



ELEMENT MATERIALS TECHNOLOGY

(Formerly PCTEST)

18855 Adams Court, Morgan Hill, CA 95037 USA

Tel. 408.538.5600

<http://www.element.com>

PART 27 | RSS-130 & RSS-139 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

2/18/2026 - 7/1/2026

Test Report Issue Date:

7/9/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2605260039-03.IPH

FCC ID:

IPH-05171

IC:

1792A-05171

APPLICANT:

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:

27

ISED Specification:

RSS-Gen Issue 5, RSS-130 Issue 2, RSS-139 Issue 4

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



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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	6/7/2026	WKR0000010305

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MEASUREMENT REPORT

FCC Part 27 | ISSED RSS-130 & RSS-139

Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	ERP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
LTE Band 12	1.4 MHz	QPSK	699.7 - 715.3	0.0039	5.94	1M10G7D
		16QAM	699.7 - 715.3	0.0031	4.90	955KW7D
	3 MHz	QPSK	700.5 - 714.5	0.0038	5.83	1M11G7D
		16QAM	700.5 - 714.5	0.0030	4.84	960KW7D
	5 MHz	QPSK	701.5 - 713.5	0.0037	5.64	1M11G7D
		16QAM	701.5 - 713.5	0.0037	5.63	964KW7D
	10 MHz	QPSK	704.0 - 711.0	0.0037	5.66	1M11G7D
		16QAM	704.0 - 711.0	0.0037	5.66	950KW7D

Overview Table (<1 GHz Band)

Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
LTE Band 4	1.4 MHz	QPSK	1710.7 - 1754.3	0.061	17.84	1M11G7D
		16QAM	1710.7 - 1754.3	0.049	16.86	950KW7D
	3 MHz	QPSK	1711.5 - 1753.5	0.061	17.85	1M11G7D
		16QAM	1711.5 - 1753.5	0.048	16.81	959KW7D
	5 MHz	QPSK	1712.5 - 1752.5	0.059	17.72	1M11G7D
		16QAM	1712.5 - 1752.5	0.062	17.93	943KW7D
	10MHz	QPSK	1715.0 - 1750.0	0.060	17.76	1M11G7D
		16QAM	1715.0 - 1750.0	0.059	17.72	956KW7D
	15 MHz	QPSK	1717.5 - 1747.5	0.062	17.89	1M11G7D
		16QAM	1717.5 - 1747.5	0.062	17.92	972KW7D
	20 MHz	QPSK	1720.0 - 1745.0	0.060	17.77	1M11G7D
		16QAM	1720.0 - 1745.0	0.059	17.72	955KW7D

Overview Table

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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 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 27, RSS-130 & RSS-139.

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	✓	x	x	✓	x
Config 2	✓	x	✓	x	x

Table 2-1. Simultaneous Transmission Configurations

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 B4	1710 -1755	-4.76
LTE Cat M1 B12	699 - 716	-14.80

Table 2-2. Antenna Peak Gain

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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, 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	2.00
Radiated Disturbance (<1GHz)	4.96
Radiated Disturbance (>1GHz)	5.18
Radiated Disturbance (>18GHz)	5.18

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
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 Calibration Table

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.

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6.0 SAMPLE EMISSION DESIGNATORS

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)	Test Limit	Test Result	Reference	Data Leveraged
CONDUCTED	Transmitter Conducted Output Power / Effective Radiated Power / Equivalent Isotropic Radiated Power	2.1046(a), 2.1046(c)	≤ 3 Watts max. ERP (LTE Band 4) ≤ 1 Watt max. ERP (LTE Band 12)	PASS	Section 7.2	No
	Occupied Bandwidth	2.1049(h)	N/A	PASS	Please see Note 5	Yes
	Conducted Band Edge / Spurious Emissions (LTE Band 12)	2.1051, 27.53(g)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Please see Note 5	Yes
	Conducted Band Edge / Spurious Emissions (LTE Band 4)	2.1051, 27.53(h)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Please see Note 5	Yes
	Peak-to-Average Ratio (LTE Band 4)	27.50(d)(5)	≤ 13 dB	PASS	Please see Note 5	Yes
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block	PASS	Please see Note 5	Yes
RADIATED	Radiated Spurious Emissions (LTE Band 12)	2.1053, 27.53(g)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Section 7.3	No
	Radiated Spurious Emissions (LTE Band 4)	2.1053, 27.53(h)(1)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Section 7.3	No

Table 7-1. Summary of Test Results - FCC

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Test Condition	Test Description	RSS Section(s)	Test Limit	Test Result	Reference	Data Leveraged
CONDUCTED	Transmitter Conducted Output Power / Effective Radiated Power / Equivalent Isotropic Radiated Power	RSS-Gen(6.12)	≤ 3 Watts max. ERP (LTE Band 4) ≤ 1 Watt max. ERP (LTE Band 12)	PASS	Section 7.2	No
	Occupied Bandwidth	RSS-Gen(6.7)	N/A	PASS	Please see Note 5	Yes
	Conducted Band Edge / Spurious Emissions (LTE Band 12)	RSS-Gen(6.13), RSS-130(4.7)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Please see Note 5	Yes
	Conducted Band Edge / Spurious Emissions (LTE Band 4)	RSS-Gen(6.13), RSS-139(6.6)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Please see Note 5	Yes
	Peak-to-Average Ratio (LTE Band 12)	RSS-130(4.6.1)	≤ 13 dB	PASS	Please see Note 5	Yes
	Peak-to-Average Ratio (LTE Band 4)	RSS-139(6.5)	≤ 13 dB	PASS	Please see Note 5	Yes
	Frequency Stability (LTE Band 12)	RSS-Gen(6.11), RSS-130(4.5)	Occupied bandwidth stays within the operating frequency block range	PASS	Please see Note 5	Yes
	Frequency Stability (LTE Band 4)	RSS-Gen(6.11), RSS-139(6.4)	Occupied bandwidth stays within the operating frequency block range	PASS	Please see Note 5	Yes
RADIATED	Radiated Spurious Emissions (LTE Band 12)	RSS-Gen(6.13), RSS-130(4.7)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Section 7.3	No
	Radiated Spurious Emissions (LTE Band 4)	RSS-Gen(6.13), RSS-139(6.6)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Section 7.3	No

Table 7-2. Summary of Test Results - ISSED

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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 shown in Section 7.0 were 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 v1.1.
- 5) This report is based on the original report (Report No. 77535RRF.003A1) 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 Data

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.

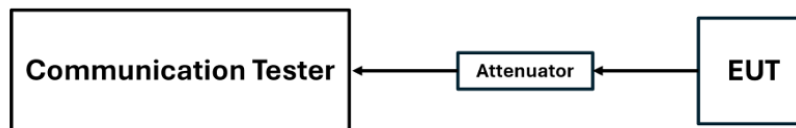


Figure 7-1. Test Instrument & Measurement Setup

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.

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	23017	699.7	1 / 3	22.63	-14.80	5.68	0.00370	34.77	-29.09
		23095	707.5	1 / 3	22.87	-14.80	5.92	0.00391	34.77	-28.85
		23173	715.3	1 / 3	22.89	-14.80	5.94	0.00393	34.77	-28.83
	16-QAM	23017	699.7	1 / 3	21.64	-14.80	4.69	0.00294	34.77	-30.08
		23095	707.5	1 / 3	21.85	-14.80	4.90	0.00309	34.77	-29.87
		23173	715.3	1 / 3	21.73	-14.80	4.78	0.00301	34.77	-29.99
3 MHz	QPSK	23025	700.5	1 / 3	22.52	-14.80	5.57	0.00361	34.77	-29.20
		23095	707.5	1 / 3	22.53	-14.80	5.58	0.00361	34.77	-29.19
		23165	714.5	1 / 3	22.78	-14.80	5.83	0.00383	34.77	-28.94
	16-QAM	23025	700.5	1 / 3	21.62	-14.80	4.67	0.00293	34.77	-30.10
		23095	707.5	1 / 3	21.58	-14.80	4.63	0.00290	34.77	-30.14
		23165	714.5	1 / 3	21.79	-14.80	4.84	0.00305	34.77	-29.93
5 MHz	QPSK	23035	701.5	1 / 3	22.58	-14.80	5.63	0.00366	34.77	-29.14
		23095	707.5	1 / 3	22.59	-14.80	5.64	0.00366	34.77	-29.13
		23155	713.5	1 / 3	22.55	-14.80	5.60	0.00363	34.77	-29.17
	16-QAM	23035	701.5	1 / 3	22.50	-14.80	5.55	0.00359	34.77	-29.22
		23095	707.5	1 / 3	22.58	-14.80	5.63	0.00366	34.77	-29.14
		23155	713.5	1 / 3	22.48	-14.80	5.53	0.00357	34.77	-29.24
10 MHz	QPSK	23060	704.0	1 / 3	22.58	-14.80	5.63	0.00366	34.77	-29.14
		23095	707.5	1 / 3	22.61	-14.80	5.66	0.00368	34.77	-29.11
		23130	711.0	1 / 3	22.51	-14.80	5.56	0.00360	34.77	-29.21
	16-QAM	23060	704.0	1 / 3	22.58	-14.80	5.63	0.00366	34.77	-29.14
		23095	707.5	1 / 3	22.61	-14.80	5.66	0.00368	34.77	-29.11
		23130	711.0	1 / 3	22.56	-14.80	5.61	0.00364	34.77	-29.16

Table 7-3. Max Conducted Power Test Results - LTE CAT-M1 Band 12

Bandwidth	Mod.	Frequency [MHz]	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	699.7	699.7	6 / 0	20.58	-14.80	3.63	0.002	34.77	-31.14
		707.5	707.5	6 / 0	20.55	-14.80	3.60	0.002	34.77	-31.17
		715.3	715.3	6 / 0	20.57	-14.80	3.62	0.002	34.77	-31.15
	16-QAM	699.7	699.7	6 / 0	20.62	-14.80	3.67	0.002	34.77	-31.10
		707.5	707.5	6 / 0	20.70	-14.80	3.75	0.002	34.77	-31.02
		715.3	715.3	6 / 0	20.60	-14.80	3.65	0.002	34.77	-31.12
3 MHz	QPSK	700.5	700.5	6 / 0	20.56	-14.80	3.61	0.002	34.77	-31.16
		707.5	707.5	6 / 0	20.58	-14.80	3.63	0.002	34.77	-31.14
		714.5	714.5	6 / 0	20.55	-14.80	3.60	0.002	34.77	-31.17
	16-QAM	700.5	700.5	6 / 0	20.62	-14.80	3.67	0.002	34.77	-31.10
		707.5	707.5	6 / 0	20.75	-14.80	3.80	0.002	34.77	-30.97
		714.5	714.5	6 / 0	20.64	-14.80	3.69	0.002	34.77	-31.08
5 MHz	QPSK	701.5	701.5	6 / 0	21.59	-14.80	4.64	0.003	34.77	-30.13
		707.5	707.5	6 / 0	21.58	-14.80	4.63	0.003	34.77	-30.14
		713.5	713.5	6 / 0	21.47	-14.80	4.52	0.003	34.77	-30.25
	16-QAM	701.5	701.5	6 / 0	20.53	-14.80	3.58	0.002	34.77	-31.19
		707.5	707.5	6 / 0	20.68	-14.80	3.73	0.002	34.77	-31.04
		713.5	713.5	6 / 0	20.55	-14.80	3.60	0.002	34.77	-31.17
10 MHz	QPSK	704.0	704.0	6 / 0	21.54	-14.80	4.59	0.003	34.77	-30.18
		707.5	707.5	6 / 0	21.53	-14.80	4.58	0.003	34.77	-30.19
		711.0	711.0	6 / 0	21.44	-14.80	4.49	0.003	34.77	-30.28
	16-QAM	704.0	704.0	6 / 0	21.86	-14.80	4.91	0.003	34.77	-29.86
		707.5	707.5	6 / 0	21.71	-14.80	4.76	0.003	34.77	-30.01
		711.0	711.0	6 / 0	21.52	-14.80	4.57	0.003	34.77	-30.20

Table 7-4. Max Conducted Power Test Results - LTE CAT-M1 Band 12 – Full RB Case

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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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]
1.4 MHz	QPSK	19957	1710.7	1 / 3	22.35	-4.76	17.59	0.057	30.00	-12.41
		20175	1732.5	1 / 3	22.33	-4.76	17.57	0.057	30.00	-12.43
		20393	1754.3	1 / 3	22.60	-4.76	17.84	0.061	30.00	-12.16
	16-QAM	19957	1710.7	1 / 3	21.33	-4.76	16.57	0.045	30.00	-13.43
		20175	1732.5	1 / 3	21.45	-4.76	16.69	0.047	30.00	-13.31
		20393	1754.3	1 / 3	21.62	-4.76	16.86	0.049	30.00	-13.14
3 MHz	QPSK	19965	1711.5	1 / 3	22.36	-4.76	17.60	0.058	30.00	-12.40
		20175	1732.5	1 / 3	22.31	-4.76	17.55	0.057	30.00	-12.45
		20385	1753.5	1 / 3	22.61	-4.76	17.85	0.061	30.00	-12.15
	16-QAM	19965	1711.5	1 / 3	21.39	-4.76	16.63	0.046	30.00	-13.37
		20175	1732.5	1 / 3	21.49	-4.76	16.73	0.047	30.00	-13.27
		20385	1753.5	1 / 3	21.57	-4.76	16.81	0.048	30.00	-13.19
5 MHz	QPSK	19975	1712.5	1 / 3	22.19	-4.76	17.43	0.055	30.00	-12.57
		20175	1732.5	1 / 3	22.34	-4.76	17.58	0.057	30.00	-12.42
		20375	1752.5	1 / 3	22.48	-4.76	17.72	0.059	30.00	-12.28
	16-QAM	19975	1712.5	1 / 3	22.23	-4.76	17.47	0.056	30.00	-12.53
		20175	1732.5	1 / 3	22.40	-4.76	17.64	0.058	30.00	-12.36
		20375	1752.5	1 / 3	22.69	-4.76	17.93	0.062	30.00	-12.07
10 MHz	QPSK	20000	1715.0	1 / 3	22.22	-4.76	17.46	0.056	30.00	-12.54
		20175	1732.5	1 / 3	22.31	-4.76	17.55	0.057	30.00	-12.45
		20350	1750.0	1 / 3	22.52	-4.76	17.76	0.060	30.00	-12.24
	16-QAM	20000	1715.0	1 / 3	22.27	-4.76	17.51	0.056	30.00	-12.49
		20175	1732.5	1 / 3	22.37	-4.76	17.61	0.058	30.00	-12.39
		20350	1750.0	1 / 3	22.48	-4.76	17.72	0.059	30.00	-12.28
15 MHz	QPSK	20025	1717.5	1 / 3	22.25	-4.76	17.49	0.056	30.00	-12.51
		20175	1732.5	1 / 3	22.37	-4.76	17.61	0.058	30.00	-12.39
		20325	1747.5	1 / 3	22.65	-4.76	17.89	0.062	30.00	-12.11
	16-QAM	20025	1717.5	1 / 3	22.11	-4.76	17.35	0.054	30.00	-12.65
		20175	1732.5	1 / 3	22.28	-4.76	17.52	0.056	30.00	-12.48
		20325	1747.5	1 / 3	22.34	-4.76	17.58	0.057	30.00	-12.42
20 MHz	QPSK	20050	1720.0	1 / 3	22.17	-4.76	17.41	0.055	30.00	-12.59
		20175	1732.5	1 / 3	22.53	-4.76	17.77	0.060	30.00	-12.23
		20300	1745.0	1 / 3	22.47	-4.76	17.71	0.059	30.00	-12.29
	16-QAM	20050	1720.0	1 / 3	22.23	-4.76	17.47	0.056	30.00	-12.53
		20175	1732.5	1 / 3	22.30	-4.76	17.54	0.057	30.00	-12.46
		20300	1745.0	1 / 3	22.34	-4.76	17.58	0.057	30.00	-12.42

Table 7-5. Max Conducted Power Test Results - LTE CAT-M1 Band 4

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	1710.7	6 / 0	20.22	-4.76	15.46	0.035	30.00	-14.54
		1732.5	1732.5	6 / 0	20.32	-4.76	15.56	0.036	30.00	-14.44
		1754.3	1754.3	6 / 0	20.41	-4.76	15.65	0.037	30.00	-14.35
	16-QAM	1710.7	1710.7	6 / 0	20.17	-4.76	15.41	0.035	30.00	-14.59
		1732.5	1732.5	6 / 0	20.50	-4.76	15.74	0.037	30.00	-14.26
		1754.3	1754.3	6 / 0	20.38	-4.76	15.62	0.036	30.00	-14.38
3 MHz	QPSK	1711.5	1711.5	6 / 0	20.17	-4.76	15.41	0.035	30.00	-14.59
		1732.5	1732.5	6 / 0	20.29	-4.76	15.53	0.036	30.00	-14.47
		1753.5	1753.5	6 / 0	20.44	-4.76	15.68	0.037	30.00	-14.32
	16-QAM	1711.5	1711.5	6 / 0	20.18	-4.76	15.42	0.035	30.00	-14.58
		1732.5	1732.5	6 / 0	20.53	-4.76	15.77	0.038	30.00	-14.23
		1753.5	1753.5	6 / 0	20.42	-4.76	15.66	0.037	30.00	-14.34
5 MHz	QPSK	1712.5	1712.5	6 / 0	21.19	-4.76	16.43	0.044	30.00	-13.57
		1732.5	1732.5	6 / 0	21.31	-4.76	16.55	0.045	30.00	-13.45
		1752.5	1752.5	6 / 0	21.39	-4.76	16.63	0.046	30.00	-13.37
	16-QAM	1712.5	1712.5	6 / 0	20.21	-4.76	15.45	0.035	30.00	-14.55
		1732.5	1732.5	6 / 0	20.48	-4.76	15.72	0.037	30.00	-14.28
		1752.5	1752.5	6 / 0	20.40	-4.76	15.64	0.037	30.00	-14.36
10 MHz	QPSK	1715.0	1715.0	6 / 0	21.16	-4.76	16.40	0.044	30.00	-13.60
		1732.5	1732.5	6 / 0	21.39	-4.76	16.63	0.046	30.00	-13.37
		1750.0	1750.0	6 / 0	21.37	-4.76	16.61	0.046	30.00	-13.39
	16-QAM	1715.0	1715.0	6 / 0	21.25	-4.76	16.49	0.045	30.00	-13.51
		1732.5	1732.5	6 / 0	21.37	-4.76	16.61	0.046	30.00	-13.39
		1750.0	1750.0	6 / 0	21.34	-4.76	16.58	0.045	30.00	-13.42
15 MHz	QPSK	1717.5	1717.5	6 / 0	22.21	-4.76	17.45	0.056	30.00	-12.55
		1732.5	1732.5	6 / 0	22.19	-4.76	17.43	0.055	30.00	-12.57
		1747.5	1747.5	6 / 0	22.32	-4.76	17.56	0.057	30.00	-12.44
	16-QAM	1717.5	1717.5	6 / 0	22.55	-4.76	17.79	0.060	30.00	-12.21
		1732.5	1732.5	6 / 0	22.68	-4.76	17.92	0.062	30.00	-12.08
		1747.5	1747.5	6 / 0	22.65	-4.76	17.89	0.062	30.00	-12.11
20 MHz	QPSK	1720.0	1720.0	6 / 0	22.15	-4.76	17.39	0.055	30.00	-12.61
		1732.5	1732.5	6 / 0	22.24	-4.76	17.48	0.056	30.00	-12.52
		1745.0	1745.0	6 / 0	22.19	-4.76	17.43	0.055	30.00	-12.57
	16-QAM	1720.0	1720.0	6 / 0	22.23	-4.76	17.47	0.056	30.00	-12.53
		1732.5	1732.5	6 / 0	22.41	-4.76	17.65	0.058	30.00	-12.35
		1745.0	1745.0	6 / 0	22.48	-4.76	17.72	0.059	30.00	-12.28

Table 7-6. Max Conducted Power Test Results - LTE CAT-M1 Band 4 – Full RB Case

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	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.

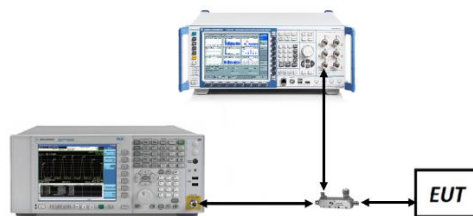


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

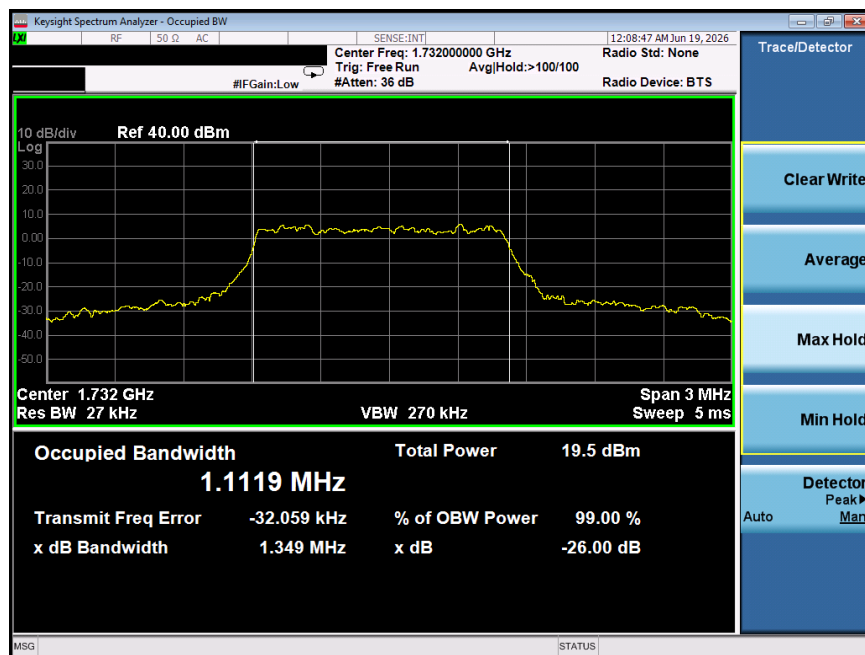
None.

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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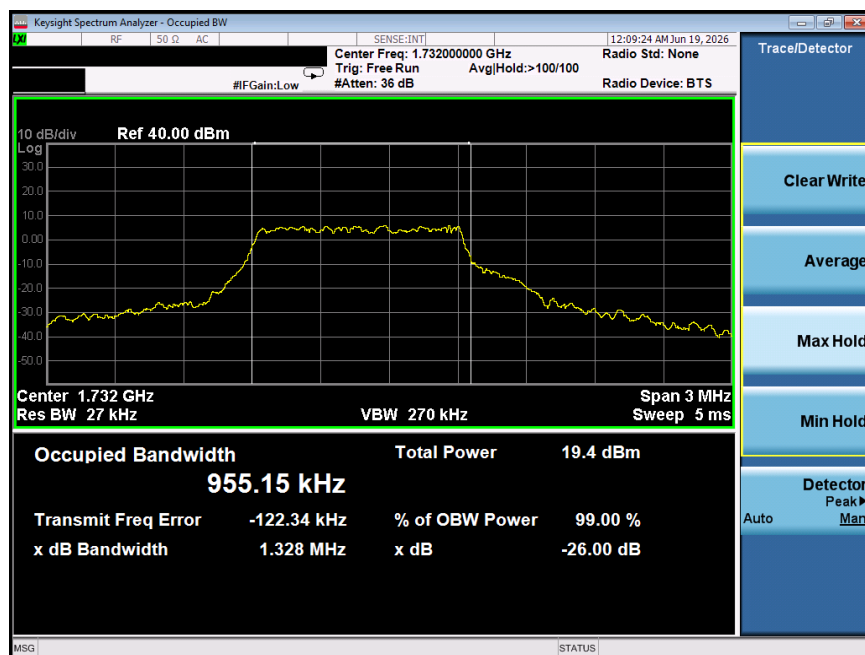
Mode	Bandwidth	Modulation	OBW [MHz]
Band 4	20 MHz	QPSK	1.112
		16QAM	0.955
	15 MHz	QPSK	1.115
		16QAM	0.972
	10 MHz	QPSK	1.109
		16QAM	0.956
	5MHz	QPSK	1.105
		16QAM	0.943
	3MHz	QPSK	1.110
		16QAM	0.959
	1.4 MHz	QPSK	1.105
		16QAM	0.950

Table 7-7. Occupied Bandwidth Results

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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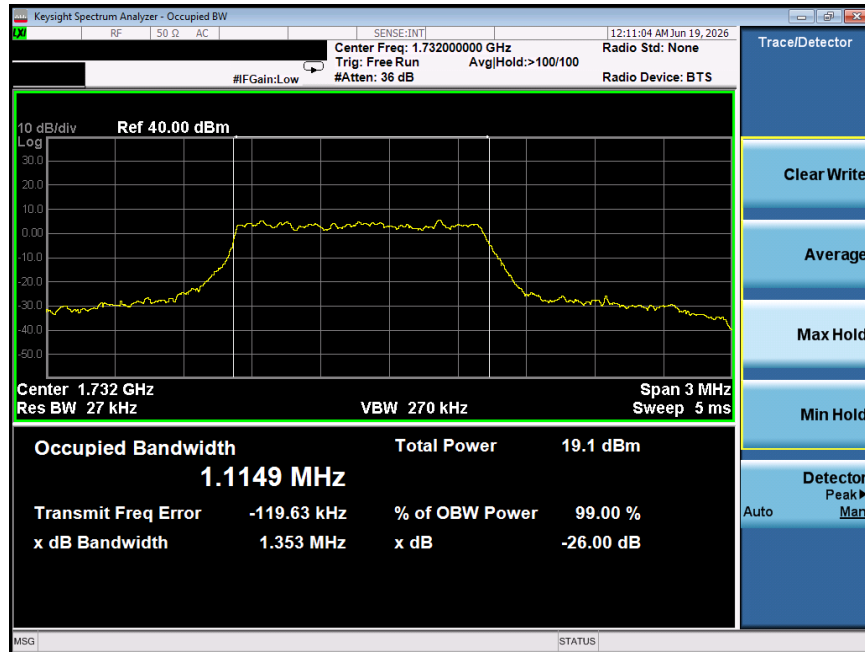


Plot 7-3. Occupied Bandwidth Plot (LTE Band 4 - 20MHz QPSK - Full RB)

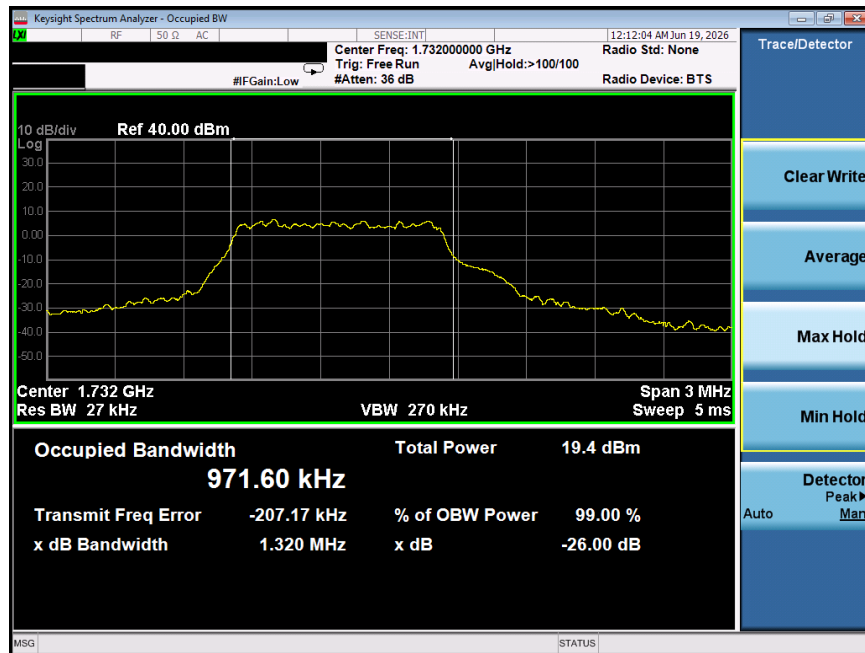


Plot 7-3. Occupied Bandwidth Plot (LTE Band 4 - 20MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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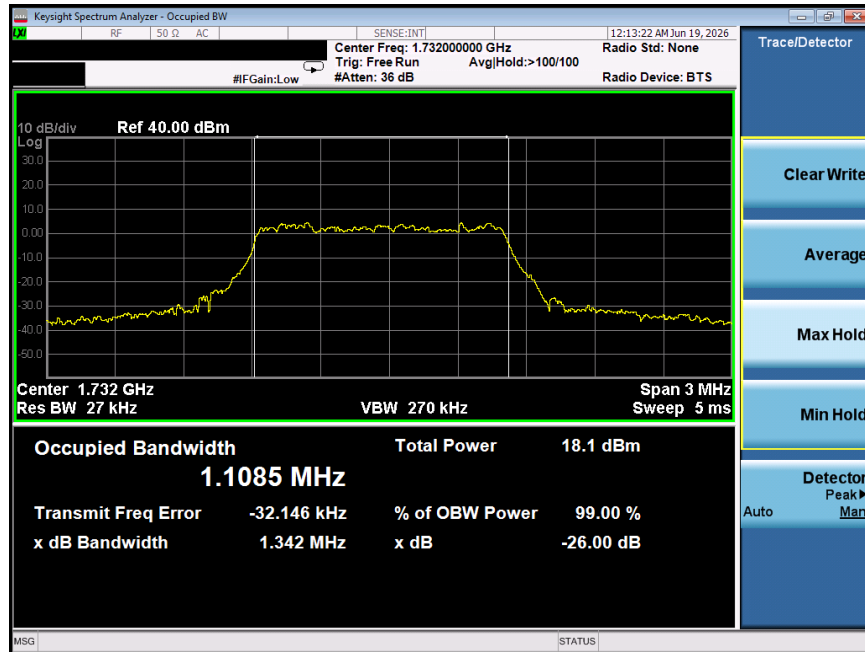


Plot 7-5. Occupied Bandwidth Plot (LTE Band 4 - 15MHz QPSK - Full RB)



Plot 7-6. Occupied Bandwidth Plot (LTE Band 4 - 15MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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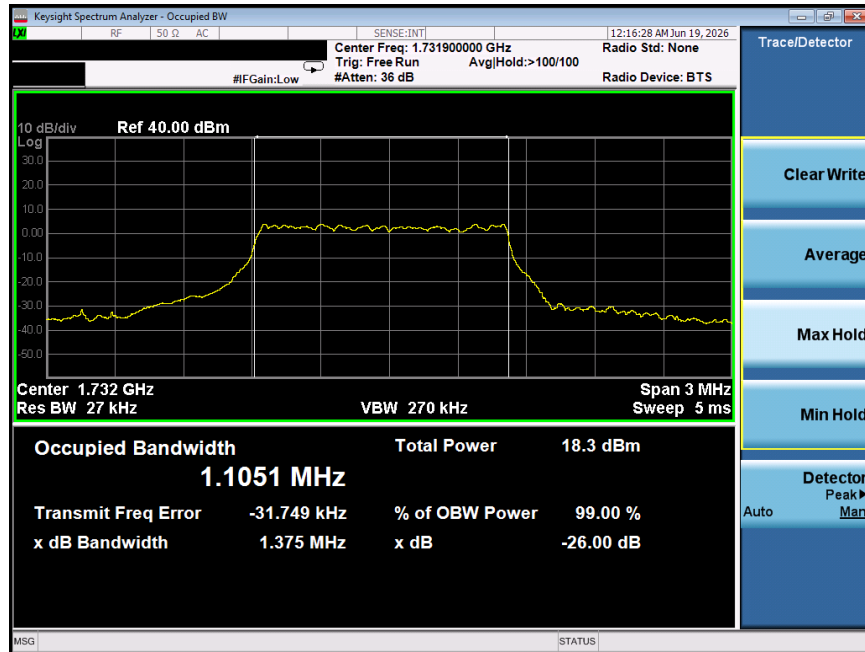


Plot 7-7. Occupied Bandwidth Plot (LTE Band 4 - 10MHz QPSK - Full RB)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 4 - 10MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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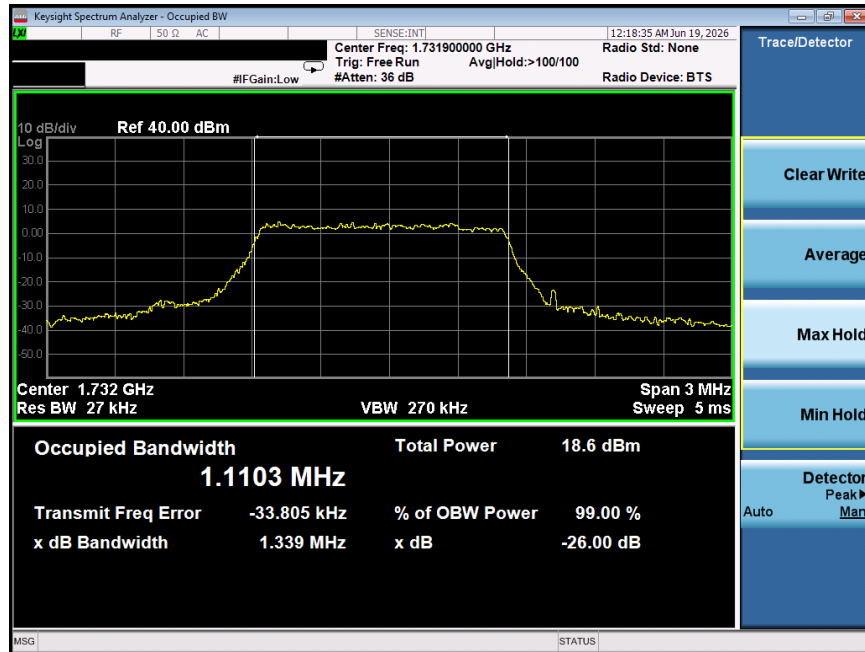


Plot 7-9. Occupied Bandwidth Plot (LTE Band 4 - 5MHz QPSK - Full RB)



Plot 7-10. Occupied Bandwidth Plot (LTE Band 4 - 5MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-03.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 42

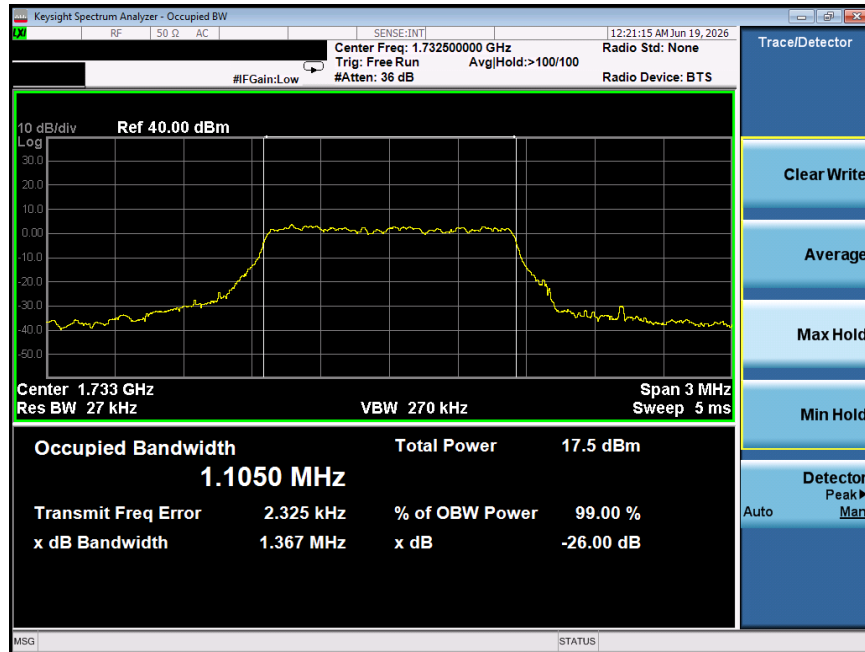


Plot 7-11. Occupied Bandwidth Plot (LTE Band 4 - 3MHz QPSK - Full RB)



Plot 7-12. Occupied Bandwidth Plot (LTE Band 4 - 3MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Plot 7-13. Occupied Bandwidth Plot (LTE Band 4 - 1.4MHz QPSK - Full RB)



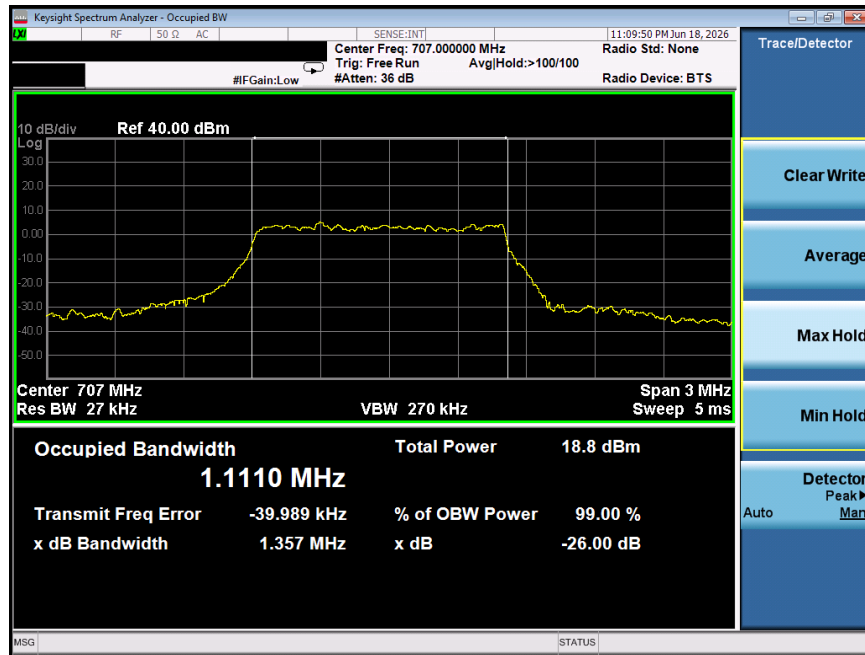
Plot 7-14. Occupied Bandwidth Plot (LTE Band 4 - 1.4MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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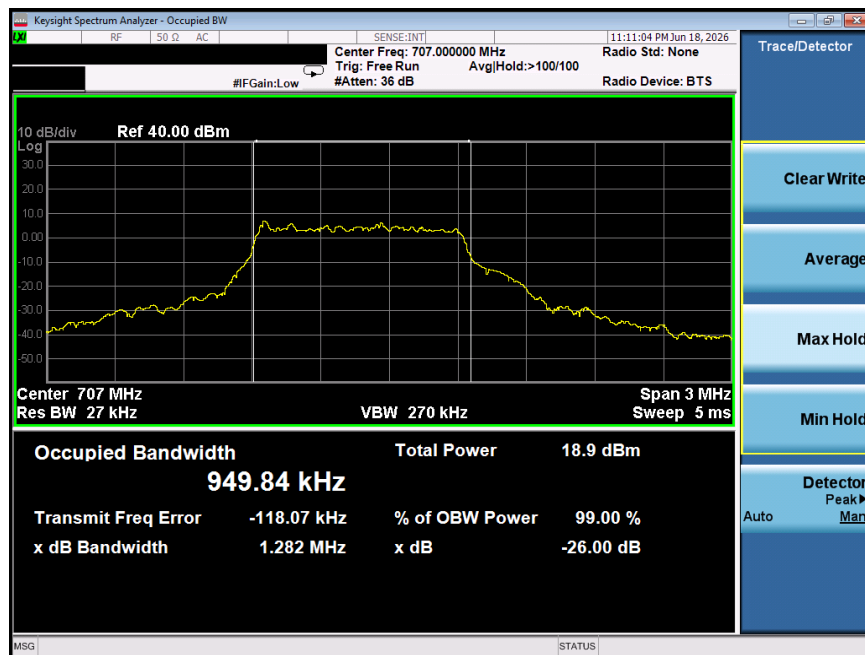
Mode	Bandwidth	Modulation	OBW [MHz]
Band 12	10 MHz	QPSK	1.111
		16QAM	0.950
	5MHz	QPSK	1.112
		16QAM	0.964
	3MHz	QPSK	1.107
		16QAM	0.960
	1.4 MHz	QPSK	1.104
		16QAM	0.955

Table 7-8. Occupied Bandwidth Results

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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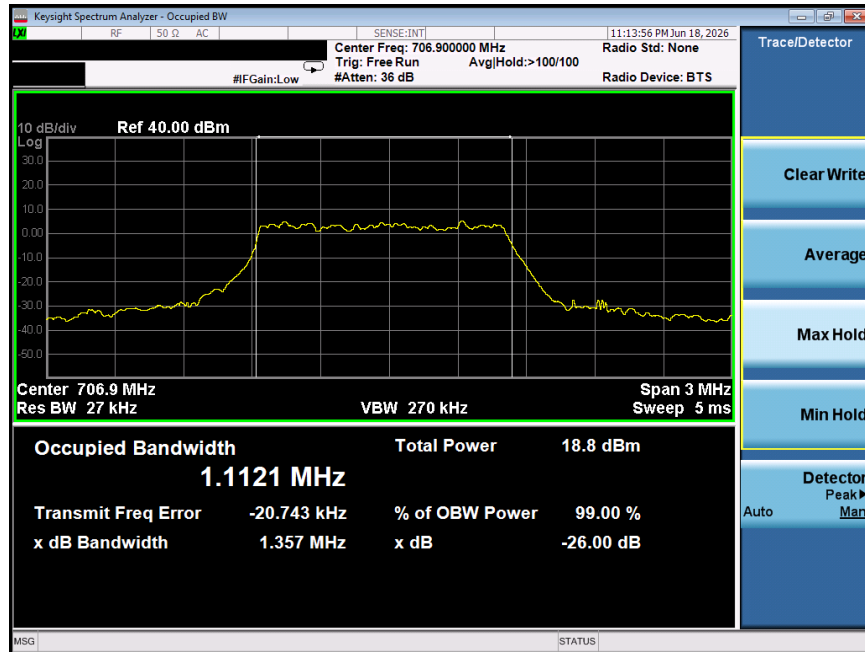


Plot 7-7. Occupied Bandwidth Plot (LTE Band 12 - 10MHz QPSK - Full RB)

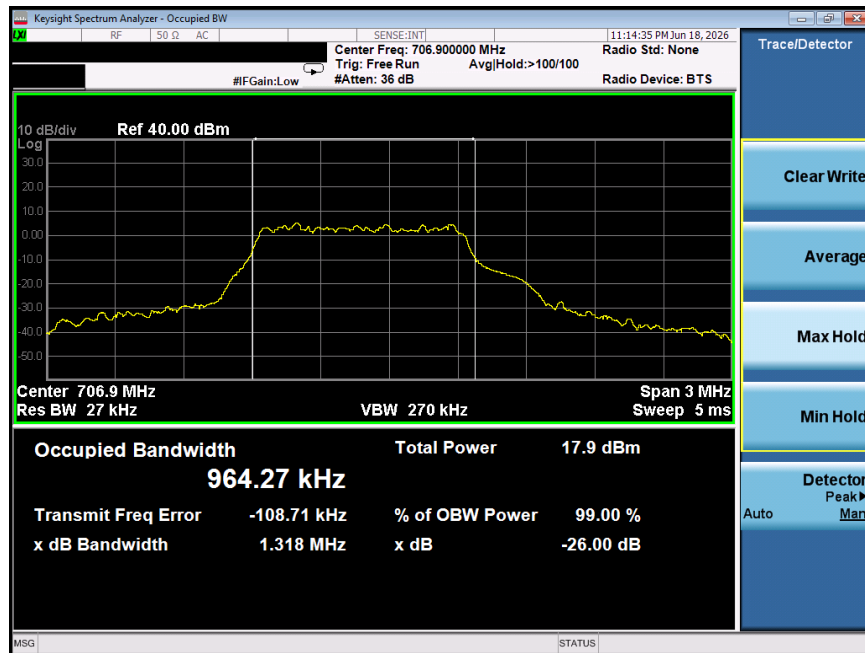


Plot 7-8. Occupied Bandwidth Plot (LTE Band 12 - 10MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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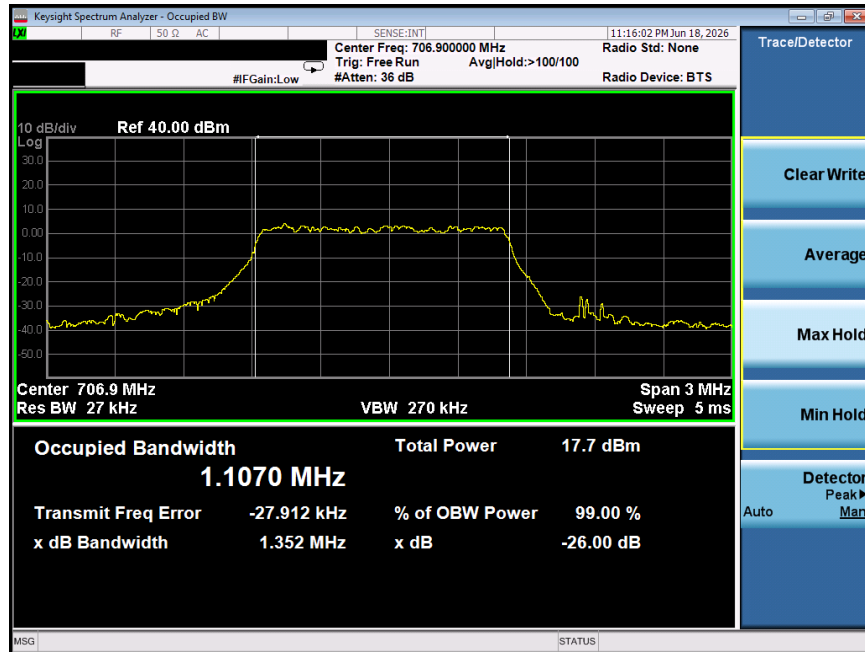


Plot 7-9. Occupied Bandwidth Plot (LTE Band 12 - 5MHz QPSK - Full RB)

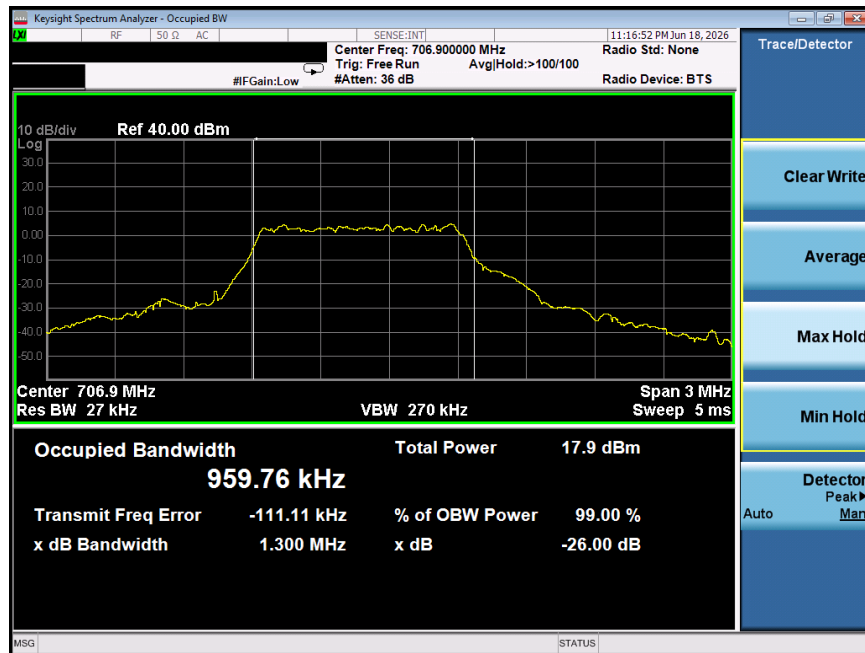


Plot 7-10. Occupied Bandwidth Plot (LTE Band 12 - 5MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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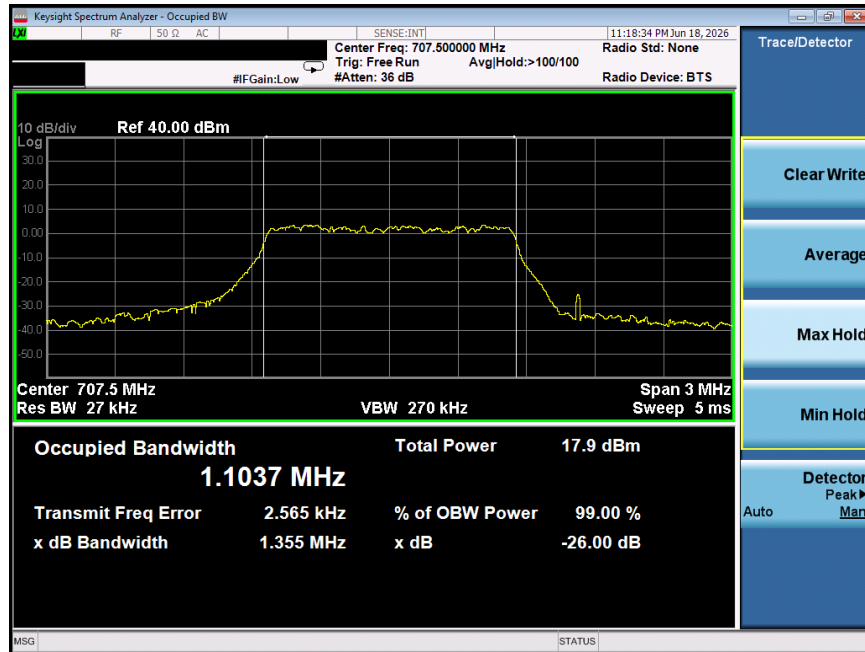


Plot 7-11. Occupied Bandwidth Plot (LTE Band 12 - 3MHz QPSK - Full RB)

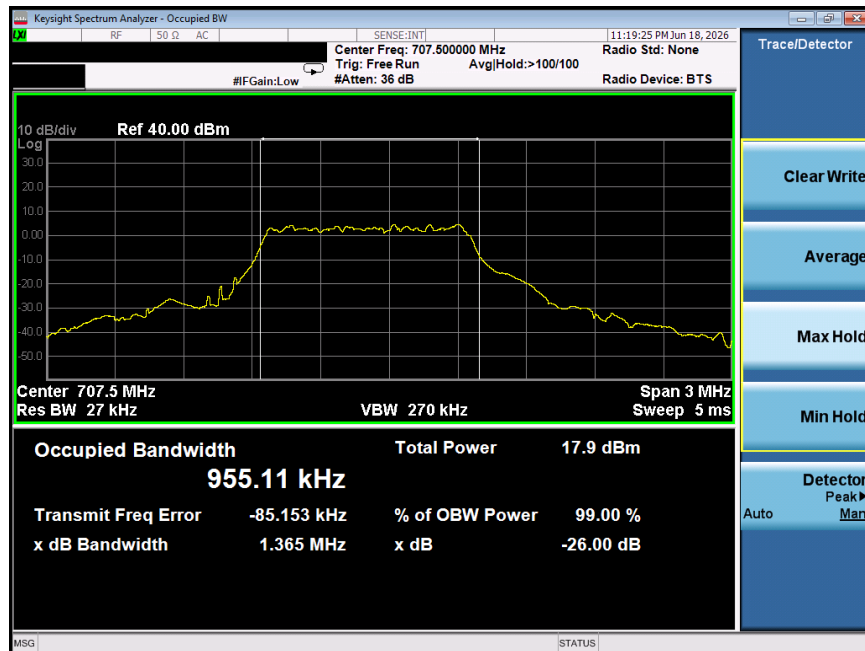


Plot 7-12. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Plot 7-13. Occupied Bandwidth Plot (LTE Band 12 - 1.4MHz QPSK - Full RB)



Plot 7-14. Occupied Bandwidth Plot (LTE Band 12 - 1.4MHz 16-QAM - Full RB)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	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.

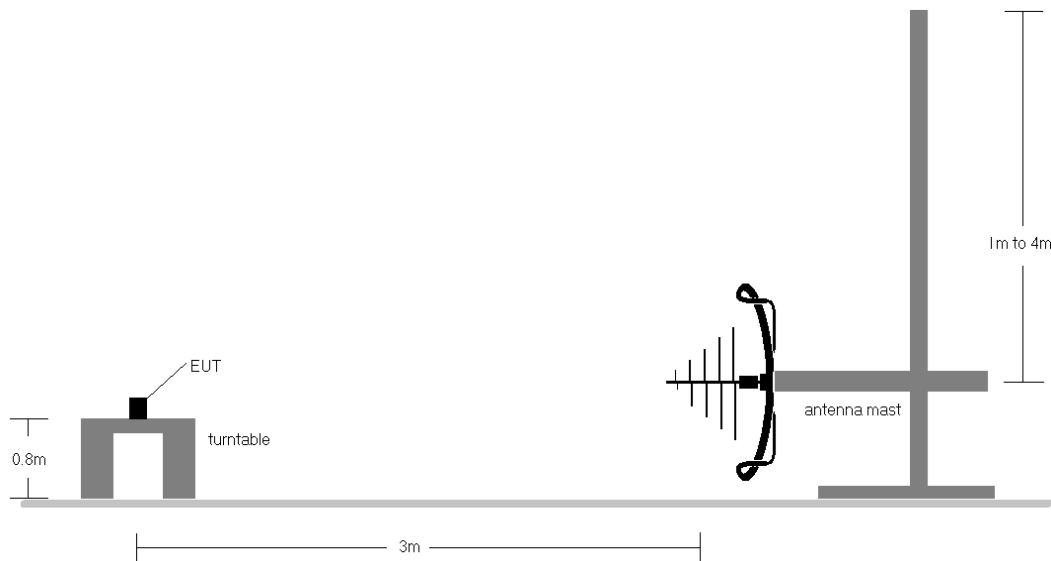


Figure 7-3. Test Instrument & Measurement Setup < 1GHz

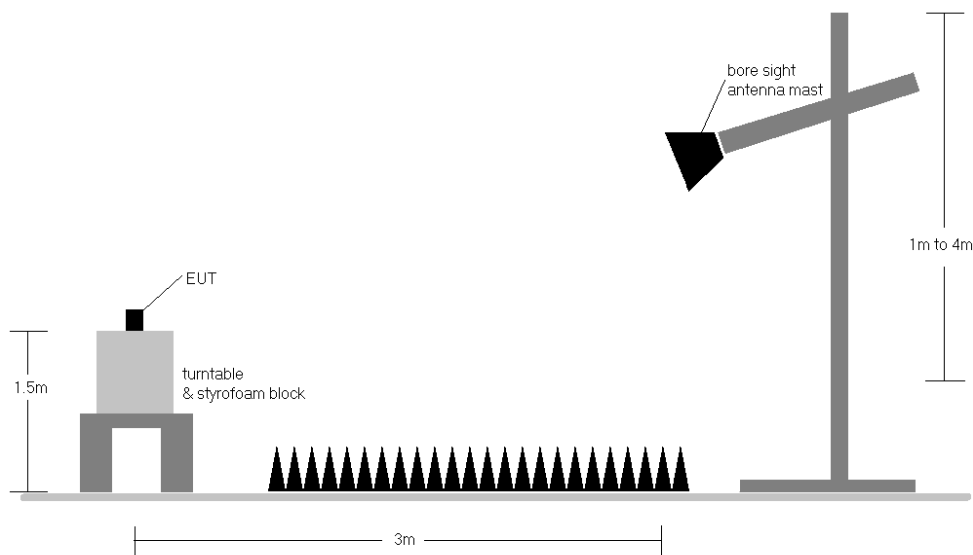


Figure 7-4. Test Instrument & Measurement Setup > 1GHz

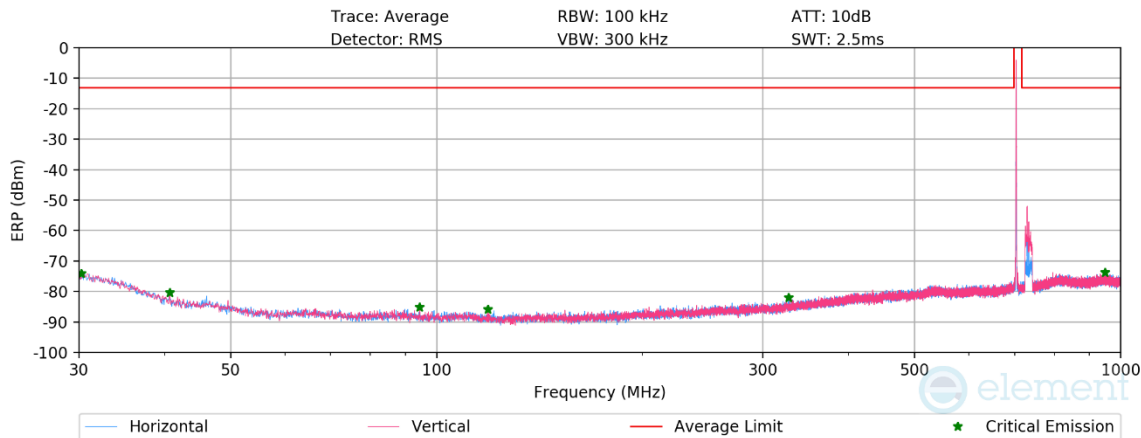
FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-03.IPH	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 33 of 42

Test Notes

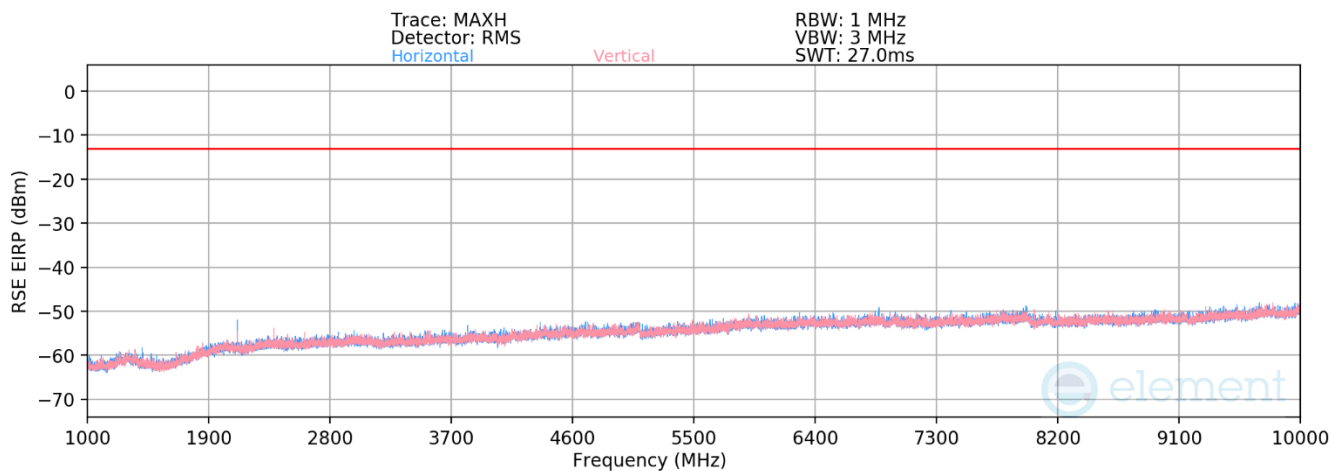
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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.
- 7) This device supports simultaneous transmission operation, which allows LTE or NTN band and BT or BLE or ANT to operate simultaneously. BLE or ANT case is not considered as worst case since the BLE and ANT power is lower than BT powers.

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-03.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 34 of 42

LTE CAT-M1 Band 12



Plot 7-1. Radiated Spurious Plot (LTE CAT-M1 Band 12 – Low Channel)



Plot 7-2. Radiated Spurious Plot (LTE CAT-M1 Band 12 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	704
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]
30.20	RMS	H	100	315	-83.29	-0.07	23.64	-74.12	-13.00	-61.12
40.70	RMS	V	100	56	-83.92	-5.71	17.37	-80.38	-13.00	-67.38
94.45	RMS	V	300	0	-85.65	-8.74	12.62	-85.14	-13.00	-72.14
118.80	RMS	V	300	216	-86.88	-8.21	11.91	-85.85	-13.00	-72.85
326.75	RMS	H	100	128	-90.07	-1.17	15.75	-82.00	-13.00	-69.00
948.15	RMS	H	200	138	-92.81	9.77	23.97	-73.79	-13.00	-60.79

Table 7-9. Radiated Spurious Data (LTE CAT-M1 Band 12 – Low Channel)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Bandwidth (MHz):	10
Frequency (MHz):	704
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]
1408.0	H	122	341	-70.13	-2.21	34.66	-60.60	-13.00	-47.60
2112.0	H	145	216	-70.72	1.66	37.94	-57.31	-13.00	-44.31
2816.0	-	-	-	-77.98	3.25	32.27	-62.99	-13.00	-49.99
3520.0	-	-	-	-78.42	4.61	33.19	-62.07	-13.00	-49.07
4224.0	-	-	-	-79.15	5.71	33.56	-61.69	-13.00	-48.69

Table 7-10. Radiated Spurious Data (LTE CAT-M1 Band 12 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
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]
1415.0	H	190	333	-70.73	-2.23	34.04	-61.22	-13.00	-48.22
2122.5	H	134	201	-70.78	1.68	37.90	-57.36	-13.00	-44.36
2830.0	-	-	-	-77.88	3.19	32.31	-62.94	-13.00	-49.94
3537.5	-	-	-	-78.31	4.69	33.38	-61.88	-13.00	-48.88
4245.0	-	-	-	-79.11	5.99	33.88	-61.38	-13.00	-48.38

Table 7-11. Radiated Spurious Data (LTE CAT-M1 Band 12 – Mid Channel)

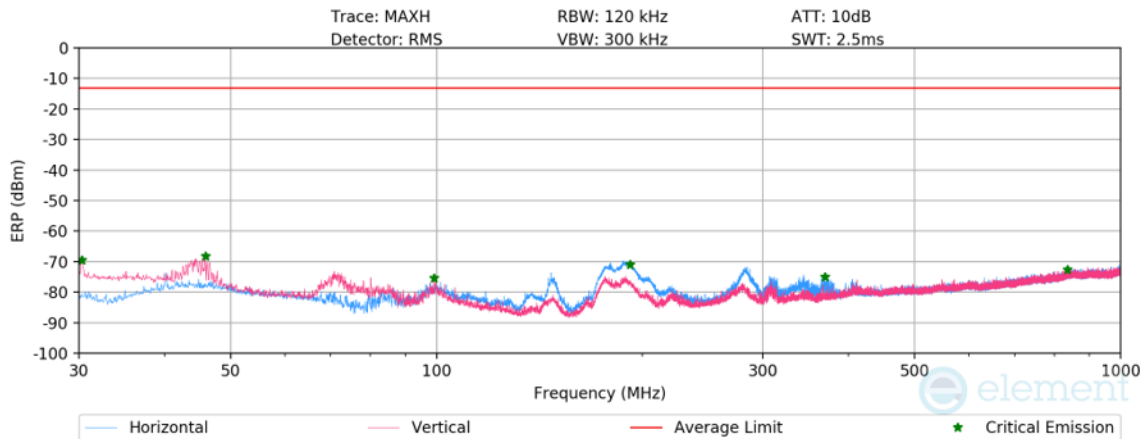
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 3

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]
1422.0	H	122	1	-70.08	-2.25	34.67	-60.58	-13.00	-47.58
2133.0	H	127	215	-71.21	1.55	37.34	-57.92	-13.00	-44.92
2844.0	-	-	-	-77.94	3.16	32.22	-63.04	-13.00	-50.04
3555.0	-	-	-	-78.70	4.65	32.95	-62.31	-13.00	-49.31
4266.0	-	-	-	-79.09	5.81	33.72	-61.54	-13.00	-48.54

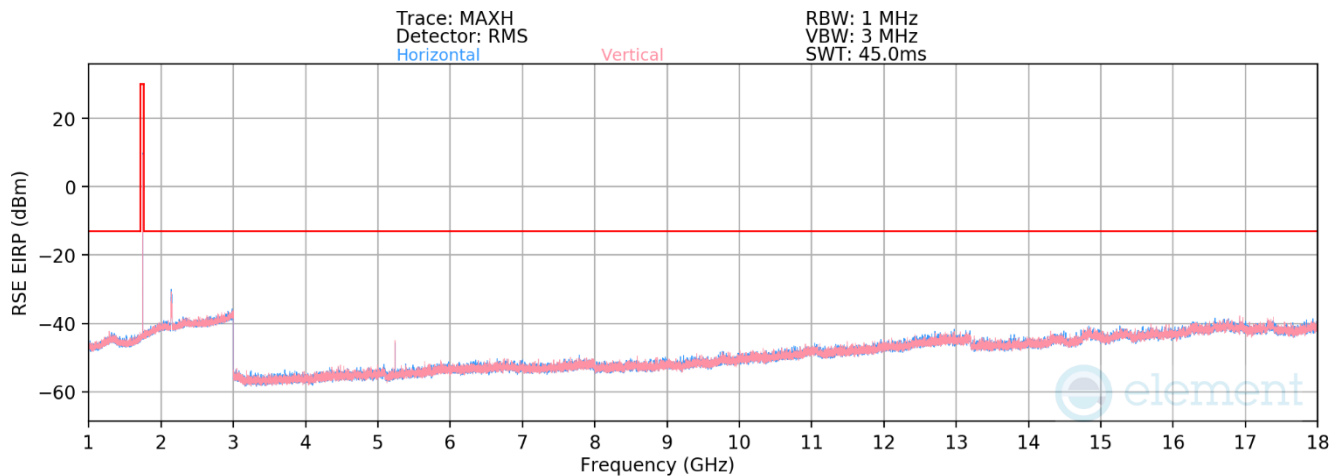
Table 7-12. Radiated Spurious Data (LTE CAT-M1 Band 12 – High Channel)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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LTE CAT-M1 Band 4



Plot 7-3. Radiated Spurious Plot (LTE CAT-M1 Band 4 – High Channel)



Plot 7-4. Radiated Spurious Plot (LTE CAT-M1 Band 4 – High Channel)

Bandwidth (MHz):		20								
Frequency (MHz):		1745								
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]
33.60	RMS	V	100	271	-72.39	-1.20	33.41	-64.34	-13.00	-51.34
114.54	RMS	H	300	313	-76.60	-8.31	22.10	-75.66	-13.00	-62.66
203.23	RMS	H	100	360	-73.58	-5.04	28.38	-69.38	-13.00	-56.38
328.51	RMS	H	100	323	-79.04	-1.07	26.89	-70.87	-13.00	-57.87
512.60	RMS	V	300	49	-83.12	3.89	27.77	-69.99	-13.00	-56.99
946.66	RMS	H	200	257	-84.37	9.84	32.46	-65.30	-13.00	-52.30

Table 7-13. Radiated Spurious Data (LTE CAT-M1 Band 4 – High Channel)- Below

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	1720
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	Limit [dBm]	Margin [dB]
3440.0	V	120	321	-74.55	4.67	37.12	-58.14	-13.00	-45.14
5160.0	V	110	33	-72.79	7.73	41.94	-53.32	-13.00	-40.32
6880.0	-	-	-	-81.16	11.08	36.92	-58.34	-13.00	-45.34
8600.0	-	-	-	-81.40	10.98	36.58	-58.67	-13.00	-45.67
10320.0	-	-	-	-83.43	14.78	38.35	-56.91	-13.00	-43.91

Table 7-14. Radiated Spurious Data (LTE CAT-M1 Band 4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1732.5
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	Limit [dBm]	Margin [dB]
3465.0	V	110	322	-76.10	4.68	35.58	-59.68	-13.00	-46.68
5197.5	V	118	46	-71.63	7.82	43.19	-52.06	-13.00	-39.06
6930.0	-	-	-	-81.50	10.79	36.29	-58.97	-13.00	-45.97
8662.5	-	-	-	-81.45	11.26	36.81	-58.45	-13.00	-45.45
10395.0	-	-	-	-83.31	14.76	38.45	-56.81	-13.00	-43.81

Table 7-15. Radiated Spurious Data (LTE CAT-M1 Band 4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745
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	Limit [dBm]	Margin [dB]
3490.0	V	113	319	-77.41	4.63	34.22	-61.03	-13.00	-48.03
5235.0	V	103	43	-70.00	8.14	45.14	-50.12	-13.00	-37.12
6980.0	-	-	-	-81.44	11.19	36.75	-58.51	-13.00	-45.51
8725.0	-	-	-	-81.86	11.43	36.57	-58.69	-13.00	-45.69
10470.0	-	-	-	-83.14	15.49	39.35	-55.91	-13.00	-42.91

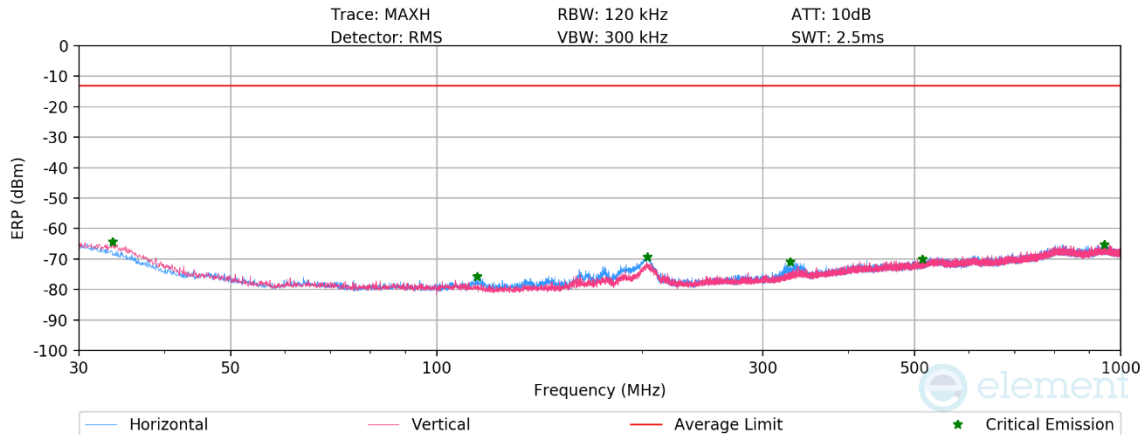
Table 7-16. Radiated Spurious Data (LTE CAT-M1 Band 4 – High Channel)

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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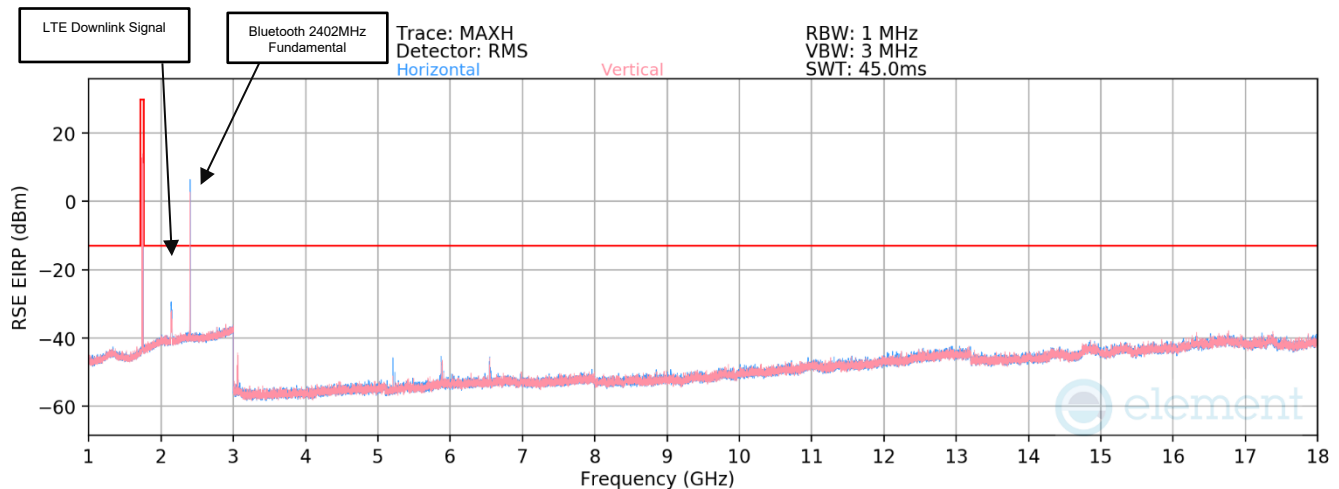
Simultaneous Tx Radiated Spurious Emissions Measurements

Description	LTE Band 4	Bluetooth
Antenna	Antenna 1	Antenna 1
Channel	20300	0
Operating Frequency (MHz)	1745	2402
Mode/Modulation	QPSK/1RB/20MHz	BDR

Table 7-17. Worst Case Simultaneous Transmission Configuration

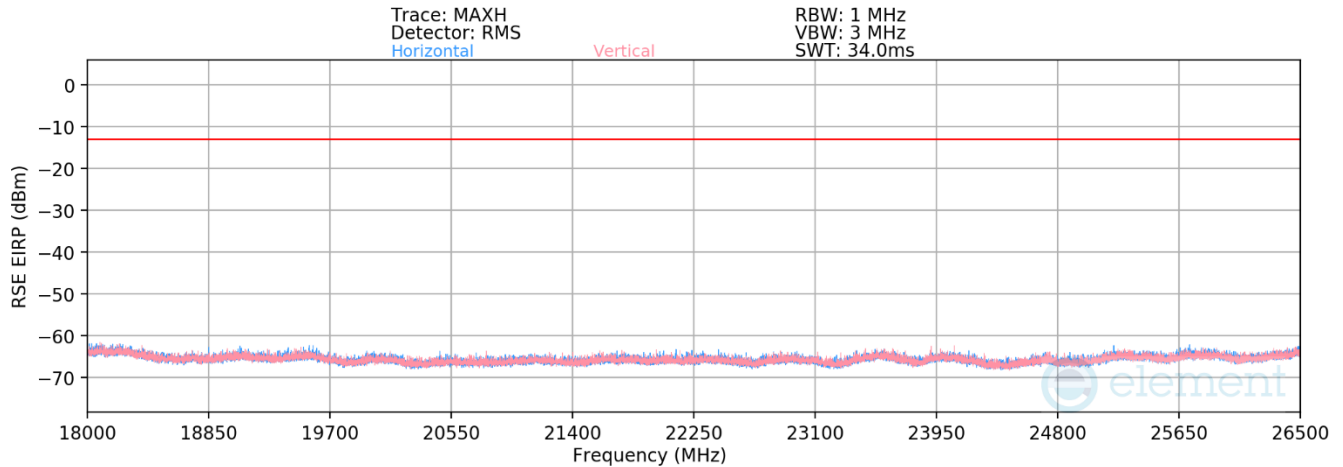


Plot 7-5. Radiated Spurious Plot Below 1GHz LTE CAT-M1 Band 4 + Bluetooth



Plot 7-6. Radiated Spurious Plot 1-18GHz LTE CAT-M1 Band 4 + Bluetooth

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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Plot 7-7. Radiated Spurious Plot 18-26GHz LTE CAT-M1 Band 4 + Bluetooth

Frequency [MHz]	Detector	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Dist. Corr. Factor	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4804.00	Avg	-	-	-80.43	7.13	0.00	33.70	53.98	-20.28
4804.00	Peak	-	-	-69.06	7.13	0.00	45.07	73.98	-28.91
12010.00	Avg	-	-	-84.64	18.40	0.00	40.76	53.98	-13.22
12010.00	Peak	-	-	-72.94	18.40	0.00	52.46	73.98	-21.52
19216.00	Avg	-	-	-62.48	-6.07	-9.54	28.91	53.98	-25.07
19216.00	Peak	-	-	-51.19	-6.07	-9.54	40.20	73.98	-33.77

Table 7-18. Bluetooth Emissions Measurements – Simultaneous Transmission

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
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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]	Margin [dB]
3490.0	-	-	-	-78.34	4.63	33.29	-61.96	-48.96
5235.0	H	239	21	-75.82	8.14	39.32	-55.94	-42.94
6980.0	-	-	-	-81.57	11.19	36.62	-58.64	-45.64
8725.0	-	-	-	-81.37	11.43	37.06	-58.20	-45.20
10470.0	-	-	-	-83.28	15.49	39.21	-56.05	-43.05
12215.0	-	-	-	-84.32	18.30	40.98	-54.28	-41.28
13960.0	-	-	-	-84.01	19.86	42.85	-52.41	-39.41

Table 7-19. LTE CAT-M1 Band 4 Radiated Measurements – Simultaneous Transmission

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]	Margin [dB]
1088.00	H	149	11	-71.27	8.19	43.92	-51.34	-38.34
3059.00	H	105	202	-64.69	5.22	47.53	-47.73	-34.73
3716.00	-	-	-	-78.71	5.52	33.81	-61.45	-48.45
4373.00	-	-	-	-79.36	6.35	33.99	-61.27	-48.27
5030.00	-	-	-	-80.09	7.42	34.33	-60.92	-47.92

Table 7-20. Intermodulation Emissions Measurements in Simultaneous Transmission Mode

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	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 all the requirements of Part 27 of the FCC rules and RSS-130, RSS-139 of the ISED rules.

FCC ID: IPH-05171 IC: 1792A-05171	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT	Test Dates: 2/18/2026 - 7/1/2026	EUT Type: Portable Digital Transceiver	Approved by: Technical Manager
Test Report S/N: 1C2605260039-03.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 42 of 42