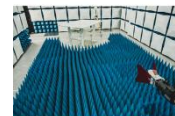




ELEMENT MATERIALS TECHNOLOGY

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PART 25 | RSS-170 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

2/18/2026 - 6/24/2026

Test Report Issue Date:

7/9/2026

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2605260039-02.IPH

FCC ID:

IPH-05171

IC:

1792A-05171

APPLICANT:

Garmin International Inc

Application Type:

Certification

Model:

A05171

EUT Type:

Portable Digital Transceiver

FCC Classification:

PCS licensed Transmitter worn on body(PCT)

FCC Rule Part:

25

ISED Specification:

RSS-Gen Issue 5, RSS-170 Issue 4

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.

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	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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V3.0 6/13/2023

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Revision Summary

Revision	Date	Comments	Revised By
-	7/1/2026	Initial Release	WKR0000010305

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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MEASUREMENT REPORT

PART 25 | RSS-170

Mode	SCS	Frequency [MHz]	EIRP		Emission Designator
			Max.Power [mW]	Max.Power [dBm]	
NTN BAND 255	3.75kHz / 15kHz	2000.1-2019.9	0.051	17.10	189KG7D
NTN BAND 252(23)	3.75kHz / 15kHz	1626.6-1660.4	0.158	21.99	189KG7D

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 Test Location

Measurements were conducted at the Element laboratory 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 Materials Technology located in Morgan Hill, CA 95037, 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 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 25 and RSS-170.

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

For this EUT configuration, only the NB-IoT capability of the module is enabled for NTN specific operation

Test Device Serial No.: 3630652781, 3630652769

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

For NTN operation under B255 (1626.5 – 1660.5MHz) and B23/252 (2000.1 - 2019.9MHz), this device supports both 3.75kHz and 15kHz subcarrier spacings with QPSK and BPSK modulations.

2.3 Antenna Description

The following antenna gains provided by the manufacturer were used for testing.

Band	Frequency Range [MHz]	Maximum Peak Gain (dBi)
NTN n23	2000 - 2020	-0.58
NTN n255	1626.5 - 1660.5	-5.21

Table 2-1. Highest Antenna Gain

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2.4 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 worst case configuration was investigated with or without wristbands. The worst case configuration found was used for all testing.

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

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.

All possible simultaneous transmission configurations have been investigated and the worst case config has been reported.

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 2-2. 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 reports.

2.5 Software and Firmware

Testing was performed on device(s) using software/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 “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, substitution method is used per the guidance of ANSI C63.26-2015. For emissions below 1GHz, a half-wave dipole is substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]};$$

where P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss [dB]}$.

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	2.00
Radiated Disturbance (30MHz - 1GHz)	4.96
Radiated Disturbance (1 - 18GHz)	5.18
Radiated Disturbance (>18GHz)	5.18

Table 4-1. Measurement Uncertainty

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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
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
Anritsu	ML2496A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Anritsu	MA2411B	Pulse Power Sensor	6/27/2025	Annual	6/27/2026	1911105
Anritsu	MA2411B	Pulse Power Sensor	7/3/2025	Annual	7/3/2026	1726261
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/31/2026	Annual	3/31/2027	T058601-02
ETS-Lindgren	3117	Double Ridged Guide Horn (1-18 GHz)	4/21/2026	Annual	4/21/2027	218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	2/20/2026	Annual	2/20/2027	-
Keysight Technology	N9040B	UXA Signal Analyzer	3/19/2026	Annual	3/19/2027	MY60080210
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	8/5/2025	Annual	8/5/2026	104093
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/11/2026	Annual	3/11/2027	101716
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	10/14/2025	Annual	10/14/2026	102328
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	7/3/2025	Annual	7/3/2026	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/26/2025	Annual	6/26/2026	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	8/18/2025	Annual	8/18/2026	101363
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	7/17/2025	Annual	7/17/2026	00302

Table 5-1. Test Equipment

Notes:

1. 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.
2. * denotes passive equipment that have been internally verified/calibrated.

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6.0 SAMPLE EMISSION DESIGNATORS

PSK Modulation

Emission Designator = 200KG7D

BW = 200 kHz

G = Phase Modulation

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): NTN

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, 25.204(a)	RSS-170 (5.5)	40dBW (max)	Pass	Section 7.2	No
	Occupied Bandwidth	2.1049	RSS-Gen (6.7)	N/A	Pass	Please see Note 5	Yes
	Conducted Emission Mask; Conducted Spurious Emissions	2.1051, 25.202(f)	RSS-170 (5.1) (5.8)	25.202 (f)	Pass	Please see Note 5	Yes
	Frequency Stability	2.1055, 25.202	RSS-170 (5.3)	<0.001% of reference frequency	Pass	Please see Note 5	Yes
Radiated	Radiated Spurious Emissions	25.202(f)	RSS-170 (5.8)	>43 + 10 log10 P[Watts] for all out-of-band emissions	Pass	Section 7.2	No
	Radiated Spurious Emissions (1559 - 1610MHz)	25.216(c/h)	RSS-170 (5.9)	<-70dBW/MHz for emissions in the band 1559-1605MHz; <-46dBW/MHz at 1610MHz	Pass	Section 7.5	No
	Carrier-Off State Emissions (1559 - 1610MHz)	25.216(i)	RSS-170 (5.10)	<-80dBW/MHz for emissions in the band 1559-1610MHz	Pass	Section 7.6	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 v2.3.0.
- 5) This report is based on the original report (Report No. 5121ERM.001A1) 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)

§2.1046, 25.204(a)

Test Overview

All emissions are measured with a power meter 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.

The EIRP shall not exceed +40 dBW in any 4 kHz band.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.2

Test Settings

1. Detector = RMS
2. Trace mode = trace average for continuous emissions
3. The trace was allowed to stabilize

Test Setup

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

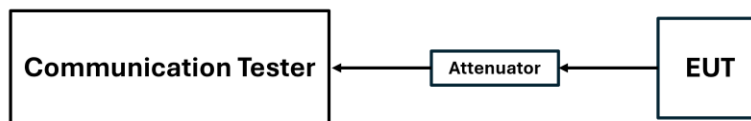


Figure 7-1. Test Instrument & Measurement Setup

Test Notes:

1. 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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Band 255

SCS	SC Size	Tx Channel	Frequency [MHz]	Conducted Power [dBm]		Ant. Gain [dBi]	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
				BPSK	QPSK						
3.75kHz	1SC0	261505	1626.6	22.11	22.10	-5.21	22.11	16.90	0.049	70.00	-69.95
	1SC24	261505	1626.6	22.21	22.19	-5.21	22.21	17.00	0.050	70.00	-69.95
	1SC47	261505	1626.6	22.09	22.06	-5.21	22.09	16.88	0.049	70.00	-69.95
15kHz	1SC0	261505	1626.6	22.12	22.14	-5.21	22.14	16.93	0.049	70.00	-69.95
	1SC6	261505	1626.6	22.29	22.19	-5.21	22.29	17.08	0.051	70.00	-69.95
	1SC11	261505	1626.6	22.14	22.13	-5.21	22.14	16.93	0.049	70.00	-69.95
	3SC0	261505	1626.6	N/A	22.01	-5.21	22.01	16.80	0.048	70.00	-69.95
	3SC6	261505	1626.6	N/A	22.12	-5.21	22.12	16.91	0.049	70.00	-69.95
	3SC9	261505	1626.6	N/A	22.04	-5.21	22.04	16.83	0.048	70.00	-69.95
	6SC0	261505	1626.6	N/A	21.12	-5.21	21.12	15.91	0.039	70.00	-69.96
	6SC6	261505	1626.6	N/A	21.17	-5.21	21.17	15.96	0.039	70.00	-69.96
3.75kHz	1SC0	261674	1643.5	22.17	22.23	-5.21	22.23	17.02	0.050	70.00	-69.95
	1SC24	261674	1643.5	22.25	22.17	-5.21	22.25	17.04	0.051	70.00	-69.95
	1SC47	261674	1643.5	22.17	22.22	-5.21	22.22	17.01	0.050	70.00	-69.95
15kHz	1SC0	261674	1643.5	22.23	22.31	-5.21	22.31	17.10	0.051	70.00	-69.95
	1SC6	261674	1643.5	22.26	22.25	-5.21	22.26	17.05	0.051	70.00	-69.95
	1SC11	261674	1643.5	22.21	22.22	-5.21	22.22	17.01	0.050	70.00	-69.95
	3SC0	261674	1643.5	N/A	22.17	-5.21	22.17	16.96	0.050	70.00	-69.95
	3SC6	261674	1643.5	N/A	22.15	-5.21	22.15	16.94	0.049	70.00	-69.95
	3SC9	261674	1643.5	N/A	22.10	-5.21	22.10	16.89	0.049	70.00	-69.95
	6SC0	261674	1643.5	N/A	21.21	-5.21	21.21	16.00	0.040	70.00	-69.96
	6SC6	261674	1643.5	N/A	21.18	-5.21	21.18	15.97	0.040	70.00	-69.96
3.75kHz	1SC0	261843	1660.4	22.13	22.14	-5.21	22.14	16.93	0.049	70.00	-69.95
	1SC24	261843	1660.4	22.20	22.17	-5.21	22.20	16.99	0.050	70.00	-69.95
	1SC47	261843	1660.4	22.04	22.10	-5.21	22.10	16.89	0.049	70.00	-69.95
15kHz	1SC0	261843	1660.4	22.18	22.19	-5.21	22.19	16.98	0.050	70.00	-69.95
	1SC6	261843	1660.4	22.15	22.22	-5.21	22.22	17.01	0.050	70.00	-69.95
	1SC11	261843	1660.4	22.18	22.17	-5.21	22.18	16.97	0.050	70.00	-69.95
	3SC0	261843	1660.4	N/A	22.09	-5.21	22.09	16.88	0.049	70.00	-69.95
	3SC6	261843	1660.4	N/A	22.17	-5.21	22.17	16.96	0.050	70.00	-69.95
	3SC9	261843	1660.4	N/A	22.07	-5.21	22.07	16.86	0.049	70.00	-69.95
	6SC0	261843	1660.4	N/A	21.05	-5.21	21.05	15.84	0.038	70.00	-69.96
	6SC6	261843	1660.4	N/A	21.19	-5.21	21.19	15.98	0.040	70.00	-69.96
3.75kHz	1SC0	261843	1660.4	22.13	22.14	-5.21	22.14	16.93	0.049	70.00	-69.95
	1SC24	261843	1660.4	22.20	22.17	-5.21	22.20	16.99	0.050	70.00	-69.95
	1SC47	261843	1660.4	22.04	22.10	-5.21	22.10	16.89	0.049	70.00	-69.95
15kHz	1SC0	261843	1660.4	22.18	22.19	-5.21	22.19	16.98	0.050	70.00	-69.95
	1SC6	261843	1660.4	22.15	22.22	-5.21	22.22	17.01	0.050	70.00	-69.95
	1SC11	261843	1660.4	22.18	22.17	-5.21	22.18	16.97	0.050	70.00	-69.95
	3SC0	261843	1660.4	N/A	22.09	-5.21	22.09	16.88	0.049	70.00	-69.95
	3SC6	261843	1660.4	N/A	22.17	-5.21	22.17	16.96	0.050	70.00	-69.95
	3SC9	261843	1660.4	N/A	22.07	-5.21	22.07	16.86	0.049	70.00	-69.95
	6SC0	261843	1660.4	N/A	21.05	-5.21	21.05	15.84	0.038	70.00	-69.96
	6SC6	261843	1660.4	N/A	21.19	-5.21	21.19	15.98	0.040	70.00	-69.96
3.75kHz	1SC0	261843	1660.4	22.13	22.14	-5.21	22.14	16.93	0.049	70.00	-69.95
	1SC24	261843	1660.4	22.20	22.17	-5.21	22.20	16.99	0.050	70.00	-69.95
	1SC47	261843	1660.4	22.04	22.10	-5.21	22.10	16.89	0.049	70.00	-69.95
15kHz	1SC0	261843	1660.4	22.18	22.19	-5.21	22.19	16.98	0.050	70.00	-69.95
	1SC6	261843	1660.4	22.15	22.22	-5.21	22.22	17.01	0.050	70.00	-69.95
	1SC11	261843	1660.4	22.18	22.17	-5.21	22.18	16.97	0.050	70.00	-69.95
	3SC0	261843	1660.4	N/A	22.09	-5.21	22.09	16.88	0.049	70.00	-69.95
	3SC6	261843	1660.4	N/A	22.17	-5.21	22.17	16.96	0.050	70.00	-69.95
	3SC9	261843	1660.4	N/A	22.07	-5.21	22.07	16.86	0.049	70.00	-69.95
	6SC0	261843	1660.4	N/A	21.05	-5.21	21.05	15.84	0.038	70.00	-69.96
	6SC6	261843	1660.4	N/A	21.19	-5.21	21.19	15.98	0.040	70.00	-69.96
3.75kHz	1SC0	261843	1660.4	22.13	22.14	-5.21	22.14	16.93	0.049	70.00	-69.95
	1SC24	261843	1660.4	22.20	22.17	-5.21	22.20	16.99	0.050	70.00	-69.95
	1SC47	261843	1660.4	22.04	22.10	-5.21	22.10	16.89	0.049	70.00	-69.95
15kHz	1SC0	261843	1660.4	22.18	22.19	-5.21	22.19	16.98	0.050	70.00	-69.95
	1SC6	261843	1660.4	22.15	22.22	-5.21	22.22	17.01	0.050	70.00	-69.95
	1SC11	261843	1660.4	22.18	22.17	-5.21	22.18	16.97	0.050	70.00	-69.95
	3SC0	261843	1660.4	N/A	22.09	-5.21	22.09	16.88	0.049	70.00	-69.95
	3SC6	261843	1660.4	N/A	22.17	-5.21	22.17	16.96	0.050	70.00	-69.95
	3SC9	261843	1660.4	N/A	22.07	-5.21	22.07	16.86	0.049	70.00	-69.95
	6SC0	261843	1660.4	N/A	21.05	-5.21	21.05	15.84	0.038	70.00	-69.96
	6SC6	261843	1660.4	N/A	21.19	-5.21	21.19	15.98	0.040	70.00	-69.96
3.75kHz	1SC0	261843	1660.4	22.13	22.14	-5.21	22.14	16.93	0.049	70.00	-69.95
	1SC24	261843	1660.4	22.20	22.17	-5.21	22.20	16.99	0.050	70.00	-69.95
	1SC47	261843	1660.4	22.04	22.10	-5.21	22.10	16.89	0.049	70.00	-69.95
15kHz	1SC0	261843	1660.4	22.18	22.19	-5.21	22.19	16.98	0.050	70.00	-69.95
	1SC6	261843	1660.4	22.15	22.22	-5.21	22.22	17.01	0.050	70.00	-69.95
	1SC11	261843	1660.4	22.18	22.17	-5.21	22.18	16.97	0.050	70.00	-69.95
	3SC0	261843	1660.4	N/A	22.09	-5.21	22.09	16.88	0.049	70.00	-69.95
	3SC6	261843	1660.4	N/A	22.17	-5.21	22.17	16.96	0.050	70.00	-69.95
	3SC9	261843	1660.4	N/A	22.07	-5.21	22.07	16.86	0.049	70.00	-69.95
	6SC0	261843	1660.4	N/A	21.05	-5.21	21.05	15.84	0.038	70.00	-69.96
	6SC6	261843	1660.4	N/A	21.19	-5.21	21.19	15.98	0.040	70.00	-69.96

Table 7-2. Conducted/Radiated Power Result – Band 255

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-02.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 14 of 34

Band 23/252

SCS	SC Size	Tx Channel	Frequency [MHz]	Conducted Power [dBm]		Ant. Gain [dBi]	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [Watts]	Margin [dB]
				BPSK	QPSK						
3.75kHz	1SC0	261070	2000.1	22.40	22.41	-0.58	22.41	21.83	0.152	70.00	-69.85
	1SC24	261070	2000.1	22.46	22.46	-0.58	22.46	21.88	0.154	70.00	-69.85
	1SC47	261070	2000.1	22.43	22.43	-0.58	22.43	21.85	0.153	70.00	-69.85
15kHz	1SC0	261070	2000.1	22.50	22.51	-0.58	22.51	21.93	0.156	70.00	-69.84
	1SC6	261070	2000.1	22.55	22.55	-0.58	22.55	21.97	0.157	70.00	-69.84
	1SC11	261070	2000.1	22.39	22.41	-0.58	22.41	21.83	0.152	70.00	-69.85
	3SC0	261070	2000.1	N/A	21.92	-0.58	21.92	21.34	0.136	70.00	-69.86
	3SC6	261070	2000.1	N/A	22.04	-0.58	22.04	21.46	0.140	70.00	-69.86
	3SC9	261070	2000.1	N/A	21.96	-0.58	21.96	21.38	0.137	70.00	-69.86
	6SC0	261070	2000.1	N/A	21.48	-0.58	21.48	20.90	0.123	70.00	-69.88
	6SC6	261070	2000.1	N/A	21.54	-0.58	21.54	20.96	0.125	70.00	-69.88
	12SC0	261070	2000.1	N/A	20.76	-0.58	20.76	20.18	0.104	70.00	-69.90
3.75kHz	1SC0	261169	2010	22.45	22.47	-0.58	22.47	21.89	0.155	70.00	-69.85
	1SC24	261169	2010	22.51	22.50	-0.58	22.51	21.93	0.156	70.00	-69.84
	1SC47	261169	2010	22.42	22.46	-0.58	22.46	21.88	0.154	70.00	-69.85
15kHz	1SC0	261169	2010	22.54	22.55	-0.58	22.55	21.97	0.157	70.00	-69.84
	1SC6	261169	2010	22.55	22.54	-0.58	22.55	21.97	0.157	70.00	-69.84
	1SC11	261169	2010	22.56	22.57	-0.58	22.57	21.99	0.158	70.00	-69.84
	3SC0	261169	2010	N/A	21.99	-0.58	21.99	21.41	0.138	70.00	-69.86
	3SC6	261169	2010	N/A	22.04	-0.58	22.04	21.46	0.140	70.00	-69.86
	3SC9	261169	2010	N/A	22.03	-0.58	22.03	21.45	0.140	70.00	-69.86
	6SC0	261169	2010	N/A	21.44	-0.58	21.44	20.86	0.122	70.00	-69.88
	6SC6	261169	2010	N/A	21.51	-0.58	21.51	20.93	0.124	70.00	-69.88
	12SC0	261169	2010	N/A	20.46	-0.58	20.46	19.88	0.097	70.00	-69.90
3.75kHz	1SC0	261268	2019.9	22.47	22.45	-0.58	22.47	21.89	0.155	70.00	-69.85
	1SC24	261268	2019.9	22.49	22.46	-0.58	22.49	21.91	0.155	70.00	-69.84
	1SC47	261268	2019.9	22.40	22.39	-0.58	22.40	21.82	0.152	70.00	-69.85
15kHz	1SC0	261268	2019.9	22.55	22.53	-0.58	22.55	21.97	0.157	70.00	-69.84
	1SC6	261268	2019.9	22.52	22.49	-0.58	22.52	21.94	0.156	70.00	-69.84
	1SC11	261268	2019.9	22.53	22.55	-0.58	22.55	21.97	0.157	70.00	-69.84
	3SC0	261268	2019.9	N/A	21.91	-0.58	21.91	21.33	0.136	70.00	-69.86
	3SC6	261268	2019.9	N/A	21.90	-0.58	21.90	21.32	0.136	70.00	-69.86
	3SC9	261268	2019.9	N/A	21.88	-0.58	21.88	21.30	0.135	70.00	-69.87
	6SC0	261268	2019.9	N/A	21.41	-0.58	21.41	20.83	0.121	70.00	-69.88
	6SC6	261268	2019.9	N/A	21.50	-0.58	21.50	20.92	0.124	70.00	-69.88
	12SC0	261268	2019.9	N/A	20.51	-0.58	20.51	19.93	0.098	70.00	-69.90

Table 7-3. Conducted/Radiated Power Result – Band 23/252

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Sample e.i.r.p Calculation:

At 1626.6 MHz (NTN Band 255), the average conducted output power was measured to be 22.11 dBm with antenna gain -5.21 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)

$$22.11 \text{ dBm} + -5.21 \text{ dBi} = 16.90 \text{ dBm}$$

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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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.

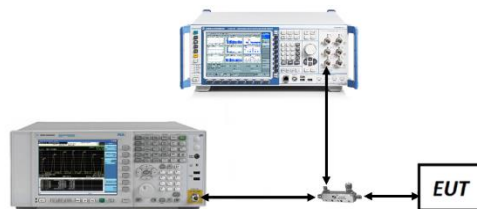


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

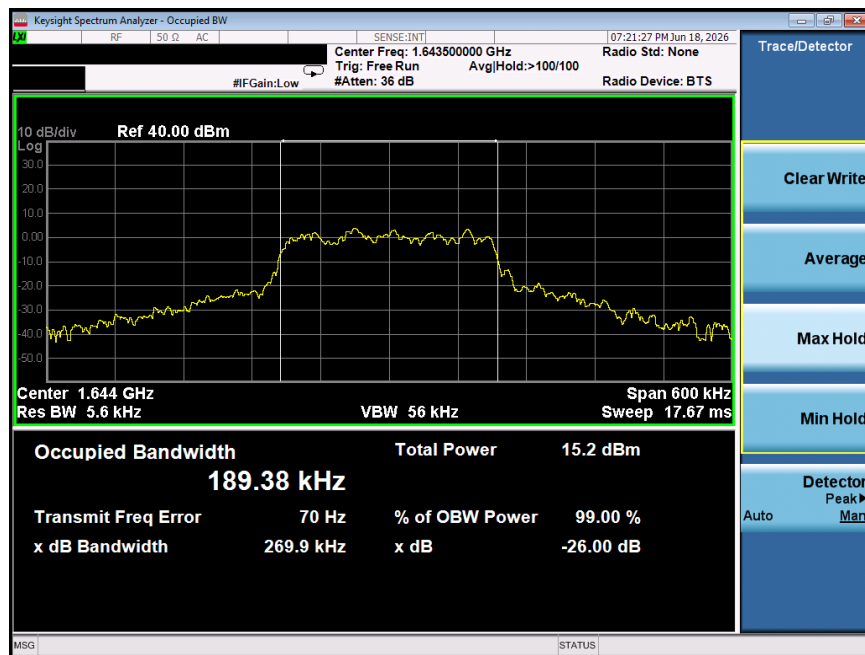
None.

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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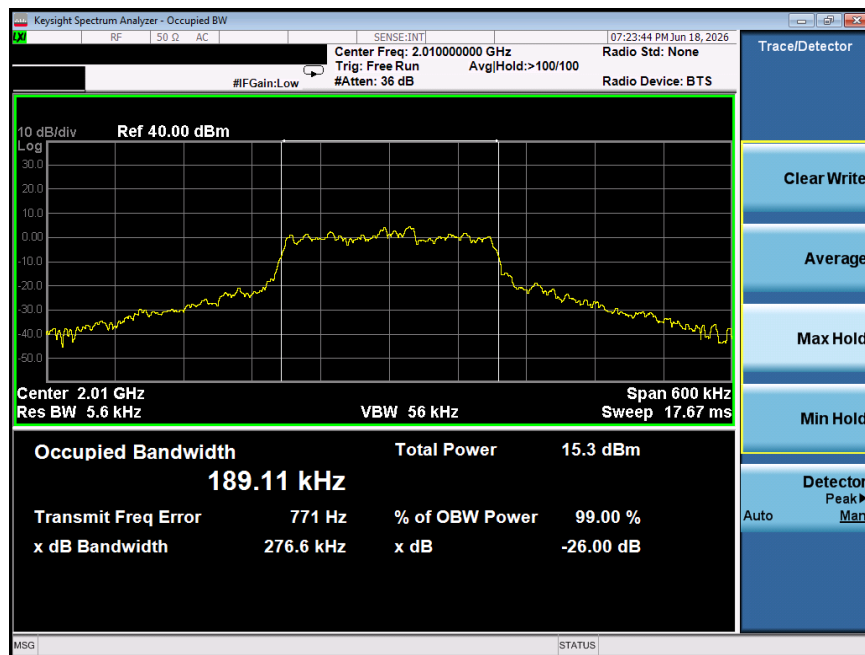
Mode	SCS	Modulation	Channel	OBW [kHz]
NTN BAND 255	3.75kHz / 15kHz	QPSK	Mid	189.38
NTN BAND 252(23)	3.75kHz / 15kHz	QPSK	Mid	189.11

Table 7-4. Occupied Bandwidth Results

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Plot 7-3. Occupied Bandwidth Plot (Band 255, Mid Channel) - QPSK



Plot 7-3. Occupied Bandwidth Plot (Band 23/255, Mid Channel) - QPSK

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	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 $\geq$ 100kHz
2. VBW $\geq$ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq$ 2 x span / RBW
5. Detector = RMS
6. Trace mode = Average
7. The trace was allowed to stabilize

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-02.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 34

Test Setup

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

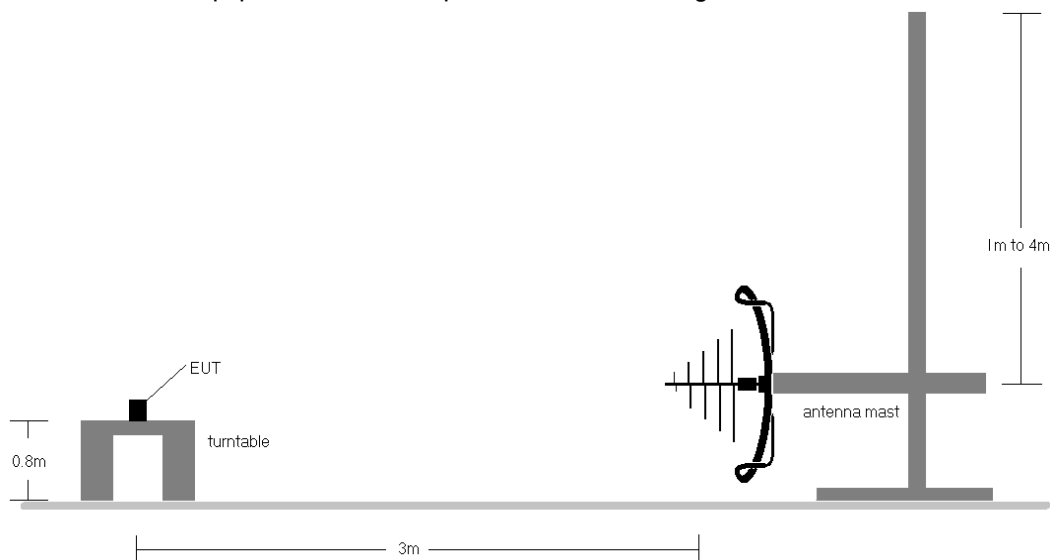


Figure 7-3. Test Instrument & Measurement Setup < 1GHz

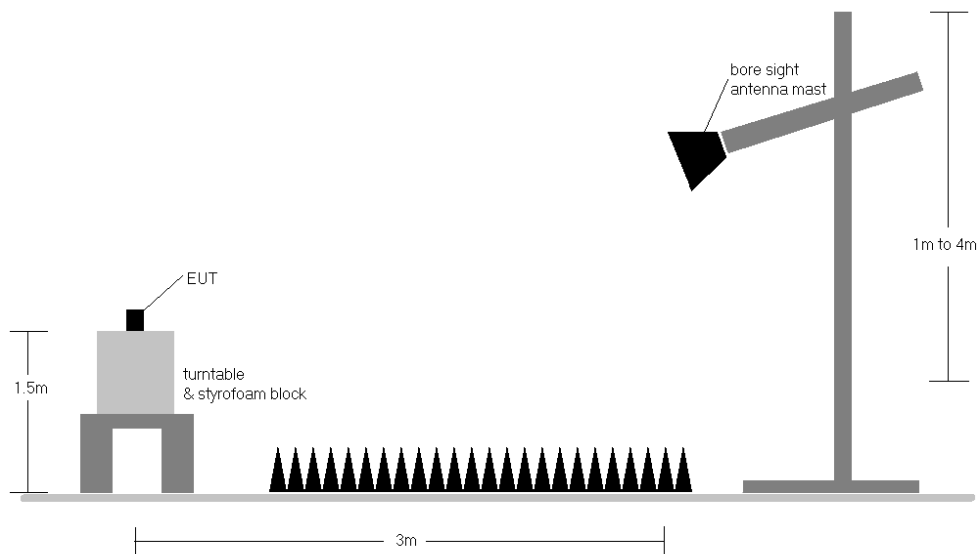


Figure 7-4. Test Instrument & Measurement Setup >1 GHz

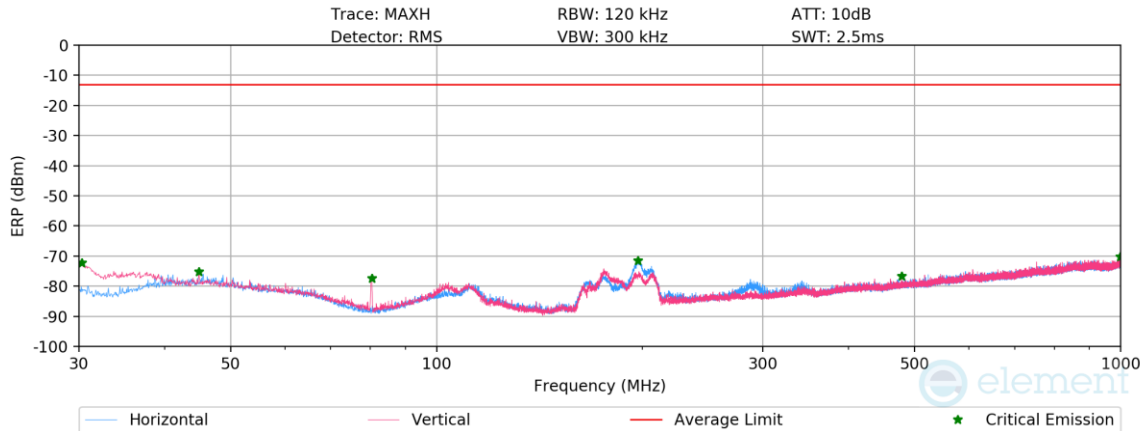
FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-02.IPH	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 21 of 34

Test Notes

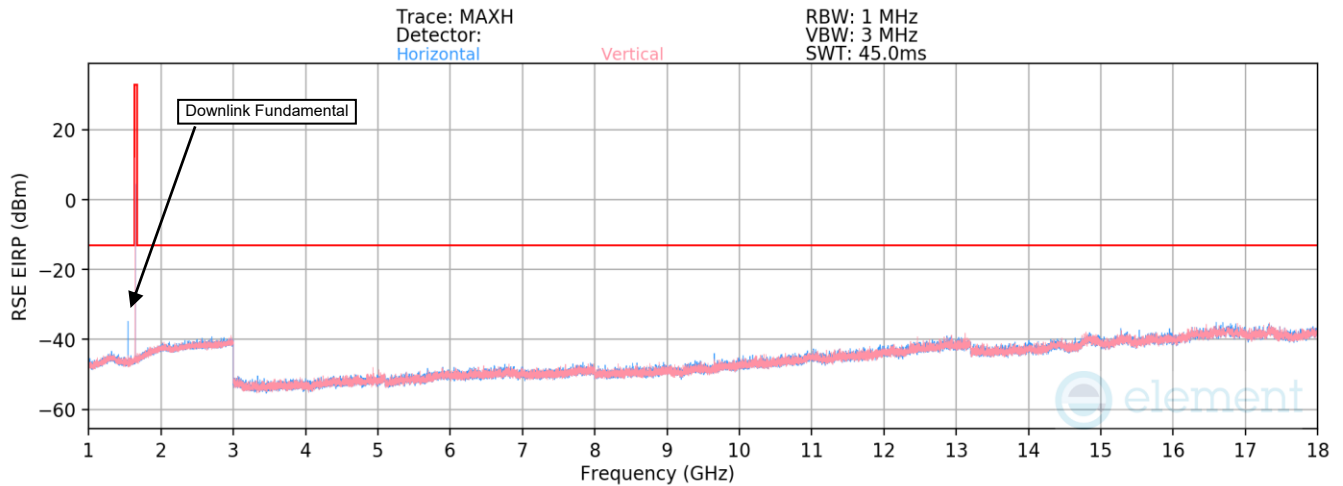
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Band 255



Plot 7-1. Radiated Spurious Plot Below 1GHz (Band 255 – Mid Channel)



Plot 7-2. Radiated Spurious Plot 1 - 18GHz (Band 255 – Mid Channel)

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]
30.30	RMS	V	100	11	-69.84	-11.72	25.44	-72.32	-13.00	-59.32
44.94	RMS	V	200	161	-76.46	-8.01	22.53	-75.23	-13.00	-62.23
80.34	RMS	V	200	352	-72.00	-14.65	20.35	-77.40	-13.00	-64.40
196.99	RMS	H	100	203	-72.23	-8.47	26.30	-71.46	-13.00	-58.46
478.22	RMS	V	300	175	-84.14	-1.83	21.03	-76.72	-13.00	-63.72
998.56	RMS	V	200	240	-85.73	6.33	27.61	-70.15	-13.00	-57.15

Table 7-5. Radiated Spurious Data Below 1GHz (Band 255 – Mid Channel)

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Frequency (MHz):	1626.6
RB / Offset:	1/24

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]
3253.2	H	379	36	-71.43	4.64	40.21	-55.05	-13.00	-42.05
4879.8	V	298	188	-78.17	7.50	36.33	-58.93	-13.00	-45.93
6506.4	-	-	-	-81.24	10.52	36.28	-58.98	-13.00	-45.98
8133.0	-	-	-	-81.28	11.28	37.00	-58.25	-13.00	-45.25
9759.6	-	-	-	-82.60	13.64	38.04	-57.22	-13.00	-44.22

Table 7-6. Radiated Spurious Data (Band 255 – Low Channel)

Frequency (MHz):	1643.5
RB / Offset:	1/24

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]
3287.0	H	349	302	-72.11	4.58	39.47	-55.79	-13.00	-42.79
4930.5	V	119	162	-71.24	7.29	43.05	-52.21	-13.00	-39.21
6574.0	-	-	-	-81.63	10.77	36.14	-59.12	-13.00	-46.12
8217.5	-	-	-	-81.72	10.98	36.26	-59.00	-13.00	-46.00
9861.0	-	-	-	-82.90	14.25	38.35	-56.91	-13.00	-43.91

Table 7-7. Radiated Spurious Data (Band 255 – Mid Channel)

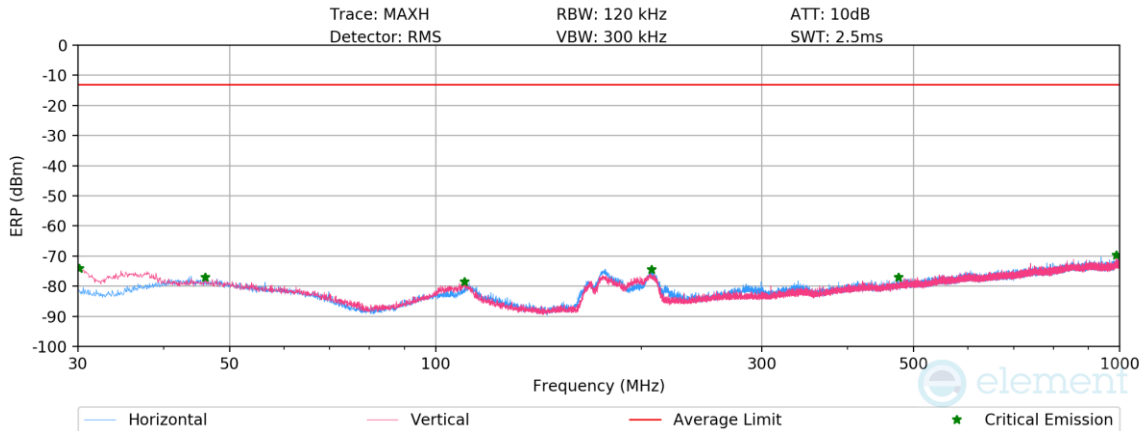
Frequency (MHz):	1660.4
RB / Offset:	1/24

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]
3320.8	V	393	315	-70.63	4.69	41.06	-54.20	-13.00	-41.20
4981.2	V	110	169	-74.39	7.15	39.76	-55.50	-13.00	-42.50
6641.6	-	-	-	-81.35	11.16	36.81	-58.45	-13.00	-45.45
8302.0	-	-	-	-81.71	11.01	36.30	-58.96	-13.00	-45.96
9962.4	-	-	-	-82.80	14.30	38.50	-56.75	-13.00	-43.75

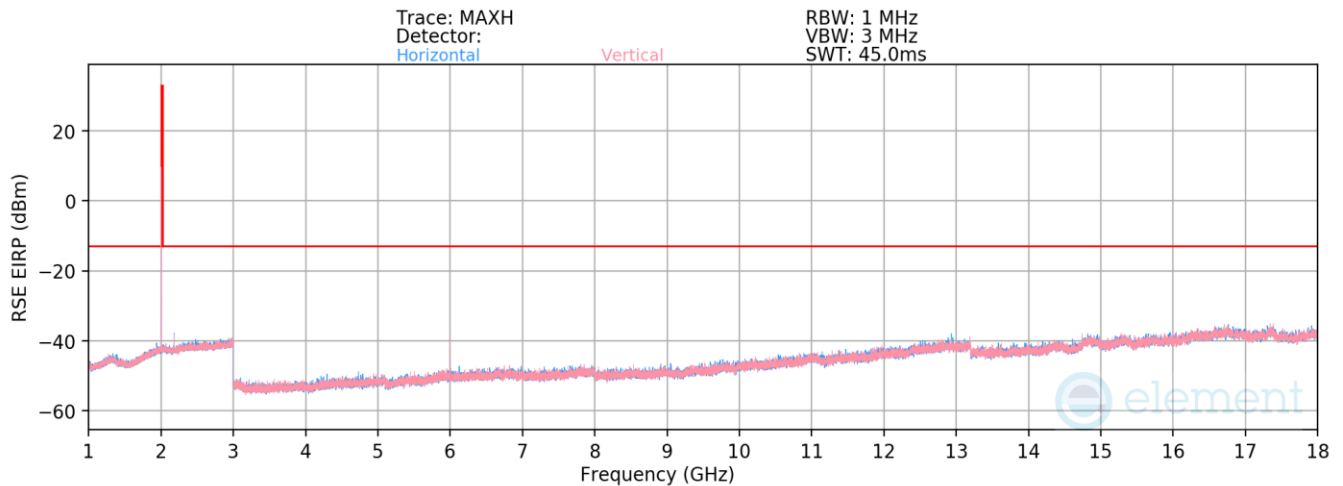
Table 7-8. Radiated Spurious Data (Band 255 – High Channel)

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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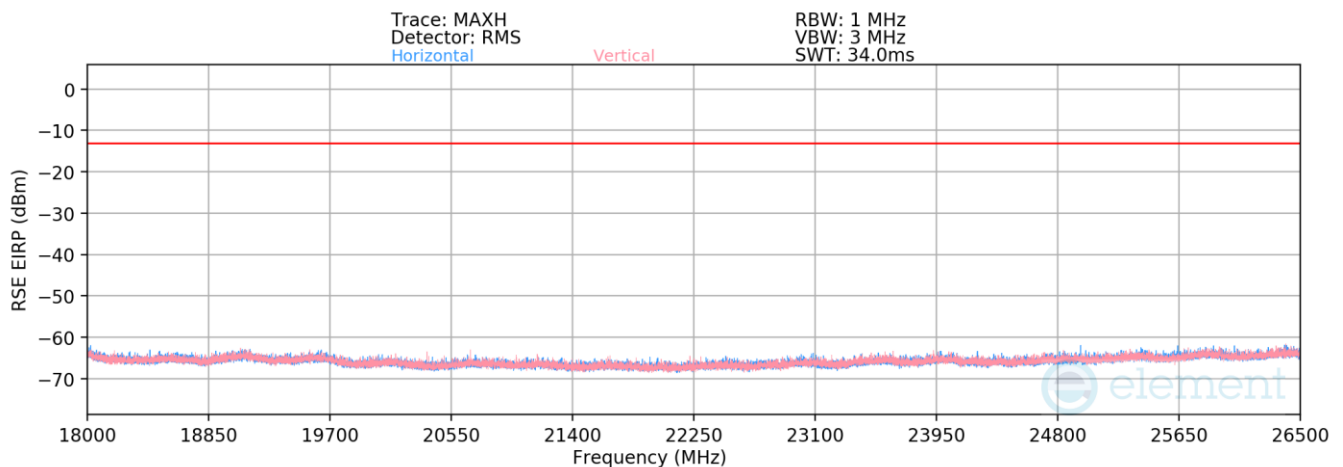
Band 23/252



Plot 7-3. Radiated Spurious Plot Below 1GHz (Band 23/252 – Low Channel)



Plot 7-4. Radiated Spurious Plot 1 - 18GHz (Band 23/252 – Low Channel)



Plot 7-5. Radiated Spurious Plot Above 18GHz (Band 23/252 – Low Channel)

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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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]
30.12	RMS	V	100	266	-71.73	-11.67	23.60	-74.16	-13.00	-61.16
46.02	RMS	H	300	97	-78.42	-7.79	20.79	-76.97	-13.00	-63.97
110.10	RMS	V	100	206	-77.80	-9.97	19.22	-78.53	-13.00	-65.53
206.95	RMS	H	100	222	-74.50	-9.24	23.26	-74.50	-13.00	-61.50
474.50	RMS	H	100	88	-84.21	-2.03	20.76	-77.00	-13.00	-64.00
989.44	RMS	V	300	221	-85.02	6.06	28.04	-69.72	-13.00	-56.72

Table 7-9. Radiated Spurious Data Below 1GHz (Band 23/252 – Low Channel)

Frequency (MHz):	2000.1
RB / Offset:	1/24

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]
4000.2	V	281	80	-79.02	5.59	33.57	-61.68	-13.00	-48.68
6000.3	V	102	345	-59.31	9.78	57.47	-37.79	-13.00	-24.79
8000.4	-	-	-	-81.61	10.97	36.36	-58.89	-13.00	-45.89
10000.5	-	-	-	-82.82	14.12	38.30	-56.96	-13.00	-43.96
12000.6	-	-	-	-84.06	18.80	41.74	-53.51	-13.00	-40.51

Table 7-10. Radiated Spurious Data (Band 23/252 – Low Channel)

Frequency (MHz):	2010.0
RB / Offset:	1/24

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]
4020.0	V	105	22	-78.75	5.74	33.99	-61.27	-13.00	-48.27
6030.0	V	212	343	-64.68	9.81	52.13	-43.13	-13.00	-30.13
8040.0	-	-	-	-81.59	11.08	36.49	-58.77	-13.00	-45.77
10050.0	-	-	-	-82.78	14.26	38.48	-56.78	-13.00	-43.78
12060.0	-	-	-	-84.15	18.57	41.42	-53.83	-13.00	-40.83

Table 7-11. Radiated Spurious Data (Band 23/252 – Mid Channel)

Frequency (MHz):	2019.9
RB / Offset:	1/24

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]
4039.8	V	316	14	-78.79	5.56	33.77	-61.49	-13.00	-48.49
6059.7	V	113	342	-60.94	9.85	55.91	-39.35	-13.00	-26.35
8079.6	-	-	-	-81.47	10.92	36.45	-58.81	-13.00	-45.81
10099.5	-	-	-	-82.79	14.33	38.54	-56.72	-13.00	-43.72
12119.4	-	-	-	-84.27	18.89	41.62	-53.64	-13.00	-40.64

Table 7-12. Radiated Spurious Data (Band 23/252 – High Channel)

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7.5 Radiated Spurious Emissions Measurements (1559 – 1610MHz)

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.

Per FCC Part 25.216:

(c) The e.i.r.p. density of emissions from mobile earth stations placed in service after July 21, 2002 with assigned uplink frequencies between 1610 MHz and 1660.5 MHz shall not exceed -70 dBW/MHz, averaged over any 2 millisecond active transmission interval, in the band 1559-1605 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed -80 dBW, averaged over any 2 millisecond active transmission interval, in the 1559-1605 MHz band

(h) Mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies in the 1626.5-1660.5 MHz band shall suppress the power density of emissions in the 1605-1610 MHz band-segment to an extent determined by linear interpolation from -70 dBW/MHz at 1605 MHz to -46 dBW/MHz at 1610 MHz, averaged over any 2 millisecond active transmission interval. The e.i.r.p of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed a level determined by linear interpolation from -80 dBW at 1605 MHz to -56 dBW at 1610 MHz, averaged over any 2 millisecond active transmission interval.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 1MHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1559 – 1610MHz
4. No. of sweep points = 1001
5. Detector = RMS
6. Trace mode = Average
7. The trace was allowed to stabilize

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Test Setup

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

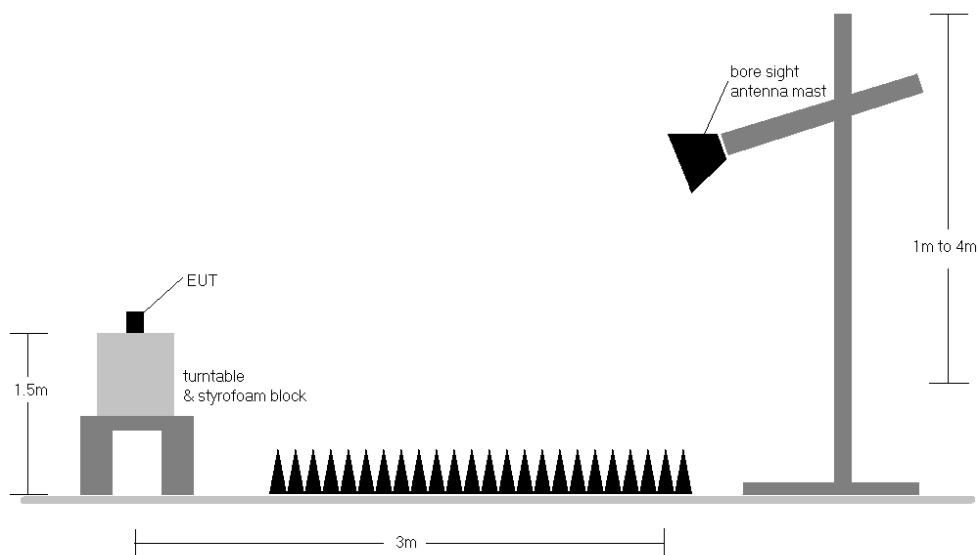


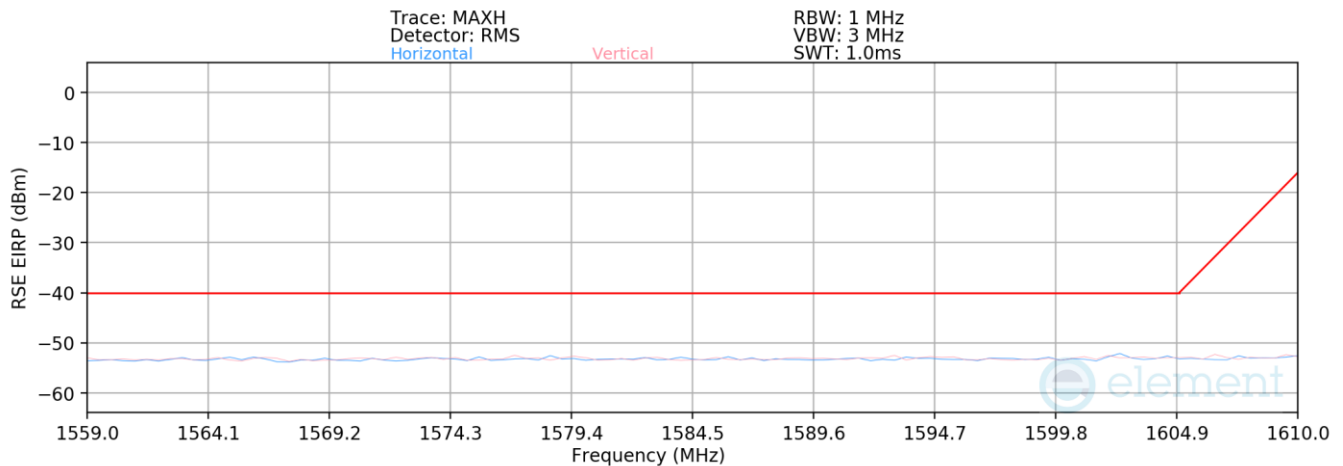
Figure 7-5. Test Instrument & Measurement Setup >1 GHz

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) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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Band 255 (1559 – 1610MHz)



Plot 7-6. Radiated Spurious Plot – Band 255 (1559 – 1610MHz)

Frequency (MHz):	1626.6
RB / Offset:	1/0

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]
1562.0	V	-	-	-77.84	9.18	38.34	-56.92	-40.00	-16.92
1581.0	V	-	-	-77.89	9.25	38.36	-56.90	-40.00	-16.90
1605.0	V	-	-	-77.95	9.29	38.34	-56.92	-40.00	-16.92

Table 7-13. Radiated Spurious Data – Band 255 – Low Channel

Frequency (MHz):	1643.5
RB / Offset:	1/0

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]
1566.0	V	-	-	-77.87	9.14	38.27	-56.99	-40.00	-16.99
1579.0	V	-	-	-77.59	9.19	38.60	-56.66	-40.00	-16.66
1601.0	V	-	-	-77.81	9.37	38.56	-56.70	-40.00	-16.70

Table 7-14. Radiated Spurious Data – Band 255 – Mid Channel

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Frequency (MHz):	1660.4
RB / Offset:	1/0

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]
1564.0	V	-	-	-77.73	9.13	38.40	-56.86	-40.00	-16.86
1584.0	V	-	-	-77.95	9.20	38.25	-57.01	-40.00	-17.01
1600.0	V	-	-	-77.90	9.38	38.48	-56.78	-40.00	-16.78

Table 7-15. Radiated Spurious Data – Band 255 – High Channel

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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7.6 Carrier-Off State Emissions Measurements (1559 – 1610MHz)

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.

Per FCC Part 25.216:

(i) The e.i.r.p density of carrier-off state emissions from mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies between 1 and 3 GHz shall not exceed -80 dBW/MHz in the 1559-1610 MHz band averaged over any two millisecond interval.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 1MHz
2. VBW $\geq$ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points = 1001
5. Detector = RMS
6. Trace mode = Average
7. The trace was allowed to stabilize

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Test Setup

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

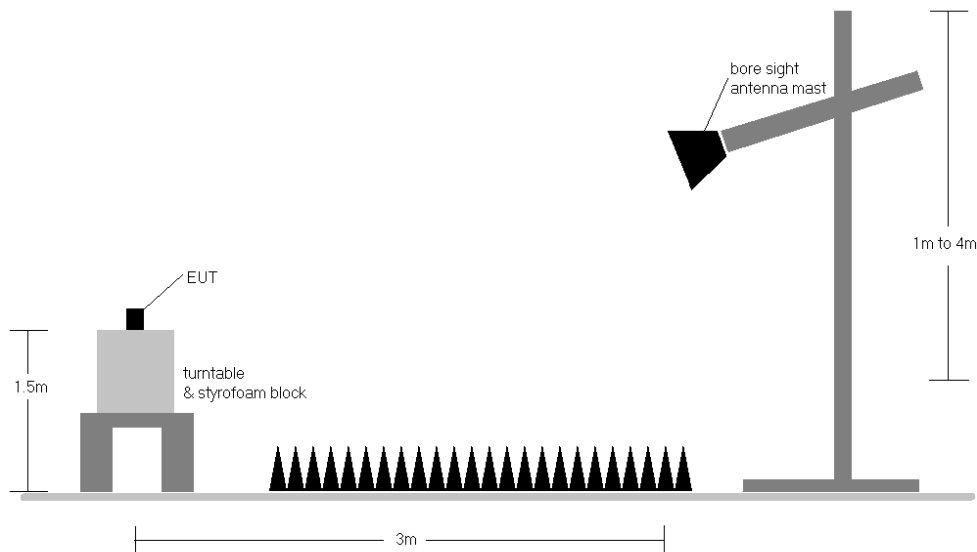


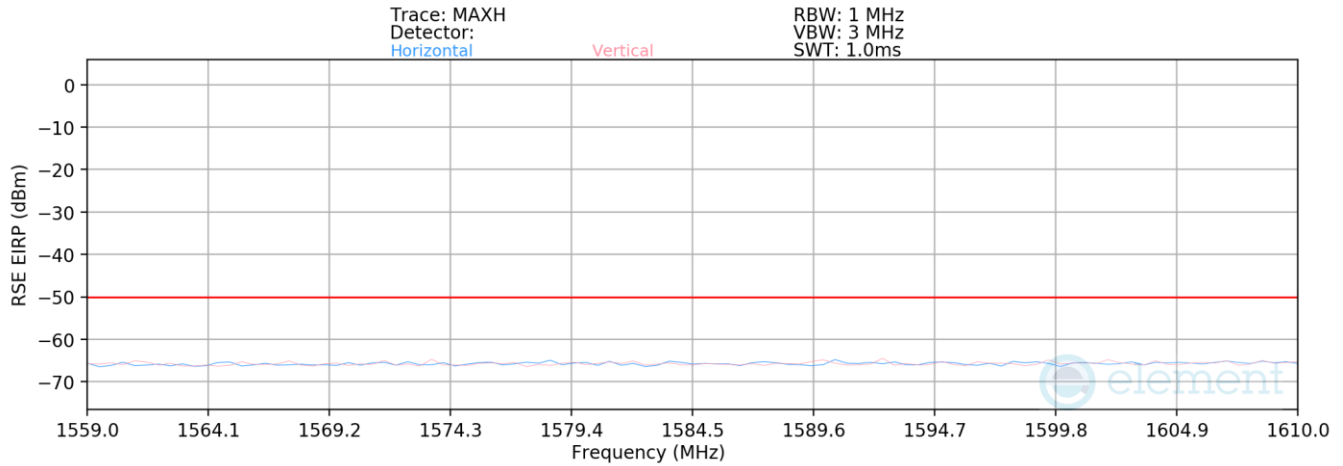
Figure 7-6. Test Instrument & Measurement Setup >1 GHz

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) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Band 255 (1559 – 1610MHz, Carrier Off)



Plot 7-7. Radiated Spurious Plot – Band 255 (1559 – 1610MHz, Carrier Off)

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]
1560.0	V	-	-	-78.02	9.16	38.14	-57.12	-50.00	-7.12
1581.0	V	-	-	-77.57	9.12	38.55	-56.71	-50.00	-6.71
1607.0	V	-	-	-77.70	9.29	38.59	-56.67	-50.00	-6.67

Table 7-16. Radiated Spurious Data – Band 255 – Low Channel, Carrier Off

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Garmin Portable Digital Transceiver FCC ID: IPH-05171** and **IC: 1792A-05171** complies with the requirements of Part 25 of the FCC rules and RSS-170 of the ISSED rules for operation in the 1626.5 – 1660.5MHz and 2000.1 - 2019.9MHz band.

FCC ID: IPH-05171 IC: 1792A-05171	PART 25 RSS-170 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 6/24/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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