

TEST REPORT

Report Number: 16025792-E3V2

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-210 ISSUE 11
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:

2026-01-09

Prepared by:

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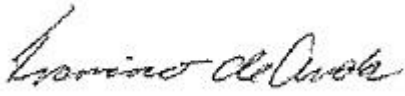
REPORT REVISION HISTORY

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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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	2025-10-20 to 2025-10-30		
Applicable Standards	FCC 47 CFR Part 15 Subpart C ISED RSS-210 Issue 11 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.		Zach Sutton Lab 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
20dB BW / 99% OBW	-	RSS-GEN 6.7	Complies
Radiated Emissions	15.249 (a) (c)	RSS-GEN 8.9, 8.10 and RSS-210 Annex B.10(a)	Complies
AC Mains Conducted Emissions	15.207	RSS-Gen 8.8	Not applicable. EUT 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 414788 D01 Radiated Test Site
- RSS-GEN Issue 5 + A1 + A2
- RSS-210 Issue 11

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}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Time Domain Measurements	3.39%
Occupied Bandwidth	1.22 %
Temperature	±0.57 %
Relative Humidity	3.39 %
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 fundamental peak and average E-field strength output powers as follows:

Frequency Range (MHz)	Mode	Peak E-field Strength (dBuV/m)	Avg E-field Strength (dBuV/m)	Distance (m)
2402 - 2480	ANT/ANT+	93.93	76.21	3.00

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.

6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz and 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.

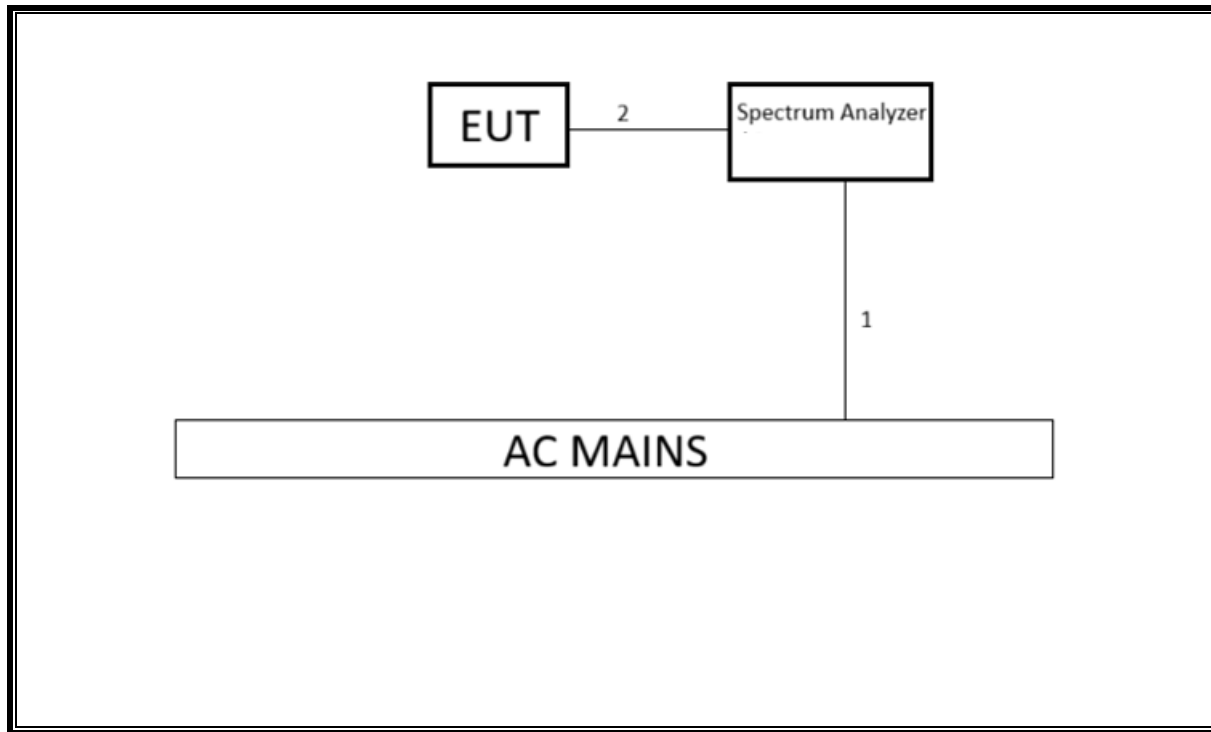
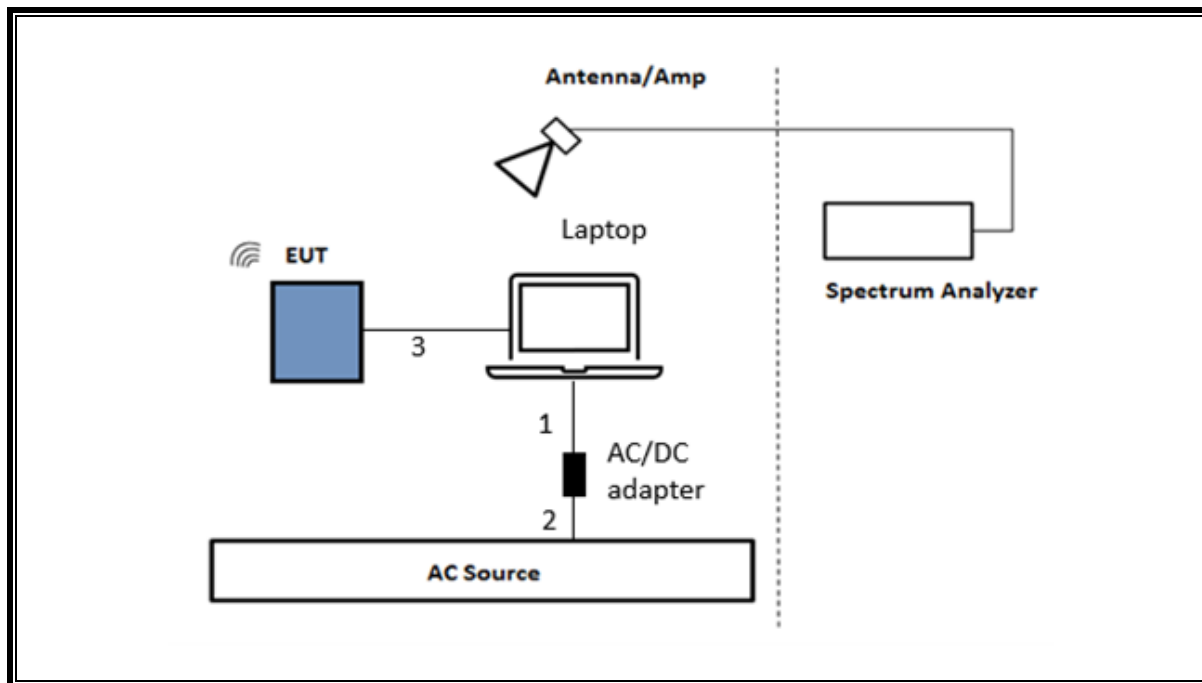
Plots included in the report are representative of the method and settings parameters used for the test.

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
2	Antenna	1	SMA	Shielded	0.1	EUT to coupler to Analyzer to EUT
I/O CABLES (RF RADIATED)						
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	N/A

TEST SETUP

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

SETUP DIAGRAM FOR CONDUCTED TESTS**SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz**

7. MEASUREMENT METHOD

Test Item	Test Method
On Time and Duty Cycle	ANSI C63.10 Section 11.6
20 dB BW	ANSI C63.10 Subclause 6.9.2
99% BW	ANSI C63.10, Subclause 6.9.3.
Radiated emissions 30-1000MHz	ANSI C63.10 Subclause 6.3, 6.5
Radiated emissions above 1GHz	ANSI C63.10 Subclause 6.3, 6.6
Radiated Spurious Emissions Below 30MHz	ANSI C63.10 Subclause 6.4
Band-edge	ANSI C63.10 Subclause 6.10.5

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

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

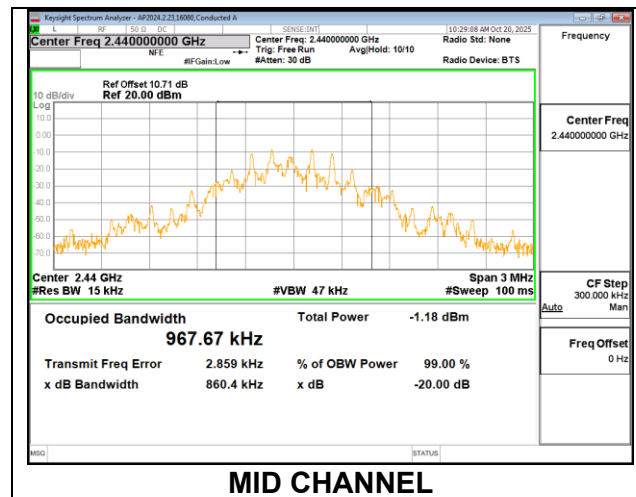
Note: DCCF is based on the manufacturer's declared duty cycle of 13%, $20\log(0.13) = -17.72\text{dB}$.

9.2. 99% BANDWIDTH LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	0.97373
Middle	2440	0.96767
High	2480	0.97030



9.3. 20dB BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to 1% to 5% of the 20 dB bandwidth. The VBW is set to approximately three times RBW. The sweep time is coupled

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	0.930
Middle	2440	0.930
High	2480	0.927



10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

ISED 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

FCC §15.249

RSS-210 Annex B.10.

Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHz, and 24.0–24.25 GHz.

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental Limit (millivolts/meter) at 3 m	Field strength of harmonics Limit (microvolts/meter) at 3 m
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

(e) As shown in Sec. 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

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 average measurements were calculated: $AVG = \text{Peak Reading} + \text{Duty Cycle Correction Factor}$

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 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.

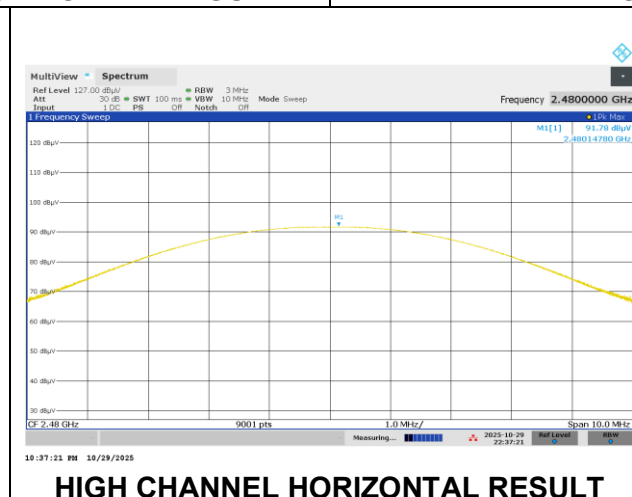
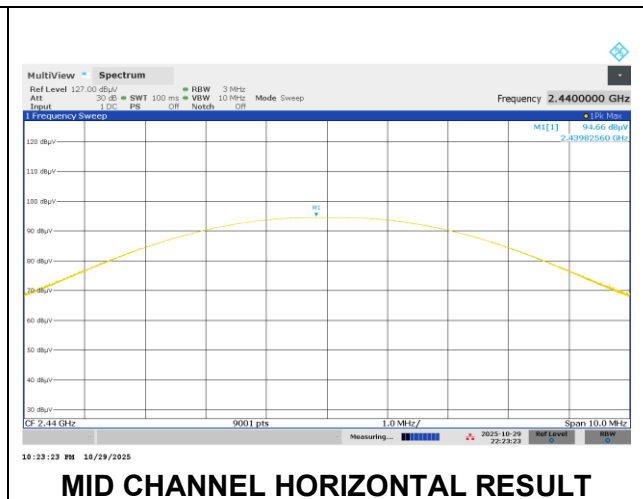
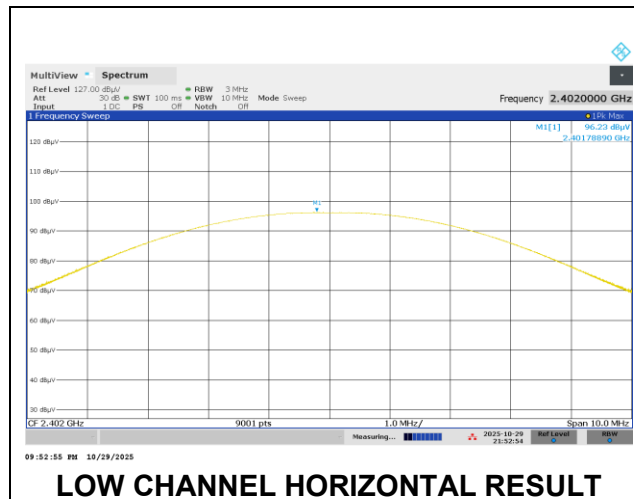
10.1. FUNDAMENTAL FREQUENCY RADIATED EMISSION

Frequency (GHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (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
2402	95.37	Pk	32.3	-34.6	0	93.07	-	-	114	-20.93	271	274	V
	95.37	Avg	32.3	-34.6	-17.72	75.35	94	-18.65	-	-	271	274	V
	96.23	Pk	32.3	-34.6	0	93.93	-	-	114	-20.07	37	321	H
	96.23	Avg	32.3	-34.6	-17.72	76.21	94	-17.79	-	-	37	321	H
2440	93.58	Pk	32.4	-34.4	0	91.58	-	-	114	-22.42	279	328	V
	93.58	Avg	32.4	-34.4	-17.72	73.86	94	-20.14	-	-	279	328	V
	94.66	Pk	32.4	-34.4	0	92.66	-	-	114	-21.34	35	248	H
	94.66	Avg	32.4	-34.4	-17.72	74.94	94	-19.06	-	-	35	248	H
2480	91.78	Pk	32.6	-34.3	0	90.08	-	-	114	-23.92	244	292	H
	91.78	Avg	32.6	-34.3	-17.72	72.36	94	-	-	-	244	292	H
	93.20	Pk	32.6	-34.3	0	91.5	-	-	114	-22.5	58	304	V
	93.20	Avg	32.6	-34.3	-17.72	73.78	94	-20.22	-	-	58	304	V

PK - Peak detector

AVG = Measured Peak Reading + Duty Cycle Correction Factor

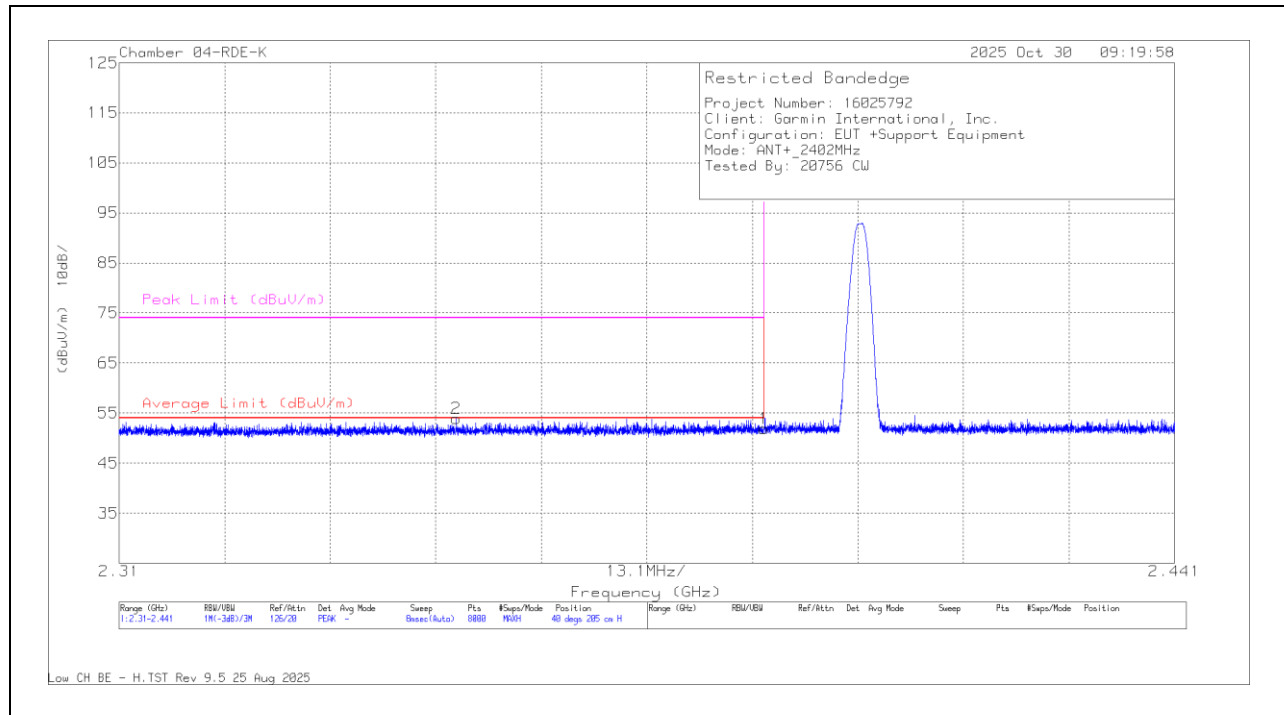
Duty Cycle Correction Factor = -17.72dB



10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	206808 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	54.16	Pk	32.3	-34.6	0	51.86	-	-	74	-22.14	40	205	H
	* 2.39	54.16	Avg	32.3	-34.6	-17.72	34.14	54	-19.86	-	-	40	205	H
2	* 2.351827	56.61	Pk	32.1	-34.8	0	53.91	-	-	74	-20.09	40	205	H
	* 2.351827	56.61	Avg	32.1	-34.8	-17.72	36.19	54	-17.81	-	-	40	205	H

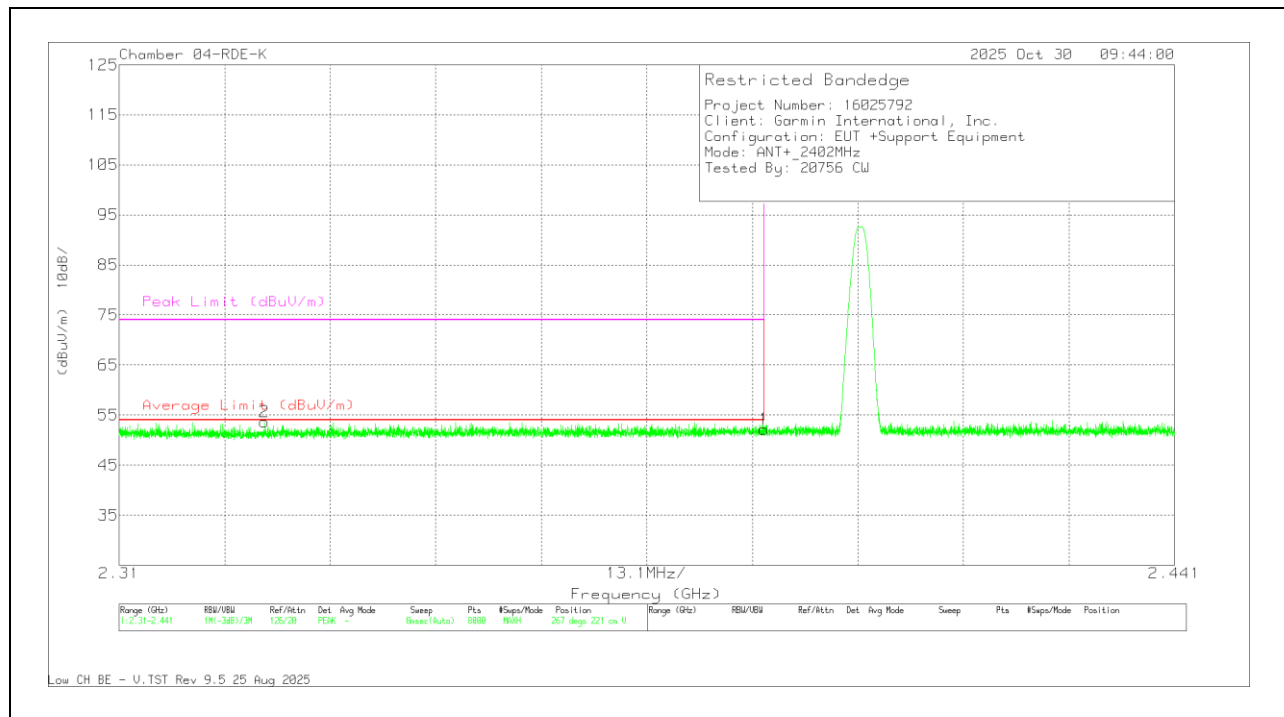
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

AVG = Measured Peak Reading + Duty Cycle Correction Factor

Duty Cycle Correction Factor = -17.72dB

VERTICAL RESULT



Trace Markers

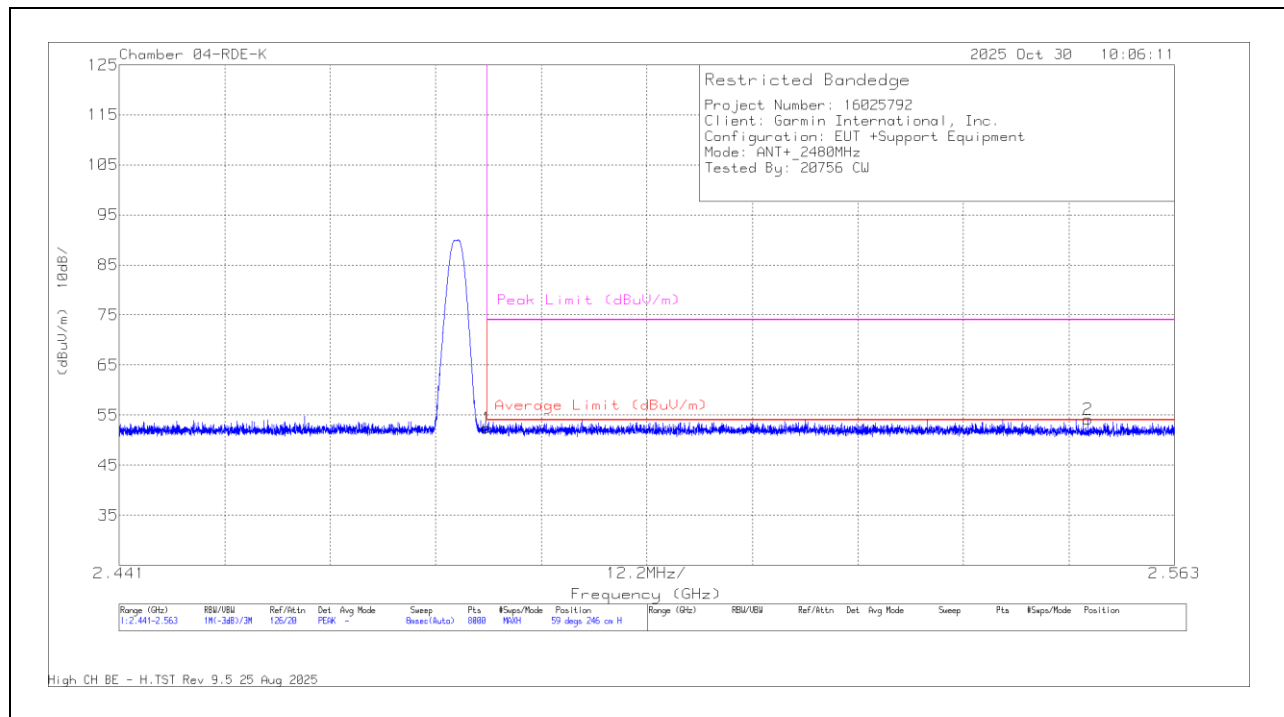
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	54.41	Pk	32.3	-34.6	0	52.11	-	-	74	-21.89	267	221	V
	* 2.39	54.41	Avg	32.3	-34.6	-17.72	34.39	54	-19.61	-	-	267	221	V
2	* 2.328047	56.59	Pk	32	-34.9	0	53.69	-	-	74	-20.31	267	221	V
	* 2.328047	56.59	Avg	32	-34.9	-17.72	35.97	54	-18.03	-	-	267	221	V

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

PK - Peak detector

AVG = Measured Peak Reading + Duty Cycle Correction Factor

Duty Cycle Correction Factor = -17.72dB

10.2.2. BANEDGE (HIGH CHANNEL)**HORIZONTAL RESULT****Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206808 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	54.06	PK	32.6	-34.2	0	52.46	-	-	74	-21.54	59	246	H
	* 2.4835	54.06	Avg	32.6	-34.2	-17.72	34.74	54	-19.26	-	-	59	246	H
2	2.552995	55.72	PK	32.4	-34	0	54.12	-	-	74	-19.88	59	246	H
	2.552995	55.72	Avg	32.4	-34	-17.72	36.4	54	-17.6	-	-	59	246	H

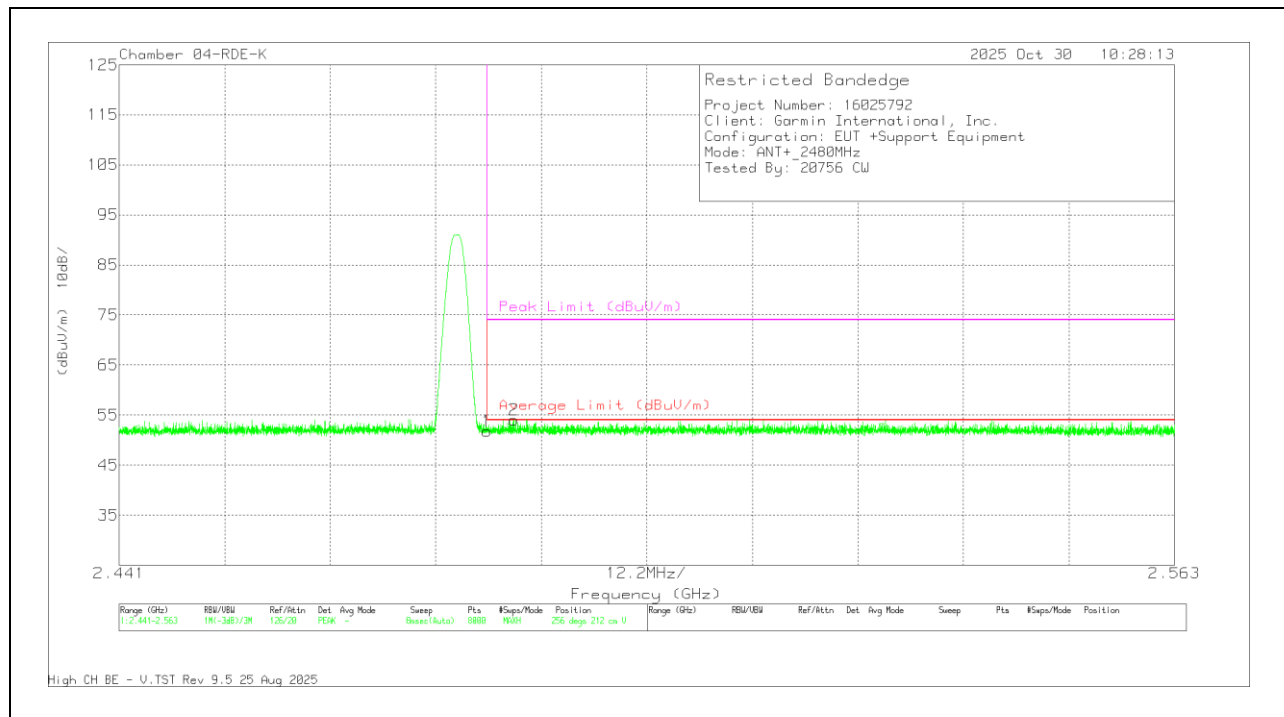
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

AVG = Measured Peak Reading + Duty Cycle Correction Factor

Duty Cycle Correction Factor = -17.72dB

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206808 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	53.36	Pk	32.6	-34.2	0	51.76	-	-	74	-22.24	256	212	V
	* 2.4835	53.36	Avg	32.6	-34.2	-17.72	34.04	54	-19.96	-	-	256	212	V
2	* 2.486603	55.67	Pk	32.6	-34.2	0	54.07	-	-	74	-19.93	256	212	V
	* 2.486603	55.67	Avg	32.6	-34.2	-17.72	36.35	54	-17.65	-	-	256	212	V

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

PK - Peak detector

AVG = Measured Peak Reading + Duty Cycle Correction Factor

Duty Cycle Correction Factor = -17.72dB

10.2.3. HARMONICS AND SPURIOUS EMISSIONS

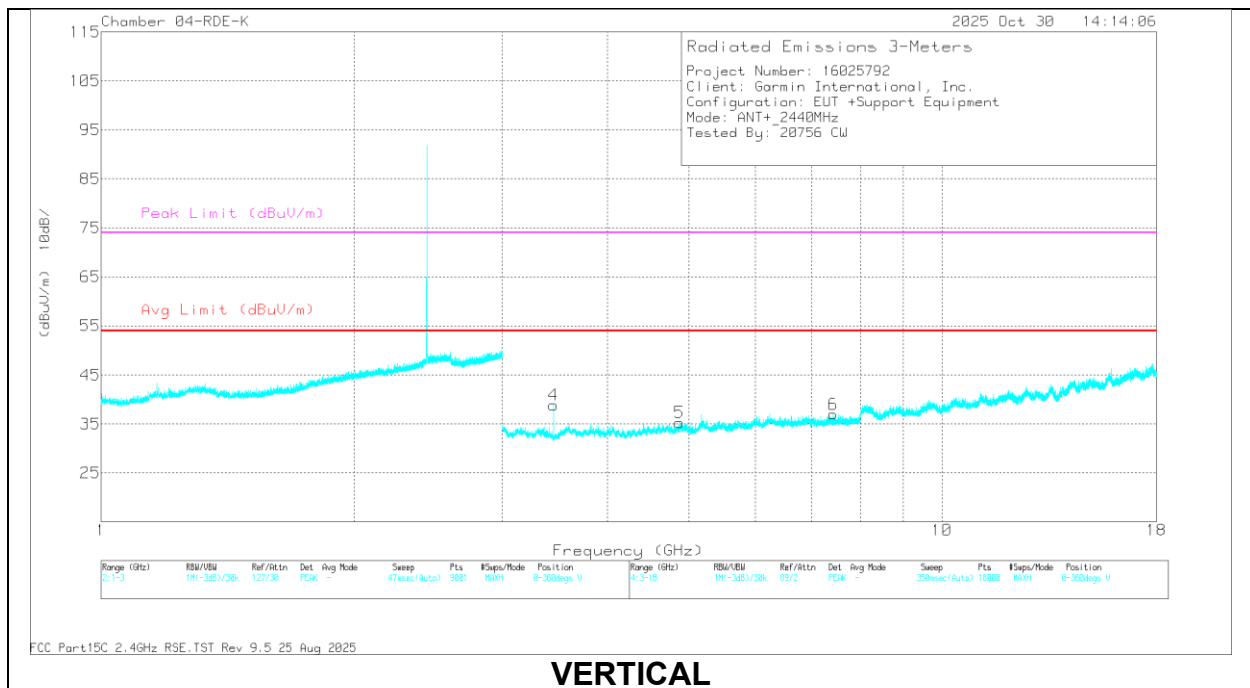
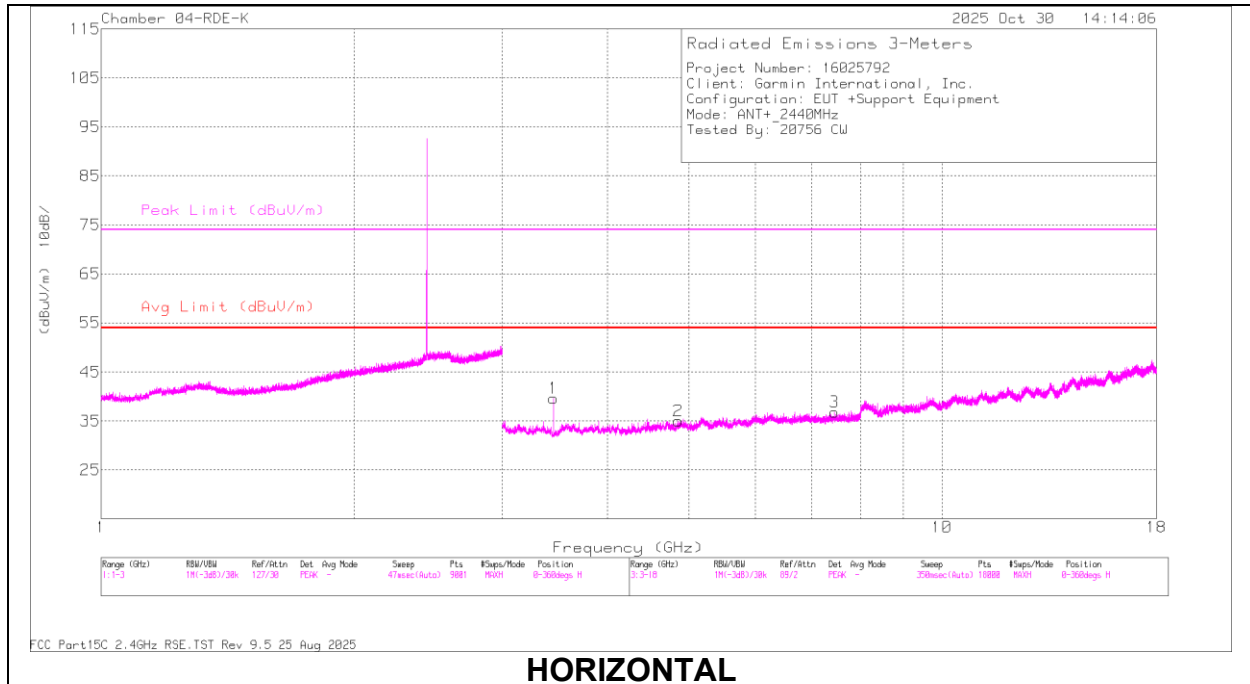
2.4 GHz (SISO)	Channel Frequency (MHz)	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	Amp/Cb/ Fitr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
ANT/ANT+	2402	* 4.779886	50.41	PK2	34.2	-40.5	0	44.11	-	-	74	-29.89	342	249	H
		* 4.779886	50.41	Avg	34.2	-40.5	-17.72	26.39	54	-27.61	-	-	342	249	H
		* 7.572915	49.21	PK2	35.7	-37.7	0	47.21	-	-	74	-26.79	309	349	H
		* 7.572915	49.21	Avg	35.7	-37.7	-17.72	29.49	54	-24.51	-	-	309	349	H
		* 4.79946	55.41	PK2	34.2	-40.3	0	49.31	-	-	74	-24.69	190	239	V
		* 4.79946	55.41	Avg	34.2	-40.3	-17.72	31.59	54	-22.41	-	-	190	239	V
		* 11.688438	47.53	PK2	38.4	-35.2	0	50.73	-	-	74	-23.27	350	294	V
		* 11.688438	47.53	Avg	38.4	-35.2	-17.72	33.01	54	-20.99	-	-	350	294	V
		3.453298	57.14	PK2	32.7	-41.6	0	48.24	-	-	-	-	25	222	H
		3.453459	55.21	PK2	32.7	-41.6	0	46.31	-	-	-	-	219	188	V
	2440	* 4.878465	51.05	PK2	34.1	-40.2	0	44.95	-	-	74	-29.05	205	331	H
		* 4.878465	51.05	Avg	34.1	-40.2	-17.72	27.23	54	-26.77	-	-	205	331	H
		* 7.452886	48.61	PK2	35.6	-37.7	0	46.51	-	-	74	-27.49	122	370	H
		* 7.452886	48.61	Avg	35.6	-37.7	-17.72	28.79	54	-25.21	-	-	122	370	H
		* 4.879851	51.16	PK2	34.1	-40.2	0	45.06	-	-	74	-28.94	281	129	V
		* 4.879851	51.16	Avg	34.1	-40.2	-17.72	27.34	54	-26.66	-	-	281	129	V
		* 7.428127	48.73	PK2	35.6	-37.6	0	46.73	-	-	74	-27.27	123	239	V
		* 7.428127	48.73	Avg	35.6	-37.6	-17.72	29.01	54	-24.99	-	-	123	239	V
		3.45315	55.51	PK2	32.7	-41.6	0	46.61	-	-	-	-	21	240	H
		3.453424	54.89	PK2	32.7	-41.6	0	45.99	-	-	-	-	224	164	V
	2480	* 4.971747	51.41	PK2	34.1	-40.2	0	45.31	-	-	74	-28.87	203	400	H
		* 4.971747	51.41	Avg	34.1	-40.2	-17.72	27.41	54	-26.59	-	-	203	400	H
		* 7.430548	48.9	PK2	35.6	-37.5	0	47	-	-	74	-27	300	398	H
		* 7.430548	48.9	Avg	35.6	-37.5	-17.72	29.28	54	-24.72	-	-	300	398	H
		* 4.960081	51.27	PK2	34.1	-40.2	0	45.17	-	-	74	-28.83	274	138	V
		* 4.960081	51.27	Avg	34.1	-40.2	-17.72	27.45	54	-26.55	-	-	274	138	V
		* 7.429334	48.67	PK2	35.6	-37.5	0	46.77	-	-	74	-27.23	245	237	V
		* 7.429334	48.67	Avg	35.6	-37.5	-17.72	29.05	54	-24.95	-	-	245	237	V
		3.453152	55.12	PK2	32.7	-41.6	0	46.22	-	-	-	-	24	250	V
		3.453287	54.11	PK2	32.7	-41.6	0	45.21	-	-	-	-	31	101	H

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

PK2 - KDB558074 Method: Maximum Peak

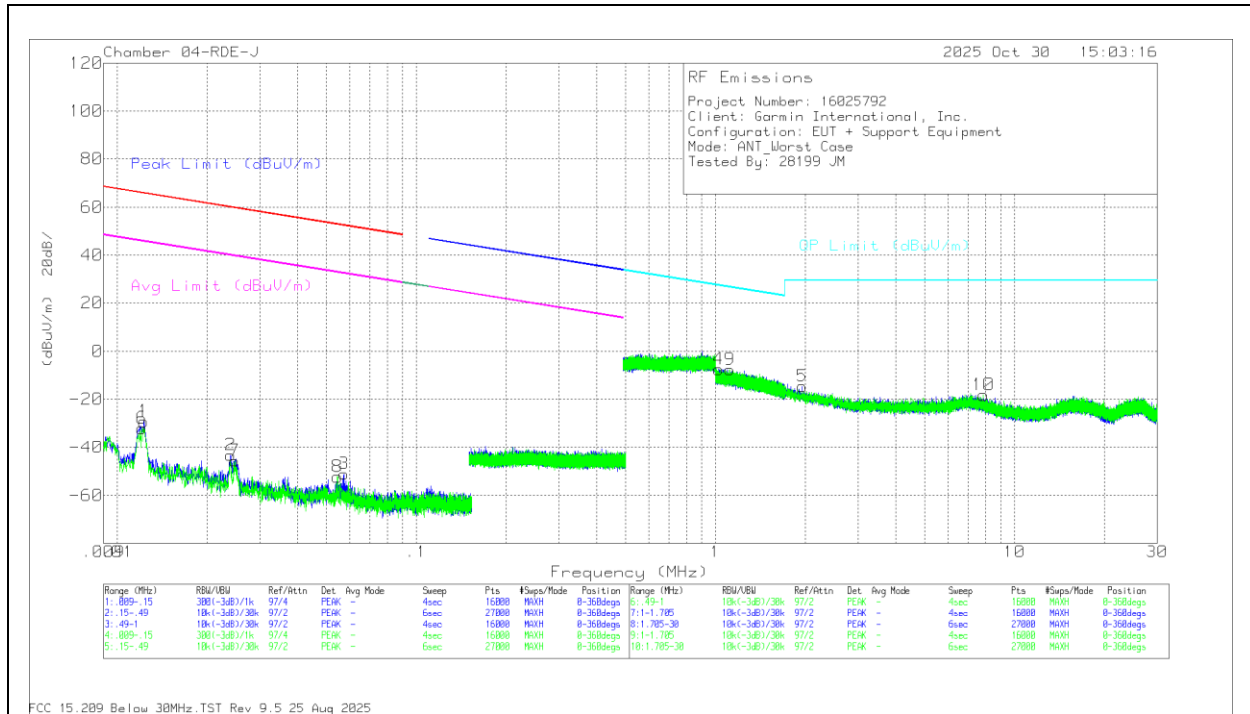
AVG = Measured Peak Reading + Duty Cycle Correction Factor

Duty Cycle Correction Factor = -17.72dB

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL)

10.3. 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)	Polarity (Degs)
1	.0122	21.05	Pk	60.1	-30.4	-80	-29.25	65.82	-95.07	45.82	-75.07	0-360	0
2	.0239	9.64	Pk	58.7	-31.6	-80	-43.26	60.01	-103.27	40.01	-83.27	0-360	0
3	.0573	4.39	Pk	56.5	-32	-80	-51.11	52.42	-103.53	32.42	-83.53	0-360	0
6	.0121	18.06	Pk	60.2	-30.4	-80	-32.14	65.94	-98.08	45.94	-78.08	0-360	90
7	.0247	7.34	Pk	58.6	-31.6	-80	-45.66	59.72	-105.38	39.72	-85.38	0-360	90
8	.0545	2.89	Pk	56.7	-31.9	-80	-52.31	52.86	-105.17	32.86	-85.17	0-360	90

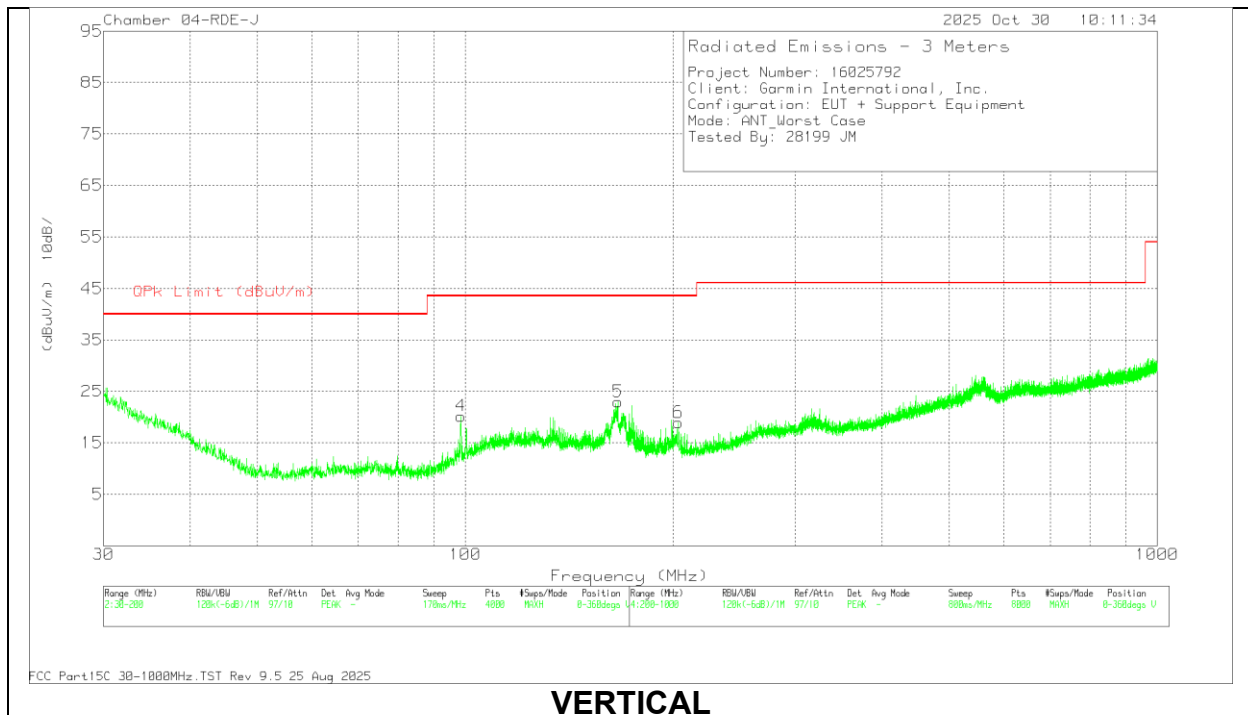
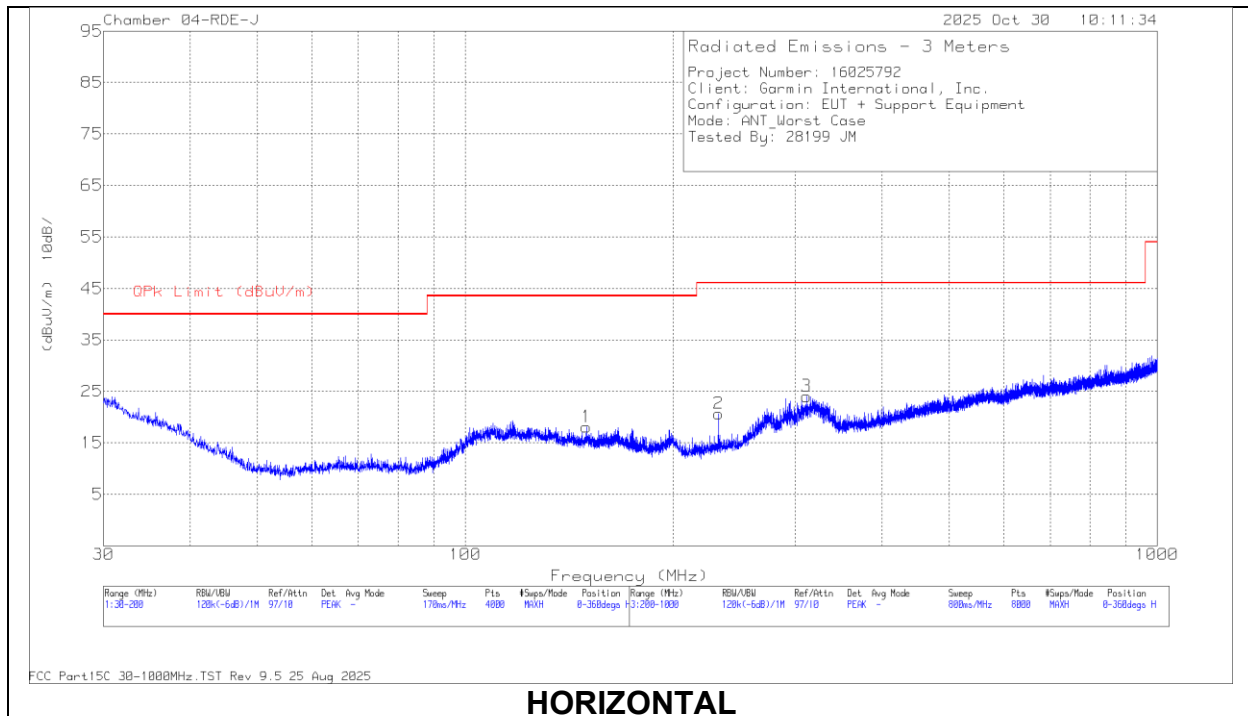
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	CBL/AMP (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity (Degs)
4	1.0257	18.1	Pk	46.7	-32.3	-40	-7.5	27.4	-34.9	0-360	0
5	1.9502	15.56	Pk	41.8	-32	-40	-14.64	29.5	-44.14	0-360	0
9	1.117	18.1	Pk	46.2	-32	-40	-7.7	26.66	-34.36	0-360	90
10	7.8672	18.94	Pk	34.5	-31.7	-40	-18.26	29.5	-47.76	0-360	90

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

Pk - Peak detector

10.4. 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	149.626	30.47	Pk	18.5	-30.9	18.07	43.52	-25.45	0-360	199	H
2	232.204	34.29	Pk	17	-30.6	20.69	46.02	-25.33	0-360	99	H
3	311.314	34.74	Pk	19.6	-30.3	24.04	46.02	-21.98	0-360	99	H
4	98.5277	35.59	Pk	15.8	-31.2	20.19	43.52	-23.33	0-360	100	V
5	165.333	35.75	Pk	17.9	-30.9	22.75	43.52	-20.77	155	101	V
	165.333	29.41	Qp	17.9	-30.9	16.41	43.52	-27.11	155	101	V
6	203.3	32.34	Pk	17.3	-30.7	18.94	43.52	-24.58	0-360	99	V

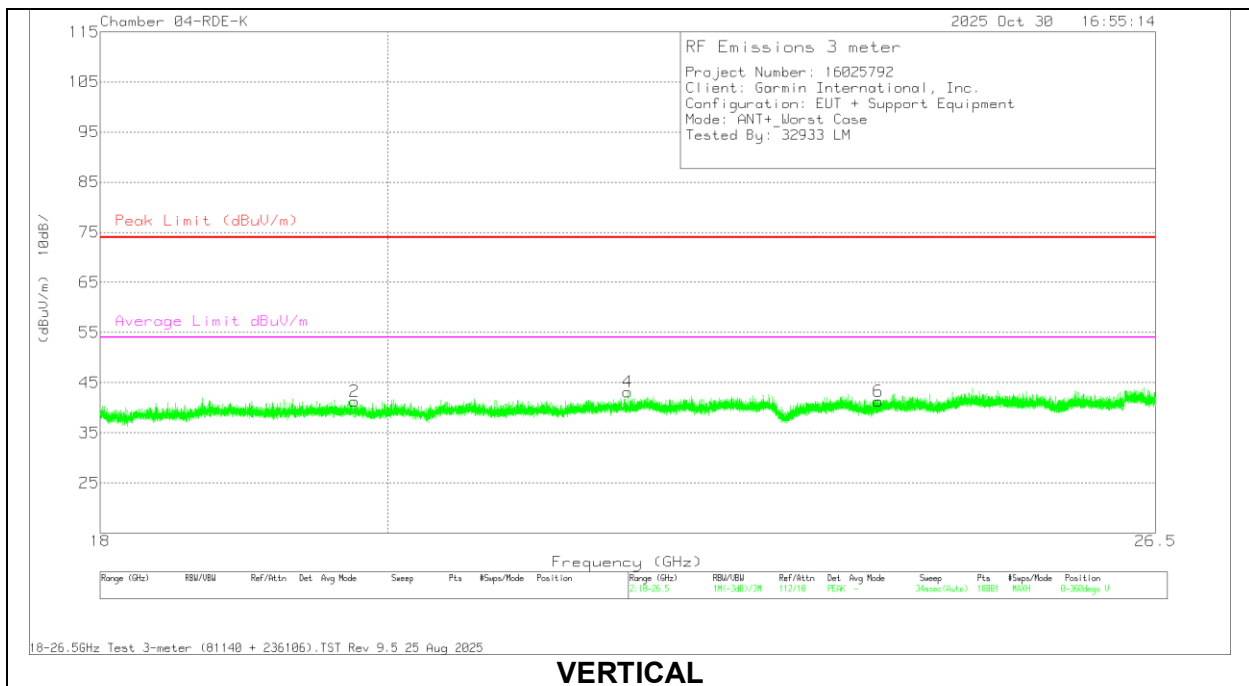
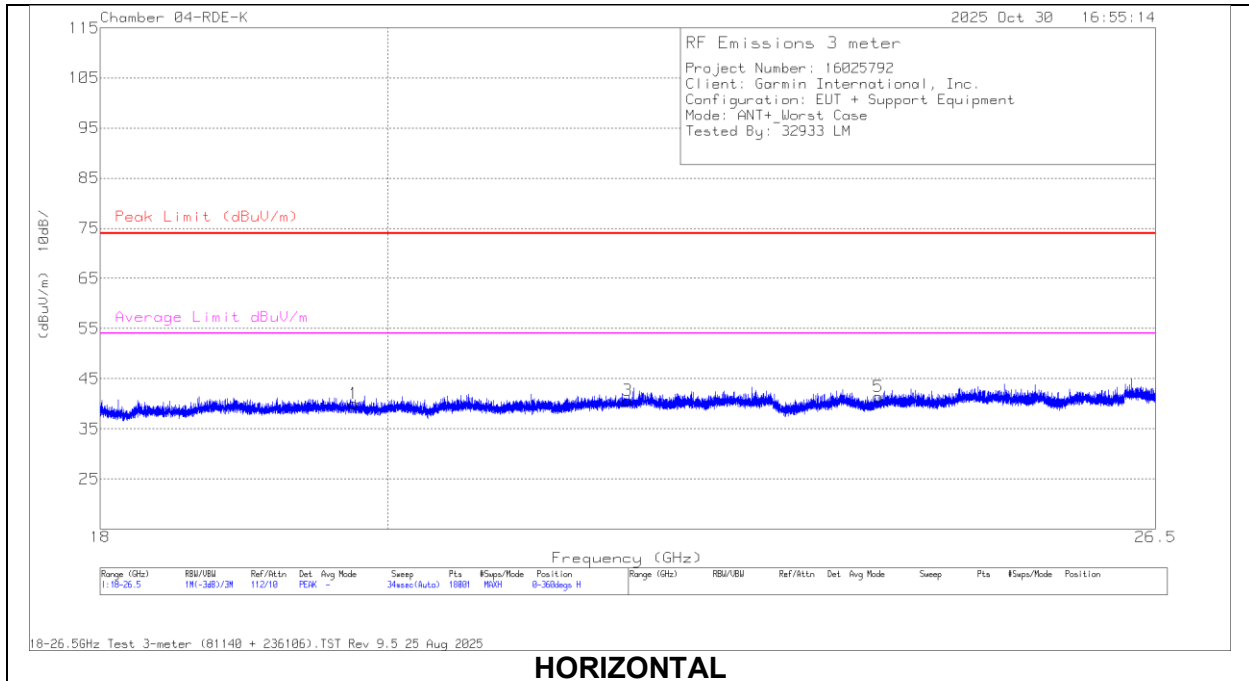
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

10.5. 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	* 19.751944	50.03	Pk	32.4	-62.4	20	40.03	74	-33.97	54	-13.97	0-360	200	H
2	* 19.759027	51.31	Pk	32.4	-62.4	20	41.31	74	-32.69	54	-12.69	0-360	200	V
3	21.840582	49.83	Pk	32.8	-62.8	20.8	40.63	74	-33.37	54	-13.37	0-360	200	H
4	21.840582	52.39	Pk	32.8	-62.8	20.8	43.19	74	-30.81	54	-10.81	0-360	200	V
5	* 23.939136	49.57	Pk	33.5	-63.5	21.8	41.37	74	-32.63	54	-12.63	0-360	101	H
6	* 23.941025	49.47	Pk	33.5	-63.5	21.8	41.27	74	-32.73	54	-12.73	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