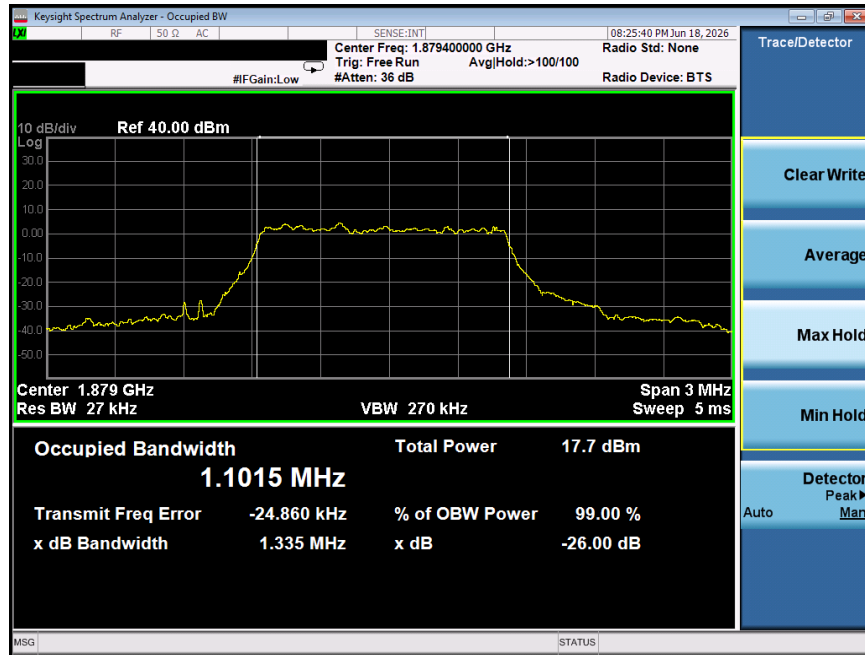


Plot 7-9. Occupied Bandwidth Plot (LTE Band 2 - 5MHz QPSK - Full RB)

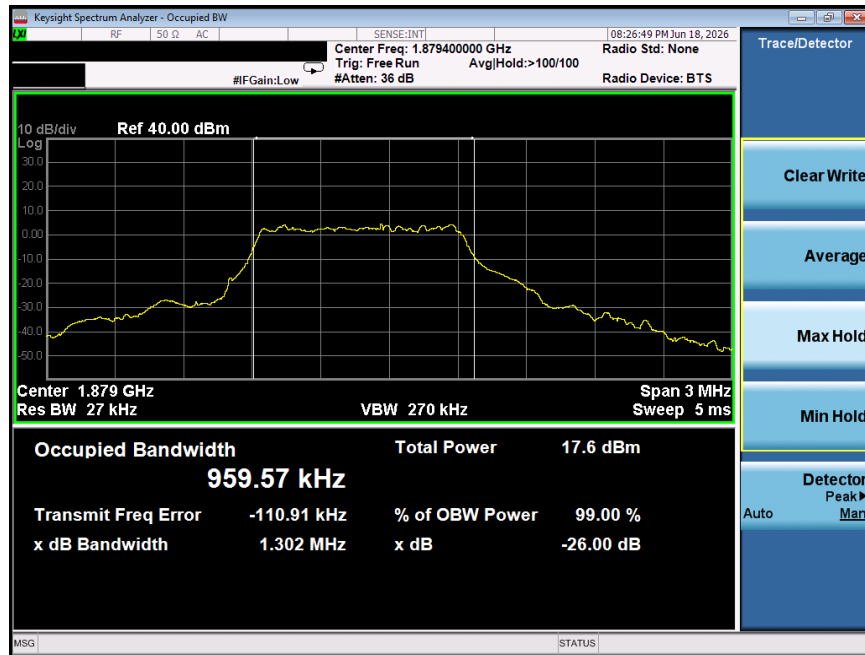


Plot 7-10. Occupied Bandwidth Plot (LTE Band 2 - 5MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 23 of 32

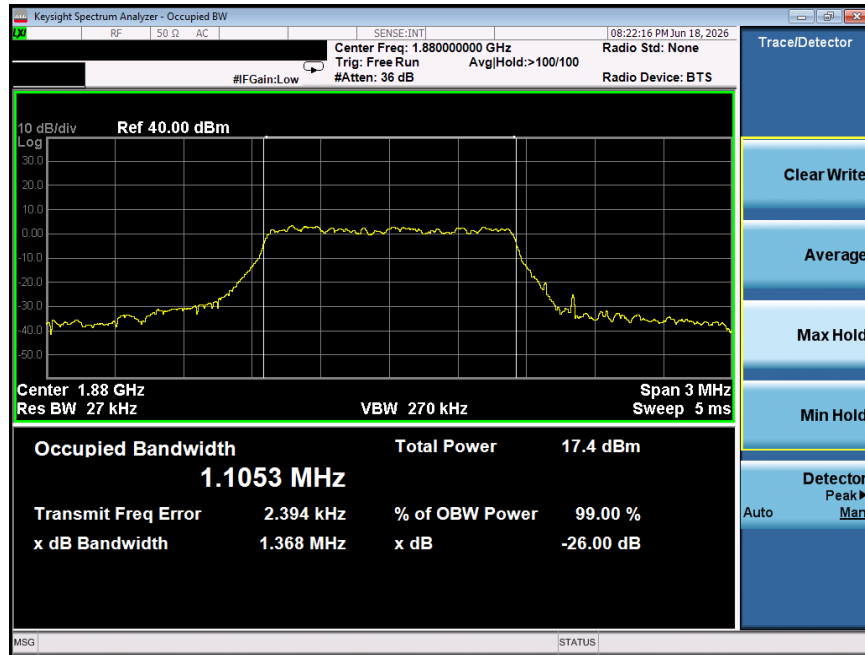


Plot 7-11. Occupied Bandwidth Plot (LTE Band 2 - 3MHz QPSK - Full RB)

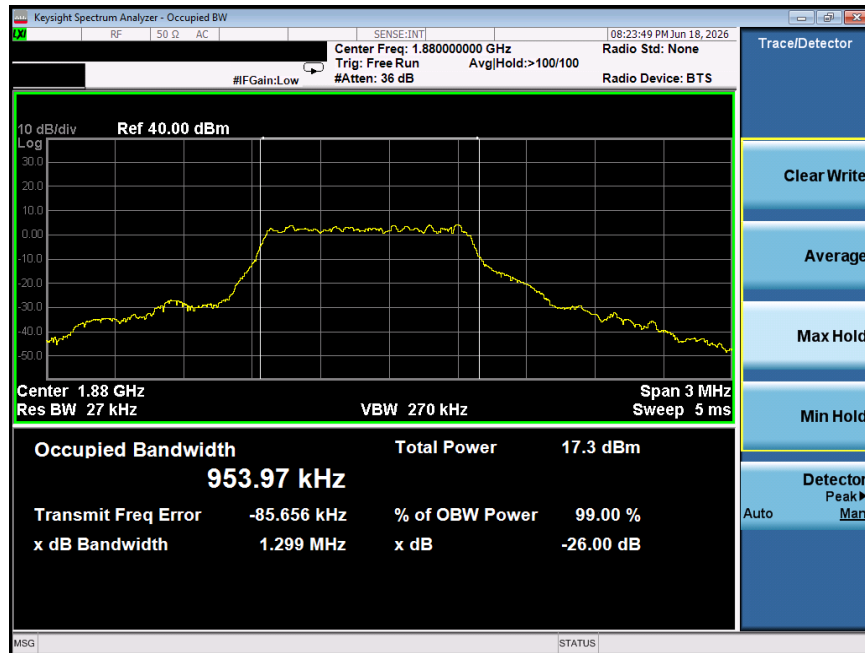


Plot 7-12. Occupied Bandwidth Plot (LTE Band 2 - 3MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 24 of 32



Plot 7-13. Occupied Bandwidth Plot (LTE Band 2 - 1.4MHz QPSK - Full RB)



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

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 25 of 32

7.4 Radiated Spurious Emissions

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

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

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 26 of 32

Test Setup

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

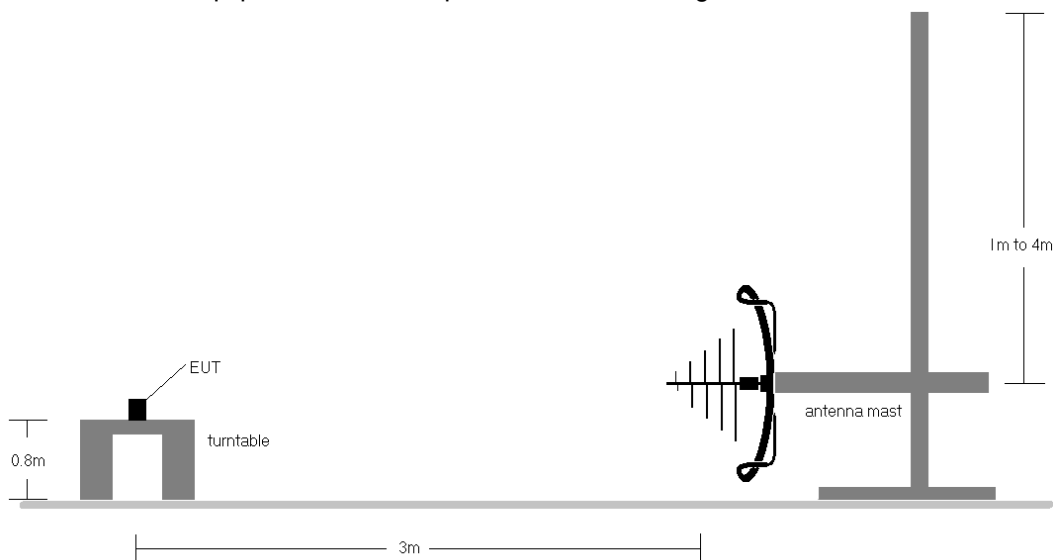


Figure 7-3. Test Instrument & Measurement Setup < 1GHz

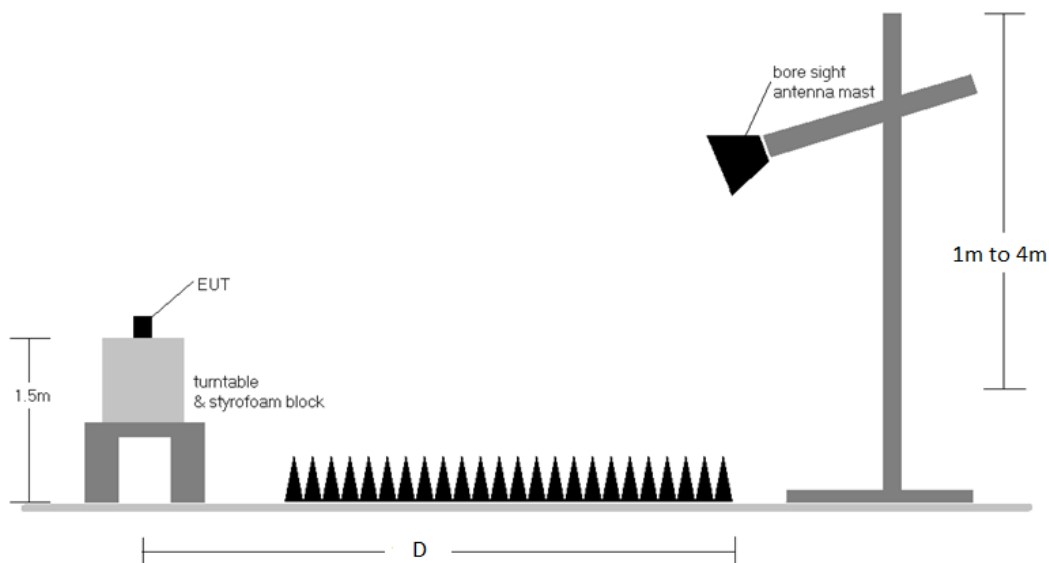


Figure 7-4. Test Instrument & Measurement Setup >1 GHz

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 27 of 32

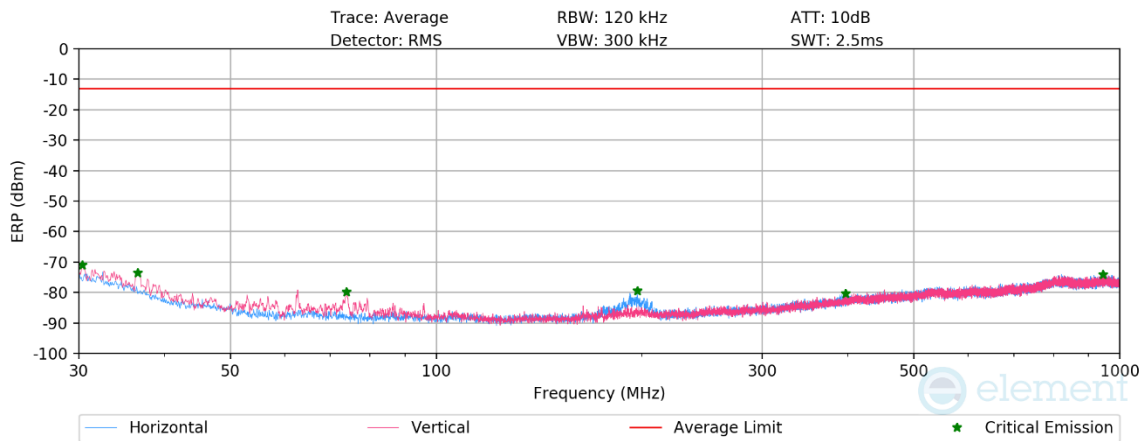
Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
6. No significant emissions were found for below 1GHz.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 32

7.4.1 Radiated Spurious Emission Measurement

LTE Cat-M1 Band 2



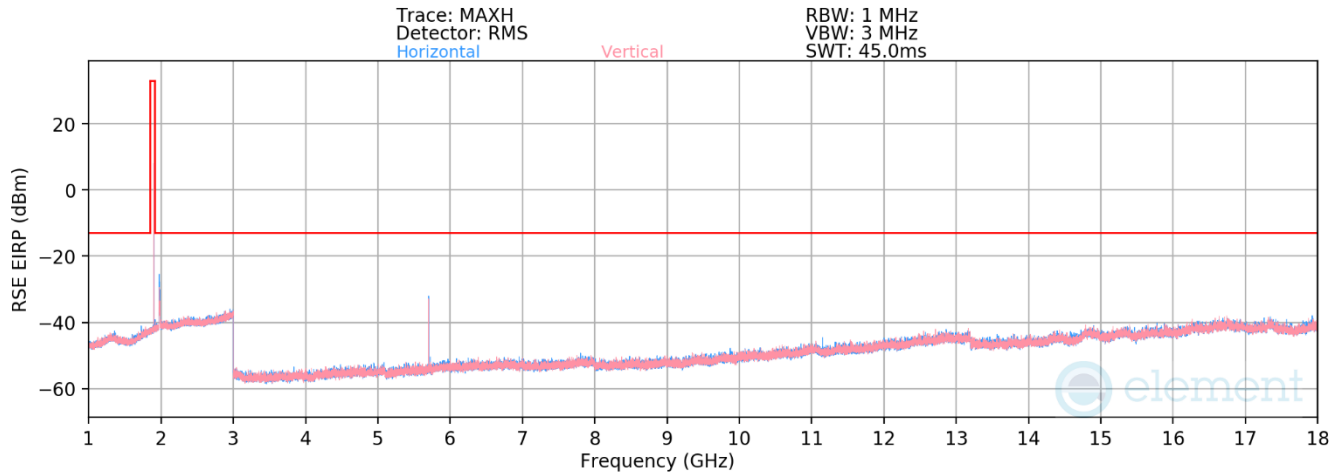
Plot 7-1. Radiated Spurious Plot (LTE Cat-M1 Band 2 – High Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1900.0
RB / Offset:	1/3

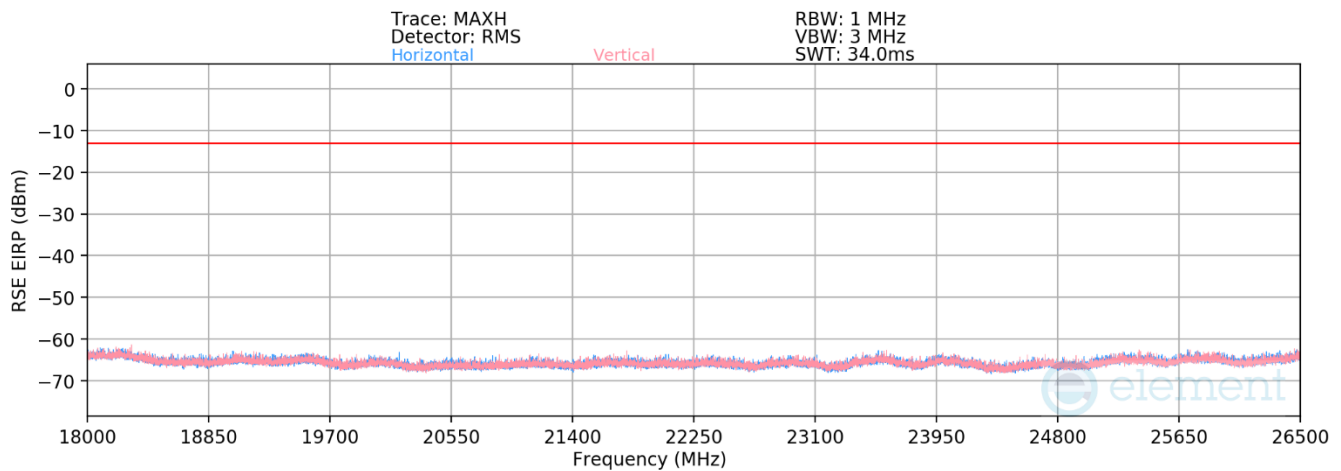
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
30.36	RMS	V	200	59	-80.17	-0.11	26.72	-71.04	-13.00	-58.04
36.54	RMS	V	200	251	-79.81	-2.88	24.32	-73.44	-13.00	-60.44
73.86	RMS	V	200	1	-79.71	-9.31	17.99	-79.77	-13.00	-66.77
196.81	RMS	H	300	149	-83.55	-5.20	18.25	-79.50	-13.00	-66.50
396.86	RMS	V	200	58	-90.87	1.32	17.46	-80.30	-13.00	-67.30
944.20	RMS	V	200	89	-93.21	9.83	23.62	-74.14	-13.00	-61.14

Table 7-5. Radiated Spurious Data (LTE Cat-M1 Band 2 – High Channel) -Below 1GHz

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 32



Plot 7-2. Radiated Spurious Plot (LTE Cat-M1 Band 2 – High Channel) 1-18GHz



Plot 7-3. Radiated Spurious Plot (LTE Cat-M1 Band 2 – High Channel) Above 18GHz

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 30 of 32

Bandwidth (MHz):		20							
Frequency (MHz):		1860.0							
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]
3720.0	-	-	-	-78.74	5.60	33.86	-61.40	-13.00	-48.40
5580.0	V	257	290	-62.36	8.79	53.43	-41.83	-13.00	-28.83
7440.0	-	-	-	-81.59	11.15	36.56	-58.69	-13.00	-45.69
9300.0	-	-	-	-81.82	12.17	37.35	-57.91	-13.00	-44.91
11160.0	-	-	-	-83.25	16.01	39.76	-55.50	-13.00	-42.50

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

Bandwidth (MHz):		20							
Frequency (MHz):		1880.0							
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]
3760.0	-	-	-	-78.80	5.42	33.62	-61.64	-13.00	-48.64
5640.0	V	116	267	-56.20	8.68	59.48	-35.78	-13.00	-22.78
7520.0	-	-	-	-81.69	11.01	36.32	-58.94	-13.00	-45.94
9400.0	-	-	-	-81.17	13.01	38.84	-56.42	-13.00	-43.42
11280.0	-	-	-	-83.68	16.57	39.89	-55.37	-13.00	-42.37

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

av

Bandwidth (MHz):		20							
Frequency (MHz):		1900.0							
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	-	-	-	-79.02	5.63	33.61	-61.65	-13.00	-48.65
5700.00	V	105	272	-52.62	8.84	63.22	-32.03	-13.00	-19.03
7600.00	-	-	-	-82.41	11.11	35.70	-59.55	-13.00	-46.55
9500.00	-	-	-	-83.87	12.70	35.83	-59.42	-13.00	-46.42
11400.00	-	-	-	-84.03	17.07	40.04	-55.22	-13.00	-42.22
19015.49	V	-	-	-60.22	-6.04	40.75	-54.51	-13.00	-41.51
20879.87	V	-	-	-60.75	-6.58	39.66	-55.59	-13.00	-42.59
22801.90	V	-	-	-61.18	-5.98	39.84	-55.41	-13.00	-42.41

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

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 31 of 32

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Garmin International Inc Portable Digital Transceiver FCC ID: IPH-05171, IC: 1792A-05171** complies with all the requirements of Part 24 of the FCC rules and RSS-133 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: IPH-05171 IC: 1792A-05171		Test Dates: 2/18/2026 - 7/8/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-01.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 32 of 32