

TEST REPORT

Report Number: 16025787-E2V2

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

Model : A05115

Brand : Garmin

FCC ID : IPH-05115

IC : 1792A-05115

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

Prepared by:

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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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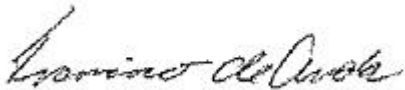
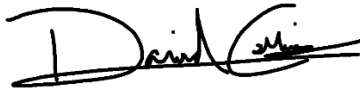
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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	Garmin International Inc. 1200 East 151 st Street Olathe, KS 66062-3426, USA		
Model	A05115		
Brand	Garmin		
FCC ID	IPH-05115		
IC	1792A-05115		
EUT Description	Portable Digital Transceiver		
Serial Number	352203550, 3522035513 (Conducted) ; 3522388756 (Radiated)		
Sample Receipt Date	2025-10-14		
Date Tested	2025-10-15 to 2025-12-03		
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	5.12	3.25
2402 - 2480	2Mbps	5.88	3.87

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 -0.5 dBi and 0.71dB 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 highest output power as 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 X (Flatbed) is the worst-case orientation. Full tests on the EUT were made on X (Flatbed) orientation. After investigation, the worst configuration set for all radiated tests is with EUT powered by Powered Mount via DC power supply 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

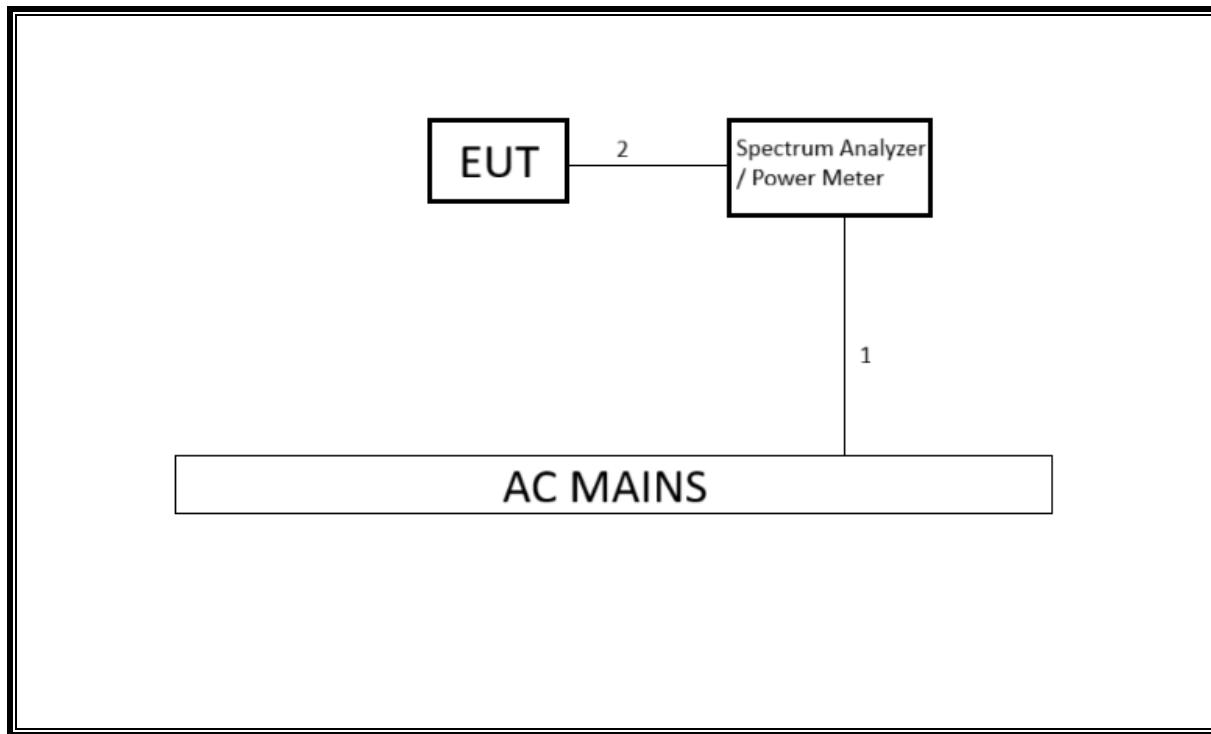
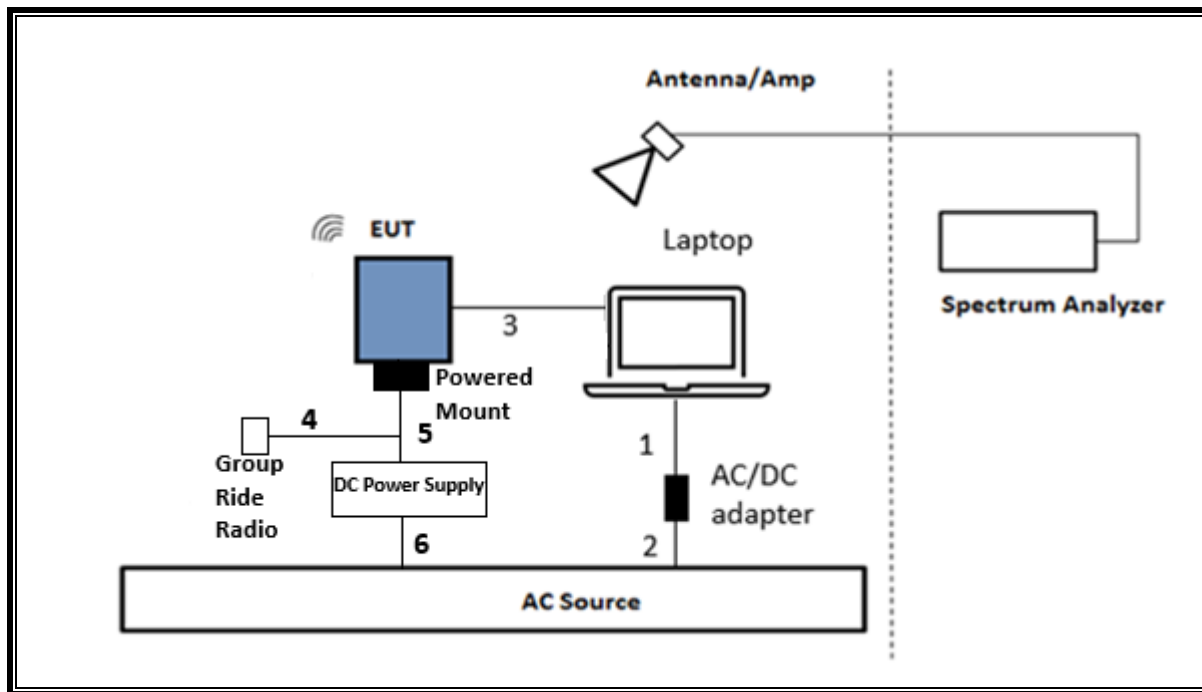
Plots included in the report are representative of the method and settings parameters used for the test.

6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Lenovo	T460s	PC0K7DPE		DOC
Laptop AC/DC adapter		Lenovo	ADLX65NCC2A	11S36200284ZZ10046BP9N		DOC
Powered Mount		Garmin	N/A	N/A		DoC
Group Ride Radio		Garmin	N/A	N/A		DoC
DC Power Supply		ABM	8185D	D021366		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	Shielded	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
4	DC	1	USB-micro	Shielded	0.7	Powered Mount to Group Ride Radio
5	DC	1	DC	Unshielded	2.45	Powered Mount to DC Power Supply
6	AC	1	3-prongs	Unshielded	1.8	AC Mains to DC power supply

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 18 to 26.5GHz	A.R.A.	MWH-1826/B	81140	2027-05-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gainr	UL-FR1	AMP18G26.5-60	215705	2026-10-31
EMI Test Receiver	Rohde & Schwarz	ESW44	225688	2026-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	80707	2027-08-31
RF Filter Box, 1-18GHz	UL-FR1	RATS 1.0, 2 Amp, 6 Port	171875	2026-03-31
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
P-Series Power Meter	Keysight Technologies Inc	N1912A-CFG003	259286	2026-03-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	257703	2026-03-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	N9030A	Keysight Technologies Inc	80396	2026-01-31

UL AUTOMATION SOFTWARE			
Radiated Software	UL	UL EMC	Ver 9.5, 25 Aug 2025
Conducted Software	UL	UL EMC	2024-02-23

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

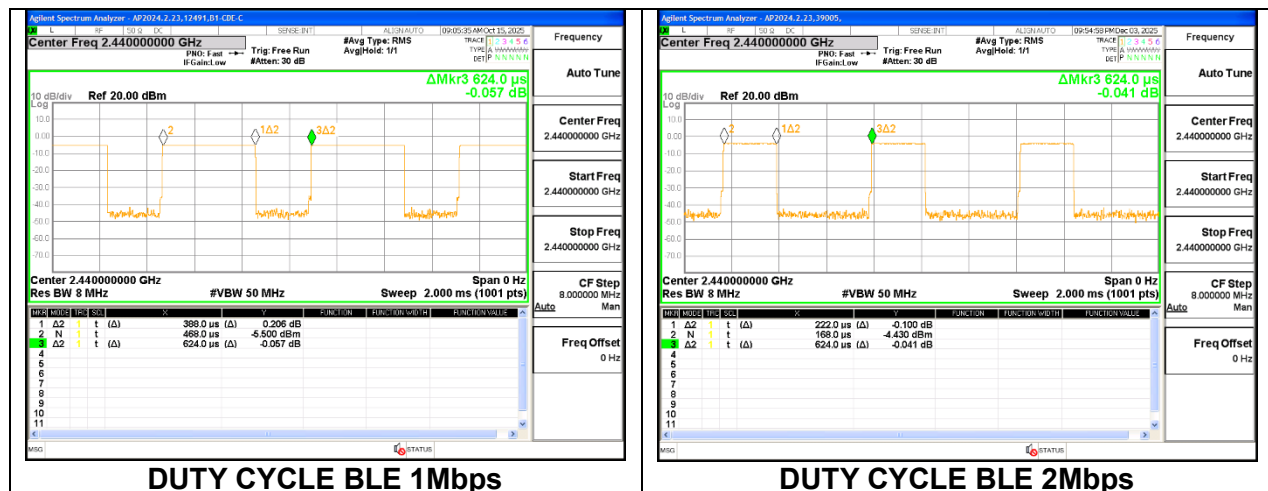
PROCEDURE

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	0.39	0.62	0.622	62.18	2.06	2.577
BLE 2Mbps	0.22	0.62	0.356	35.58	4.49	4.505

DUTY CYCLE PLOTS



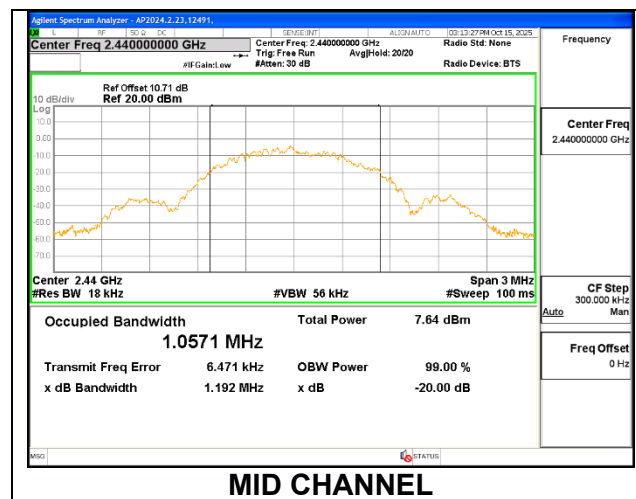
9.2. 99% BANDWIDTH LIMITS

None; for reporting purposes only.

RESULTS

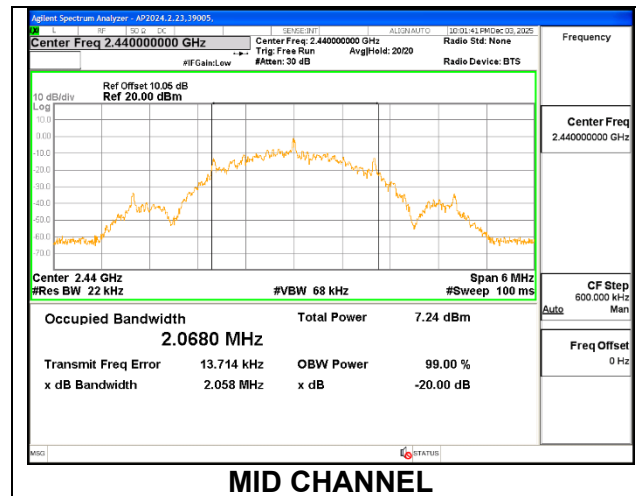
9.2.1. BLE (1Mbps)

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	1.0548
Middle	2440	1.0571
High	2480	1.0585



9.2.2. BLE (2Mbps)

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	2.0645
Middle	2440	2.0680
High	2480	2.0635



9.3. 6dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

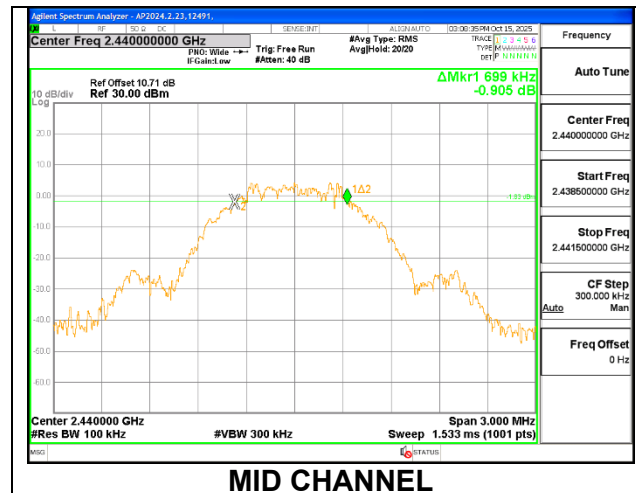
RSS-247 6.3.1 (a)

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

RESULTS

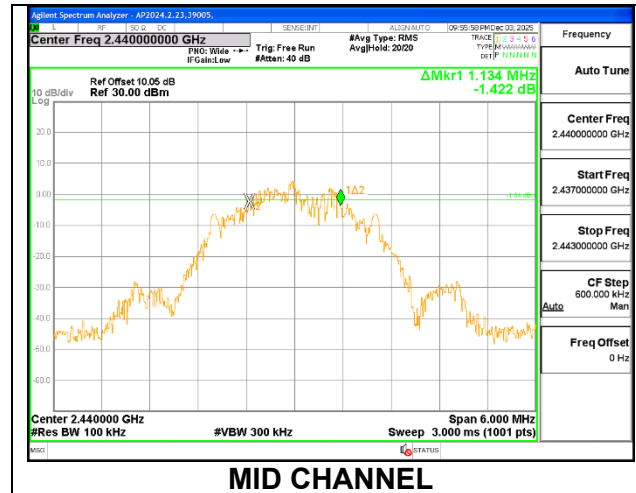
9.3.1. BLE (1Mbps)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	0.705	0.5
Middle	2440	0.699	0.5
High	2480	0.702	0.5



9.3.2. BLE (2Mbps)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	1.068	0.5
Middle	2440	1.134	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

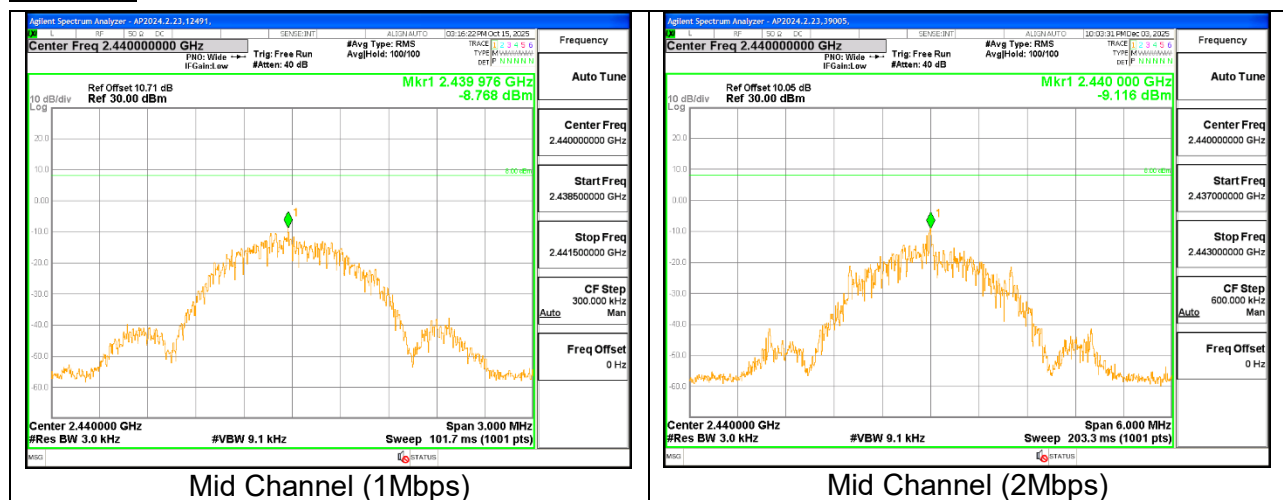
For 1 TX:

There is only one transmitter output; therefore, the directional gain is equal to the antenna gain.

RESULTS

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	4.94	5.12	30.00	-24.88	-8.769	0.00	-8.77	8.00	-16.77
		19	2440	4.77	4.94	30.00	-25.06	-8.768	0.00	-8.77	8.00	-16.77
		39	2480	3.81	4.02	30.00	-25.98	-9.957	0.00	-9.96	8.00	-17.96
BLE 2Mbps	1Tx	0	2402	4.85	5.40	30.00	-24.60	-9.522	0.00	-9.52	8.00	-17.52
		19	2440	5.24	5.88	30.00	-24.12	-9.116	0.00	-9.12	8.00	-17.12
		39	2480	4.65	5.28	30.00	-24.72	-9.695	0.00	-9.70	8.00	-17.70

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

PSD Plots

9.5. CONDUCTED SPURIOUS EMISSIONS

LIMITS

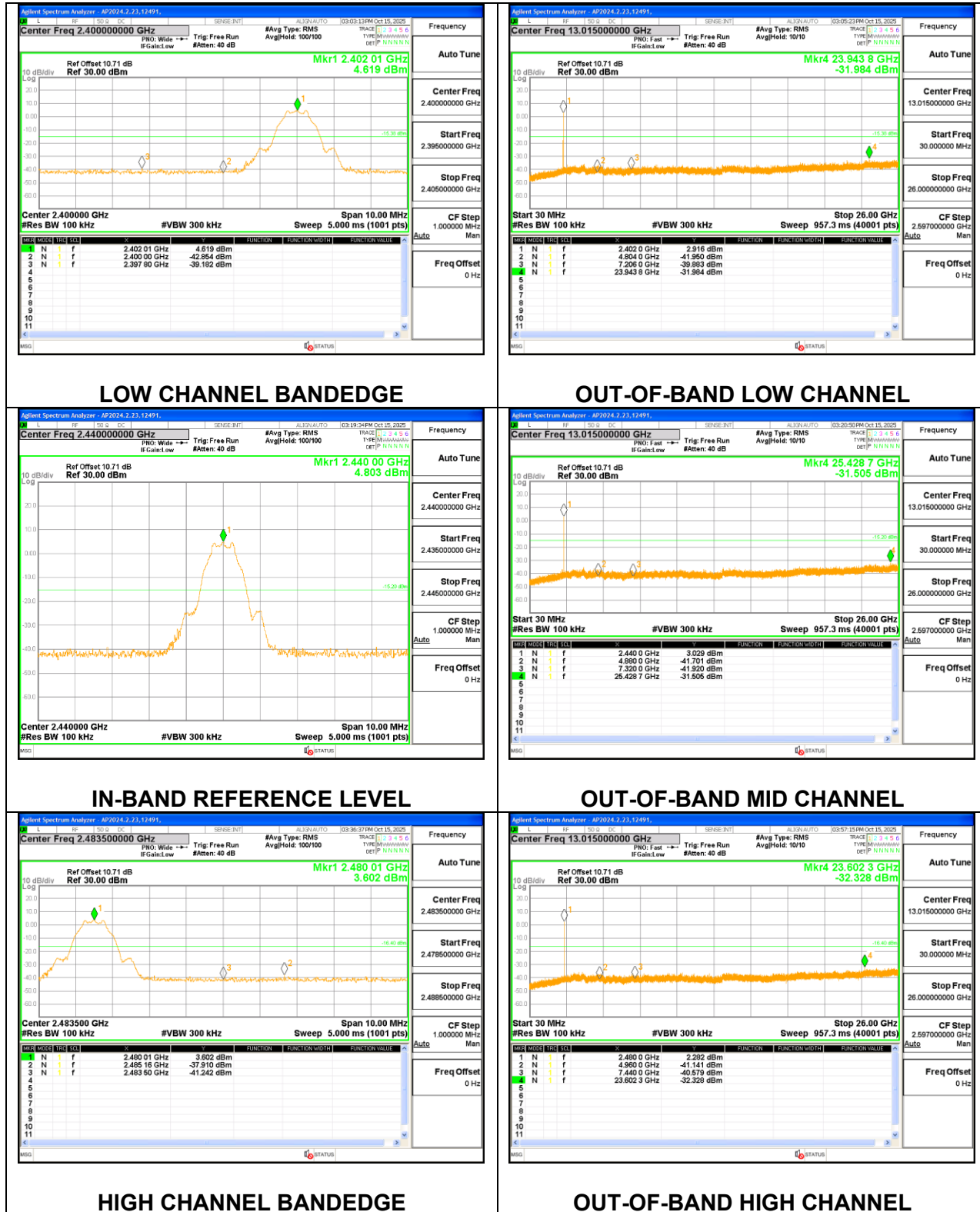
FCC §15.247 (d)

RSS-247 6.6

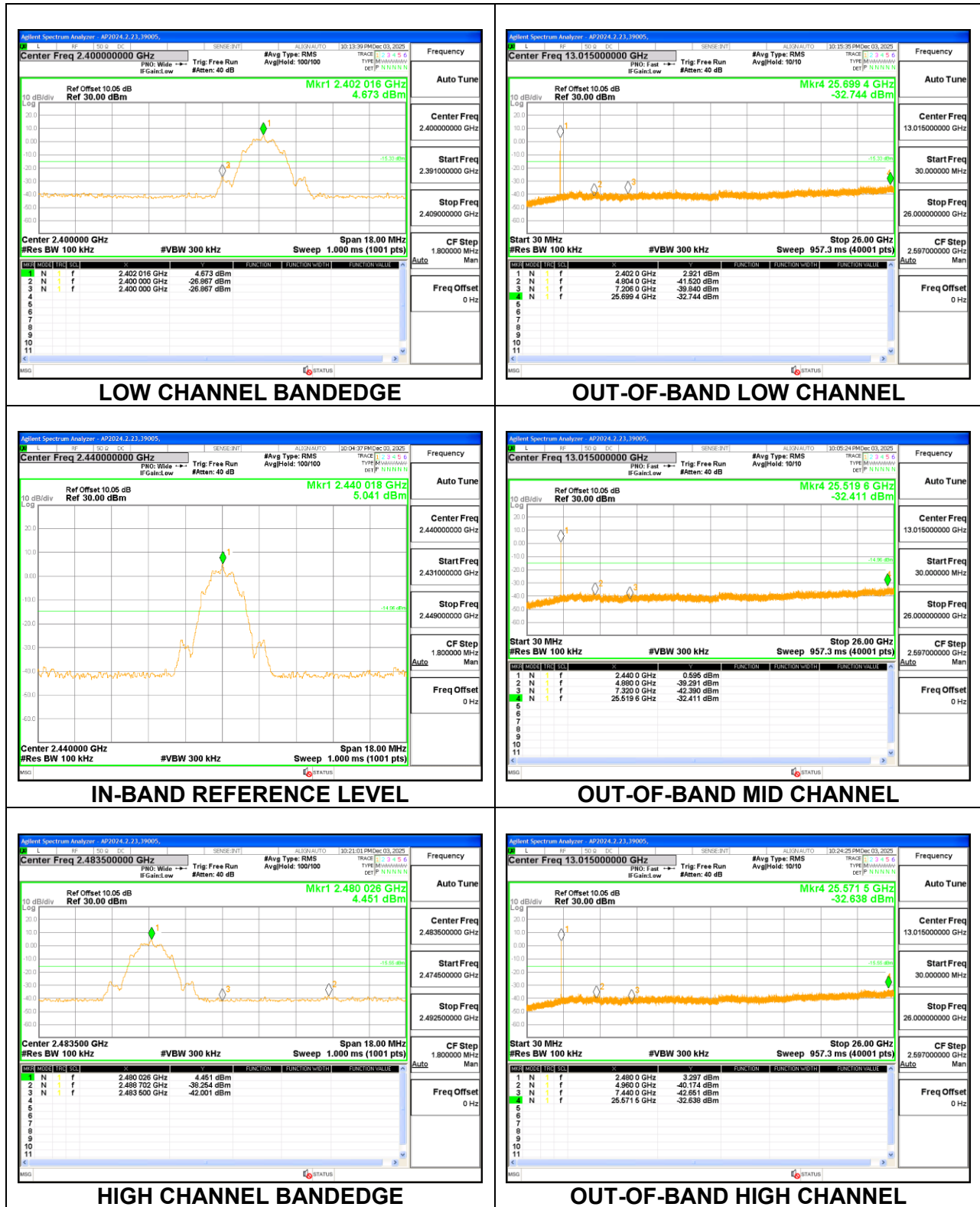
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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, Section 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 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, 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

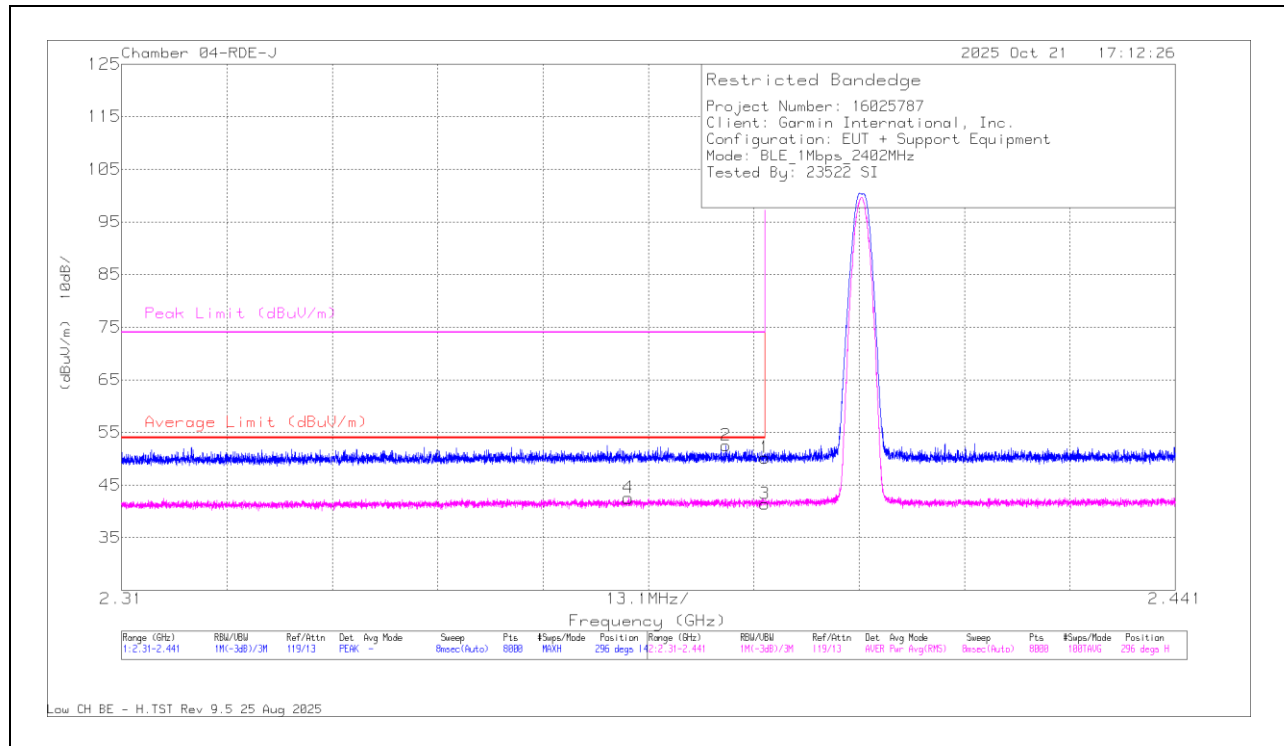
10.1.1. LOW BANDEDGE

2.4GHz (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/F ltr/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	55.09	Pk	32.2	-37.1	0	50.19	-	-	74	-23.81	296	142	H
		* 2.385138	57.45	Pk	32.2	-37.1	0	52.55	-	-	74	-21.45	296	142	H
		* 2.39	44.26	RMS	32.2	-37.1	2.06	41.42	54	-12.58	-	-	296	142	H
		* 2.373002	45.27	RMS	32.2	-37	2.06	42.53	54	-11.47	-	-	296	142	H
		* 2.39	55.51	Pk	32.2	-37.1	0	50.61	-	-	74	-23.39	57	101	V
		* 2.36542	57.68	Pk	32.1	-37.1	0	52.68	-	-	74	-21.32	57	101	V
		* 2.39	44.38	RMS	32.2	-37.1	2.06	41.54	54	-12.46	-	-	57	101	V
		* 2.359933	45.51	RMS	32.1	-37.1	2.06	42.57	54	-11.43	-	-	57	101	V
2Mbps	2402	* 2.39	55.55	Pk	32.2	-37.1	0	50.65	-	-	74	-23.35	177	306	H
		* 2.344818	57.18	Pk	32	-37.1	0	52.08	-	-	74	-21.92	177	306	H
		* 2.39	43.8	RMS	32.2	-37.1	4.5	43.4	54	-10.6	-	-	177	306	H
		* 2.372233	44.91	RMS	32.2	-37	4.5	44.61	54	-9.39	-	-	177	306	H
		* 2.39	54.46	Pk	32.2	-37.1	0	49.56	-	-	74	-24.44	122	309	V
		* 2.34901	57.21	Pk	32	-37.1	0	52.11	-	-	74	-21.89	122	309	V
		* 2.39	44.27	RMS	32.2	-37.1	4.5	43.87	54	-10.13	-	-	122	309	V
		* 2.385105	44.82	RMS	32.2	-37.1	4.5	44.42	54	-9.58	-	-	122	309	V

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE (LOW CHANNEL), 1Mbps**HORIZONTAL RESULT****Trace Markers**

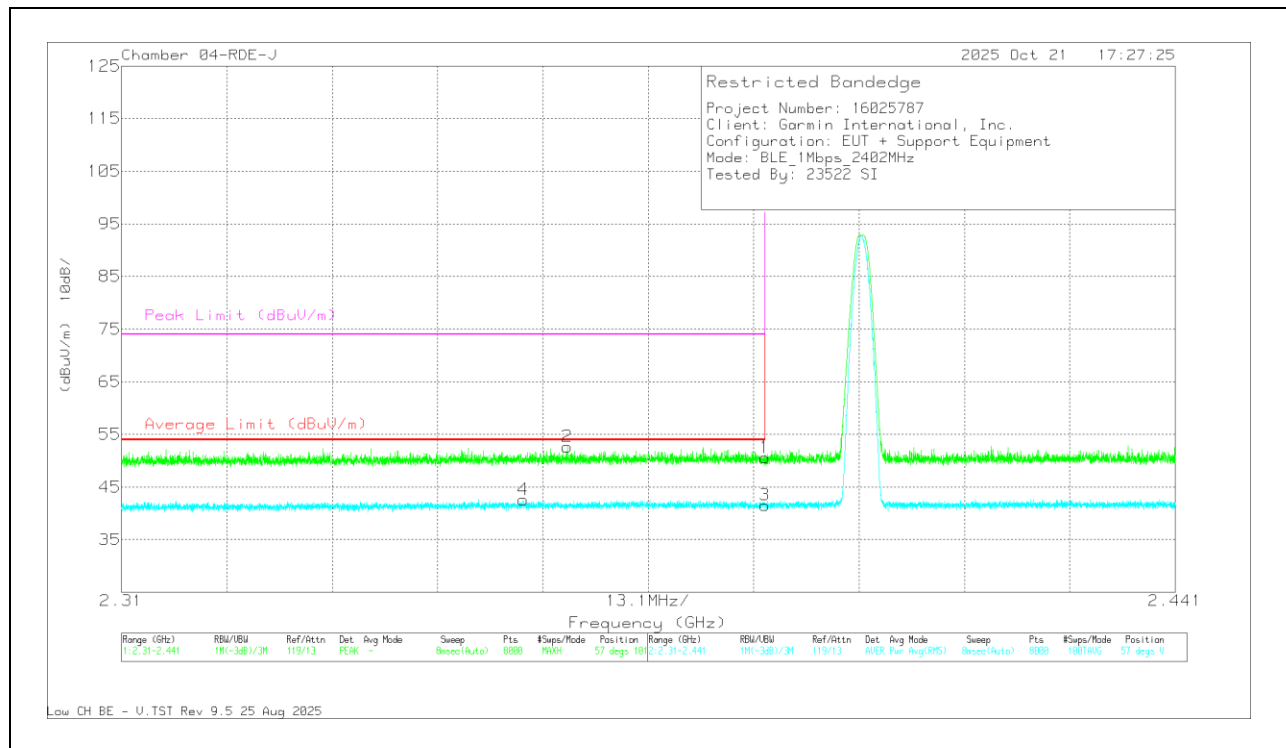
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	55.09	Pk	32.2	-37.1	0	50.19	-	-	74	-23.81	296	142	H
2	* 2.385138	57.45	Pk	32.2	-37.1	0	52.55	-	-	74	-21.45	296	142	H
3	* 2.39	44.26	RMS	32.2	-37.1	2.06	41.42	54	-12.58	-	-	296	142	H
4	* 2.373002	45.27	RMS	32.2	-37	2.06	42.53	54	-11.47	-	-	296	142	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	55.51	Pk	32.2	-37.1	0	50.61	-	-	74	-23.39	57	101	V
2	* 2.36542	57.68	Pk	32.1	-37.1	0	52.68	-	-	74	-21.32	57	101	V
3	* 2.39	44.38	RMS	32.2	-37.1	2.06	41.54	54	-12.46	-	-	57	101	V
4	* 2.359933	45.51	RMS	32.1	-37.1	2.06	42.57	54	-11.43	-	-	57	101	V

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

Pk - Peak detector

RMS - RMS detection

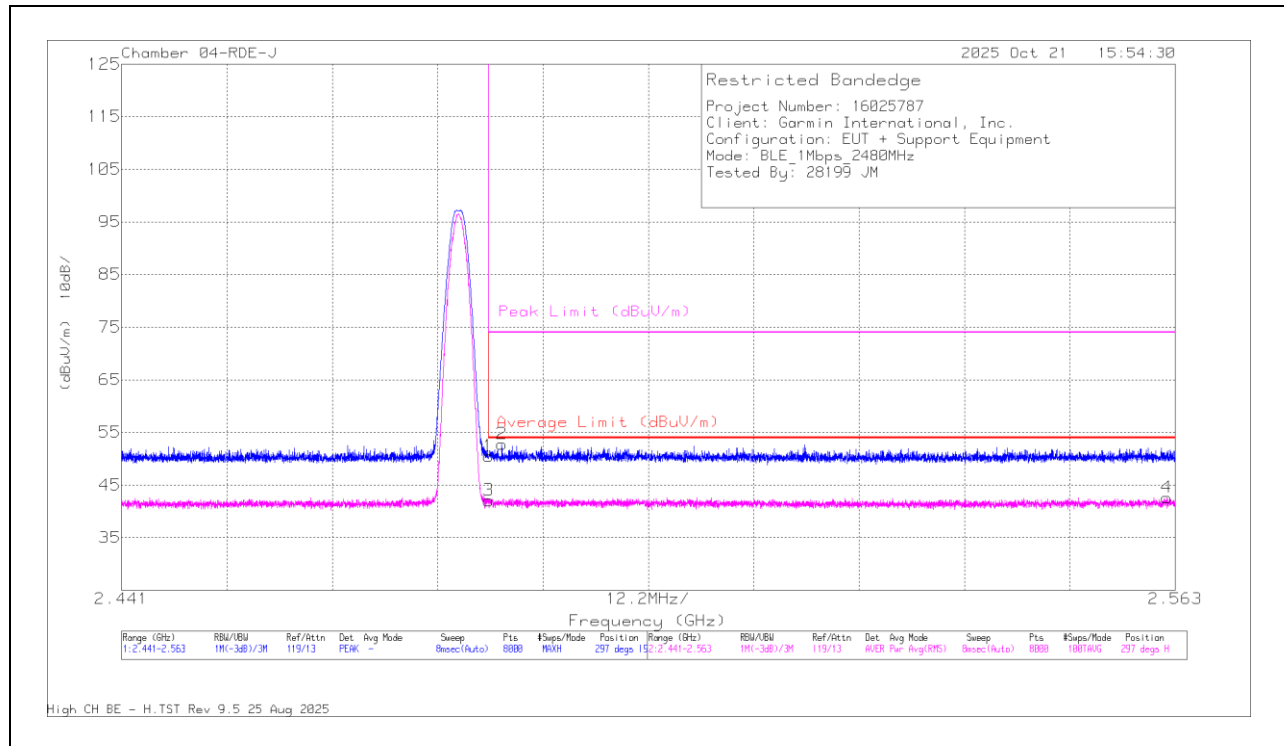
10.1.2. HIGH BANDEDGE

2.4GHz (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cbl/F ltr/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	54.98	Pk	32.4	-36.9	0	50.48	-	-	74	-23.52	297	197	H
		* 2.485033	57.28	Pk	32.4	-36.9	0	52.78	-	-	74	-21.22	297	197	H
		* 2.4835	44.5	RMS	32.4	-36.9	2.06	42.06	54	-11.94	-	-	297	197	H
		2.562025	44.78	RMS	32.6	-36.8	2.06	42.64	54	-11.36	-	-	297	197	H
		* 2.4835	55.68	Pk	32.4	-36.9	0	51.18	-	-	74	-22.82	329	310	V
		* 2.483767	57.82	Pk	32.4	-36.9	0	53.32	-	-	74	-20.68	329	310	V
		* 2.4835	44.28	RMS	32.4	-36.9	2.06	41.84	54	-12.16	-	-	329	310	V
		* 2.488342	45.12	RMS	32.5	-36.9	2.06	42.78	54	-11.22	-	-	329	310	V
2Mbps	2480	* 2.4835	56.18	Pk	32.4	-36.9	0	51.68	-	-	74	-22.32	173	282	H
		2.557358	56.62	Pk	32.6	-36.9	0	52.32	-	-	74	-21.68	173	282	H
		* 2.4835	44.16	RMS	32.4	-36.9	4.5	44.16	54	-9.84	-	-	173	282	H
		* 2.494962	44.43	RMS	32.5	-36.9	4.5	44.53	54	-9.47	-	-	173	282	H
		* 2.4835	54.82	Pk	32.4	-36.9	0	50.32	-	-	74	-23.68	134	391	V
		2.549762	57.1	Pk	32.6	-36.8	0	52.9	-	-	74	-21.1	134	391	V
		* 2.4835	43.86	RMS	32.4	-36.9	4.5	43.86	54	-10.14	-	-	134	391	V
		* 2.483919	44.88	RMS	32.4	-36.9	4.5	44.88	54	-9.12	-	-	134	391	V

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

Pk - Peak detector

RMS - RMS detection

BANDEGE (HIGH CHANNEL), 1Mbps**HORIZONTAL RESULT****Trace Markers**

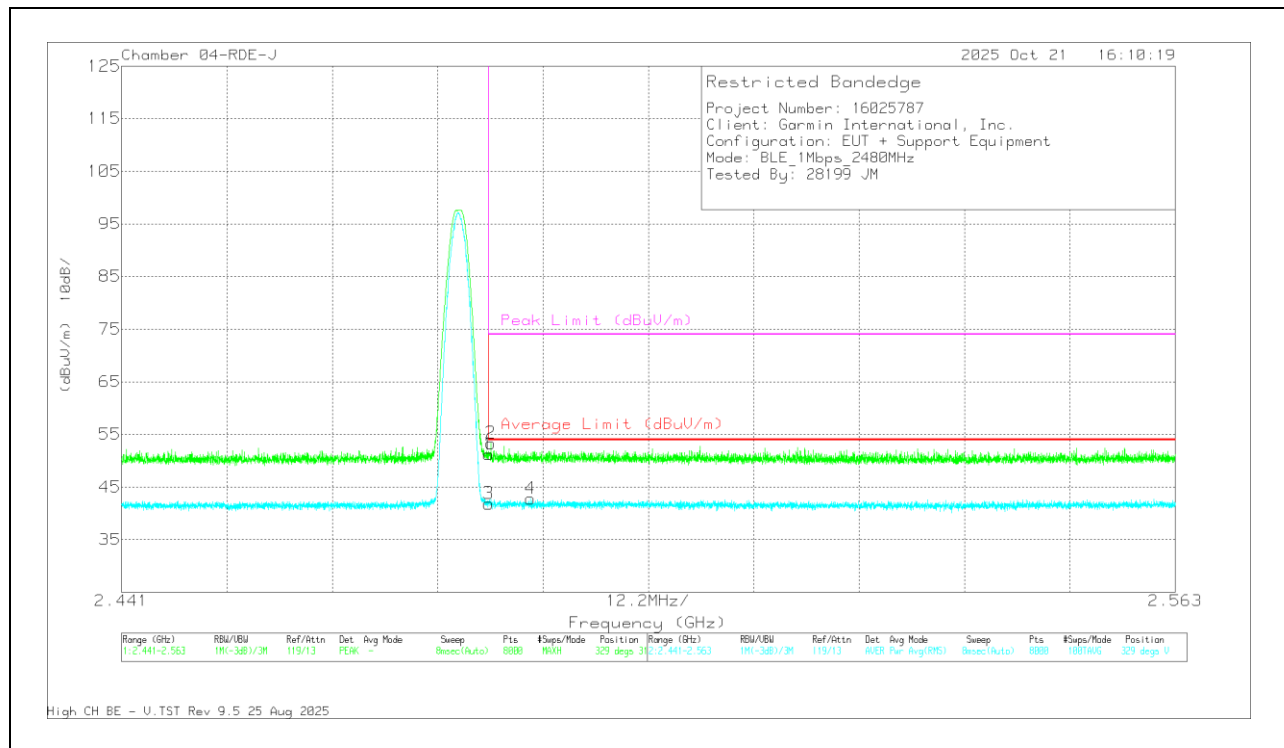
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	54.98	Pk	32.4	-36.9	0	50.48	-	-	74	-23.52	297	197	H
2	* 2.485033	57.28	Pk	32.4	-36.9	0	52.78	-	-	74	-21.22	297	197	H
3	* 2.4835	44.5	RMS	32.4	-36.9	2.06	42.06	54	-11.94	-	-	297	197	H
4	2.562025	44.78	RMS	32.6	-36.8	2.06	42.64	54	-11.36	-	-	297	197	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	55.68	Pk	32.4	-36.9	0	51.18	-	-	74	-22.82	329	310	V
2	* 2.483767	57.82	Pk	32.4	-36.9	0	53.32	-	-	74	-20.68	329	310	V
3	* 2.4835	44.28	RMS	32.4	-36.9	2.06	41.84	54	-12.16	-	-	329	310	V
4	* 2.488342	45.12	RMS	32.5	-36.9	2.06	42.78	54	-11.22	-	-	329	310	V

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

Pk - Peak detector

RMS - RMS detection

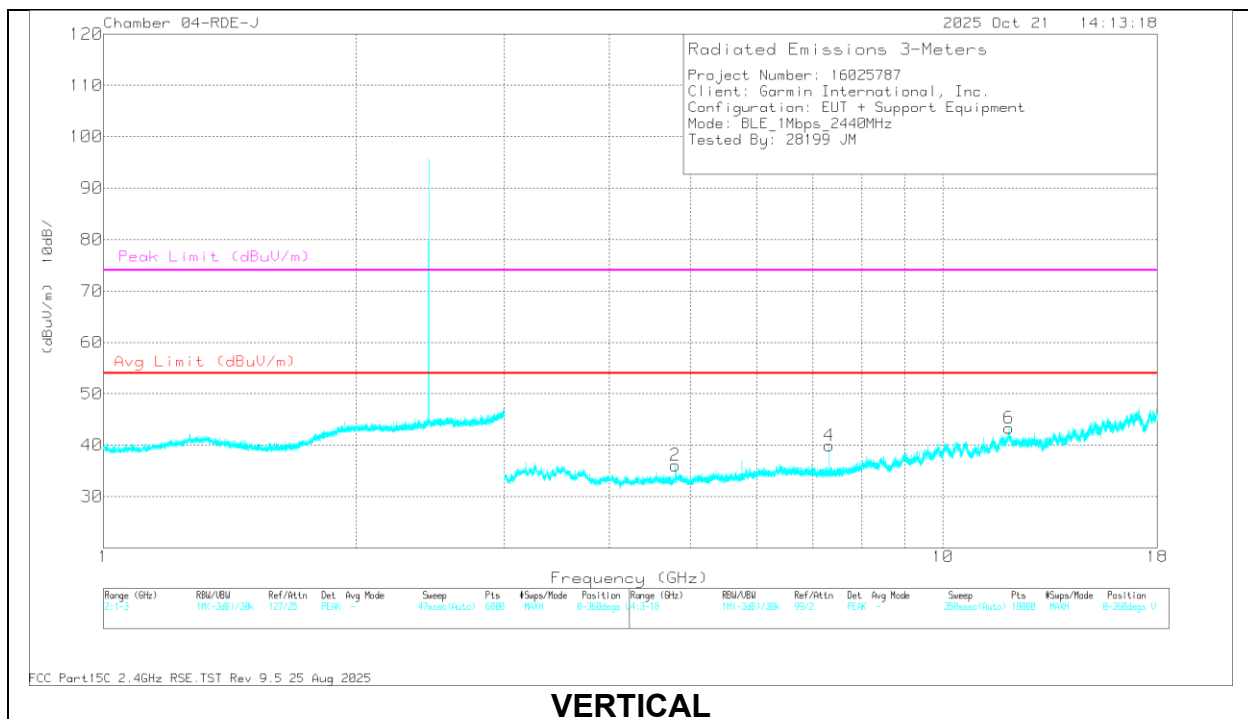
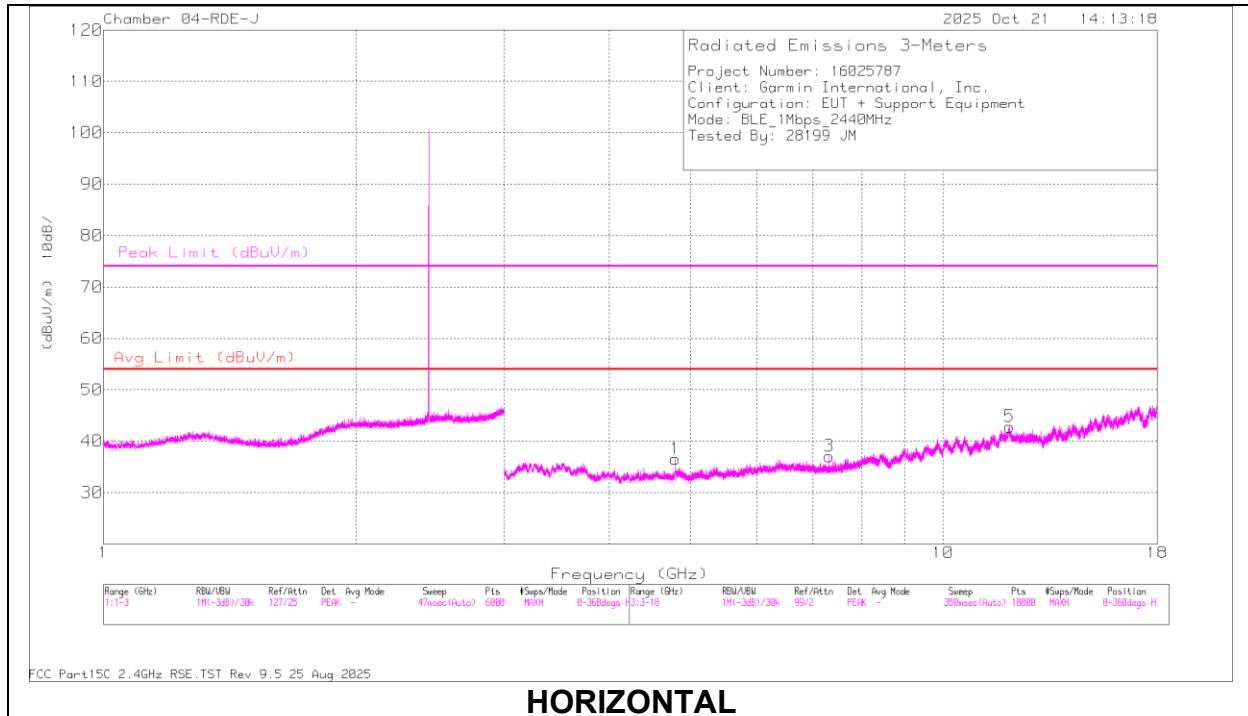
10.1.3. HARMONICS AND SPURIOUS EMISSIONS

2.4 GHz (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	* 4.799372	72.19	PK2	34.3	-45.4	0	61.09	-	-	74	-12.91	316	110	H
		* 4.798959	59.53	MAv1	34.3	-45.4	2.06	50.49	54	-3.51	-	-	316	110	H
		* 4.799001	66.8	PK2	34.3	-45.4	0	55.7	-	-	74	-18.3	173	146	V
		* 4.799152	51.86	MAv1	34.3	-45.4	2.06	42.82	54	-11.18	-	-	173	146	V
		7.206415	53.38	PK2	35.5	-42.6	0	46.28	-	-	-	-	239	216	H
		7.206546	54.41	PK2	35.5	-42.6	0	47.31	-	-	-	-	298	130	V
		9.566403	52.49	PK2	36.9	-40.5	0	48.89	-	-	-	-	173	125	H
		9.573678	53.17	PK2	36.9	-40.2	0	49.87	-	-	-	-	16	336	V
	2440	* 4.79936	67.87	PK2	34.3	-45.4	0	56.77	-	-	74	-17.23	92	102	H
		* 4.798884	53.51	MAv1	34.3	-45.4	2.06	44.47	54	-9.53	-	-	92	102	H
		* 4.798842	67.49	PK2	34.3	-45.4	0	56.39	-	-	74	-17.61	69	158	V
		* 4.799082	53.91	MAv1	34.3	-45.4	2.06	44.87	54	-9.13	-	-	69	158	V
		* 7.3206	54.05	PK2	35.5	-42.6	0	46.95	-	-	74	-27.05	349	109	H
		* 7.31944	43.32	MAv1	35.5	-42.6	2.06	38.28	54	-15.72	-	-	349	109	H
		* 7.319425	54.94	PK2	35.5	-42.6	0	47.84	-	-	74	-26.16	290	129	V
		* 7.319199	45.01	MAv1	35.5	-42.6	2.06	39.97	54	-14.03	-	-	290	129	V
		* 11.98564	51.91	PK2	39.7	-39.3	0	52.31	-	-	74	-21.69	239	140	H
		* 11.994657	40.03	MAv1	39.7	-39.3	2.06	42.49	54	-11.51	-	-	239	140	H
		* 11.966784	52.11	PK2	39.7	-39.9	0	51.91	-	-	74	-22.09	132	142	V
		* 12.003402	40.05	MAv1	39.7	-39.6	2.06	42.21	54	-11.79	-	-	132	142	V
	2480	* 4.798767	67.93	PK2	34.3	-45.4	0	56.83	-	-	74	-17.17	83	206	H
		* 4.798879	53.69	MAv1	34.3	-45.4	2.06	44.65	54	-9.35	-	-	83	206	H
		* 4.798554	67.76	PK2	34.3	-45.4	0	56.66	-	-	74	-17.34	72	186	V
		* 4.799141	54.1	MAv1	34.3	-45.4	2.06	45.06	54	-8.94	-	-	72	186	V
		* 7.439501	54.5	PK2	35.5	-42.3	0	47.7	-	-	74	-26.3	314	160	H
		* 7.440497	42.7	MAv1	35.5	-42.3	2.06	37.96	54	-16.04	-	-	314	160	H
		* 7.439999	53.01	PK2	35.5	-42.3	0	46.21	-	-	74	-27.79	289	119	V
		* 7.439336	42.23	MAv1	35.5	-42.3	2.06	37.49	54	-16.51	-	-	289	119	V
		* 11.468568	52.09	PK2	38.4	-39.4	0	51.09	-	-	74	-22.91	193	374	H
		* 11.476008	39.98	MAv1	38.4	-39.5	2.06	40.94	54	-13.06	-	-	193	374	H
		* 11.471109	52.13	PK2	38.4	-39.4	0	51.13	-	-	74	-22.87	108	204	V
		* 11.478371	40.04	MAv1	38.4	-39.6	2.06	40.9	54	-13.1	-	-	108	204	V
2Mbps	2402	* 11.969636	52.21	PK2	39.7	-39.8	0	52.11	-	-	74	-21.89	353	148	H
		* 11.970647	52.03	PK2	39.7	-39.7	0	52.03	-	-	74	-21.97	189	191	V
		* 11.97996	40.07	MAv1	39.7	-39.3	4.5	44.97	54	-9.03	-	-	353	148	H
		* 11.986923	40.26	MAv1	39.7	-39.3	4.5	45.16	54	-8.84	-	-	189	191	V
		* 4.798572	69.31	PK2	34.3	-45.4	0	58.21	-	-	74	-15.79	81	204	H
		* 4.798839	53.91	MAv1	34.3	-45.4	4.5	47.31	54	-6.69	-	-	5	212	V
		* 4.799053	67.62	PK2	34.3	-45.4	0	56.52	-	-	74	-17.48	5	212	V
		* 4.799256	56.8	MAv1	34.3	-45.4	4.5	50.2	54	-3.8	-	-	81	204	H
		* 8.437661	39.69	MAv1	36	-40.4	4.5	39.79	54	-14.21	-	-	258	214	H
		* 8.440224	39.51	MAv1	36	-40.4	4.5	39.61	54	-14.39	-	-	68	203	V
		* 8.440886	51.33	PK2	36	-40.4	0	46.93	-	-	74	-27.07	68	203	V
		* 8.449252	51.64	PK2	36	-40.3	0	47.34	-	-	74	-26.66	258	214	H
	2440	* 4.798862	68.33	PK2	34.3	-45.4	0	57.23	-	-	74	-16.77	13	197	H
		* 4.799253	53.75	MAv1	34.3	-45.4	4.5	47.15	54	-6.85	-	-	13	197	H
		* 12.003534	51.99	PK2	39.7	-39.6	0	52.09	-	-	74	-21.91	159	382	H
		* 11.981232	39.61	MAv1	39.7	-39.4	4.5	44.41	54	-9.59	-	-	159	382	H
		* 4.799698	65.44	PK2	34.3	-45.4	0	54.34	-	-	74	-19.66	169	126	V
		* 4.799147	51.22	MAv1	34.3	-45.4	4.5	44.62	54	-9.38	-	-	169	126	V
		* 11.987501	51.8	PK2	39.7	-39.3	0	52.2	-	-	74	-21.8	340	392	V
		* 11.985661	39.71	MAv1	39.7	-39.3	4.5	44.61	54	-9.39	-	-	340	392	V
		3.317774	54.72	PK2	34.6	-44.6	0	44.72	-	-	-	-	293	102	V
		3.319854	42.4	MAv1	34.6	-44.6	4.5	36.89	-	-	-	-	293	102	V
		3.323014	42.13	MAv1	34.6	-44.6	4.5	36.62	-	-	-	-	132	182	H
		3.323214	54.38	PK2	34.6	-44.6	0	44.38	-	-	-	-	132	182	H
	2480	* 4.79893	67.57	PK2	34.3	-45.4	0	56.47	-	-	74	-17.53	341	102	H
		* 4.799317	53.57	MAv1	34.3	-45.4	4.5	46.97	54	-7.03	-	-	341	102	H
		* 11.98912	51.55	PK2	39.7	-39.3	0	51.95	-	-	74	-22.05	14	115	H
		* 11.968285	40.04	MAv1	39.7	-39.8	4.5	44.44	54	-9.56	-	-	14	115	H
		* 4.799089	65.04	PK2	34.3	-45.4	0	53.94	-	-	74	-20.06	0	246	V
		* 4.798791	51.48	MAv1	34.3	-45.4	4.5	44.88	54	-9.12	-	-	0	246	V
		* 11.983579	51.73	PK2	39.7	-39.3	0	52.13	-	-	74	-21.87	16	130	V
		* 11.986721	40.05	MAv1	39.7	-39.3	4.5	44.95	54	-9.05	-	-	16	130	V
		3.269373	43.66	MAv1	34.9	-44.9	4.5	38.16	-	-	-	-	204	101	V
		3.271232	55.47	PK2	34.9	-44.9	0	45.47	-	-	-	-	14	101	H
		3.274174	43.6	MAv1	34.8	-44.9	4.5	38	-	-	-	-	14	101	H
		3.274639	55.23	PK2	34.8	-44.9	0	45.13	-	-	-	-	204	101	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL), 1Mbps

Radiate Emissions Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Fitr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.79936	67.87	PK2	34.3	-45.4	0	56.77	-	-	74	-17.23	92	102	H
	* 4.79884	53.51	MAv1	34.3	-45.4	2.06	44.47	54	-9.53	-	-	92	102	H
2	* 4.798842	67.49	PK2	34.3	-45.4	0	56.39	-	-	74	-17.61	69	158	V
	* 4.799082	53.91	MAv1	34.3	-45.4	2.06	44.87	54	-9.13	-	-	69	158	V
3	* 7.3206	54.05	PK2	35.5	-42.6	0	46.95	-	-	74	-27.05	349	109	H
	* 7.31944	43.32	MAv1	35.5	-42.6	2.06	38.28	54	-15.72	-	-	349	109	H
4	* 7.319425	54.94	PK2	35.5	-42.6	0	47.84	-	-	74	-26.16	290	129	V
	* 7.319199	45.01	MAv1	35.5	-42.6	2.06	39.97	54	-14.03	-	-	290	129	V
5	* 11.98564	51.91	PK2	39.7	-39.3	0	52.31	-	-	74	-21.69	239	140	H
	* 11.994657	40.03	MAv1	39.7	-39.3	2.06	42.49	54	-11.51	-	-	239	140	H
6	* 11.966784	52.11	PK2	39.7	-39.9	0	51.91	-	-	74	-22.09	132	142	V
	* 12.003402	40.05	MAv1	39.7	-39.6	2.06	42.21	54	-11.79	-	-	132	142	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.2. TRANSMITTER WORST CASE BELOW 30MHz

SPURIOUS EMISSIONS BELOW 30MHz (WORST-CASE CONFIGURATION)



Below 30MHz Data

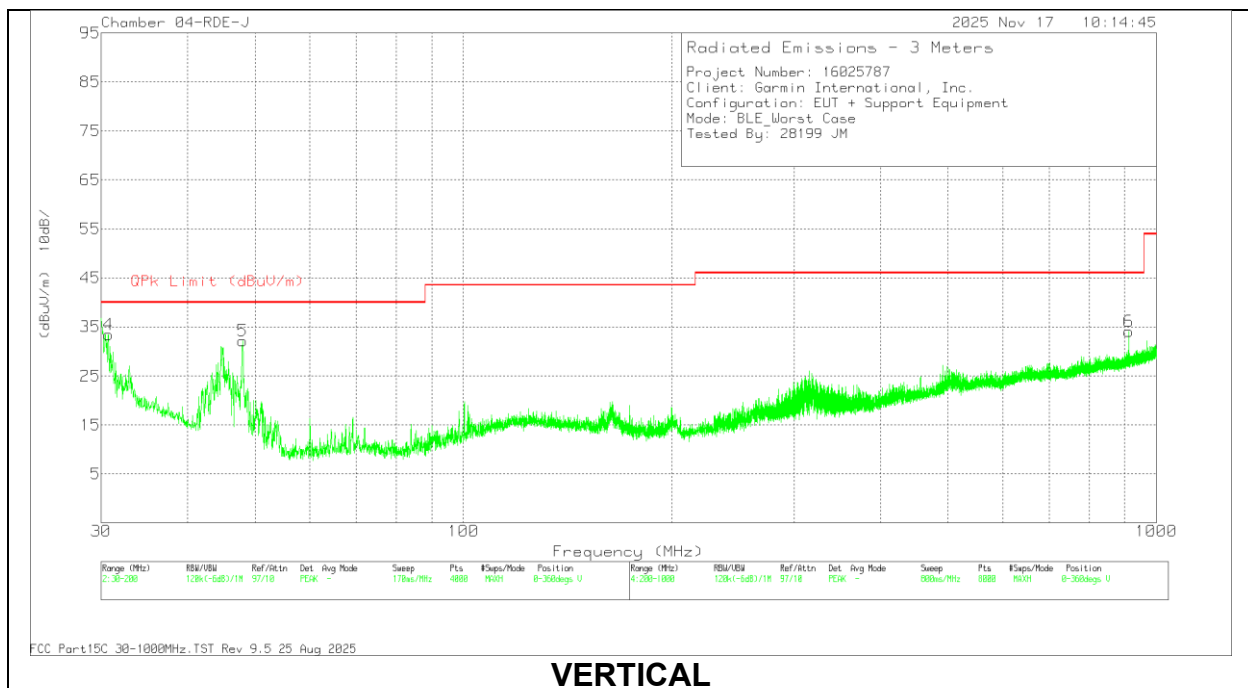
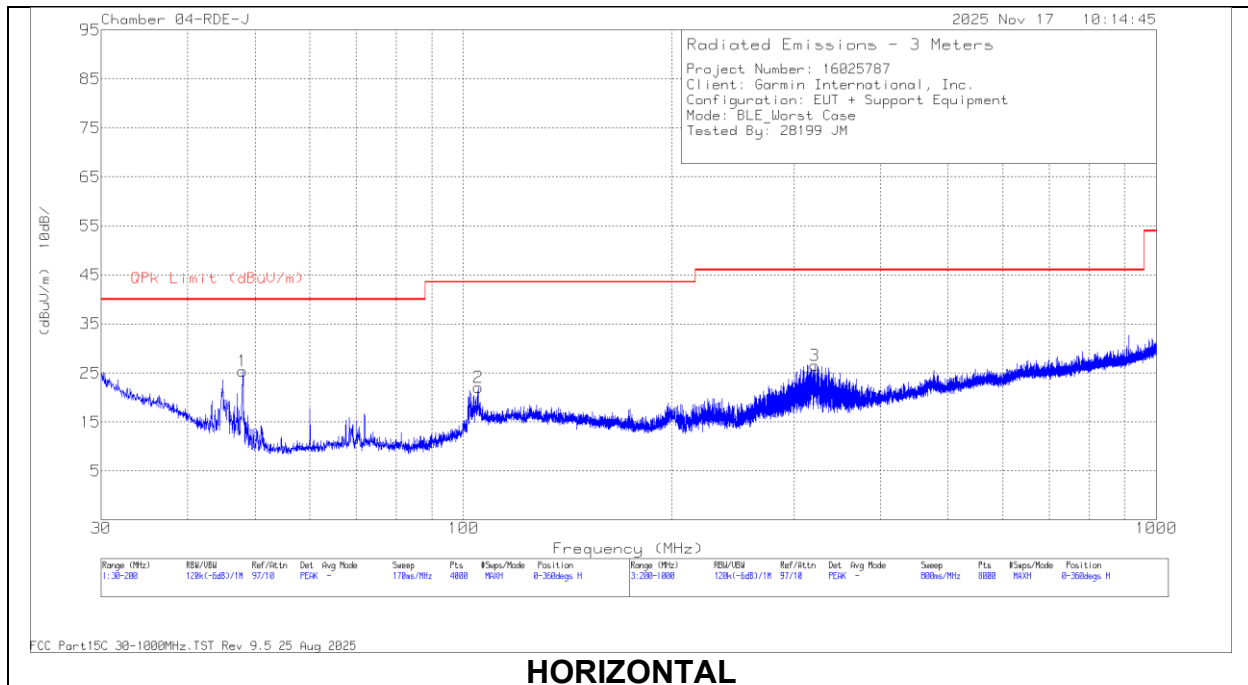
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dBm)	CBL/AMP (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.0121	22.92	Pk	60.1	-30.4	-80	-27.38	65.92	-93.3	45.92	-73.3	-	-	-	-	0-360
2	.0255	10.43	Pk	58.5	-31.7	-80	-42.77	59.45	-102.22	39.45	-82.22	-	-	-	-	0-360
3	.0512	-1.02	Pk	57	-31.7	-80	-55.72	53.4	-109.12	33.4	-89.12	-	-	-	-	0-360
6	.0122	19.21	Pk	60.1	-30.4	-80	-31.09	65.87	-96.96	45.87	-76.96	-	-	-	-	0-360
7	.0254	10	Pk	58.5	-31.7	-80	-43.2	59.5	-102.7	39.5	-82.7	-	-	-	-	0-360
8	.0509	2.19	Pk	57.1	-31.7	-80	-52.41	53.45	-105.86	33.45	-85.86	-	-	-	-	0-360
9	.1688	14.96	Pk	56.1	-32.5	-80	-41.44	-	-	-	-	43.07	-84.51	23.07	-64.51	0-360

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dBm)	CBL/AMP (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	.7153	12.46	Pk	56.4	-32.4	-40	-3.54	30.52	-34.06	0-360
5	24.5891	17.59	Pk	33.3	-31.5	-40	-20.61	29.5	-50.11	0-360
10	27.0739	19.6	Pk	33.2	-31.4	-40	-18.6	29.5	-48.1	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

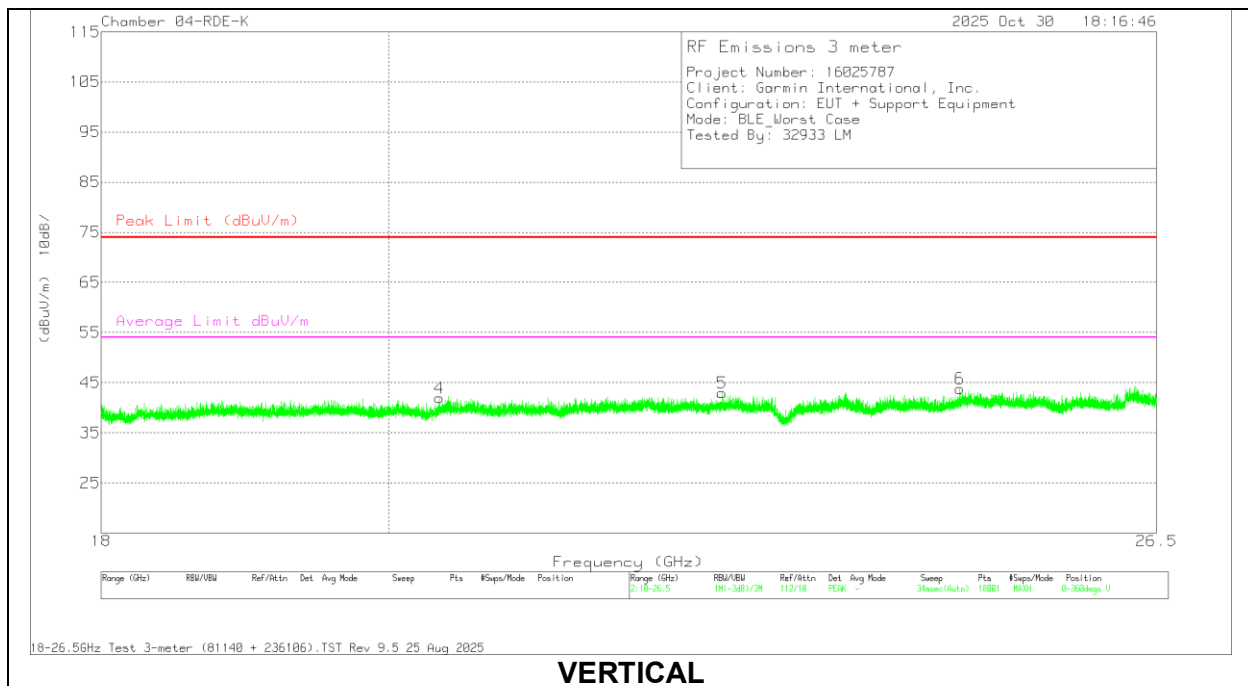
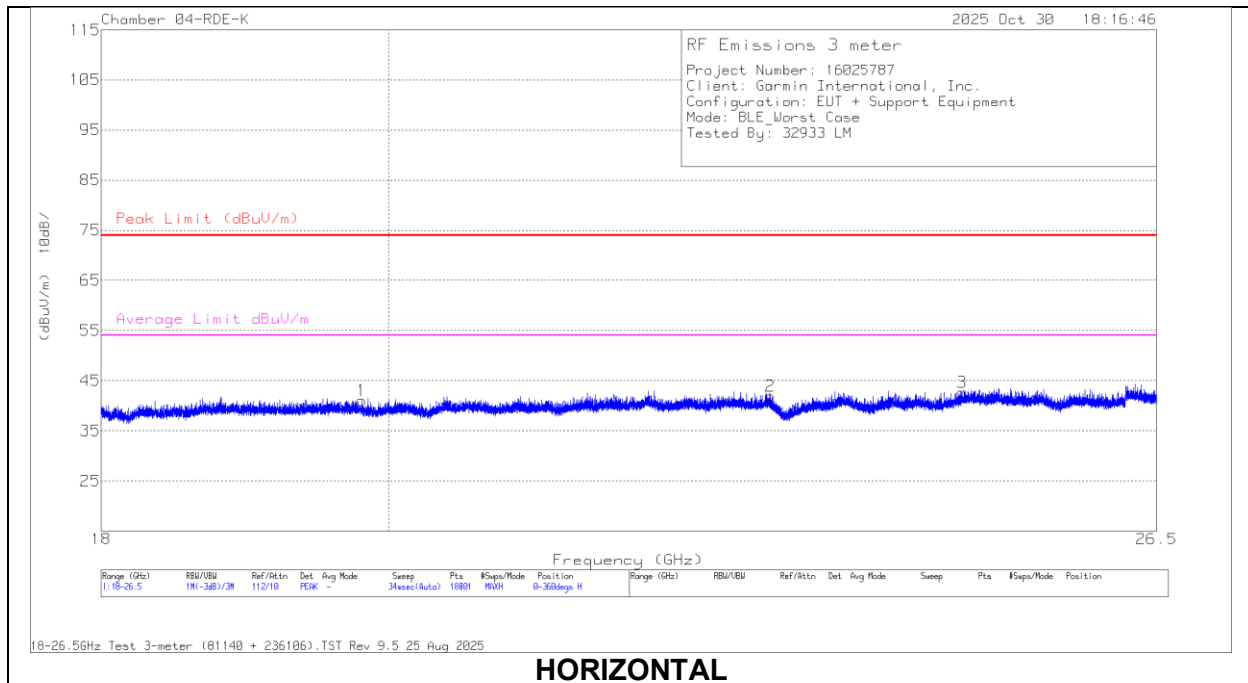
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202329 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	48.0247	42.56	Pk	14.4	-31.6	25.36	40	-14.64	0-360	398	H
2	104.989	35.8	Pk	17.5	-31.2	22.1	43.52	-21.42	0-360	298	H
3	321.416	36.95	Pk	19.8	-30.2	26.55	46.02	-19.47	0-360	99	H
4	30.0281	34.06	Qp	26.7	-31.8	28.96	40	-11.04	139	151	V
5	48.0247	49.37	Pk	14.4	-31.6	32.17	40	-7.83	0-360	100	V
6	913.093	33.76	Pk	28	-27.7	34.06	46.02	-11.96	0-360	99	V

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	* 19.804832	50.99	Pk	32.4	-62.4	20	40.99	74	-33.01	-	-	0-360	200	H
2	* 23.002248	49.36	Pk	33.2	-62.1	21.5	41.96	74	-32.04	-	-	0-360	200	H
3	24.679108	49.99	Pk	33.7	-63.1	22.1	42.69	74	-31.31	-	-	0-360	101	H
4	* 20.374332	50.36	Pk	32.6	-61.3	20.3	41.96	74	-32.04	-	-	0-360	200	V
5	* 22.598026	50.76	Pk	33	-62.1	21.3	42.96	74	-31.04	-	-	0-360	200	V
6	24.65833	51.18	Pk	33.7	-63.2	22.1	43.78	74	-30.22	-	-	0-360	200	V

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

PK - Peak detector

11. SETUP PHOTOS

Please refer to 16025787-EP1 for setup photos.

END OF REPORT