

TEST REPORT

Report Number: 16025792-E2V2

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

Model : A05116

Brand : Garmin

FCC ID : IPH-05116

IC : 1792A-05116

EUT Description : Portable Digital Transceiver

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 ISSUE 4
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
2026-01-09

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2026-01-07	Initial Issue	---
V2	2026-01-09	Updated Section 6.1	Tina Chu

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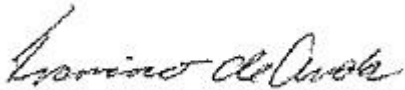
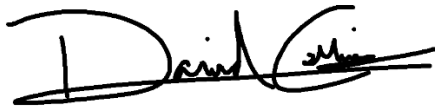
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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	Garmin International Inc. 1200 East 151 st Street Olathe, KS 66062-3426, USA
Model	A05116
Brand	Garmin
FCC ID	IPH-05116
IC	1792A-05116
EUT Description	Portable Digital Transceiver
Serial Number	3522388213 (Radiated); 3522388124 (Conducted)
Sample Receipt Date	2025-10-17
Date Tested	2025-10-17 to 2025-12-04
Applicable Standards	FCC 47 CFR Part 15 Subpart C ISED RSS-247 Issue 4 ISED RSS-GEN Issue 5 + A1 + A2
Test Results	COMPLIES
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to ensure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc., and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.	
Approved & Released By:	Prepared & Reviewed By:
	
Francisco de Anda Staff Engineer UL Verification Services, Inc.	David Collins Senior Test Engineer UL Verification Services, Inc.

2. TEST RESULTS SUMMARY

This report contains data provided by the customer, which can impact the validity of the results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.3)
2. Cable loss (see section 6.3)

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result
Duty Cycle	-	-	Reporting purposes only
99% OBW	-	RSS-GEN 6.7	Complies
6dB BW	15.247 (a) (2)	RSS-247 6.3.1 (a)	Complies
Output Power	15.247 (b) (3)	RSS-247 6.3.2	Complies
PSD	15.247 (e)	RSS-247 6.3.1 (b)	Complies
Conducted Spurious Emissions	15.247 (d)	RSS-247 6.6	Complies
Radiated Emissions	15.209, 15.205	RSS-GEN 8.9, 8.10	Complies
AC Mains Conducted Emissions	15.207	RSS-Gen 8.8	Not applicable. EUT is powered by battery/DC power supply

3. TEST METHODOLOGY

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

- ANSI C63.10-2020 (FCC)
- ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+ Errata to C63.10a-2024 (ISED)
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15C
- KDB 558074 D01 15.247 Meas Guidance
- KDB 414788 D01 Radiated Test Site
- RSS-GEN Issue 5 + A1 + A2
- RSS-247 Issue 4

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538 USA			
☐	Building 4: 47658 Kato Rd, Fremont, CA 94538 USA			
☐	Building 5: 47670 Kato Rd, Fremont, CA 94538 USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

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

5.2. DECISION RULES

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

5.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U _{LAB}
Conducted Antenna Port Emission Measurement	1.94 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using a Power Meter	0.45 dB (Ave), 1.30 dB Peak)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22 %
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB

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

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

36.5 dBuV + 0 dB + 10.1 dB + 0 dB = 46.6 dBuV

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a Portable Digital Transceiver.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted peak output power as follows:

BLE Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2402 - 2480	1Mbps	5.19	3.30
2402 - 2480	2Mbps	5.04	3.19

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

The antenna(s) gain and type, as provided by the manufacturer, are as follows:

The radio utilizes a PIFA antenna with a maximum gain of 1.40 dBi and 0.71 dB cable loss.

The cables were used for RF antenna port tests that had been offset to the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware and software installed during testing were versions 0.74 and 1.24.

6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz, above 18GHz were performed with the EUT set to transmit at the channel with the highest output power as a worst-case scenario.

Band edge and radiated emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle, and high channels.

EUT was investigated in three orthogonal orientations: X (Flatbed), Y (Landscape), and Z (Portrait). The Z (Portrait) is the worst-case orientation. The full tests of the EUT have been made upon Z (Portrait) orientation. After investigation, the worst configuration set for all radiated tests is EUT powered by an internal battery, and the USB-C port is terminated by a laptop via USB cable.

Data rates provided by the client were:

BLE mode: 1Mbps

BLE mode: 2Mbps

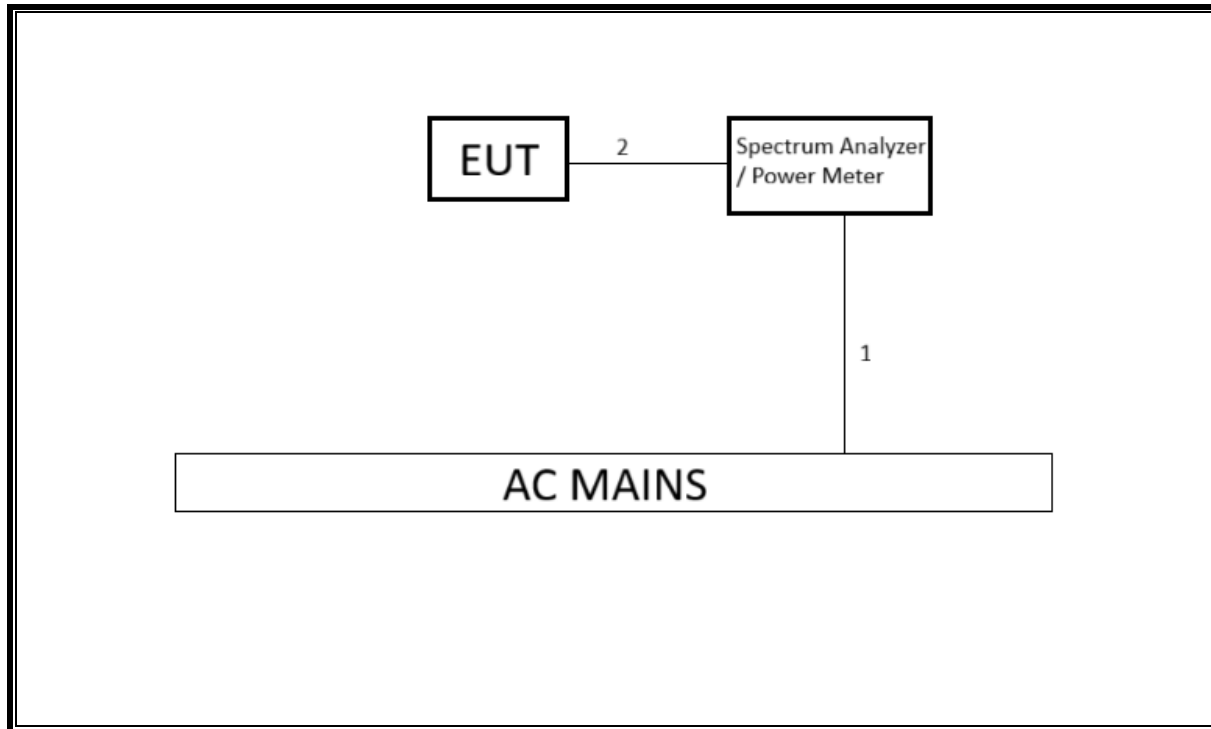
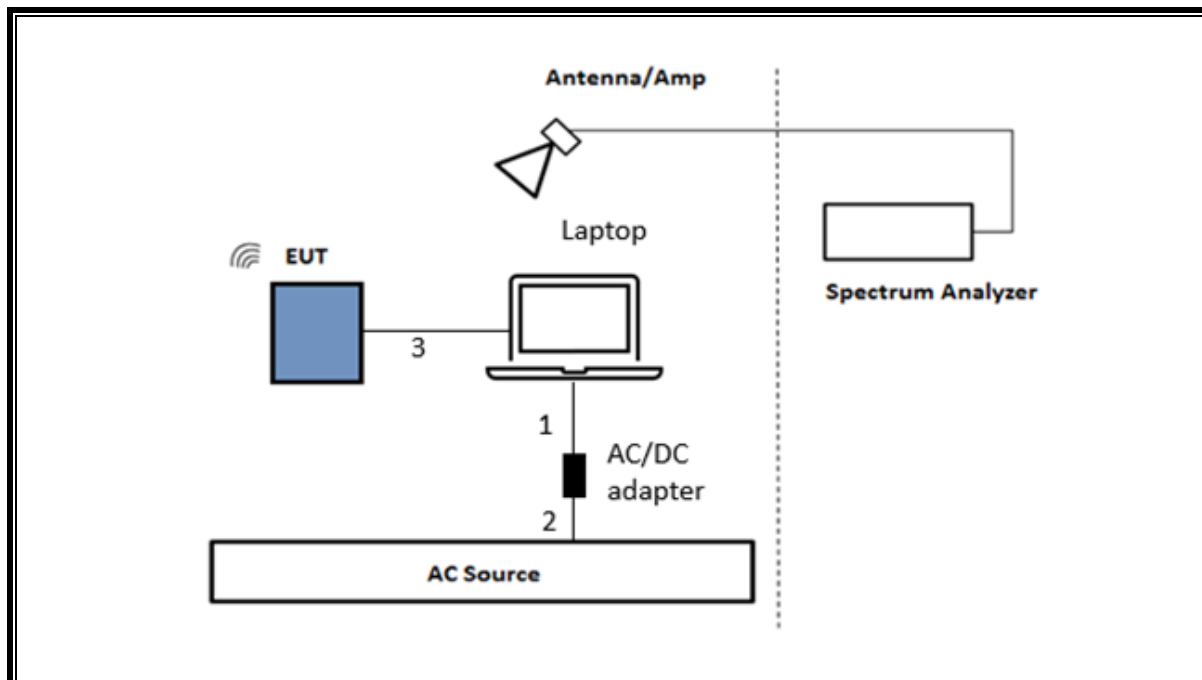
Plots included in the report are representative of the method and settings parameters used for the test.

6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Lenovo	T14	PF4BYGWJ		DOC
Laptop AC/DC adapter		Lenovo	ADLX65YLC2A	8SSA10M13948L1CZ8CJ0EA6		DOC
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	3-prongs	Un-Shielded	1.8	AC Mains to Analyzer/Power Meter
2	Antenna	1	SMA	Shielded	0.1	Analyzer/Power Meter to EUT
I/O CABLES (RF RADIATED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	DC	Unshielded	1.8	AC/DC Adapter to Laptop
2	AC	1	2-prongs	Unshielded	1.8	AC Mains to AC/DC Adapter
3	USB	1	USB-C	Shielded	1	Laptop to EUT

TEST SETUP

The EUT setup is shown below. Test software exercised the radio card.

SETUP DIAGRAM FOR CONDUCTED TESTS**SETUP DIAGRAM FOR RADIATED TESTS**

7. MEASUREMENT METHOD

Test Item	Test Method
On Time and Duty Cycle	ANSI C63.10 Section 11.6
6 dB BW	ANSI C63.10 Subclause -11.8.1 RBW $\geq$ DTS BW
99% BW	ANSI C63.10, Subclause 6.9.3.
Conducted Output Power	ANSI C63.10 Subclause -11.9.2.3.2 Method AVGPM G (Measurement using an RF average-reading power meter), 11.9.1.2 Method PKPM1 Peak-reading power meter
Power Spectral Density	ANSI C63.10 Subclause -11.10.2 Method PKPSD (peak PSD)
Radiated emissions non-restricted frequency bands	ANSI C63.10 Subclause -11.11
Radiated emissions restricted frequency bands	ANSI C63.10 Subclause -11.12.1
Conducted emissions in restricted frequency bands	ANSI C63.10 Subclause -11.12.2
Band-edge	ANSI C63.10 Subclause -11.12.2.4: Peak Measurement
Band-edge	ANSI C63.10 Subclause -11.12.2.5: Average Measurement
Radiated Spurious Emissions Below 30MHz	ANSI C63.10 Subclause 6.4

8. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	206808	2027-04-30
RF Filter Box, 1-18GHz	UL-FR1	RATS 1.0, 2 Amp, 8 Port	197920	2026-03-31
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	81140	2027-05-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	UL-FR1	AMP18G26.5-60	215705	2026-10-31
EMI Test Receiver	Rohde & Schwarz	ESW44	225688	2026-02-28
Antenna, Passive Loop 100kHz to 30MHz	ELECTRO-METRICS	EM-6872	219910	2026-08-31
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	219908	2026-08-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	202329	2027-04-30
Link File, 9KHz-1GHz Port 0 Factors	UL-FR1	Port 0 Factors	213877	2026-03-31
EMI TEST RECEIVER, with B8 option	Rohde & Schwarz	ESW44	245268	2026-02-28
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	252765	Verified
Spectrum Analyzer, PXA, 3Hz to 44GHz	N9030A	Keysight Technologies Inc	85214	2026-01-31
Power Meter	Keysight	N1912A	259286	2026-03-31
Wideband Power Sensor	Keysight	N1921A	257703	2026-03-31

UL AUTOMATION SOFTWARE			
Radiated Software	UL	UL EMC	Ver 9.5, Aug 25 2023
Conducted Software	UL	UL EMC	2024.2.23

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

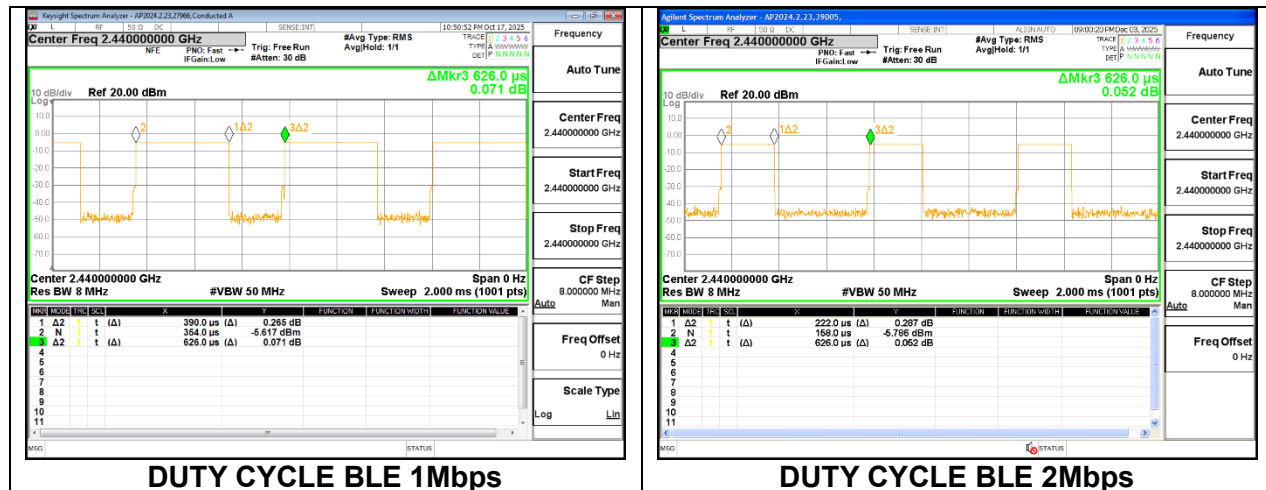
PROCEDURE

ANSI C63.10, Section 11.6: Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Worst-Case Mode	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
BLE 1Mbps	0.390	0.626	0.623	62.30	2.06	2.564
BLE 2Mbps	0.222	0.626	0.355	35.46	4.50	4.505

DUTY CYCLE PLOTS



9.2. 99% BANDWIDTH LIMITS

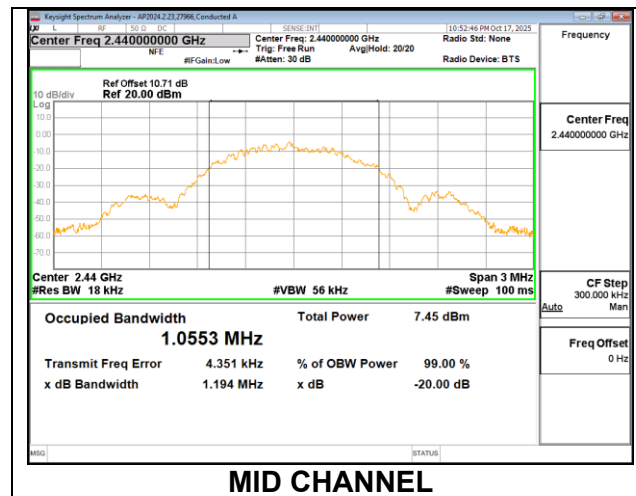
None; for reporting purposes only.

RESULTS

Only the mid-channel plot is reported to show that the setting parameter complies with the testing method/procedure.

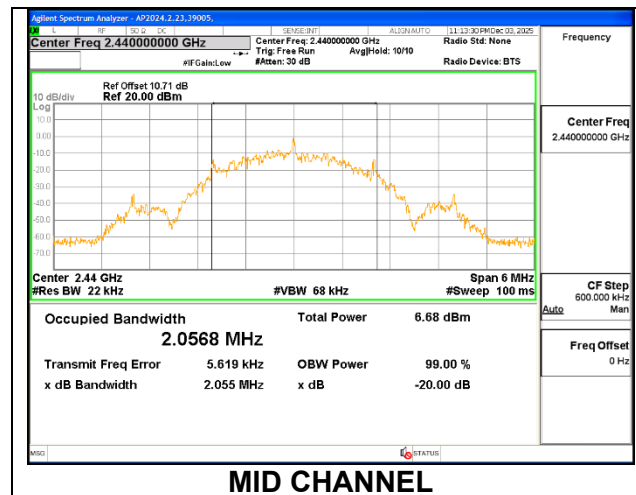
9.2.1. BLE (1Mbps)

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	1.0547
Middle	2440	1.0553
High	2480	1.0581



9.2.2. BLE (2Mbps)

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	2.0606
Middle	2440	2.0568
High	2480	2.0528



9.3. 6dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

RSS-247 6.3.1 (a)

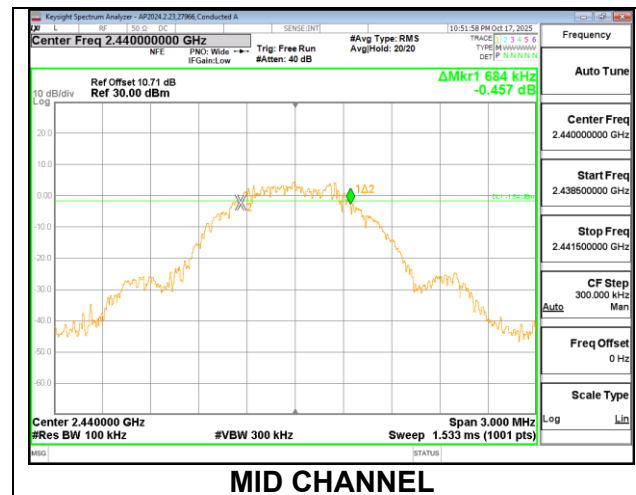
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Only the mid-channel plot is reported to show that the setting parameter complies with the testing method/procedure.

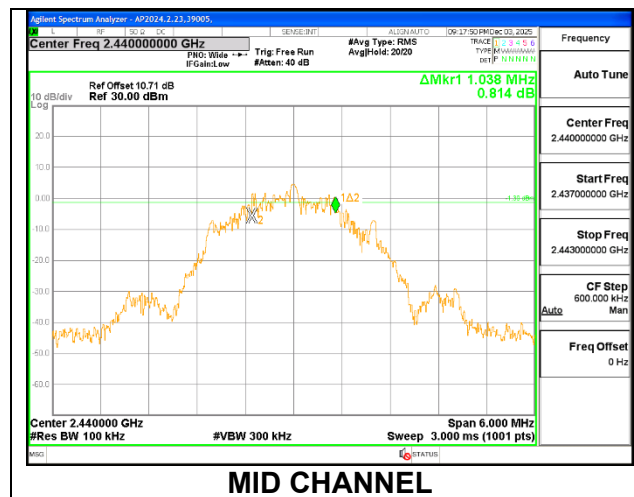
9.3.1. BLE (1Mbps)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	0.621	0.5
Middle	2440	0.684	0.5
High	2480	0.675	0.5



9.3.2. BLE (2Mbps)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	1.080	0.5
Middle	2440	1.038	0.5
High	2480	1.080	0.5



9.4. OUTPUT POWER AND POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (b) (3) & (e)

RSS-247 6.3.2 & 6.3.1 (b)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST PROCEDURE

Power Measurements are performed using a wideband RF power meter.

The power output was measured on the EUT antenna port using an SMA cable with a 10dB attenuator connected to a power meter via a wideband power sensor. The Peak and Gated Average output power was read directly from the power meter.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output; therefore, the directional gain is equal to the antenna gain of 1.40dBi

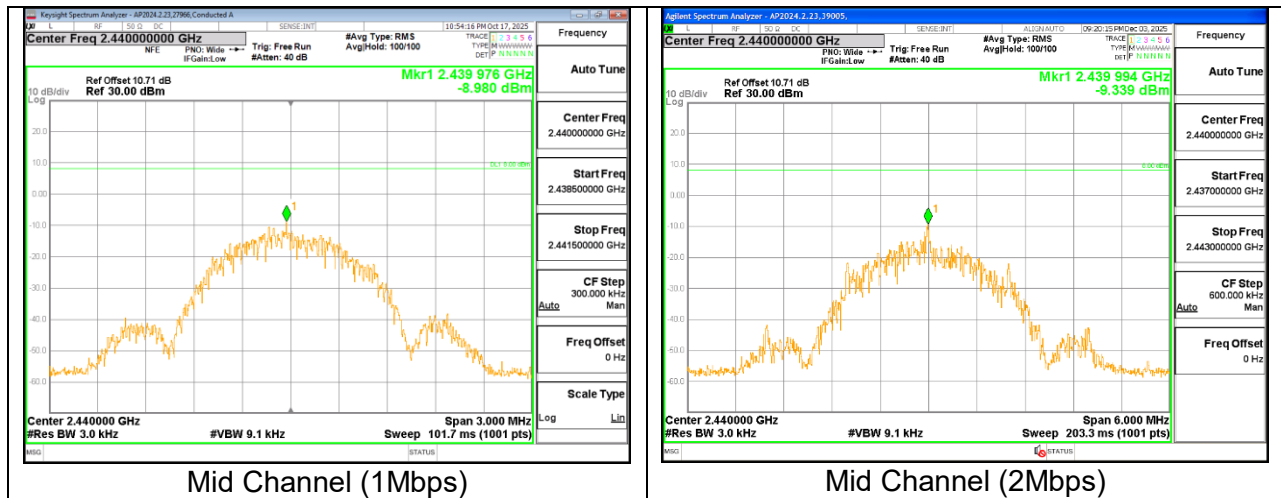
RESULTS

Only the mid-channel plot is reported to show that the setting parameter complies with the testing method/procedure.

Mode	No. of Tx	Channel	Freq (MHz)	Measured Conducted Avg Power (dBm)	Measured Conducted Peak Power (dBm)	Output Power Limit (dBm)	Output Power Margin (dB)	Measured PSD (dBm/3kHz)	*DCCF (dB)	Corrected Total PSD with DCCF (dBm/3kHz)	PSD Limit (dBm/3kHz)	PSD Margin (dB)
BLE 1Mbps	1Tx	0	2402	4.72	4.96	30.00	-25.04	-8.790	0.00	-8.79	8.00	-16.79
		19	2440	4.96	5.19	30.00	-24.81	-8.980	0.00	-8.98	8.00	-16.98
		39	2480	3.82	4.06	30.00	-25.94	-9.869	0.00	-9.87	8.00	-17.87
BLE 2Mbps	1Tx	0	2402	4.36	4.78	30.00	-25.22	-9.902	0.00	-9.90	8.00	-17.90
		19	2440	4.70	5.04	30.00	-24.96	-9.339	0.00	-9.34	8.00	-17.34
		39	2480	3.17	3.50	30.00	-26.50	-10.897	0.00	-10.90	8.00	-18.90

*PSD using Method PKPSD (peak PSD), DCCF=0

PSD Plots



9.5. CONDUCTED SPURIOUS EMISSIONS

LIMITS

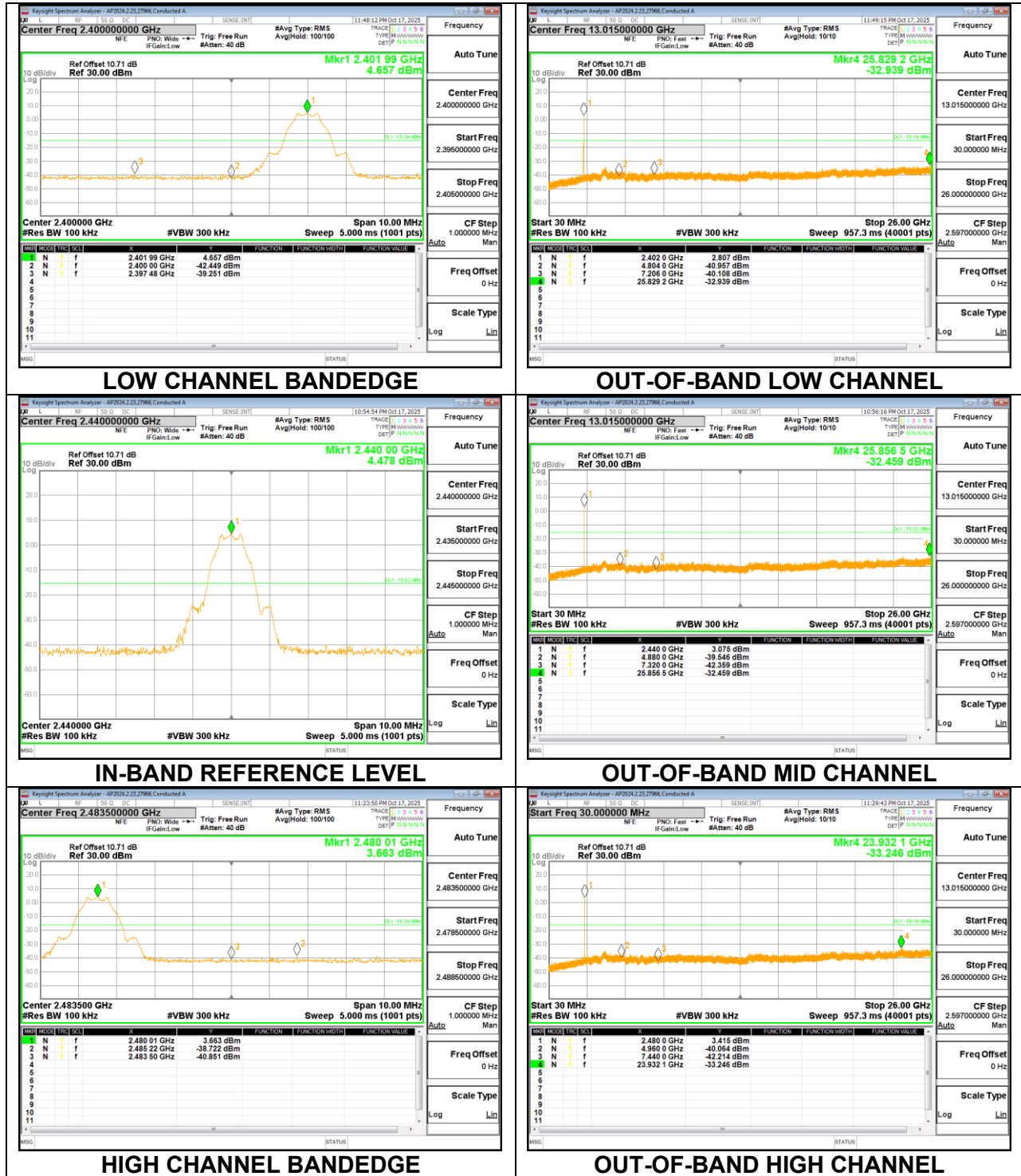
FCC §15.247 (d)

RSS-247 6.6

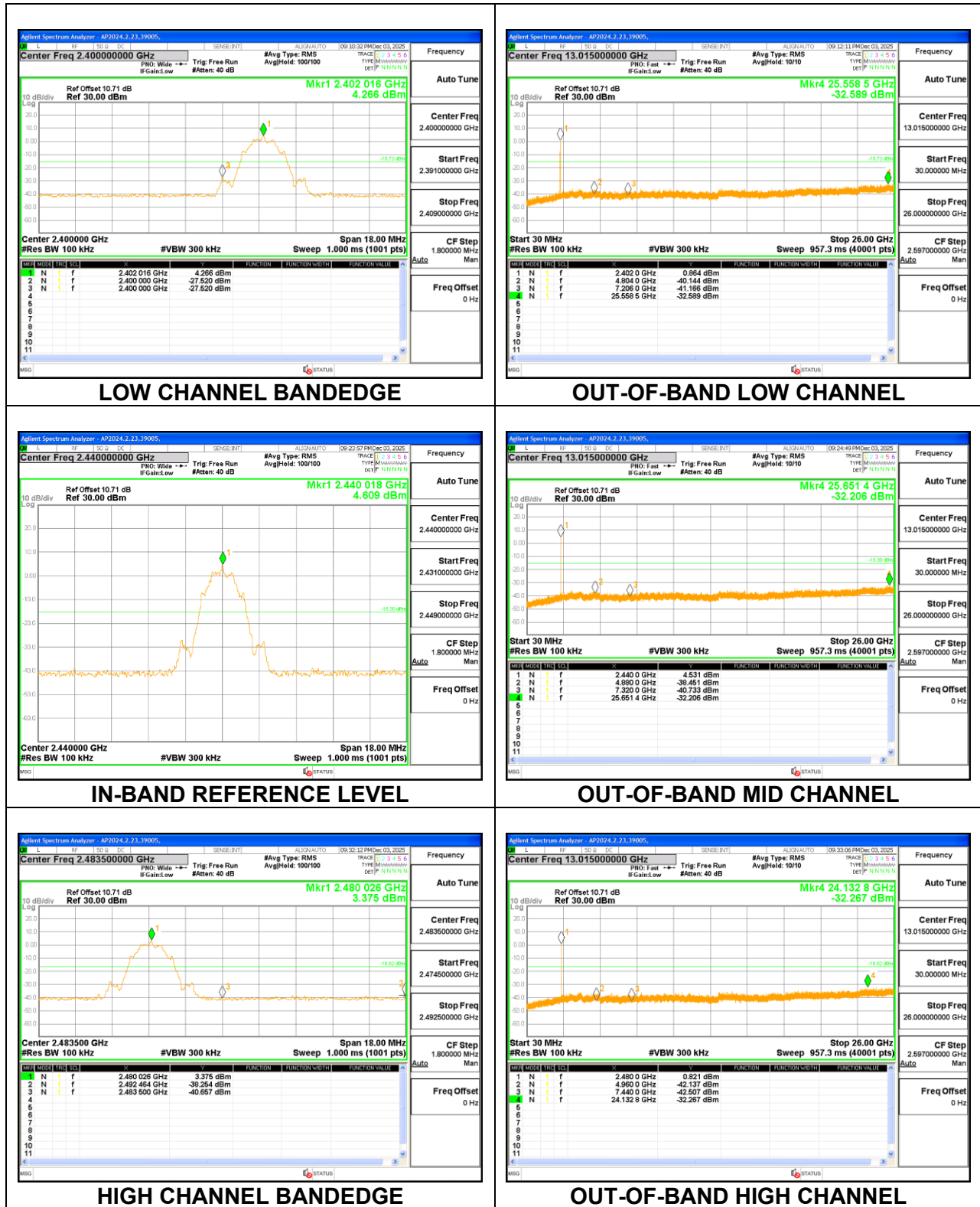
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

RESULTS

9.5.1. BLE (1Mbps)



9.5.2. BLE (2Mbps)



10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209
RSS-GEN, Sections 8.9 and 8.10

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz, the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as a quasi-peak.

For pre-scans above 1 GHz, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

For final measurements above 1 GHz, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

For below 30MHz testing, an investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel). Parallel and perpendicular are the worst orientations, therefore, testing was performed on these two orientations only. Blue color trace on plots: Parallel orientation. Green color trace on plots: Perpendicular orientation.

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as report in the table) using free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB to the corresponding RSS-Gen Table 6 limit as it must 15.209(a) limit.

KDB 414788 Open Field Site (OFS) and Chamber Correlation Justification

Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

RESULTS

The plots in these sections are for reference settings only.

10.1. TRANSMITTER ABOVE 1 GHz

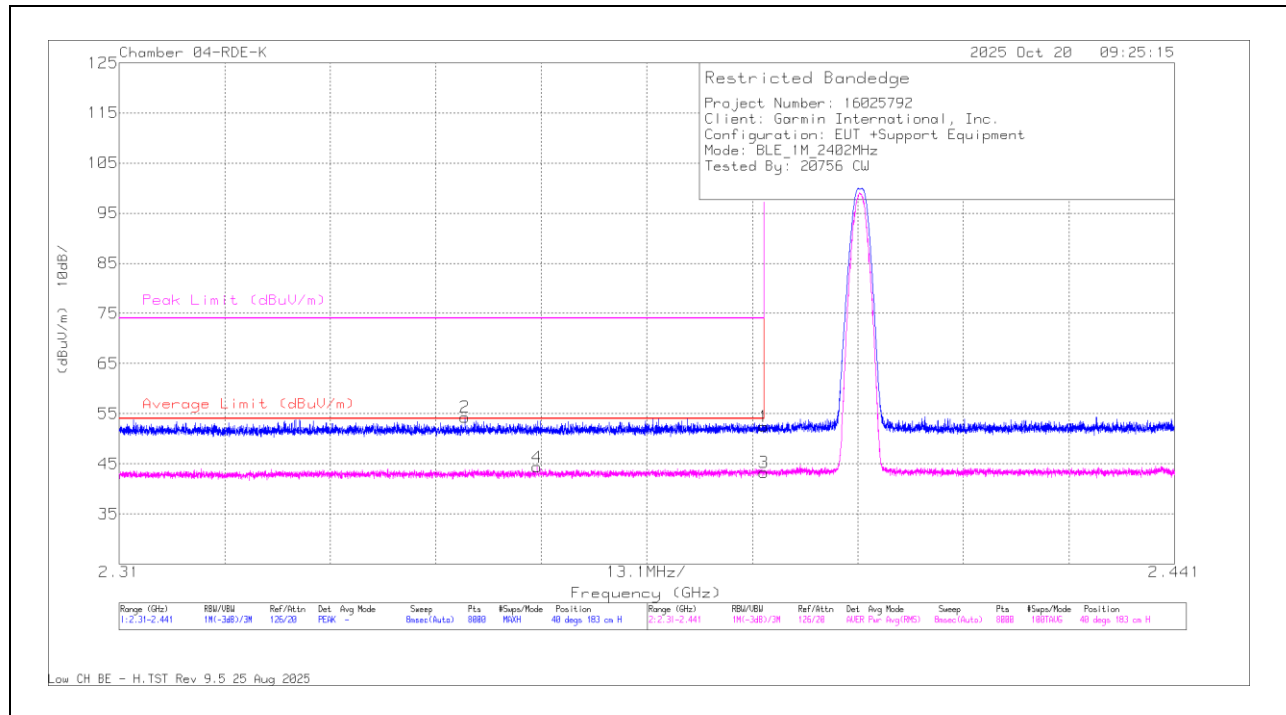
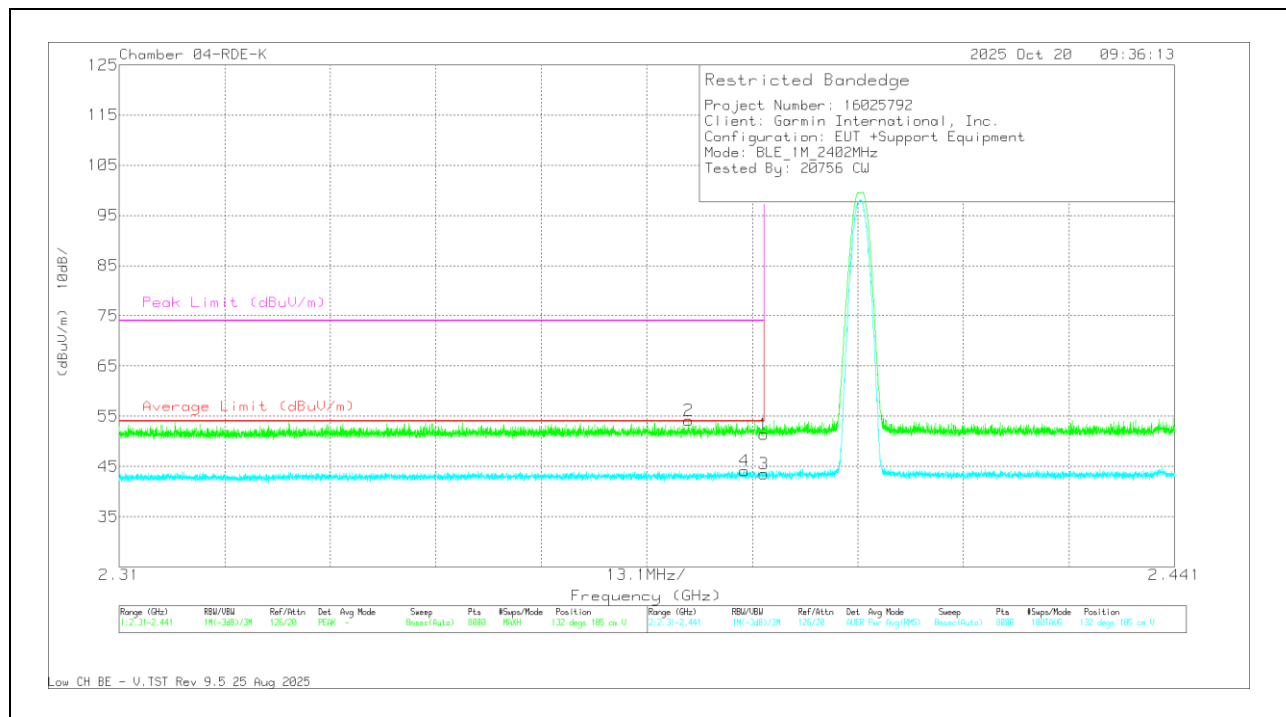
10.1.1. LOW BANDEDGE

2.4GHz (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1Mbps	2402	* 2.39	54.76	Pk	32.3	-34.6	0	52.46	-	-	74	-21.54	40	183	H
		* 2.35294	56.9	Pk	32.1	-34.7	0	54.3	-	-	74	-19.7	40	183	H
		* 2.39	43.51	RMS	32.3	-34.6	2.06	43.27	54	-10.73	-	-	40	183	H
		* 2.361866	44.77	RMS	32.2	-34.7	2.06	44.33	54	-9.67	-	-	40	183	H
		* 2.39	53.69	Pk	32.3	-34.6	0	51.39	-	-	74	-22.61	132	185	V
		* 2.3807	56.69	Pk	32.2	-34.7	0	54.19	-	-	74	-19.81	132	185	V
		* 2.39	43.79	RMS	32.3	-34.6	2.06	43.55	54	-10.45	-	-	132	185	V
		* 2.387627	44.36	RMS	32.3	-34.6	2.06	44.12	54	-9.88	-	-	132	185	V
2Mbps	2402	* 2.39	54.55	Pk	32.2	-37.1	0	49.65	-	-	74	-24.35	340	281	H
		* 2.37179	57.42	Pk	32.2	-37.1	0	52.52	-	-	74	-21.48	340	281	H
		* 2.39	43.81	RMS	32.2	-37.1	4.5	43.41	54	-10.59	-	-	340	281	H
		* 2.367401	45.07	RMS	32.1	-37.1	4.5	44.57	54	-9.43	-	-	340	281	H
		* 2.39	55.22	Pk	32.2	-37.1	0	50.32	-	-	74	-23.68	244	196	V
		* 2.380929	56.68	Pk	32.2	-37.1	0	51.78	-	-	74	-22.22	244	196	V
		* 2.39	43.51	RMS	32.2	-37.1	4.5	43.11	54	-10.89	-	-	244	196	V
		* 2.385694	44.67	RMS	32.2	-37.1	4.5	44.27	54	-9.73	-	-	244	196	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (LOW CHANNEL), 1Mbps**HORIZONTAL RESULT****VERTICAL RESULT**

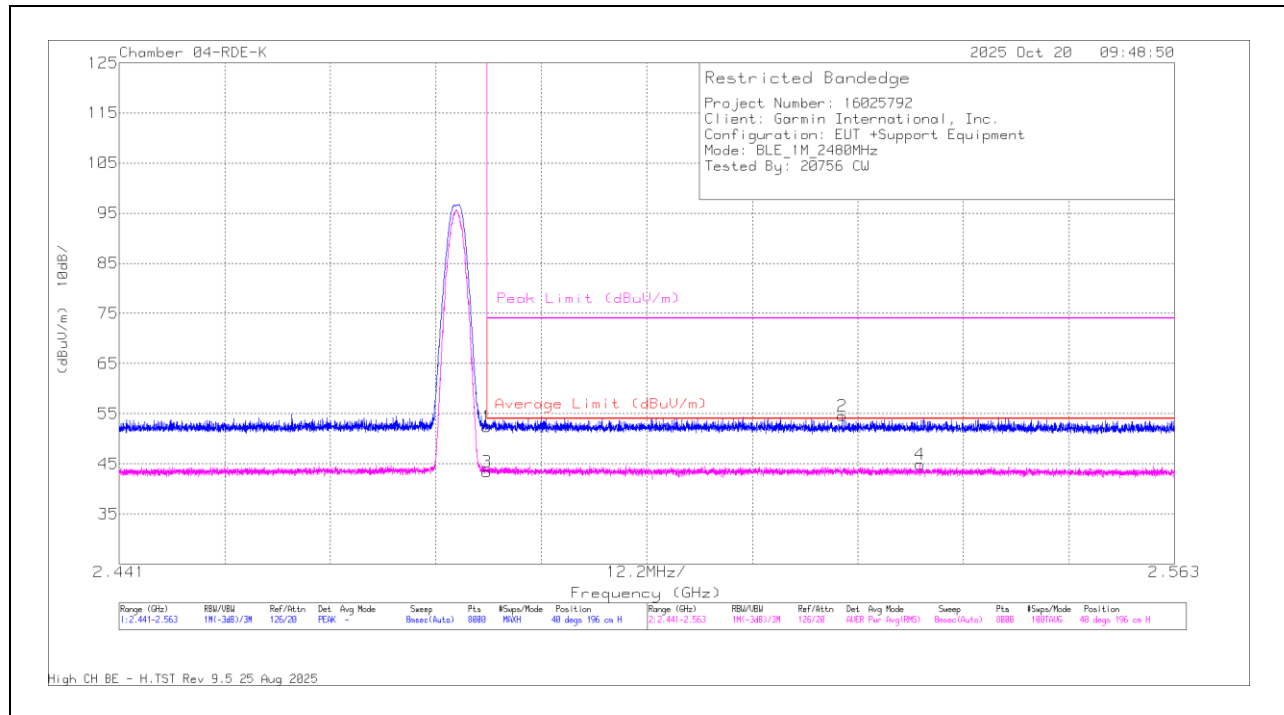
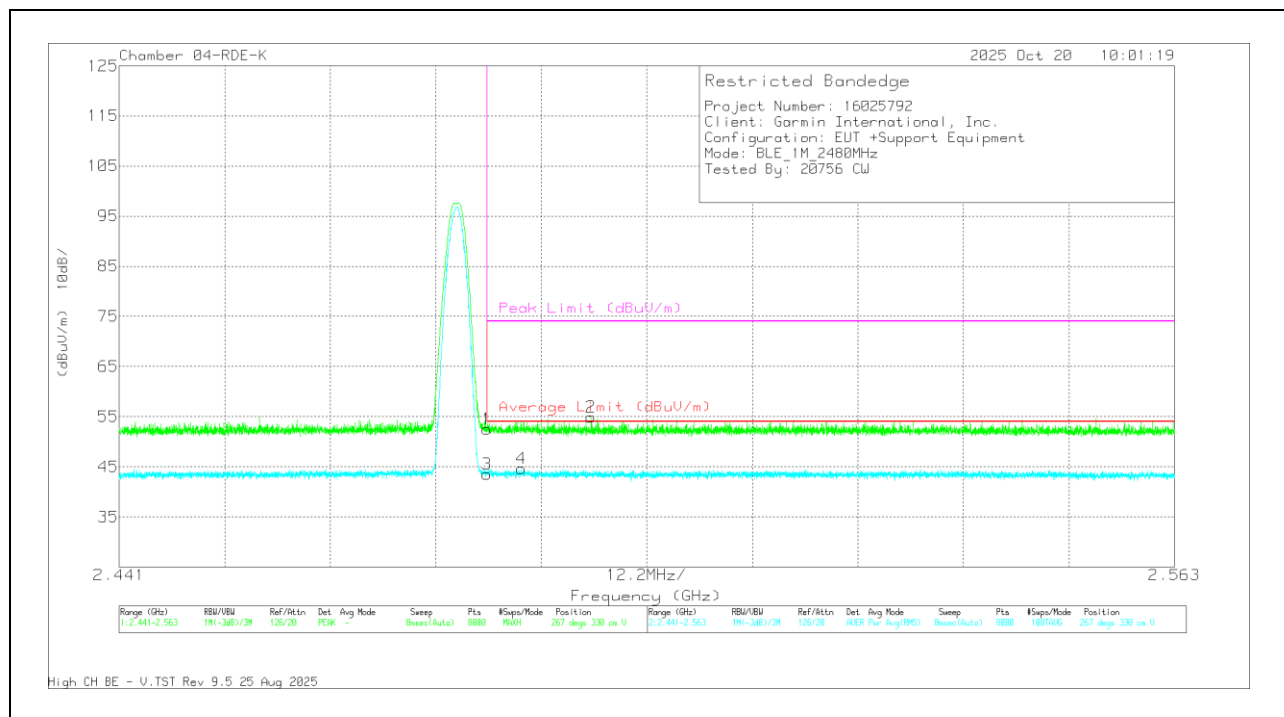
10.1.2. HIGH BANDEDGE

2.4GHz (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cb/ Fitr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1Mbps	2480	* 2.4835	54	Pk	32.6	-34.2	0	52.4	-	-	74	-21.6	40	196	H
		2.524581	56.19	Pk	32.5	-34.1	0	54.59	-	-	74	-19.41	40	196	H
		* 2.4835	42.97	RMS	32.6	-34.2	2.06	43.43	54	-10.57	-	-	40	196	H
		2.53358	44.48	RMS	32.5	-34.1	2.06	44.94	54	-9.06	-	-	40	196	H
		* 2.4835	54.1	Pk	32.6	-34.2	0	52.5	-	-	74	-21.5	267	330	V
		* 2.495572	56.54	Pk	32.6	-34.2	0	54.94	-	-	74	-19.06	267	330	V
		* 2.4835	43.11	RMS	32.6	-34.2	2.06	43.57	54	-10.43	-	-	267	330	V
		* 2.487488	44.17	RMS	32.6	-34.2	2.06	44.63	54	-9.37	-	-	267	330	V
		* 2.4835	56.12	Pk	32.4	-36.9	0	51.62	-	-	74	-22.38	346	215	H
		2.503853	56.55	Pk	32.5	-36.9	0	52.15	-	-	74	-21.85	346	215	H
2Mbps	2480	* 2.4835	44.21	RMS	32.4	-36.9	4.5	44.21	54	-9.79	-	-	346	215	H
		* 2.484804	44.37	RMS	32.4	-36.9	4.5	44.37	54	-9.63	-	-	346	215	H
		* 2.4835	56.68	Pk	32.4	-36.9	0	52.18	-	-	74	-21.82	243	129	V
		* 2.483553	57.04	Pk	32.4	-36.9	0	52.54	-	-	74	-21.46	243	129	V
		* 2.4835	44.48	RMS	32.4	-36.9	4.5	44.48	54	-9.52	-	-	243	129	V
		* 2.483507	44.75	RMS	32.4	-36.9	4.5	44.75	54	-9.25	-	-	243	129	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL), 1Mbps**HORIZONTAL RESULT****VERTICAL RESULT**

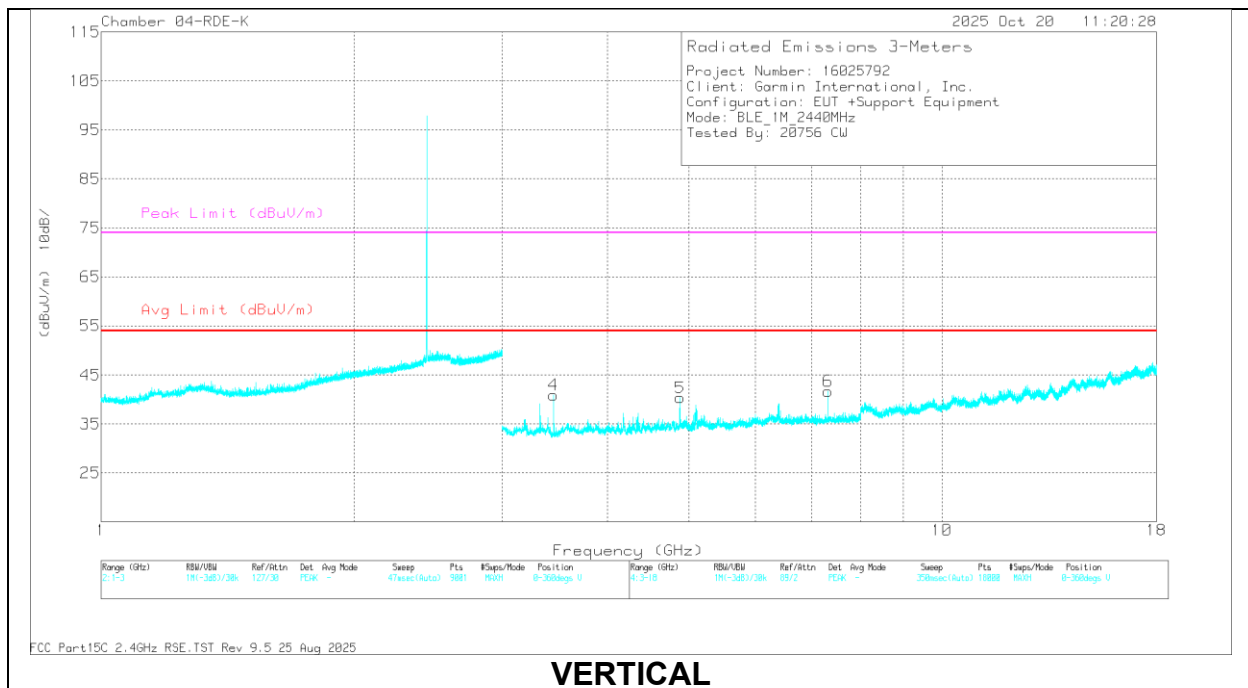
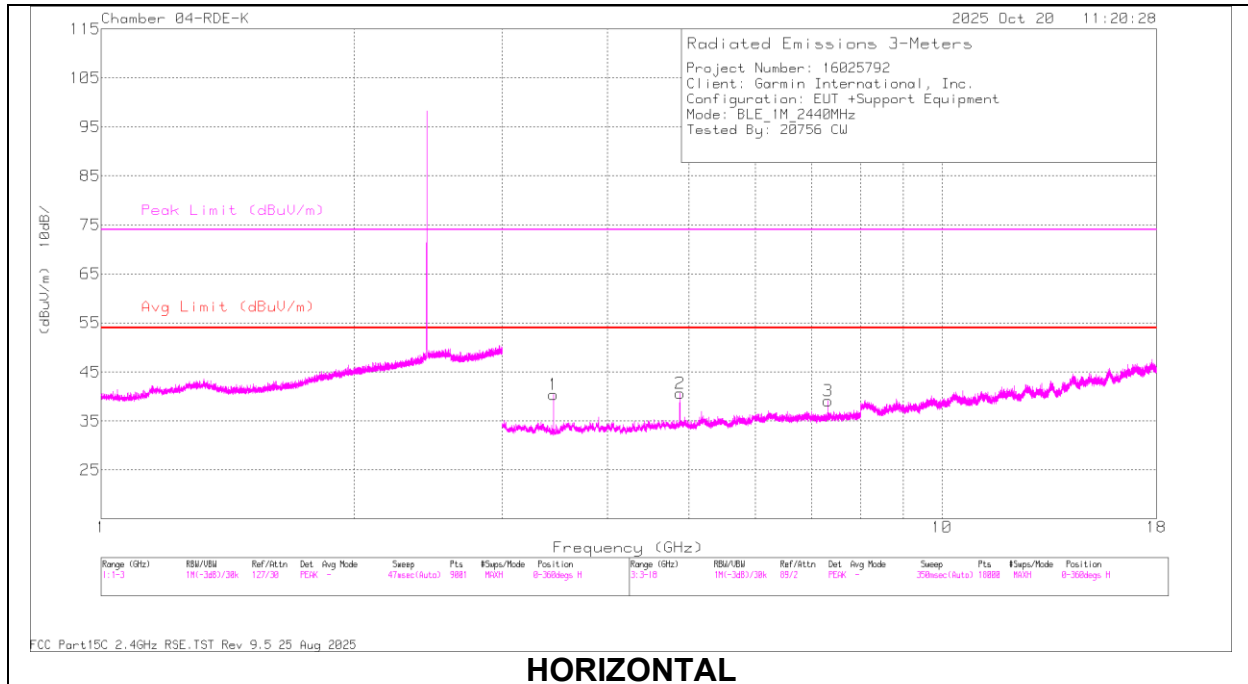
10.1.3. SPURIOUS EMISSIONS

2.4 GHz (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/ Filt/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1Mbps	2402	* 4.804366	53.39	PK2	34.1	-40.2	0	47.29	-	-	74	-26.71	65	199	H
		* 4.803779	43.21	MAv1	34.1	-40.3	2.06	39.07	54	-14.93	-	-	65	199	H
		* 4.8038	54.62	PK2	34.1	-40.3	0	48.42	-	-	74	-25.58	307	227	V
		* 4.803831	45.32	MAv1	34.1	-40.3	2.06	41.18	54	-12.82	-	-	307	227	V
		3.453306	55.26	PK2	32.7	-41.6	0	46.36	-	-	-	-	239	139	V
		3.453364	55.12	PK2	32.7	-41.6	0	46.22	-	-	-	-	354	210	H
		7.20665	51.24	PK2	35.6	-38.2	0	48.64	-	-	-	-	236	213	H
		7.20536	52.75	PK2	35.6	-38.2	0	50.15	-	-	-	-	248	179	V
		* 4.879954	54.24	PK2	34.1	-40.2	0	48.14	-	-	74	-25.86	270	204	H
	2440	* 4.880314	44.16	MAv1	34.1	-40.2	2.06	40.12	54	-13.88	-	-	270	204	H
		* 7.319304	51.13	PK2	35.6	-37.8	0	48.93	-	-	74	-25.07	184	265	H
		* 7.319384	40	MAv1	35.6	-37.8	2.06	39.86	54	-14.14	-	-	184	265	H
		* 4.880346	54.43	PK2	34.1	-40.2	0	48.33	-	-	74	-25.67	318	233	V
		* 4.879755	45.62	MAv1	34.1	-40.2	2.06	41.58	54	-12.42	-	-	318	233	V
		* 7.319503	52.19	PK2	35.6	-37.8	0	49.99	-	-	74	-24.01	254	197	V
		* 7.31925	42.79	MAv1	35.6	-37.8	2.06	42.65	54	-11.35	-	-	254	197	V
		3.45319	55.5	PK2	32.7	-41.6	0	46.6	-	-	-	-	65	197	H
		3.453239	56.41	PK2	32.7	-41.6	0	47.51	-	-	-	-	351	109	V
	2480	* 4.959191	53.8	PK2	34.1	-40.2	0	47.7	-	-	74	-26.3	241	199	H
		* 4.960053	43.59	MAv1	34.1	-40.2	2.06	39.55	54	-14.45	-	-	241	199	H
		* 7.439512	49.8	PK2	35.6	-37.6	0	47.8	-	-	74	-26.2	204	191	H
		* 7.440632	39.2	MAv1	35.6	-37.6	2.06	39.26	54	-14.74	-	-	204	191	H
		* 4.969899	52.86	PK2	34.1	-40.2	0	46.76	-	-	74	-27.24	348	218	V
		* 4.960393	41.52	MAv1	34.1	-40.2	2.06	37.48	54	-16.52	-	-	348	218	V
		* 7.440738	51.53	PK2	35.6	-37.6	0	49.53	-	-	74	-24.47	237	175	V
		* 7.439467	41.41	MAv1	35.6	-37.6	2.06	41.47	54	-12.53	-	-	237	175	V
		3.453096	52.79	PK2	32.7	-41.6	0	43.89	-	-	-	-	316	181	H
2Mbps	2402	3.453512	58.5	PK2	32.7	-41.6	0	49.6	-	-	-	-	9	154	V
		2.482013	60.36	PK2	32.4	-36.9	0	55.86	-	-	-	-	340	216	H
		2.481733	60.6	PK2	32.4	-36.9	0	56.1	-	-	-	-	222	129	V
		* 4.802865	55.37	PK2	34.3	-45.4	0	44.27	-	-	74	-29.73	194	199	H
		* 4.803043	43.61	MAv1	34.3	-45.4	4.5	37.01	54	-16.99	-	-	194	199	H
		* 4.799572	58	PK2	34.3	-45.4	0	46.9	-	-	74	-27.1	164	101	V
		* 4.799421	43.71	MAv1	34.3	-45.4	4.5	37.11	54	-16.89	-	-	164	101	V
		7.204611	53.77	PK2	35.5	-42.5	0	46.77	-	-	-	-	164	191	H
		7.207147	53.74	PK2	35.5	-42.6	0	46.64	-	-	-	-	172	244	V
	2440	* 4.879255	56.74	PK2	34.3	-44.9	0	46.14	-	-	74	-27.86	223	198	V
		* 4.879512	46.1	MAv1	34.3	-44.9	4.5	40	54	-14	-	-	200	199	H
		* 4.879668	45.58	MAv1	34.3	-44.9	4.5	39.48	54	-14.52	-	-	223	198	V
		* 4.880881	57.28	PK2	34.3	-44.9	0	46.68	-	-	74	-27.32	200	199	H
		* 7.318618	41.93	MAv1	35.5	-42.6	4.5	39.33	54	-14.67	-	-	159	189	H
		* 7.318769	53.82	PK2	35.5	-42.6	0	46.72	-	-	74	-27.28	159	189	H
		* 7.318813	40.57	MAv1	35.5	-42.6	4.5	37.97	54	-16.03	-	-	223	198	V
		* 7.321288	52.29	PK2	35.5	-42.6	0	45.19	-	-	74	-28.81	223	198	V
		9.598345	52.85	PK2	37	-40.3	0	49.55	-	-	-	-	154	243	V
	2480	9.598358	42.14	MAv1	37	-40.3	4.5	43.34	-	-	-	-	154	243	V
		9.598564	41.19	MAv1	37	-40.3	4.5	42.39	-	-	-	-	114	136	H
		9.59872	52.8	PK2	37	-40.3	0	49.5	-	-	-	-	114	136	H
		* 11.417384	51.65	PK2	38.2	-40.3	0	49.55	-	-	74	-24.45	307	204	H
		* 11.448504	39.39	MAv1	38.3	-40	4.5	42.19	54	-11.81	-	-	307	204	H
		* 11.473921	39.55	MAv1	38.4	-39.5	4.5	42.95	54	-11.05	-	-	186	101	V
		* 11.477401	52.15	PK2	38.4	-39.5	0	51.05	-	-	74	-22.95	186	101	V
		* 4.959348	55.28	PK2	34.2	-45	0	44.48	-	-	74	-29.52	249	274	V
		* 4.959401	43.59	MAv1	34.2	-45	4.5	37.29	54	-16.71	-	-	249	274	V
	2480	* 4.960063	55.68	PK2	34.2	-45	0	44.88	-	-	74	-29.12	204	213	H
		* 4.96061	43.82	MAv1	34.2	-45	4.5	37.52	54	-16.48	-	-	204	213	H
		* 7.438652	55.74	PK2	35.5	-42.3	0	48.94	-	-	74	-25.06	186	238	V
		* 7.43883	44.23	MAv1	35.5	-42.3	4.5	41.93	54	-12.07	-	-	186	238	V
		* 7.438835	42.36	MAv1	35.5	-42.3	4.5	40.06	54	-13.94	-	-	159	279	H
		* 7.441071	54.65	PK2	35.6	-42.3	0	47.95	-	-	74	-26.05	159	279	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

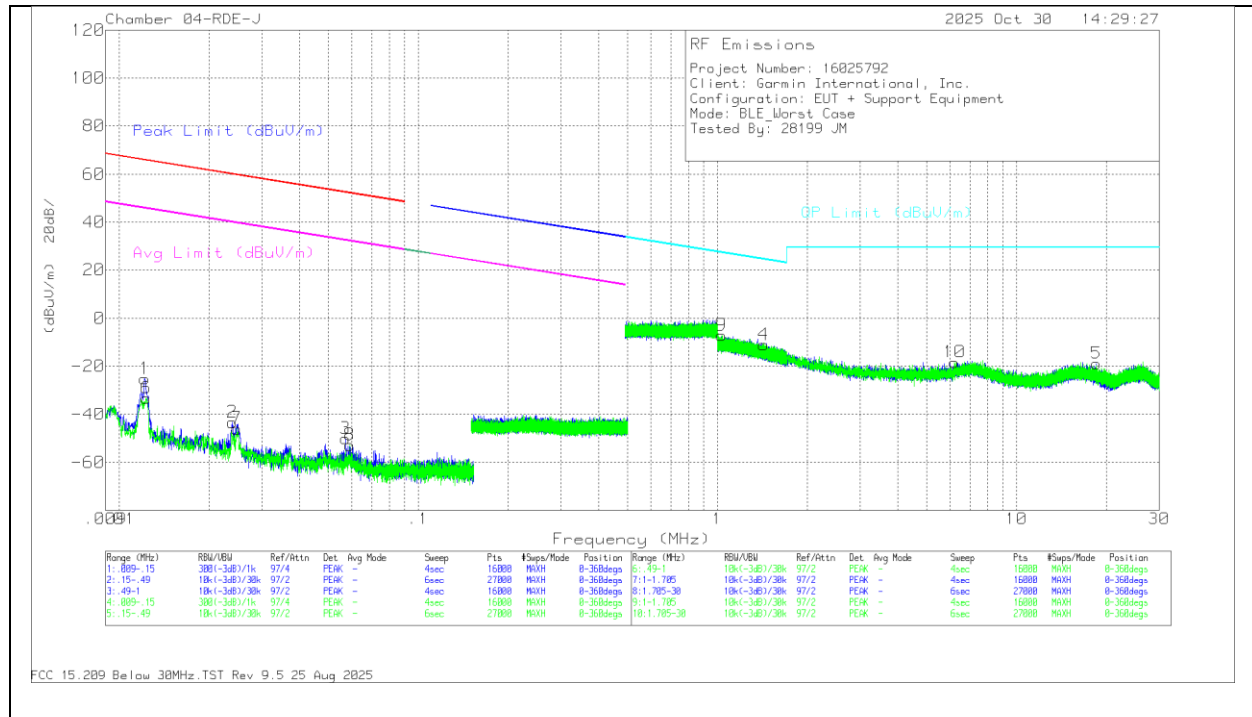
Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL), 1Mbps

10.2. TRANSMITTER WORST CASE BELOW 30MHz

SPURIOUS EMISSIONS BELOW 30MHz (WORST-CASE CONFIGURATION)



Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	CBL/AMP (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.0122	25.07	Pk	60.1	-30.4	-80	-25.23	65.88	-91.11	45.88	-71.11	0-360
2	.0239	9.53	Pk	58.7	-31.6	-80	-43.37	60.02	-103.39	40.02	-83.39	0-360
3	.057	5.4	Pk	56.5	-32	-80	-50.1	52.47	-102.57	32.47	-82.57	0-360
6	.0123	17.15	Pk	60.1	-30.5	-80	-33.25	65.78	-99.03	45.78	-79.03	0-360
7	.0247	6.98	Pk	58.6	-31.6	-80	-46.02	59.73	-105.75	39.73	-85.75	0-360
8	.059	2.96	Pk	56.3	-32.1	-80	-52.84	52.17	-105.01	32.17	-85.01	0-360

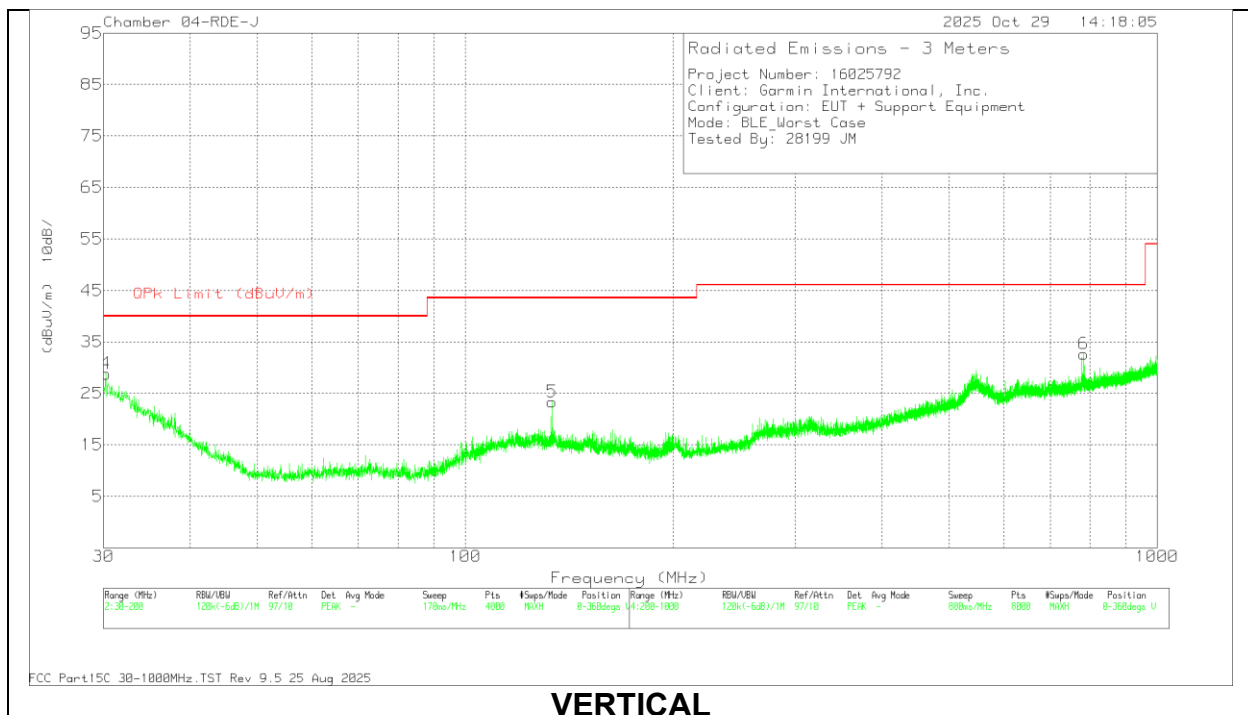
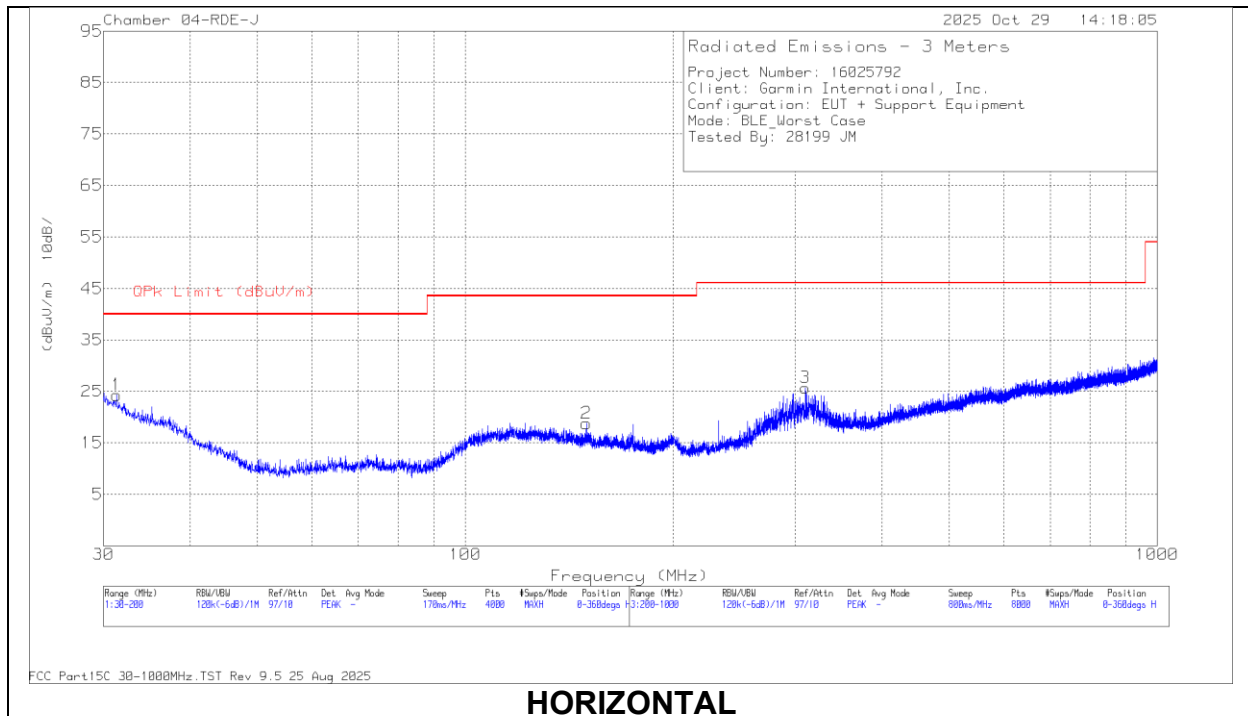
Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	CBL/AMP (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	1.4266	16.4	Pk	44.5	-32	-40	-11.1	24.54	-35.64	0-360
5	18.4824	18.55	Pk	34.1	-31.5	-40	-18.85	29.5	-48.35	0-360
9	1.0326	18.58	Pk	46.6	-32.3	-40	-7.12	27.34	-34.46	0-360
10	6.1999	18.56	Pk	35	-31.9	-40	-18.34	29.5	-47.84	0-360

Pk - Peak detector

10.3. TRANSMITTER WORST CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202329 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.3178	30.37	Pk	25.7	-31.8	24.27	40	-15.73	0-360	398	H
2	149.626	31.16	Pk	18.5	-30.9	18.76	43.52	-24.76	0-360	198	H
3	310.114	36.4	Pk	19.6	-30.3	25.7	46.02	-20.32	0-360	101	H
4	30.6654	34.69	Pk	26.2	-31.8	29.09	40	-10.91	230	100	V
	30.6654	27.07	Qp	26.2	-31.8	21.47	40	-18.53	230	100	V
5	* 133.429	34.94	Pk	19.4	-31	23.34	43.52	-20.18	0-360	101	V
6	782.576	34.27	Pk	26.9	-28.5	32.67	46.02	-13.35	0-360	398	V

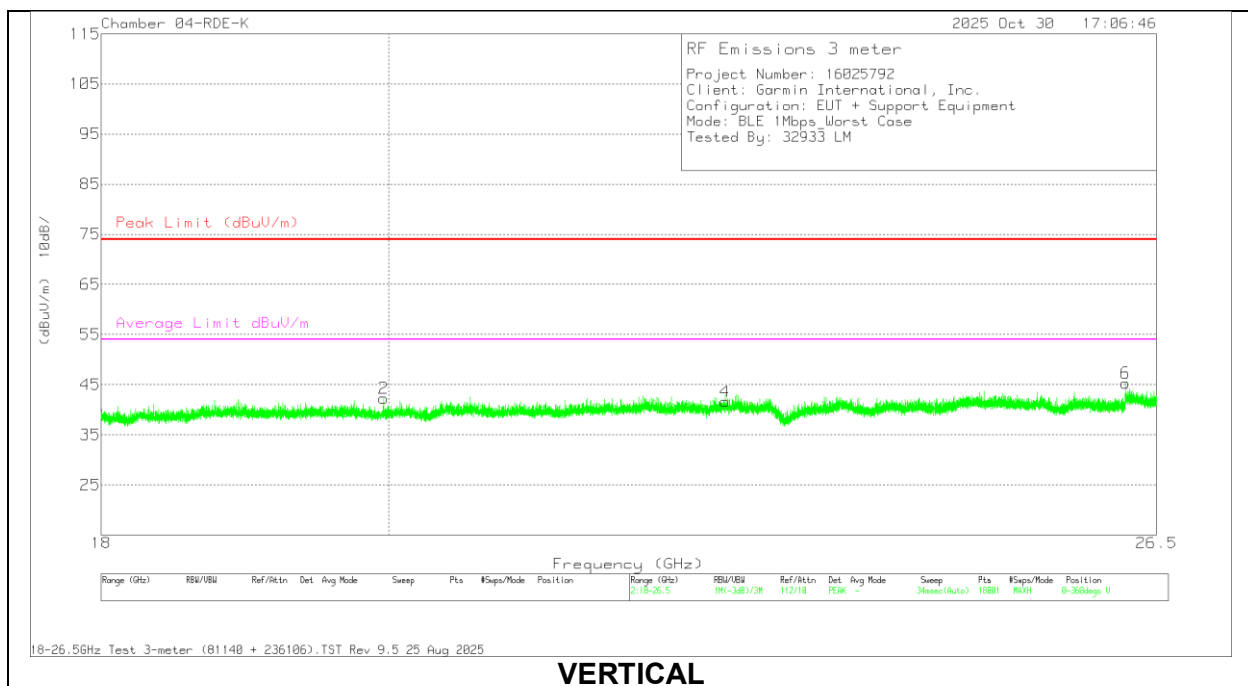
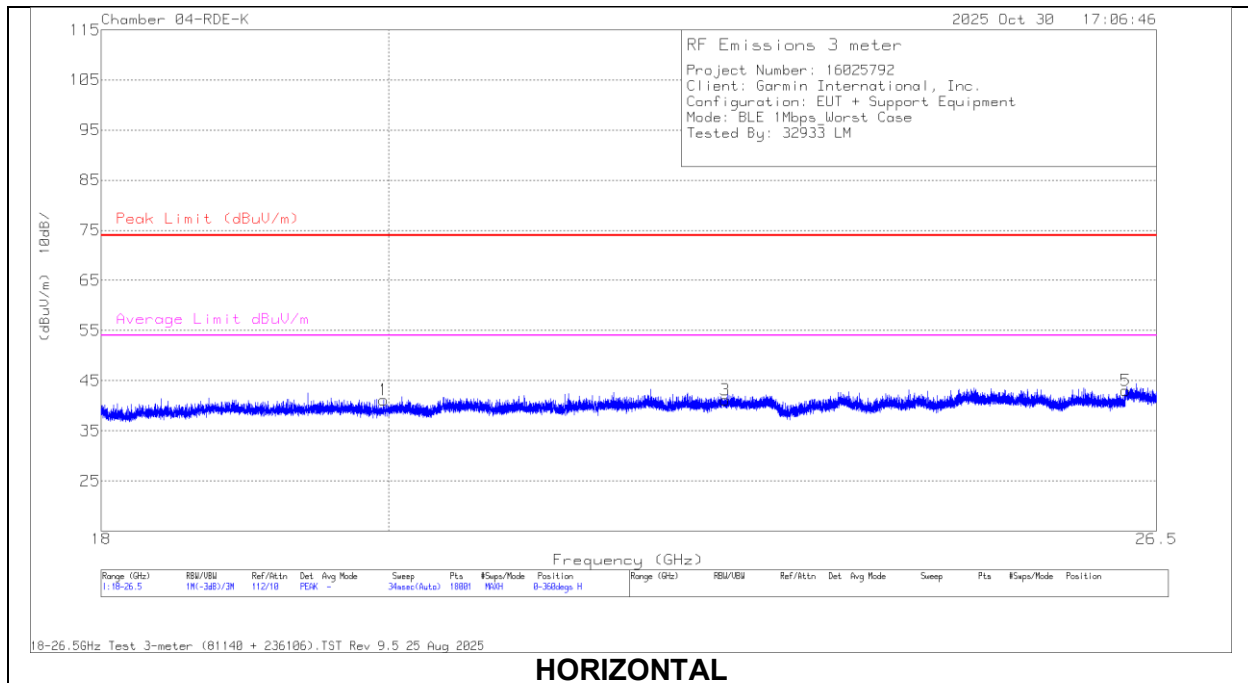
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

10.4. TRANSMITTER WORST CASE 18-26 GHz

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



18 – 26GHz Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81140 ACF (dB/m)	CBL/AMP (dB)	CBL (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 19.962555	50.59	Pk	32.5	-62	20.1	41.19	74	-32.81	54	-12.81	0-360	200	H
2	* 19.96161	51.7	Pk	32.5	-62	20.1	42.3	74	-31.7	54	-11.7	0-360	101	V
3	* 22.625414	48.91	Pk	33	-62.1	21.3	41.11	74	-32.89	54	-12.89	0-360	101	H
4	* 22.625887	49.4	Pk	33	-62.1	21.3	41.6	74	-32.4	54	-12.4	0-360	200	V
5	26.200607	48.3	Pk	34.1	-62.3	22.9	43	74	-31	54	-11	0-360	200	H
6	26.200135	50.61	Pk	34.1	-62.3	22.9	45.31	74	-28.69	54	-8.69	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

11. SETUP PHOTOS

Please refer to 16025792-EP1 for setup photos

END OF REPORT