

# TEST REPORT

**Report Number:** R15605213-E5

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

**Model :** A04911

**FCC ID :** IPH-04911

**EUT Description :** Extremity Worn Digital Transceiver

**Test Standard(s) :** FCC 47 CFR PART 15 SUBPART C

**Date Of Issue:**  
2025-04-09

**Prepared by:**  
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## REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
v1	2025-04-09	Initial Issue	Chandler Stanley

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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** Garmin International Inc.  
1200 East 151<sup>st</sup> Street  
Olathe, KS 66062-3426, USA

**EUT DESCRIPTION:** Extremity Worn Digital Transceiver

**MODEL:** A04911

**SERIAL NUMBER:** 3497995537 / 3497995201 / 3497652312 / 3497652376 /  
3497652378

**SAMPLE RECEIPT DATE:** 2024-12-17

**DATE TESTED:** 2024-12-17 to 2025-01-31

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Refer to Section 2

UL LLC 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 assure 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 LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released  
For UL LLC By:

Prepared By:



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## 2. TEST RESULTS SUMMARY

This report contains info provided by the customer which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

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

- 1) Antenna gain and type (see section 6.3)
- 2) Worst-case data rates (see section 6.5)

FCC Clause	Requirement	Result	Comment
See Comment	Duty Cycle	Reporting purposes only	ANSI C63.10 Section 11.6.
-	99% OBW	Not Performed	See Note 1
15.247 (a) (2)	6dB BW		
15.247 (b) (3)	Output Power		
See Comment	Average power		
15.247 (e)	PSD		
15.247 (d)	Conducted Spurious Emissions	Compliant	None
15.209, 15.205	Radiated Emissions		
15.207	AC Mains Conducted Emissions		

Note 1: This test report covers radiated testing on a depopulated version of a certified product, resulting in a C2PC. It is the responsibility of the end product manufacturer to provide the certification reports to show full compliance to the FCC requirements.

## 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC 47 CFR Part 2, FCC 47 CFR Part 15, ANSI C63.10-2020, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01.

## 4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, 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
<input type="checkbox"/>	Building: 12 Laboratory Dr RTP, NC 27709, U.S.A	US0067	2180C	825374
<input checked="" type="checkbox"/>	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

## 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 on a regular basis, with a maximum time between calibrations of one year or the manufacturers' 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	UNCERTAINTY
Radio Frequency (Spectrum Analyzer)	141.2 Hz
Occupied Channel Bandwidth	1.22%
RF output power, conducted	1.3 dB (PK) 0.45 dB (AV)
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	1.94 dB
All emissions, radiated	6.01 dB
Conducted Emissions (0.150-30MHz) - LISN	3.40 dB
Temperature	0.57°C
Humidity	3.39%
DC Supply voltages	1.70%
Time	3.39%

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

### 5.4. SAMPLE CALCULATION

#### **RADIATED EMISSIONS**

Where relevant, the following sample calculation is provided:

$$\text{Field Strength (dBuV/m)} = \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Preamp Gain (dB)}$$

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

#### **MAINS CONDUCTED EMISSIONS**

Where relevant, the following sample calculation is provided:

$$\text{Final Voltage (dBuV)} = \text{Measured Voltage (dBuV)} + \text{Cable Loss (dB)} + \text{Limiter Factor (dB)} + \text{LISN Insertion Loss.}$$

$$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$$

## 6. EQUIPMENT UNDER TEST

### 6.1. EUT DESCRIPTION

The EUT is an extremity worn digital transceiver with BT, BLE, ANT/ANT+, 802.11b/g/n 2.4GHz WLAN, NFC, and Global Navigation Satellite System (GNSS) receiver. This report covers radiated testing on the ANT/ANT+, BLE, and 2.4GHz WLAN radios.

### 6.2. MAXIMUM OUTPUT POWER

This test report covers radiated testing on a depopulated version of a certified product, resulting in a C2PC. It is the responsibility of the end product manufacturer to provide the certification reports to show full compliance to the FCC requirements, including ensuring the EUT power is never higher than what is declared on the original certification grant.

### 6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna(s) gain and type, as provided by the manufacturer' are as follows:  
The radio utilizes an antenna with the following type and maximum gain:

Type	Frequency Range (MHz)	Maximum Gain (dBi)
Bezel Antenna	2402-2480	0.84

### 6.4. SOFTWARE AND FIRMWARE

Software Version: 3.95

### 6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest PSD as worst-case scenario.

For 2.4 WLAN, PSD was taken at the mid channel power setting (highest) for all channels.

Power is not distributed equally among all channels and therefore radiated spurious emissions between 1GHz and 18GHz were performed on mid channel and the highest power low and high channels. Band edge scans were performed on all inner/outer channels up to mid channel power.

The fundamental of the EUT was investigated in three orthogonal axes, X, Y, and Z. The worst-case orientation was determined to be the X orientation. Therefore, all testing was performed with the EUT in the X orientation.

The client has elected to declare an operational duty cycle of 13% for ANT/ANT+ resulting in a duty cycle correction factor of -17.72dB. FAQ#3a from the KDB 558074 was used to determine the linear voltage average emissions for ANT/ANT+.

## 6.6. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adaptor	Garmin/Phihong	AQ27A-59CFA	N/A	N/A

### I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Proprietary	1	4 pin Proprietary	Shielded	<3m	Program/Charge EUT

### TEST SETUP

EUT was configured using its own built-in push buttons prior to testing. For final emissions testing, the EUT was connected to AC mains.

### SETUP DIAGRAMS

Please refer to R15605213-EP4 for setup diagrams

## 7. TEST AND MEASUREMENT EQUIPMENT

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

### Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
<b>Common Equipment</b>					
<b>Conducted Room 1</b>					
90416	Spectrum Analyzer	Keysight Technologies	N9030A	2024-09-23	2025-09-23
179892	Environmental Meter	Fisher Scientific	15-077-963	2024-08-12	2025-08-12
211057	Real-Time Peak Power Sensor 50MHz to 8GHz	Boonton	RTP5000	2024-08-01	2025-08-01
SOFTEMI	Antenna Port Software	UL	Version 2024.2.23	NA	NA
<b>Attenuators</b>					
226562	SMA Coaxial 10dB Attenuator 25MHz-18GHz	CentricRF	C18S2-10	2024-04-11	2025-04-11

### Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
<b>1-18 GHz</b>					
86408	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2023-06-19	2025-06-19
<b>Gain-Loss Chains</b>					
91977	Gain-loss string: 1-18GHz	Various	Various	2024-07-17	2025-07-17
<b>Receiver &amp; Software</b>					
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2024-03-05	2025-03-05
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
<b>Additional Equipment used</b>					
200540	Environmental Meter	Fisher Scientific	15-077-963	2023-07-19	2025-07-19

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
<b>0.009-30MHz</b>					
135144	Active Loop Antenna	ETS-Lindgren	6502	2024-10-02	2025-10-02
<b>30-1000 MHz</b>					
90628	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2024-01-02	2026-01-02
<b>1-18 GHz</b>					
89509	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2023-05-23	2025-05-23
<b>18-26.5 GHz</b>					
204704	Horn Antenna, 18-26.5GHz	Com-Power	AH-826	2023-07-20	2025-07-20
<b>Gain-Loss Chains</b>					
207638	Gain-loss string: 0.009-30MHz	Various	Various	2024-05-22	2025-05-22
207639	Gain-loss string: 25-1000MHz	Various	Various	2024-05-22	2025-05-22
207640	Gain-loss string: 1-18GHz	Various	Various	2024-05-22	2025-05-22
225795	Gain-loss string: 18-40GHz	Various	Various	2024-05-22	2025-05-22
<b>Receiver &amp; Software</b>					
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2024-04-16	2025-04-16
81018	Spectrum Analyzer	Agilent	E4446A	2024-07-31	2025-07-31
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
<b>Additional Equipment used</b>					
241204	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2024-04-04	2025-04-04
179892	Environmental Meter	Fisher Scientific	15-077-963	2024-08-12	2025-08-12
80391	LISN, 50-ohm/50-uH, 250uH 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50/250-25-2-01	2024-08-01	2025-08-01
70374	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2024-07-30	2025-07-30
52859	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2024-04-04	2025-04-04
PS216	AC Power Source	Elgar	CW2501M	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
84681	ANSI C63.4 1m extension cable.	UL	Per Annex B of ANSI C63.4	2024-04-04	2025-04-04

## 8. MEASUREMENT METHOD

On Time and Duty Cycle: ANSI C63.10-2020 Section 11.6

Radiated emissions restricted frequency bands: ANSI C63.10-2020 Subclause -11.12.1 and 6.10.5

General radiated emissions: ANSI C63.10 Subclause - 6.3-6.6

AC Power-line conducted emissions: ANSI C63.10-2020, Section 6.2.

## 9. ANTENNA PORT TEST RESULTS

### 9.1. ON TIME AND DUTY CYCLE

#### LIMITS

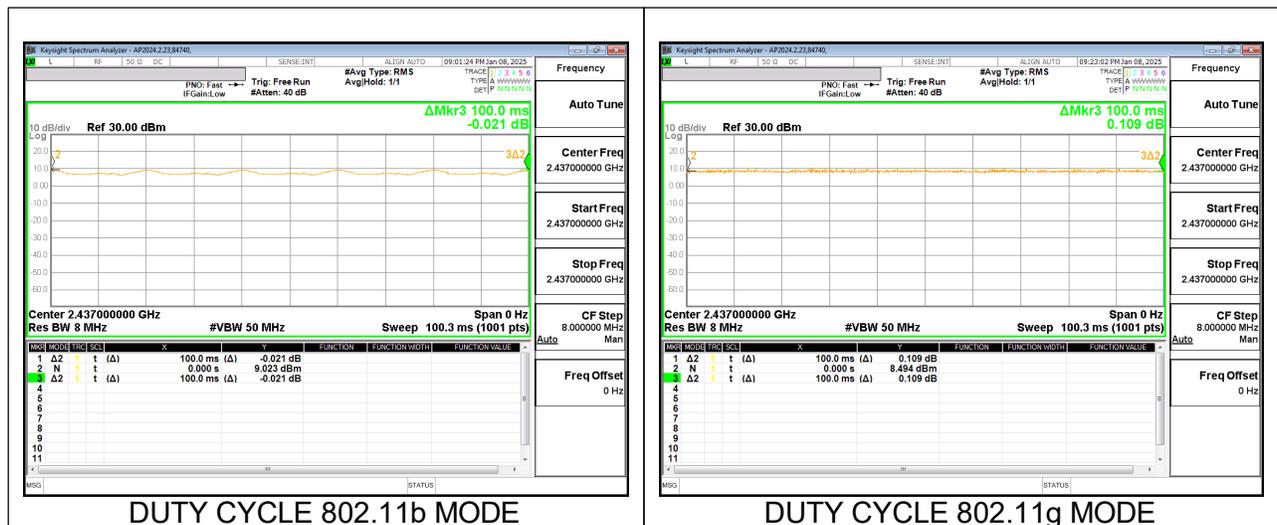
None; for reporting purposes only.

#### PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

Mode	ON Time B (ms)	Period (ms)	Duty Cycle x (linear)	Duty Cycle (%)	Voltage Duty Cycle Correction Factor (dB)	RMS Duty Cycle Correction Factor (dB)
802.11b	100.00	100.00	1.000	100.00	0.00	0.00
802.11g	100.00	100.00	1.000	100.00	0.00	0.00
802.11n HT20	100.00	100.00	1.000	100.00	0.00	0.00
ANT/ANT+	100.00	100.00	1.000	100.00	0.00	0.00
BLE 1Mbps	100.00	100.00	1.000	100.00	0.00	0.00
BLE 2Mbps	100.00	100.00	1.000	100.00	0.00	0.00

The client has declared an operational duty cycle of 13% for ANT/ANT+.  
 ANT/ANT+ DCCF =  $20\log(0.13) = -17.72\text{dB}$





## 10. RADIATED TEST RESULTS

### LIMITS

FCC §15.205 and §15.209

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 in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3MHz 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 linear voltage average measurements. For ANT, FAQ#3a from the KDB 558074 was used to determine the linear voltage average emissions.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to low, middle, and high channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest PSD 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.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

Base 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.

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

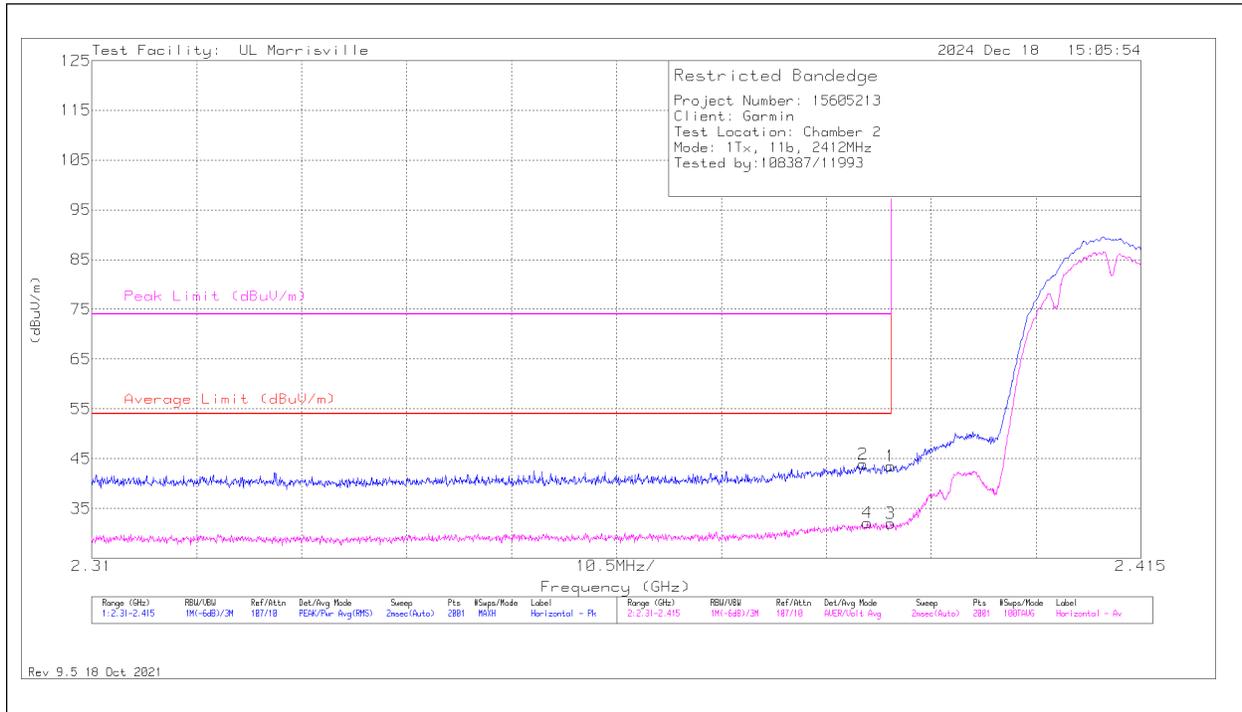
OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

## 10.1. TRANSMITTER ABOVE 1 GHz

### 10.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

#### BANDEDGE (LOW CHANNEL, 2412MHz)

#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	34.81	Pk	32.3	-23.6	43.51	-	-	74	-30.49	269	124	H
2	*** 2.38718	35.12	Pk	32.2	-23.4	43.92	-	-	74	-30.08	269	124	H
3	*** 2.38996	23.32	ADV	32.3	-23.6	32.02	54	-21.98	-	-	269	124	H
4	*** 2.38765	23.28	ADV	32.3	-23.4	32.18	54	-21.82	-	-	269	124	H

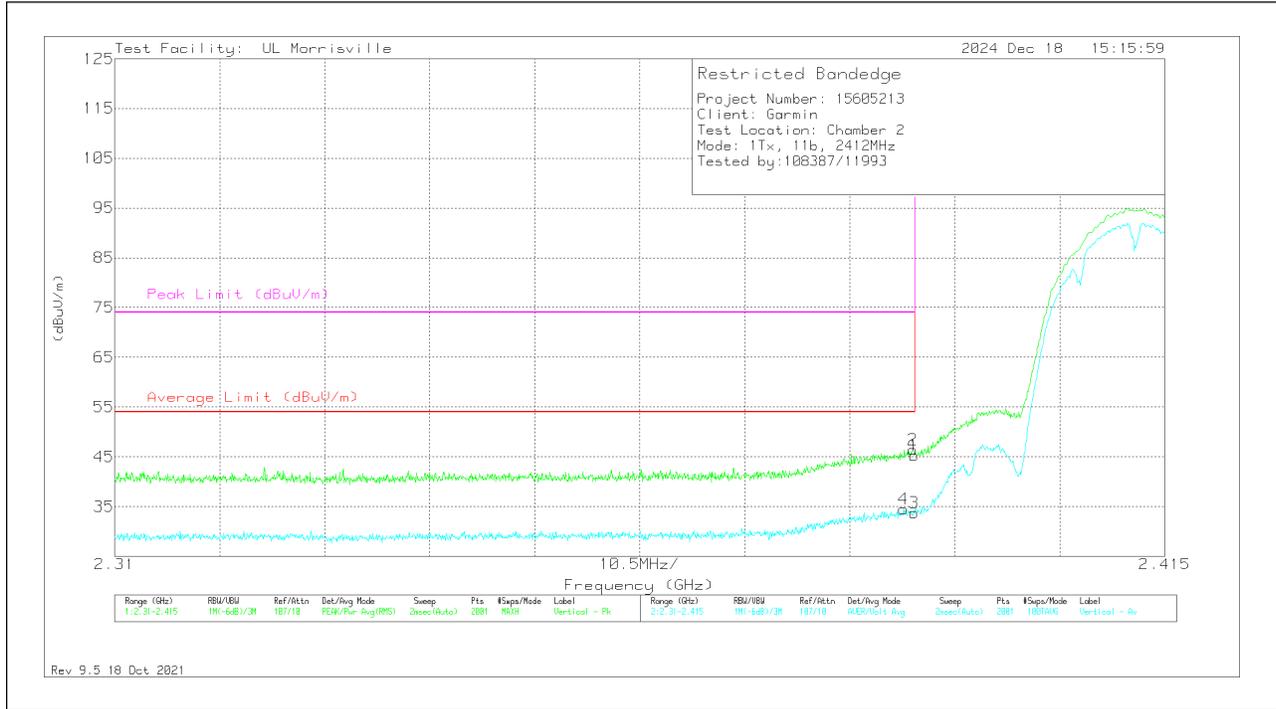
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	36.56	Pk	32.3	-23.6	45.26	-	-	74	-28.74	332	111	V
2	* ** 2.3898	37.65	Pk	32.3	-23.5	46.45	-	-	74	-27.55	332	111	V
3	* ** 2.38996	25.09	ADV	32.3	-23.6	33.79	54	-20.21	-	-	332	111	V
4	* ** 2.38886	25.69	ADV	32.3	-23.5	34.49	54	-19.51	-	-	332	111	V

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

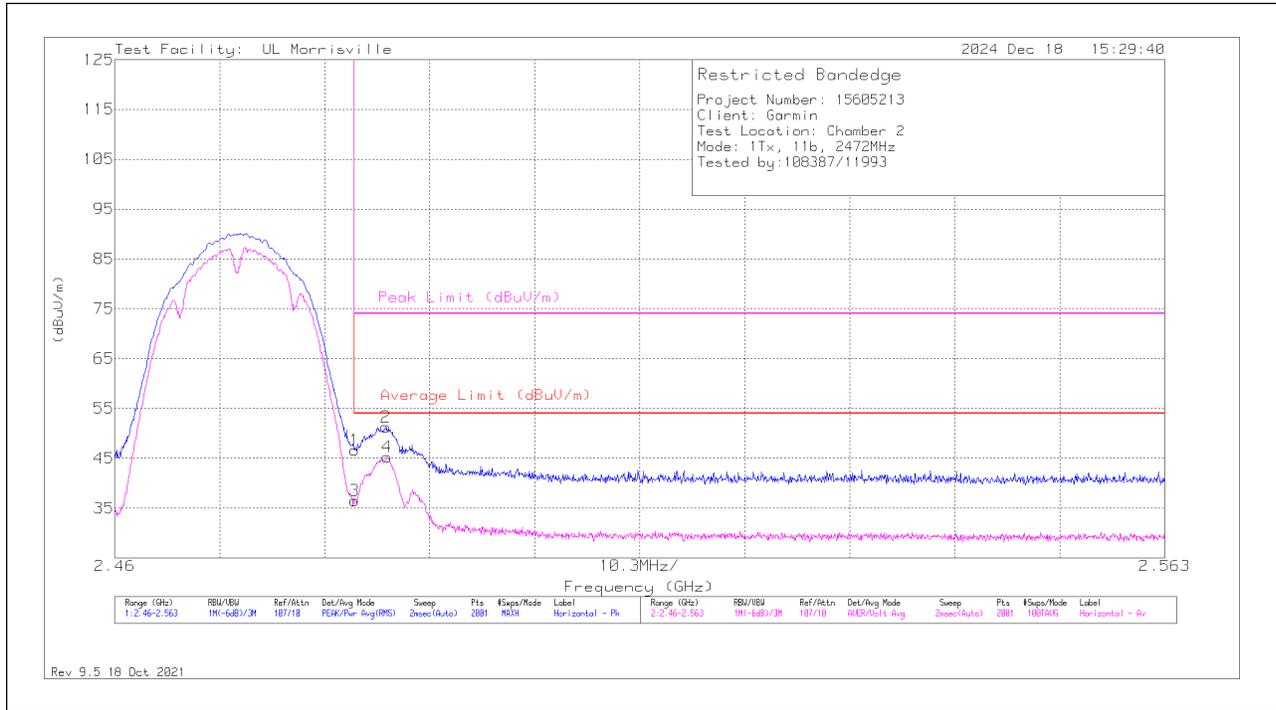
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2472MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	38.22	Pk	32.5	-24.1	46.62	-	-	74	-27.38	251	115	H
2	*** 2.48657	43.03	Pk	32.5	-24.2	51.33	-	-	74	-22.67	251	115	H
3	*** 2.48354	28.16	ADV	32.5	-24.1	36.56	54	-17.44	-	-	251	115	H
4	*** 2.48673	36.93	ADV	32.5	-24.2	45.23	54	-8.77	-	-	251	115	H

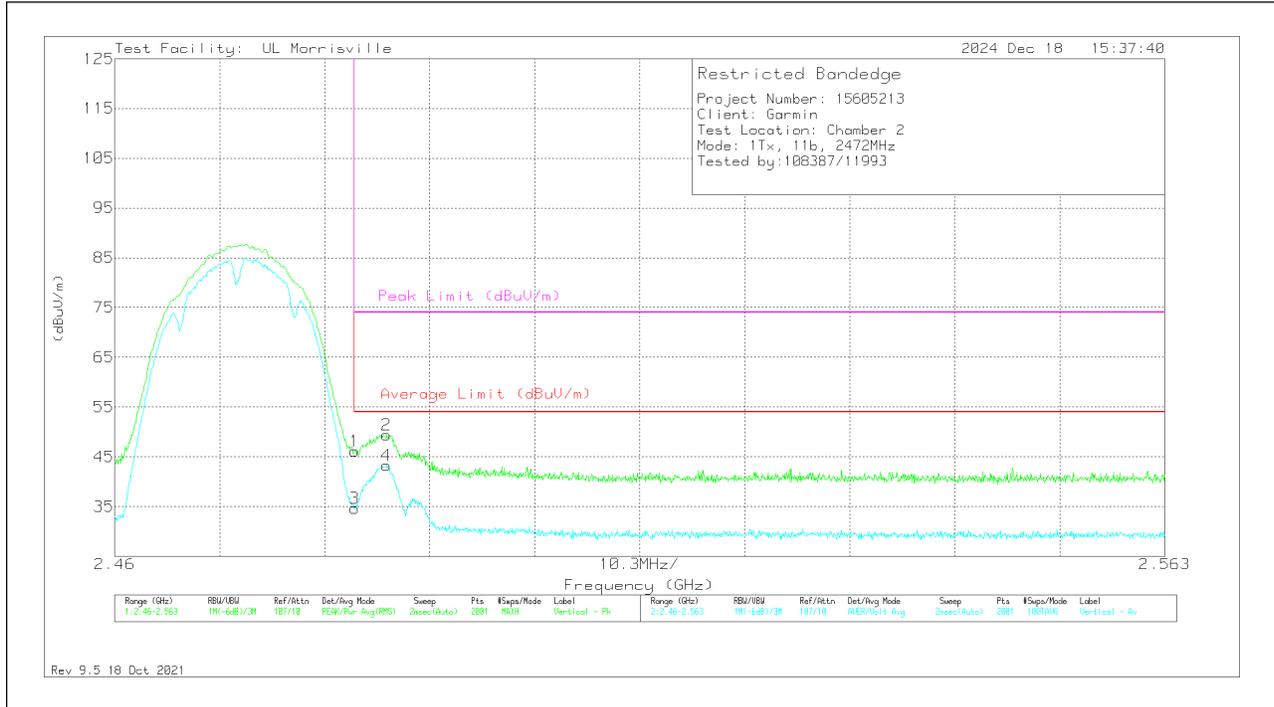
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	37.73	Pk	32.5	-24.1	46.13	-	-	74	-27.87	255	113	V
2	*** 2.48668	41.07	Pk	32.5	-24.2	49.37	-	-	74	-24.63	255	113	V
3	*** 2.48354	26.24	ADV	32.5	-24.1	34.64	54	-19.36	-	-	255	113	V
4	*** 2.48668	35.02	ADV	32.5	-24.2	43.32	54	-10.68	-	-	255	113	V

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

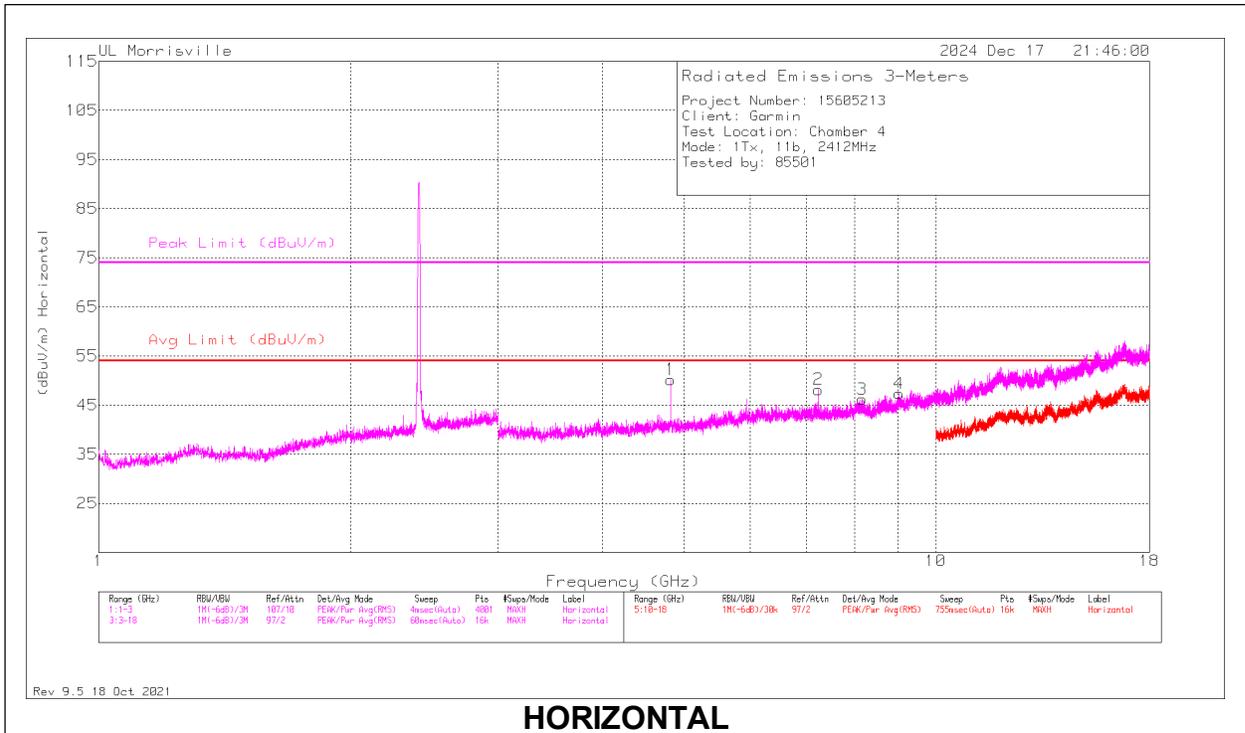
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

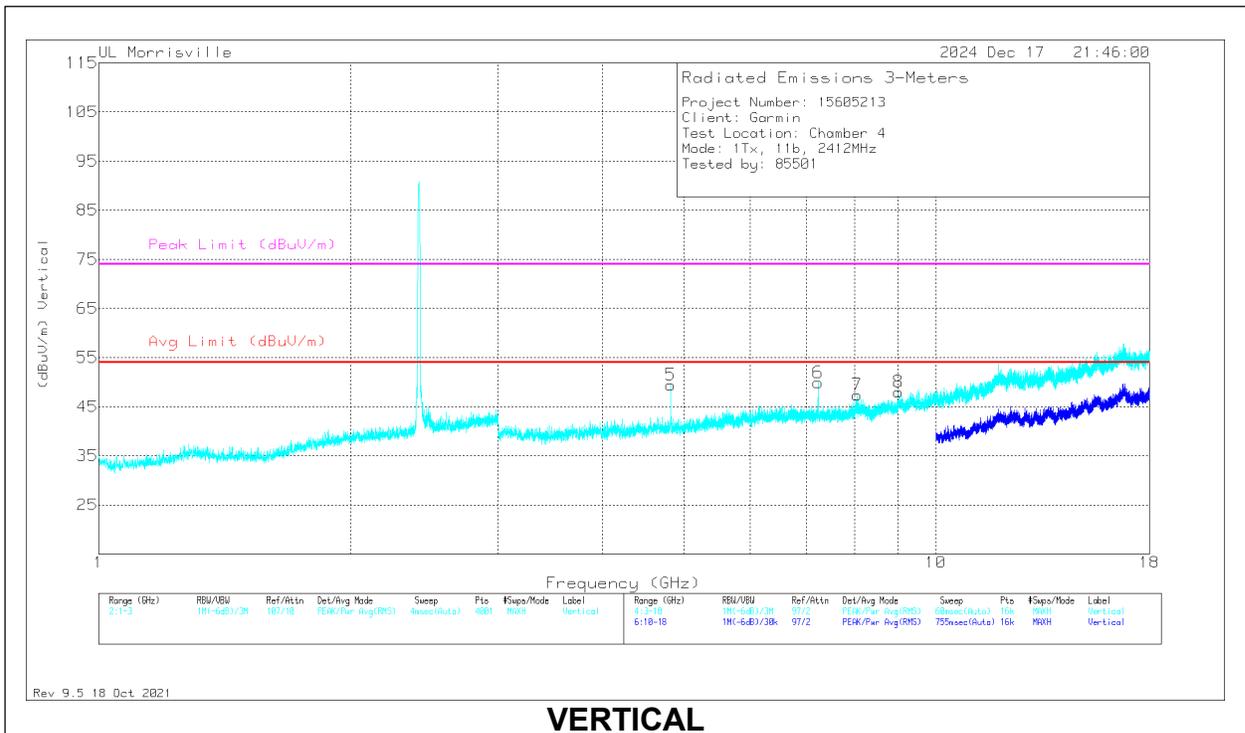
ADV - Linear Voltage Average

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL



## HORIZONTAL



## VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.82414	49.36	PK2	34.1	-31.1	52.36	-	-	74	-21.64	96	101	H
	*** 4.82401	43.47	ADV	34.1	-31.1	46.47	54	-7.53	-	-	96	101	H
3	*** 8.16281	36.98	Pk	35.8	-26.6	46.18	54	-7.82	74	-27.82	0-360	100	H
4	*** 9.045	35.12	Pk	36.2	-24	47.32	54	-6.68	74	-26.68	0-360	100	H
5	*** 4.82402	48.13	PK2	34.1	-31.1	51.13	-	-	74	-22.87	173	188	V
	*** 4.82396	43.07	ADV	34.1	-31.1	46.07	54	-7.93	-	-	173	188	V
7	*** 8.05688	38.66	Pk	35.8	-27.1	47.36	54	-6.64	74	-26.64	0-360	200	V
8	*** 9.0188	36.14	PK2	36.2	-24.2	48.14	-	-	74	-25.86	198	334	V
	*** 9.01907	23.78	ADV	36.2	-24.2	35.78	54	-18.22	-	-	198	334	V
6	7.23375	41.92	Pk	35.6	-27.6	49.92	-	-	-	-	0-360	200	V
2	7.23469	40.18	Pk	35.6	-27.6	48.18	-	-	-	-	0-360	100	H

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

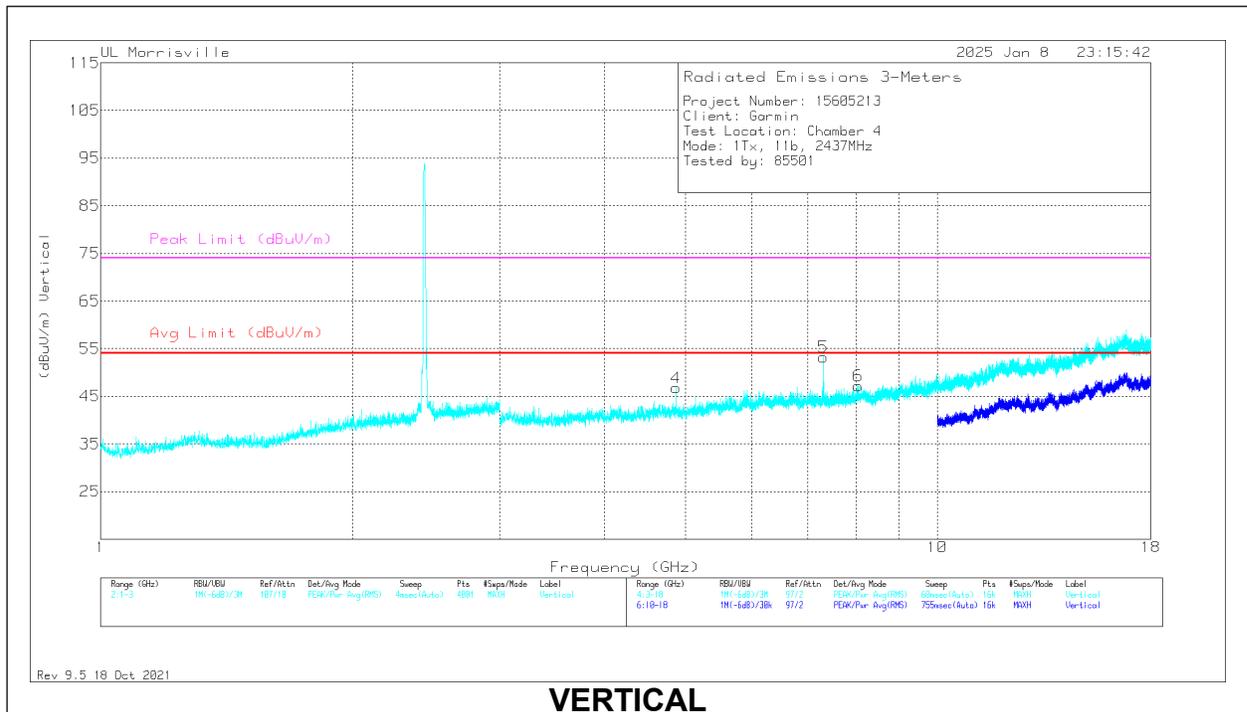
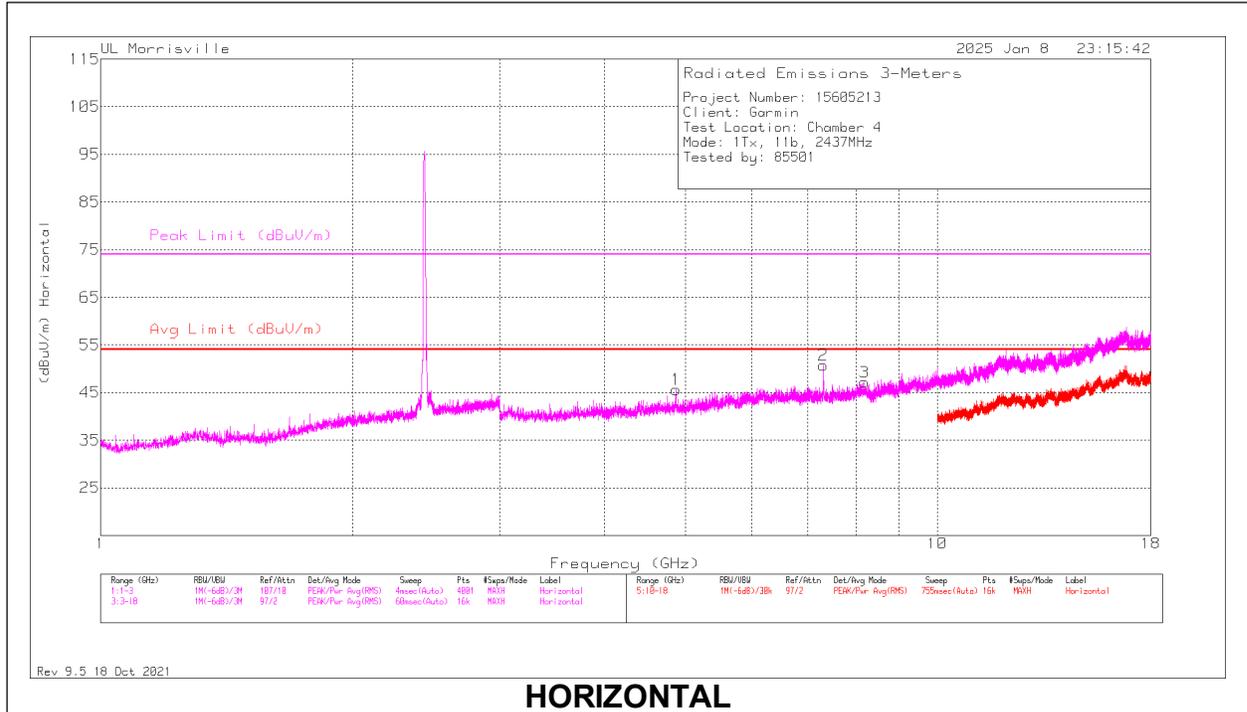
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

ADV - Linear Voltage Average

### MID CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.87594	42.68	Pk	34	-31.1	45.58	54	-8.42	74	-28.42	0-360	100	H
2	*** 7.31136	45.38	PK2	35.7	-27.5	53.58	-	-	74	-20.42	187	102	H
	*** 7.31178	37.99	ADV	35.7	-27.6	46.09	54	-7.91	-	-	187	102	H
3	*** 8.19	37.54	Pk	35.8	-26.2	47.14	54	-6.86	74	-26.86	0-360	100	H
4	*** 4.87406	43.84	Pk	34.1	-31.2	46.74	54	-7.26	74	-27.26	0-360	200	V
5	*** 7.31141	47.07	PK2	35.7	-27.5	55.27	-	-	74	-18.73	315	104	V
	*** 7.31008	40.83	ADV	35.7	-27.5	49.03	54	-4.97	-	-	315	104	V
6	*** 8.04188	38.65	Pk	35.8	-27.2	47.25	54	-6.75	74	-26.75	0-360	200	V

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

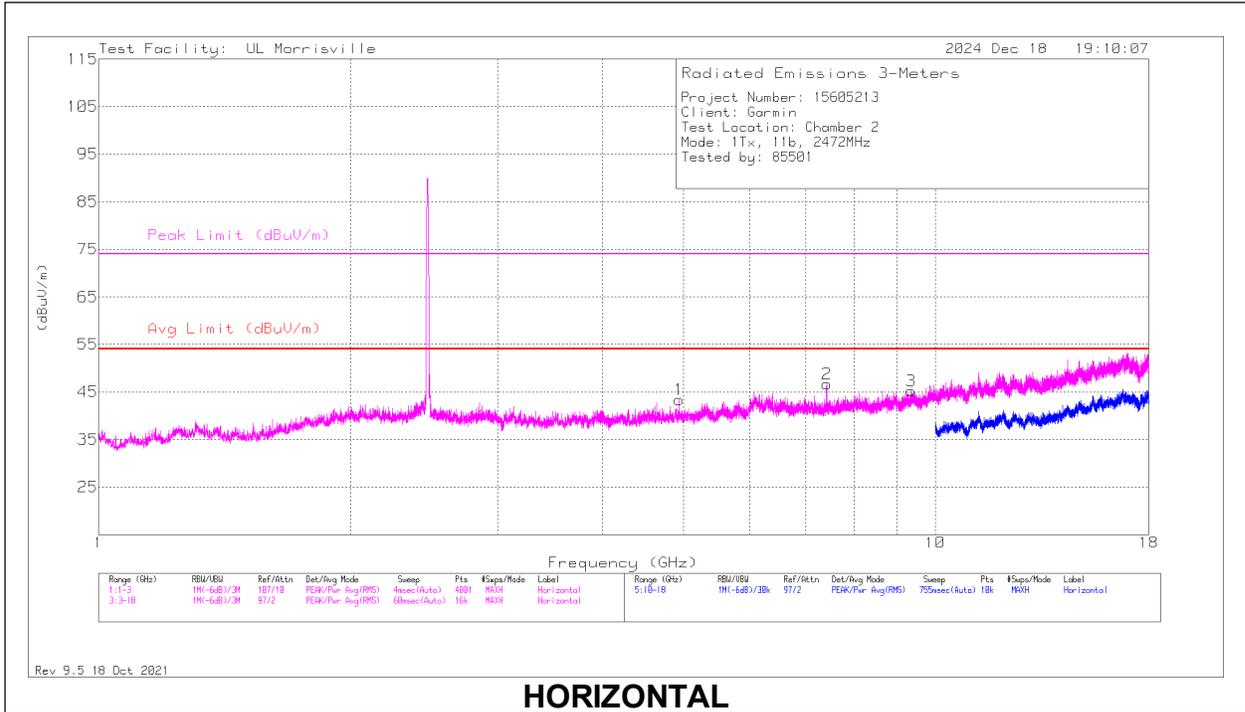
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

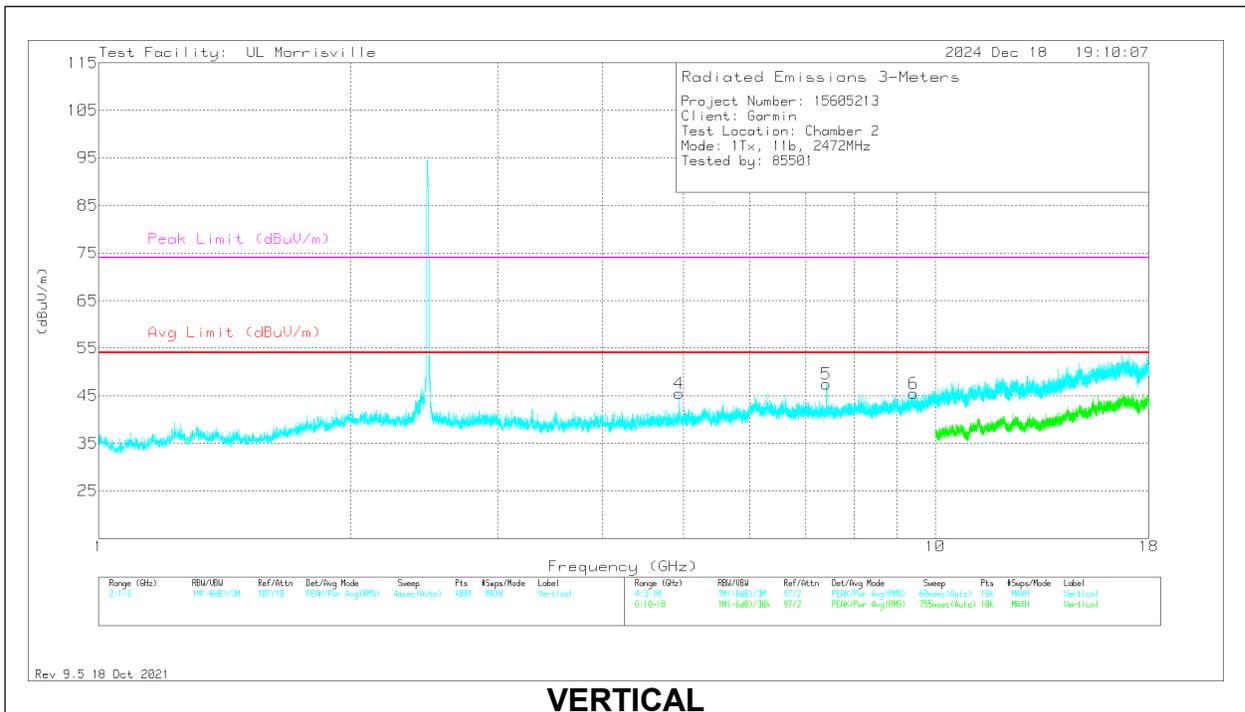
PK2 - Maximum Peak

ADV - Linear Voltage Average

### HIGH CHANNEL



### HORIZONTAL



### VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.94344	52.95	Pk	34	-43.5	43.45	54	-10.55	74	-30.55	0-360	200	H
2	** 7.4175	52.16	Pk	35.6	-41.1	46.66	54	-7.34	74	-27.34	0-360	101	H
3	*** 9.36188	48.75	Pk	36.1	-39.6	45.25	54	-8.75	74	-28.75	0-360	101	H
4	*** 4.94344	55	Pk	34	-43.5	45.5	54	-8.5	74	-28.5	0-360	101	V
5	*** 7.41563	52.87	Pk	35.6	-41	47.47	54	-6.53	74	-26.53	0-360	101	V
6	*** 9.42281	49.28	Pk	36.2	-40	45.48	54	-8.52	74	-28.52	0-360	200	V

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

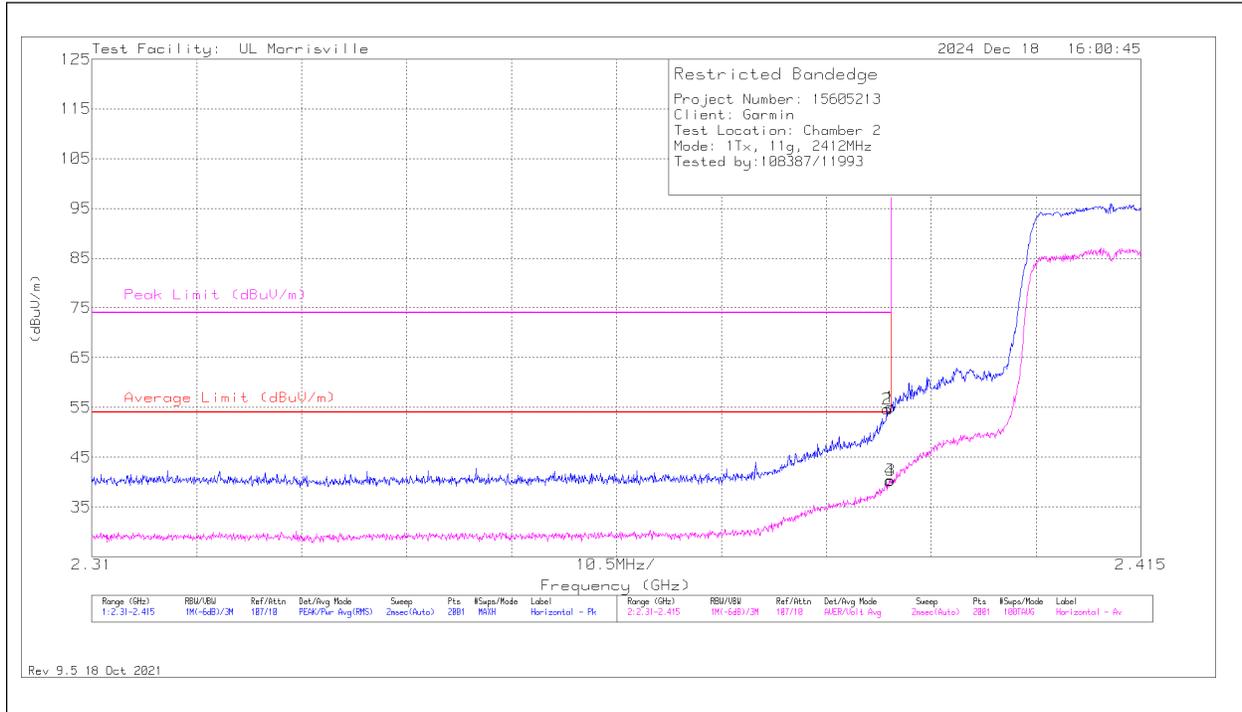
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 10.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

#### BANDEDGE (LOW CHANNEL, 2412MHz)

#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	46.29	Pk	32.3	-23.6	54.99	-	-	74	-19.01	248	115	H
2	*** 2.38964	45.85	Pk	32.3	-23.5	54.65	-	-	74	-19.35	248	115	H
3	*** 2.38996	31.71	ADV	32.3	-23.6	40.41	54	-13.59	-	-	248	115	H
4	*** 2.38985	31.48	ADV	32.3	-23.5	40.28	54	-13.72	-	-	248	115	H

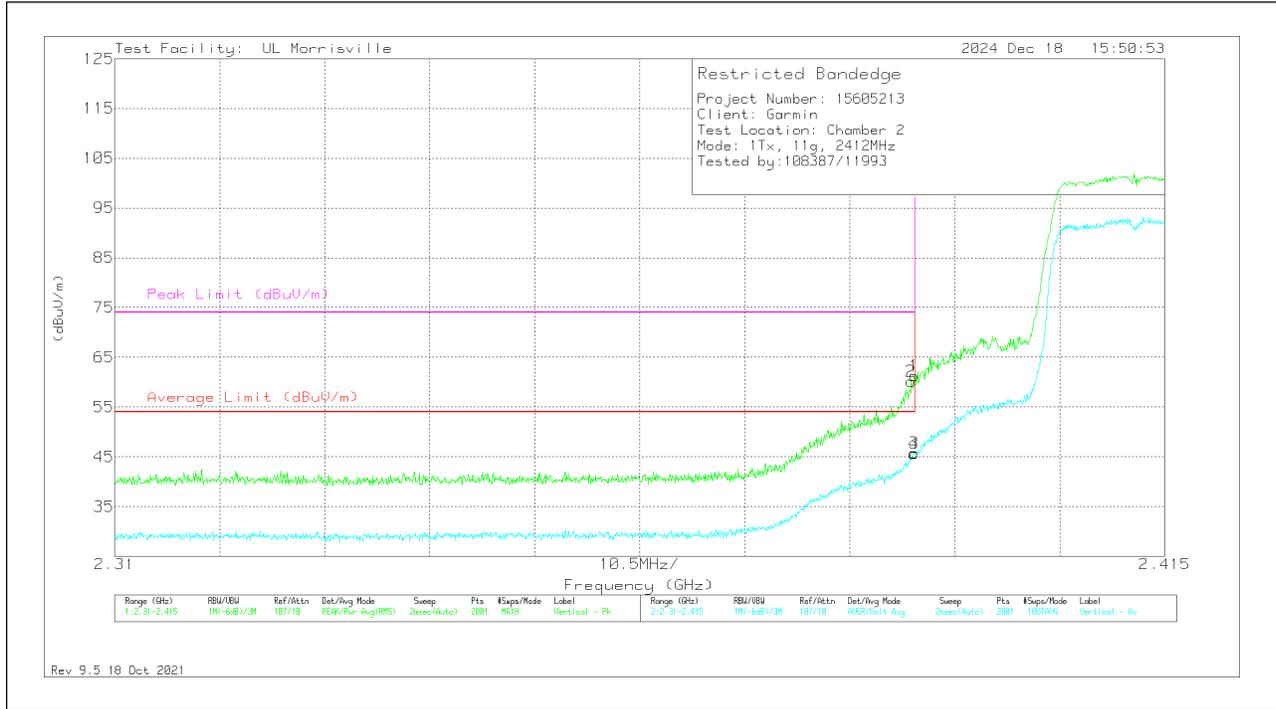
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	52.56	Pk	32.3	-23.6	61.26	-	-	74	-12.74	337	110	V
2	*** 2.38964	51.36	Pk	32.3	-23.5	60.16	-	-	74	-13.84	337	110	V
3	*** 2.38996	37.08	ADV	32.3	-23.6	45.78	54	-8.22	-	-	337	109	V
4	*** 2.38991	36.79	ADV	32.3	-23.5	45.59	54	-8.41	-	-	337	109	V

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

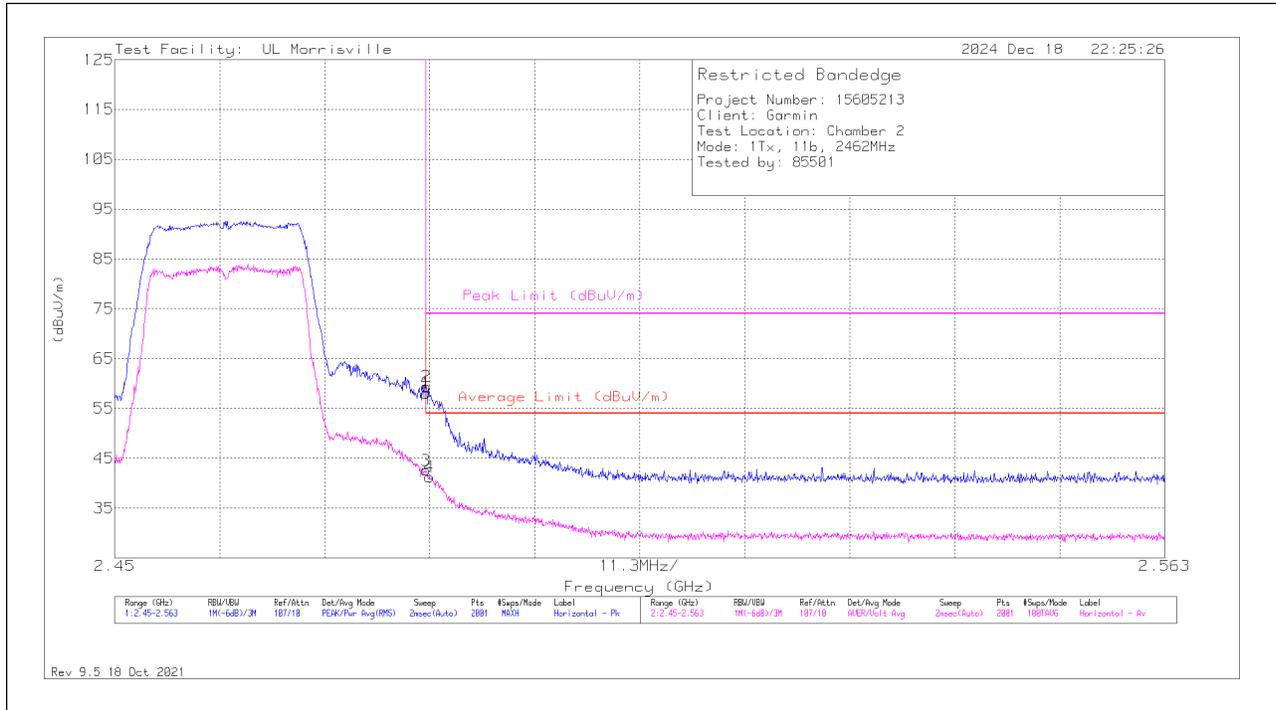
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2462MHz)**

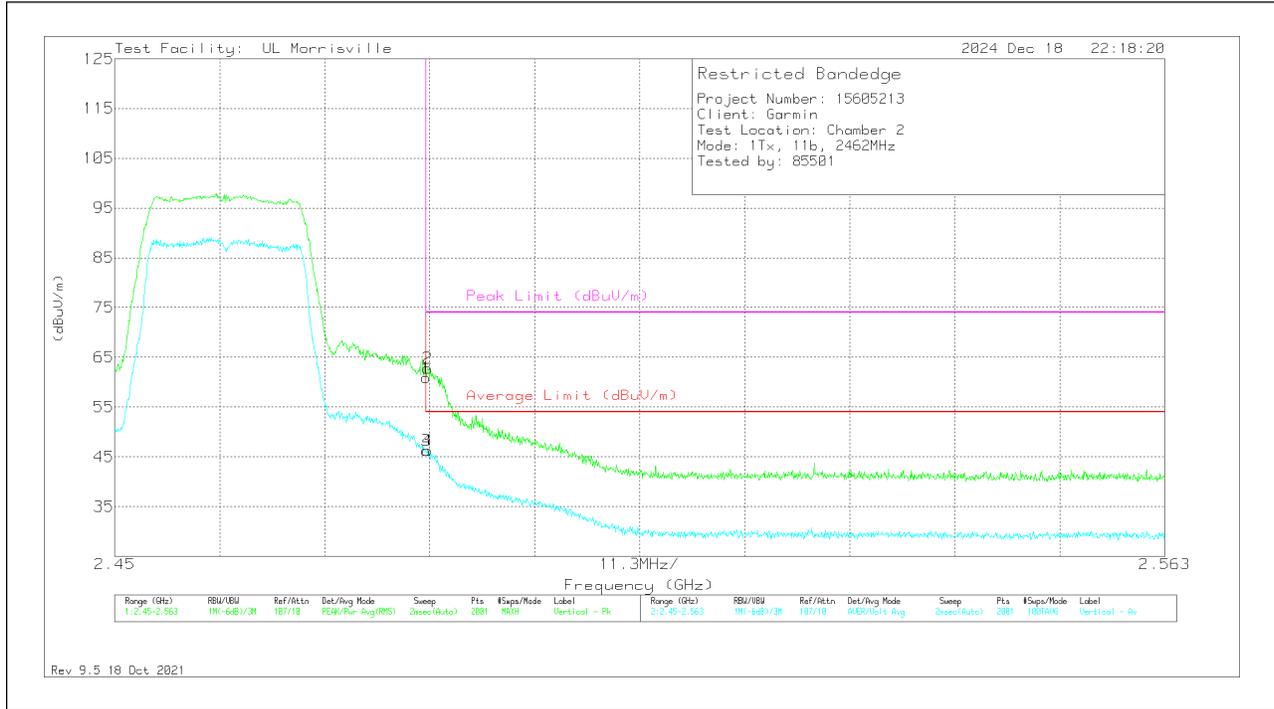
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (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	49.63	Pk	32.5	-24.1	58.03	-	-	74	-15.97	245	389	H
2	* ** 2.48356	51.02	Pk	32.5	-24.1	59.42	-	-	74	-14.58	245	389	H
3	* ** 2.4835	34.18	ADV	32.5	-24.1	42.58	54	-11.42	-	-	245	389	H
4	* ** 2.4839	32.93	ADV	32.5	-24.2	41.23	54	-12.77	-	-	245	389	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (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	52.46	Pk	32.5	-24.1	60.86	-	-	74	-13.14	340	126	V
2	*** 2.48367	54.42	Pk	32.5	-24.1	62.82	-	-	74	-11.18	340	126	V
3	*** 2.4835	37.89	ADV	32.5	-24.1	46.29	54	-7.71	-	-	340	126	V
4	*** 2.48367	37.91	ADV	32.5	-24.1	46.31	54	-7.69	-	-	340	126	V

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

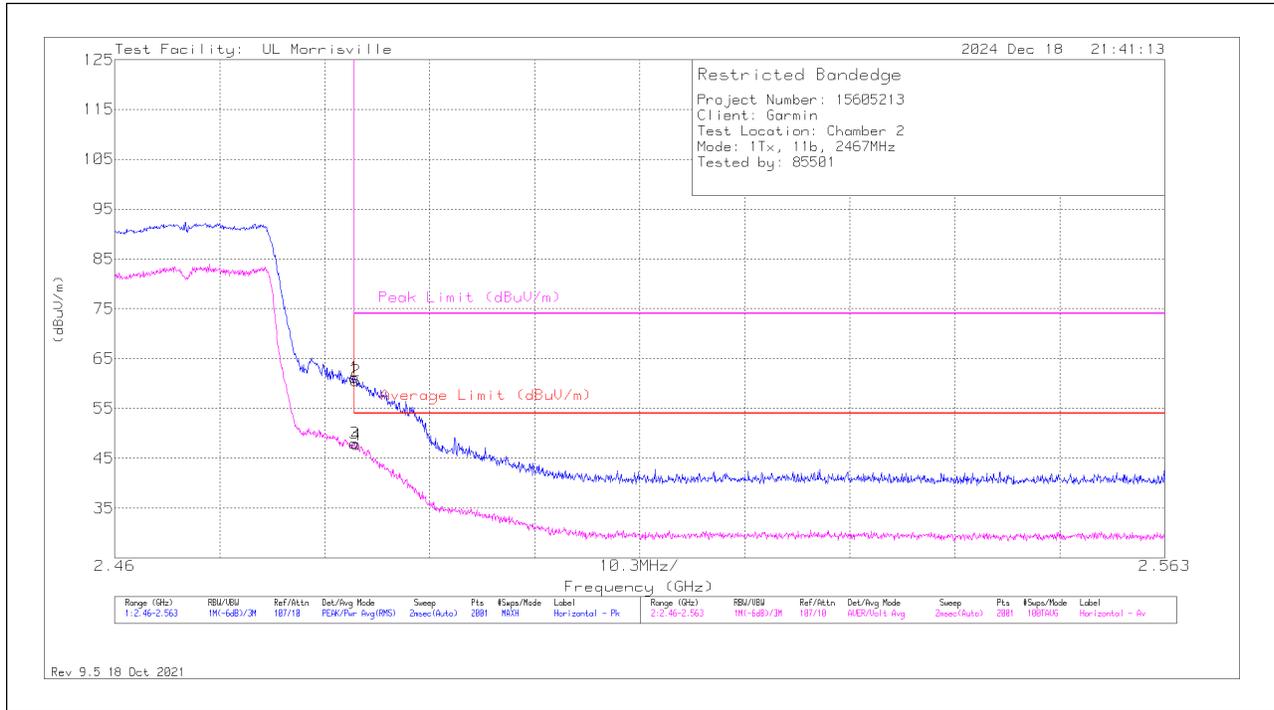
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2467MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	52.76	Pk	32.5	-24.1	61.16	-	-	74	-12.84	257	107	H
2	*** 2.48364	52.12	Pk	32.5	-24.1	60.52	-	-	74	-13.48	257	107	H
3	*** 2.48354	39.59	ADV	32.5	-24.1	47.99	54	-6.01	-	-	257	107	H
4	*** 2.48369	39.31	ADV	32.5	-24.1	47.71	54	-6.29	-	-	257	107	H

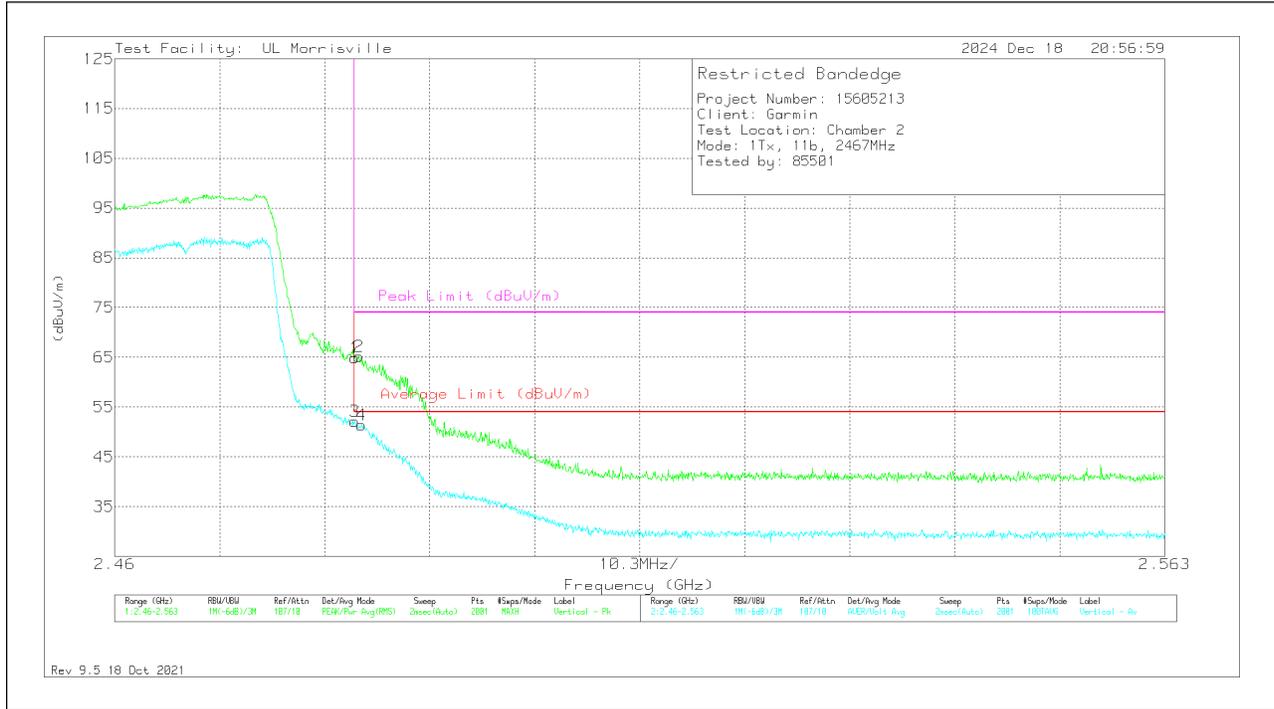
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	56.56	Pk	32.5	-24.1	64.96	-	-	74	-9.04	330	103	V
2	*** 2.48395	56.83	Pk	32.5	-24.2	65.13	-	-	74	-8.87	330	103	V
3	*** 2.48354	43.79	ADV	32.5	-24.1	52.19	54	-1.81	-	-	330	102	V
4	*** 2.48421	43.06	ADV	32.5	-24.2	51.36	54	-2.64	-	-	330	102	V

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

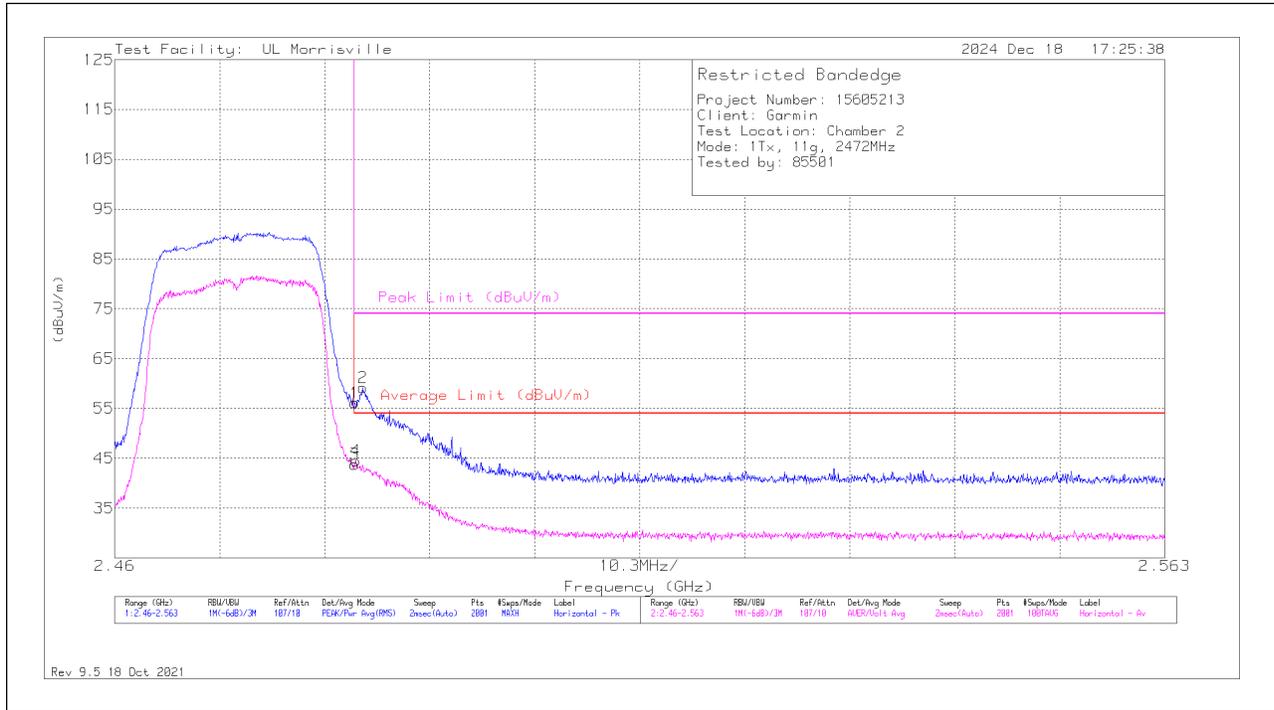
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2472MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	47.7	Pk	32.5	-24.1	56.1	-	-	74	-17.9	217	236	H
2	*** 2.48436	50.88	Pk	32.5	-24.2	59.18	-	-	74	-14.82	217	236	H
3	*** 2.48354	35.36	ADV	32.5	-24.1	43.76	54	-10.24	-	-	217	236	H
4	*** 2.48364	36.07	ADV	32.5	-24.1	44.47	54	-9.53	-	-	217	236	H

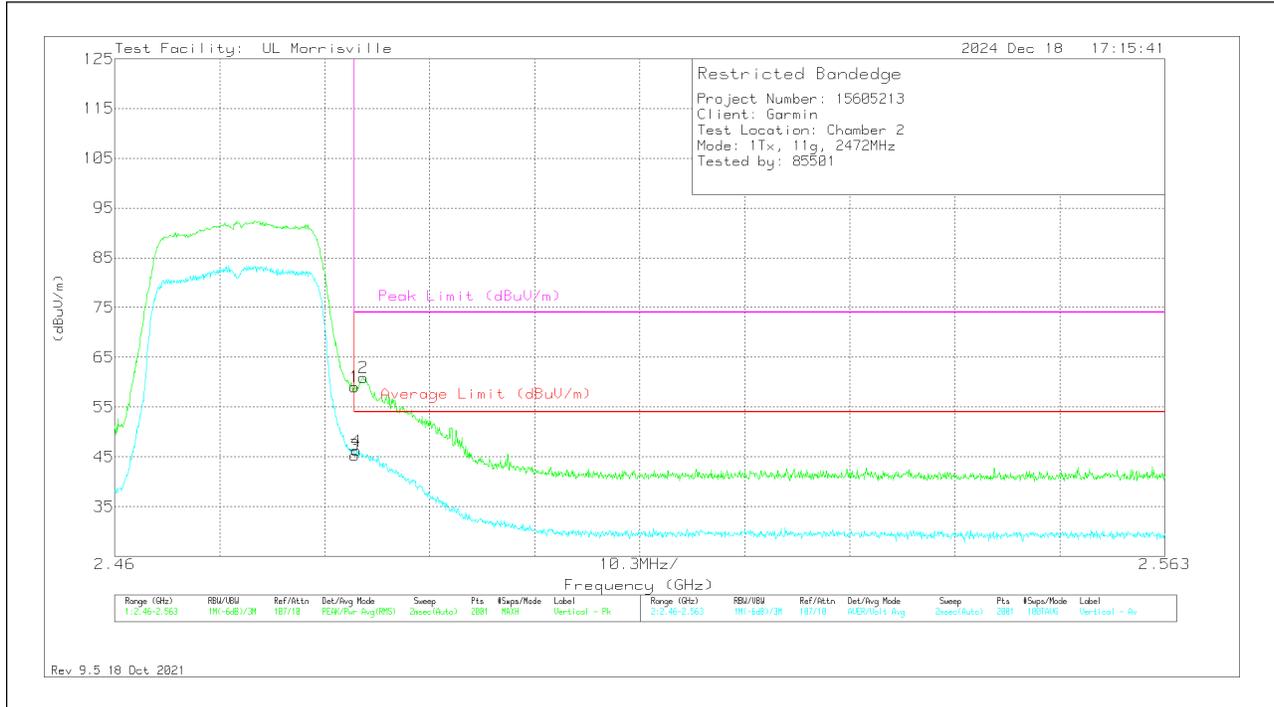
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	50.65	Pk	32.5	-24.1	59.05	-	-	74	-14.95	154	228	V
2	*** 2.48441	52.62	Pk	32.5	-24.2	60.92	-	-	74	-13.08	154	228	V
3	*** 2.48354	36.84	ADV	32.5	-24.1	45.24	54	-8.76	-	-	154	228	V
4	*** 2.48374	37.81	ADV	32.5	-24.1	46.21	54	-7.79	-	-	154	228	V

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

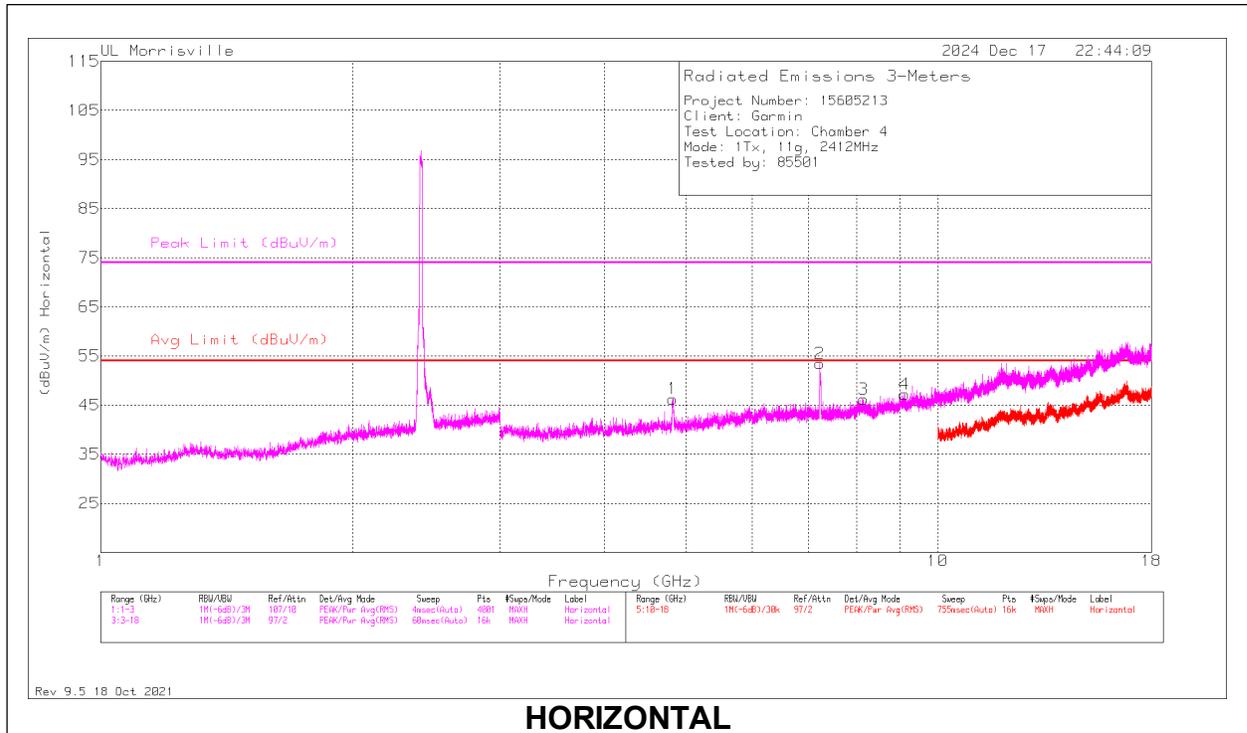
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

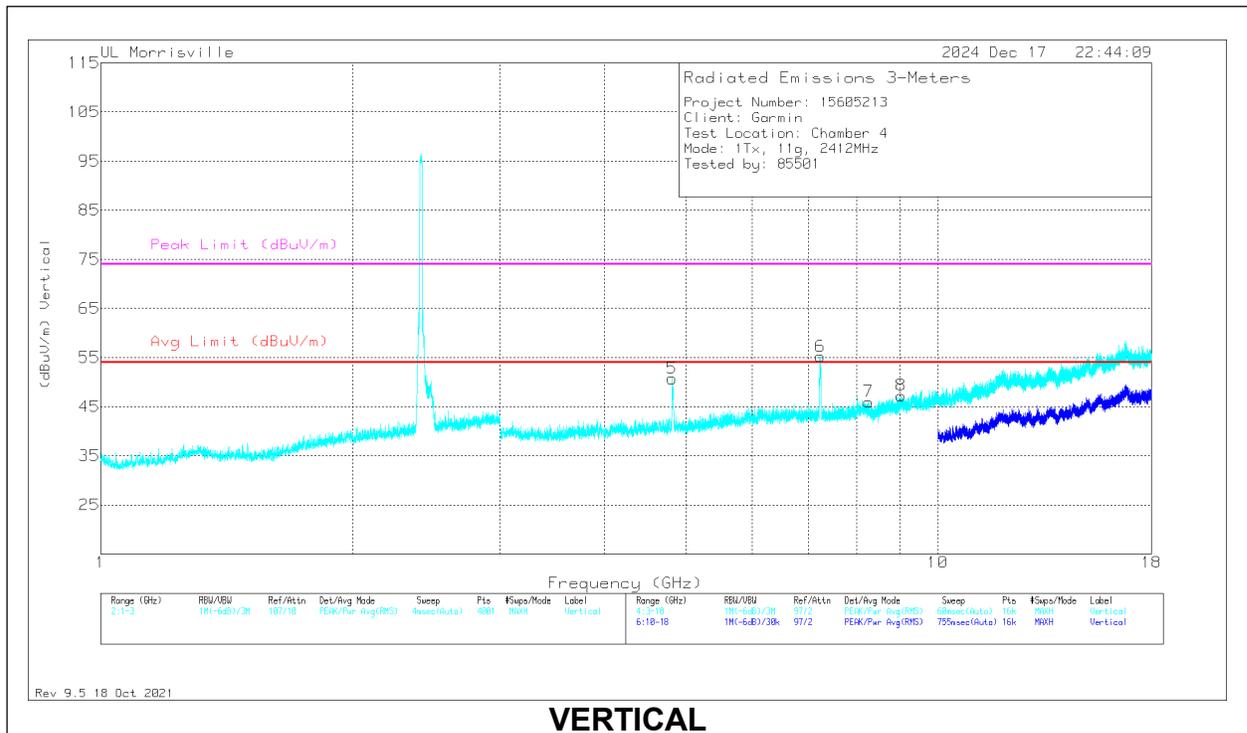
ADV - Linear Voltage Average

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL



## HORIZONTAL



## VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.82063	43.36	Pk	34.1	-31.2	46.26	54	-7.74	74	-27.74	0-360	100	H
3	*** 8.14875	37.38	Pk	35.8	-27	46.18	54	-7.82	74	-27.82	0-360	100	H
4	*** 9.12563	35.6	Pk	36.3	-24.7	47.2	54	-6.8	74	-26.8	0-360	100	H
5	*** 4.81752	46.98	PK2	34.1	-31.2	49.88	-	-	74	-24.12	206	258	V
	*** 4.8176	33.33	ADV	34.1	-31.2	36.23	54	-17.77	-	-	206	258	V
7	*** 8.26406	36.51	Pk	35.8	-26.3	46.01	54	-7.99	74	-27.99	0-360	200	V
8	*** 9.04031	35.18	Pk	36.2	-24.1	47.28	54	-6.72	74	-26.72	0-360	200	V
2	7.22906	45.35	Pk	35.6	-27.5	53.45	-	-	-	-	0-360	100	H
6	7.24125	47.13	Pk	35.6	-27.5	55.23	-	-	-	-	0-360	200	V

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

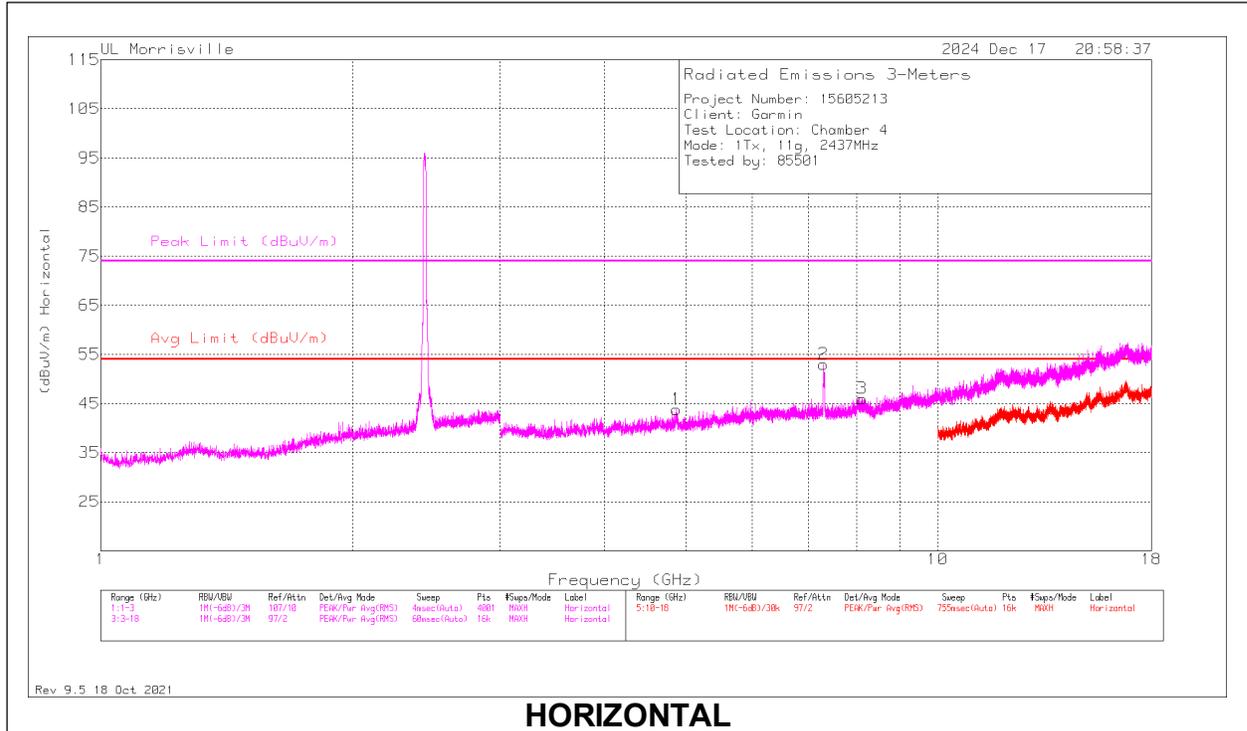
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

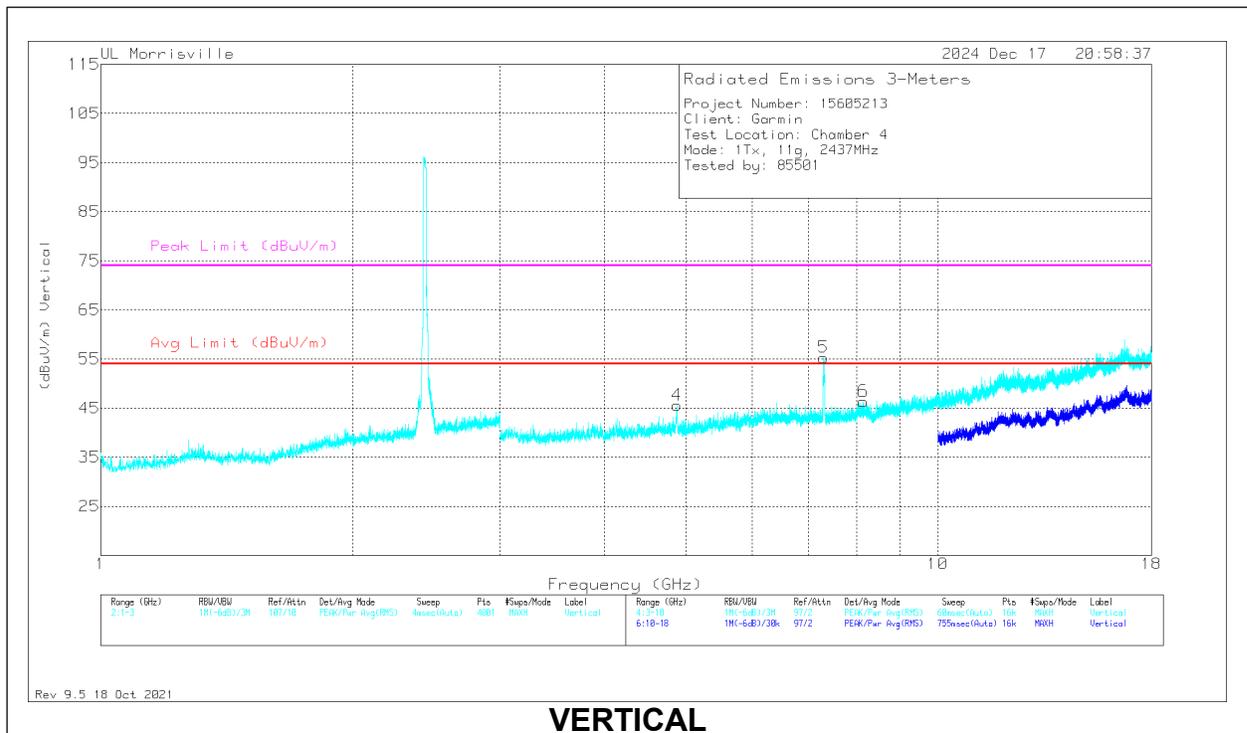
PK2 - Maximum Peak

ADV - Linear Voltage Average

### MID CHANNEL



### HORIZONTAL



### VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.87219	41.01	Pk	34.1	-31.3	43.81	54	-10.19	74	-30.19	0-360	100	H
2	*** 7.3064	49.34	PK2	35.7	-27.4	57.64	-	-	74	-16.36	298	117	H
	*** 7.30437	36.21	ADV	35.7	-27.4	44.51	54	-9.49	-	-	298	117	H
3	*** 8.11781	36.91	Pk	35.8	-26.7	46.01	54	-7.99	74	-27.99	0-360	100	H
4	*** 4.88344	42.57	Pk	34	-31	45.57	54	-8.43	74	-28.43	0-360	200	V
5	*** 7.30781	52.76	PK2	35.7	-27.4	61.06	-	-	74	-12.94	0	123	V
	*** 7.30639	39.76	ADV	35.7	-27.4	48.06	54	-5.94	-	-	0	123	V
6	*** 8.145	37.57	Pk	35.8	-27	46.37	54	-7.63	74	-27.63	0-360	200	V

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

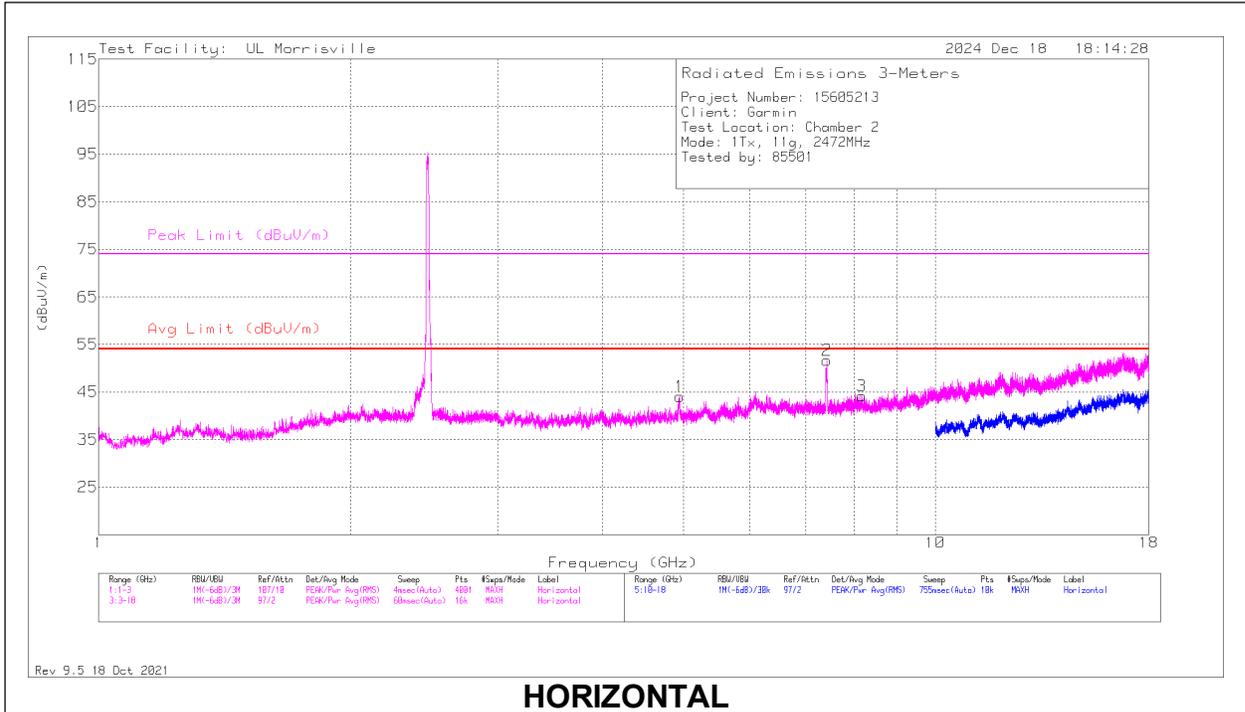
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

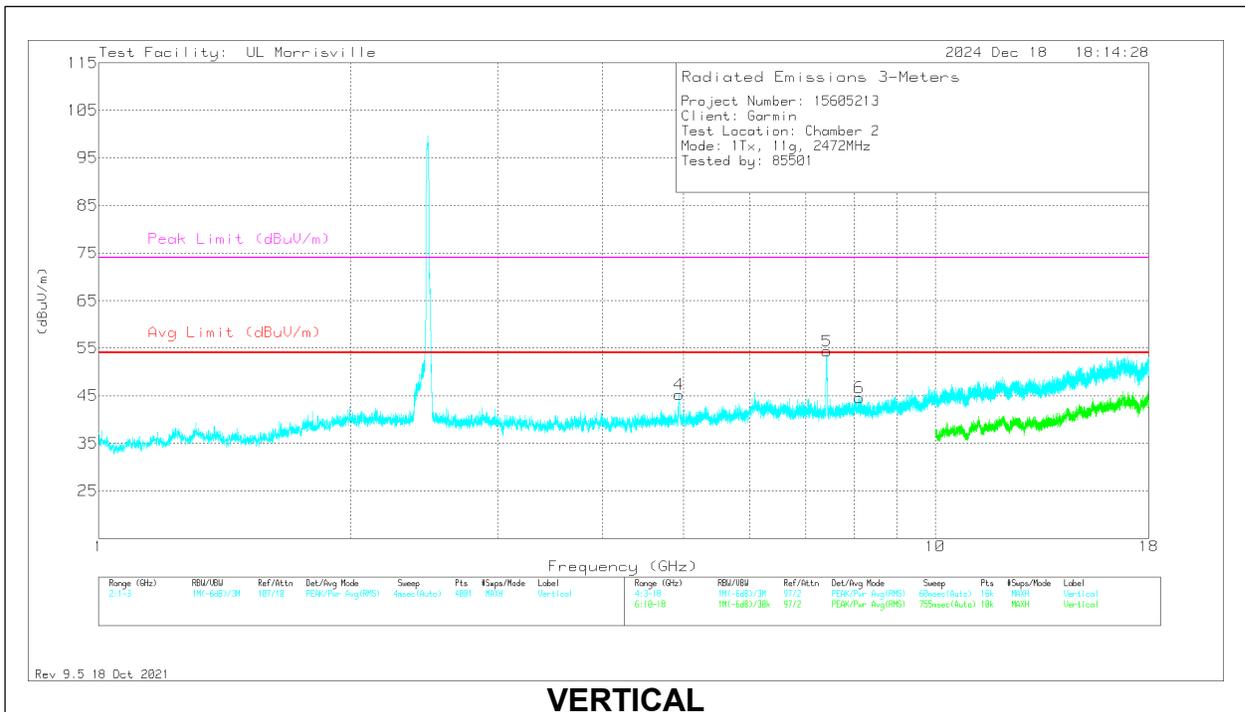
PK2 - Maximum Peak

ADV - Linear Voltage Average

### HIGH CHANNEL



### HORIZONTAL



### VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.94625	53.66	Pk	34	-43.6	44.06	54	-9.94	74	-29.94	0-360	199	H
2	*** 7.4174	60.92	PK2	35.6	-41.1	55.42	-	-	74	-18.58	164	138	H
	*** 7.42018	48.15	ADV	35.6	-41.3	42.45	54	-11.55	-	-	164	138	H
3	*** 8.16656	48.84	Pk	35.8	-40.4	44.24	54	-9.76	74	-29.76	0-360	101	H
4	*** 4.9425	54.84	Pk	34	-43.6	45.24	54	-8.76	74	-28.76	0-360	101	V
5	*** 7.4193	62.94	PK2	35.6	-41.2	57.34	-	-	74	-16.66	6	112	V
	*** 7.41837	49.6	ADV	35.6	-41.2	44	54	-10	-	-	6	112	V
6	*** 8.11594	49.82	Pk	35.8	-41	44.62	54	-9.38	74	-29.38	0-360	199	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

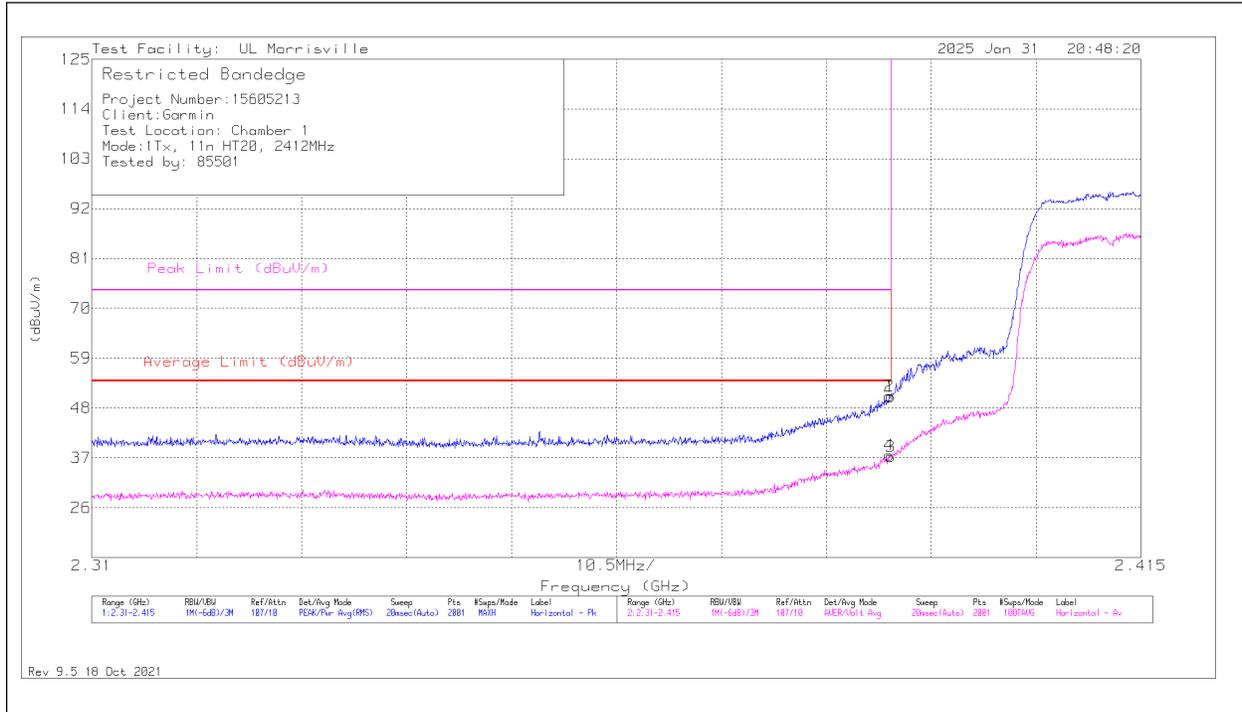
PK2 - Maximum Peak

ADV - Linear Voltage Average

### 10.1.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

#### BANDEDGE (LOW CHANNEL, 2412MHz)

#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	42.57	Pk	31.9	-24	50.47	-	-	74	-23.53	54	111	H
2	* ** 2.3898	42.72	Pk	31.9	-24	50.62	-	-	74	-23.38	54	111	H
3	* ** 2.38996	29.34	ADV	31.9	-24	37.24	54	-16.76	-	-	54	111	H
4	* ** 2.3898	29.73	ADV	31.9	-24	37.63	54	-16.37	-	-	54	111	H

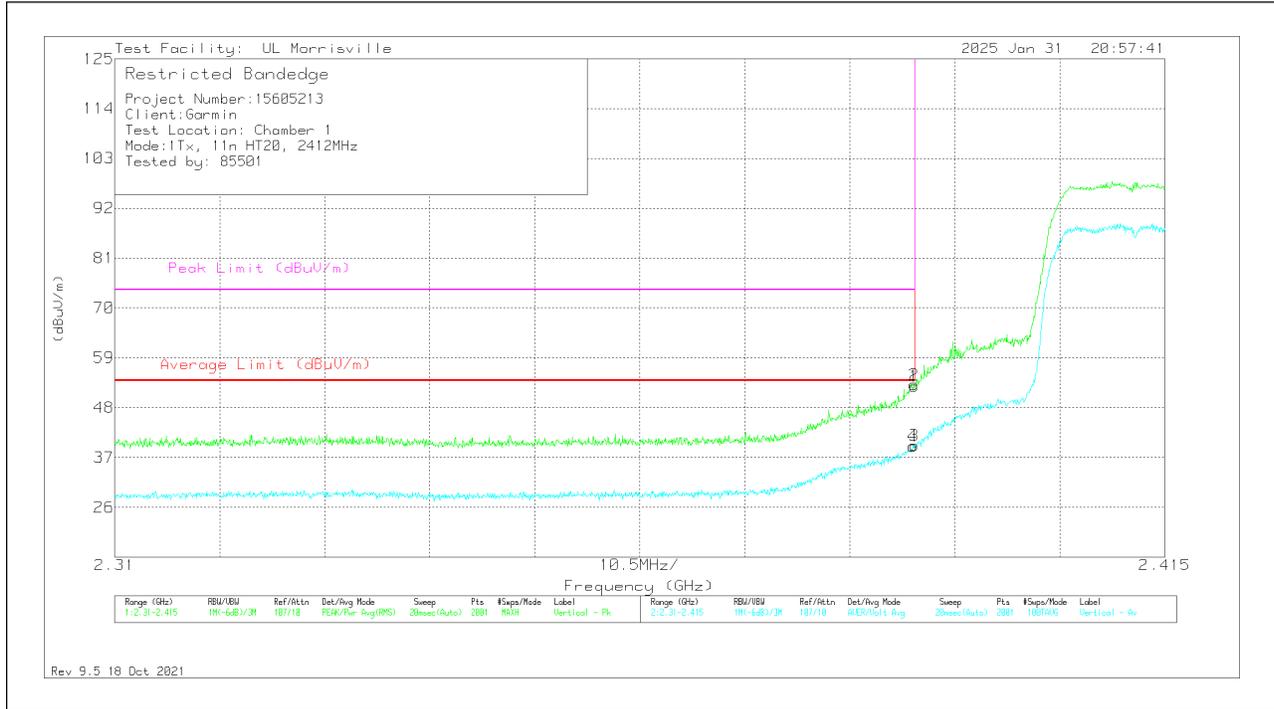
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULTS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	44.83	Pk	31.9	-24	52.73	-	-	74	-21.27	271	117	V
2	*** 2.38991	45.16	Pk	31.9	-24	53.06	-	-	74	-20.94	271	117	V
3	*** 2.38996	31.69	ADV	31.9	-24	39.59	54	-14.41	-	-	271	117	V
4	*** 2.3898	31.55	ADV	31.9	-24	39.45	54	-14.55	-	-	271	117	V

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

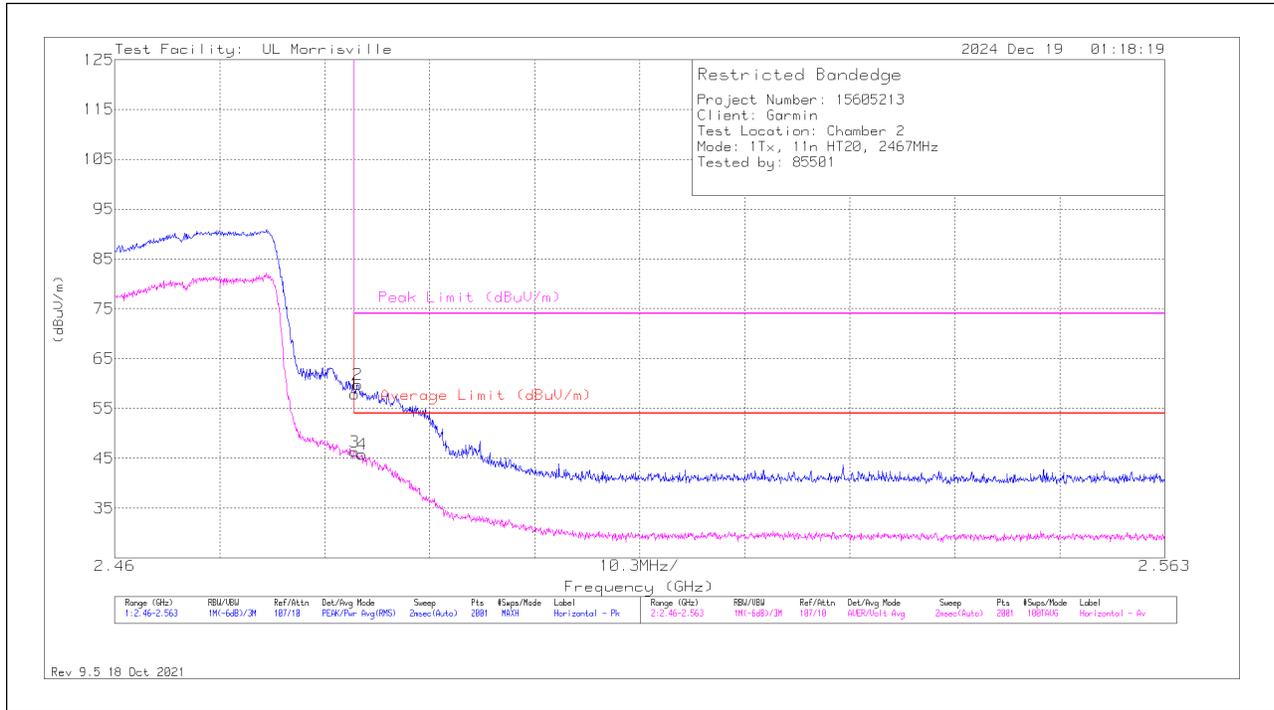
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2467MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	49.53	Pk	32.5	-24.1	57.93	-	-	74	-16.07	246	381	H
2	*** 2.48384	51.46	Pk	32.5	-24.2	59.76	-	-	74	-14.24	246	381	H
3	*** 2.48354	37.93	ADV	32.5	-24.1	46.33	54	-7.67	-	-	246	381	H
4	*** 2.48426	37.52	ADV	32.5	-24.2	45.82	54	-8.18	-	-	246	381	H

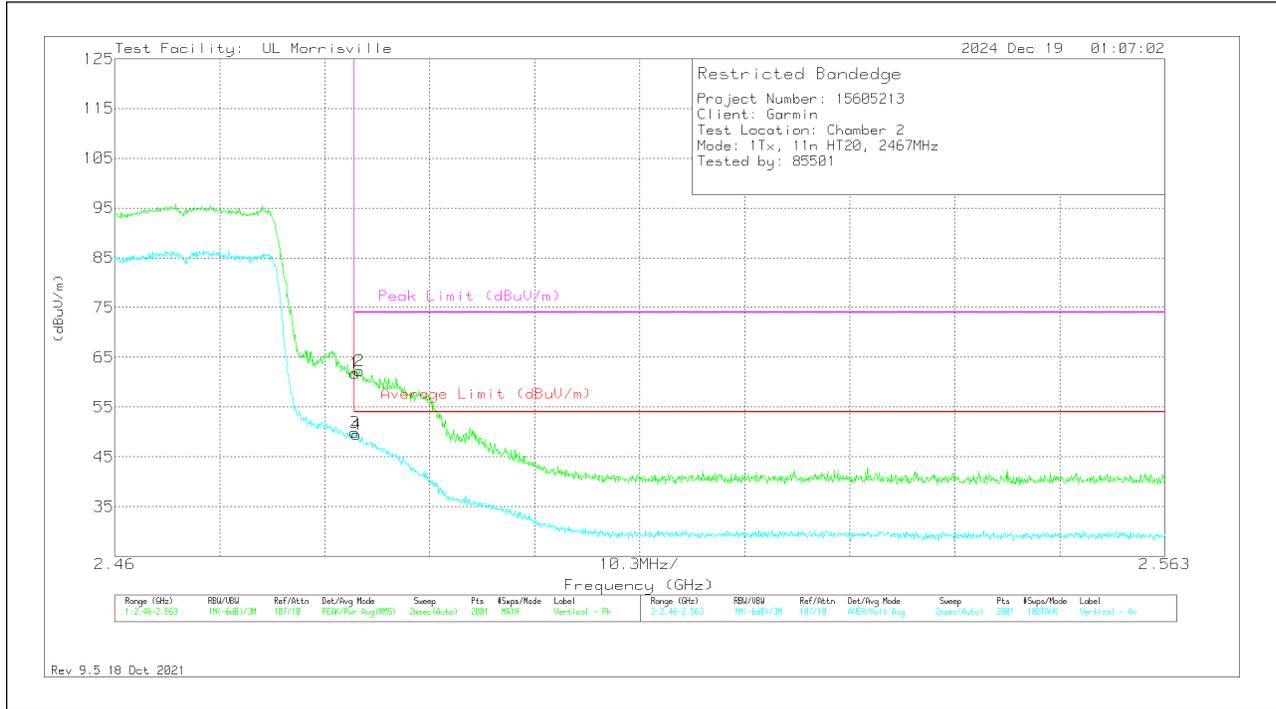
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	53.37	Pk	32.5	-24.1	61.77	-	-	74	-12.23	343	106	V
2	*** 2.484	54.02	Pk	32.5	-24.2	62.32	-	-	74	-11.68	343	106	V
3	*** 2.48354	41.54	ADV	32.5	-24.1	49.94	54	-4.06	-	-	343	106	V
4	*** 2.48374	41.07	ADV	32.5	-24.1	49.47	54	-4.53	-	-	343	106	V

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

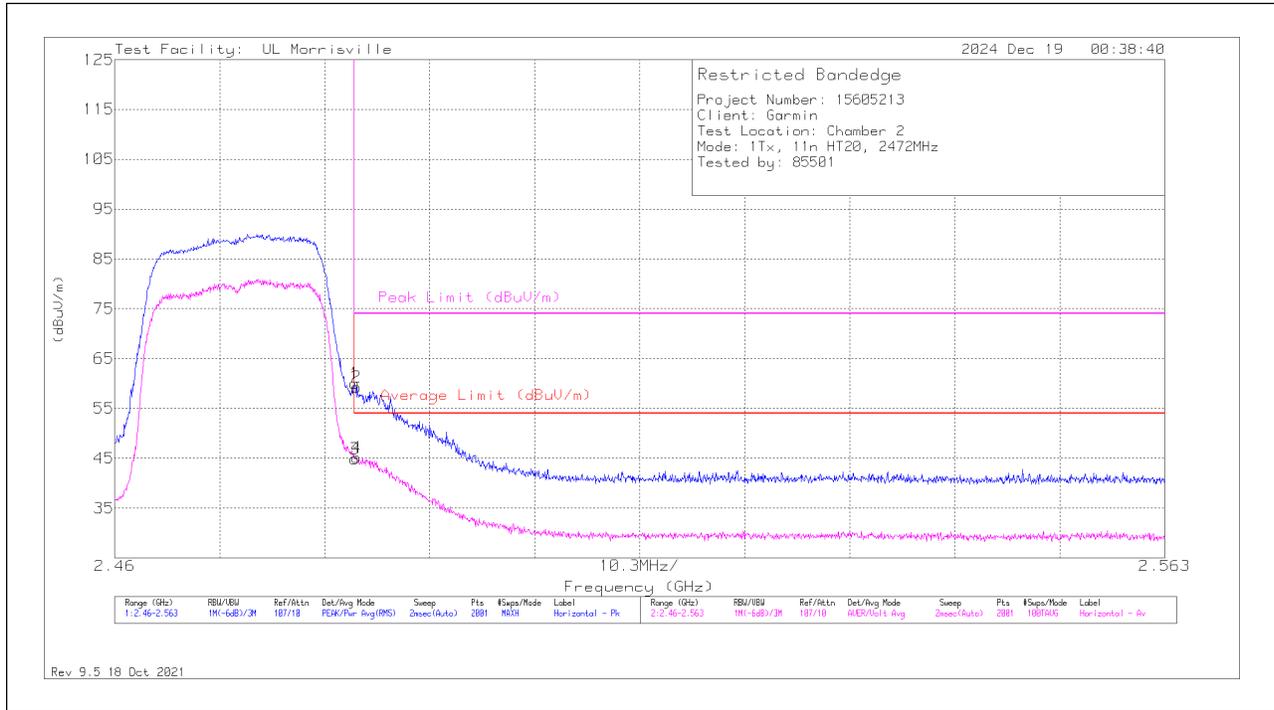
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2472MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	51.63	Pk	32.5	-24.1	60.03	-	-	74	-13.97	256	388	H
2	*** 2.48374	50.86	Pk	32.5	-24.1	59.26	-	-	74	-14.74	256	388	H
3	*** 2.48354	36.51	ADV	32.5	-24.1	44.91	54	-9.09	-	-	256	388	H
4	*** 2.48374	36.75	ADV	32.5	-24.1	45.15	54	-8.85	-	-	256	388	H

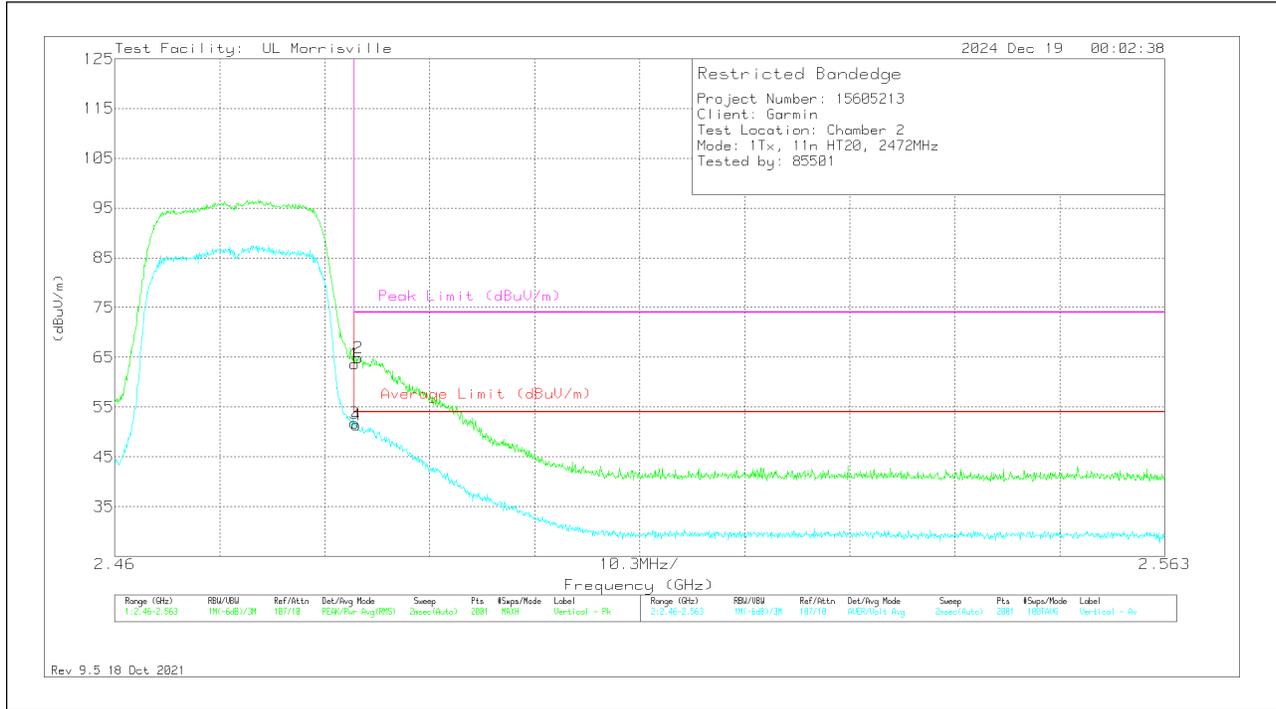
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	55.27	Pk	32.5	-24.1	63.67	-	-	74	-10.33	331	107	V
2	*** 2.4839	56.67	Pk	32.5	-24.2	64.97	-	-	74	-9.03	331	107	V
3	*** 2.48354	43.36	ADV	32.5	-24.1	51.76	54	-2.24	-	-	331	107	V
4	*** 2.48369	42.99	ADV	32.5	-24.1	51.39	54	-2.61	-	-	331	107	V

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

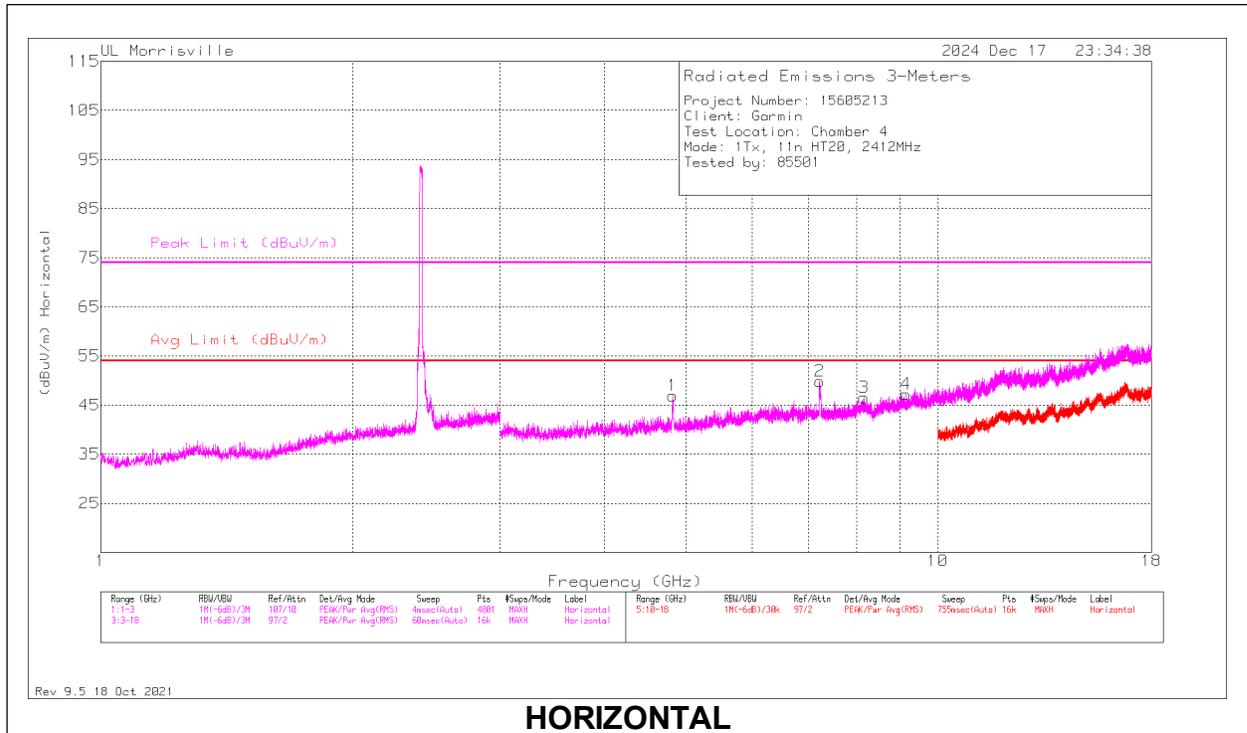
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

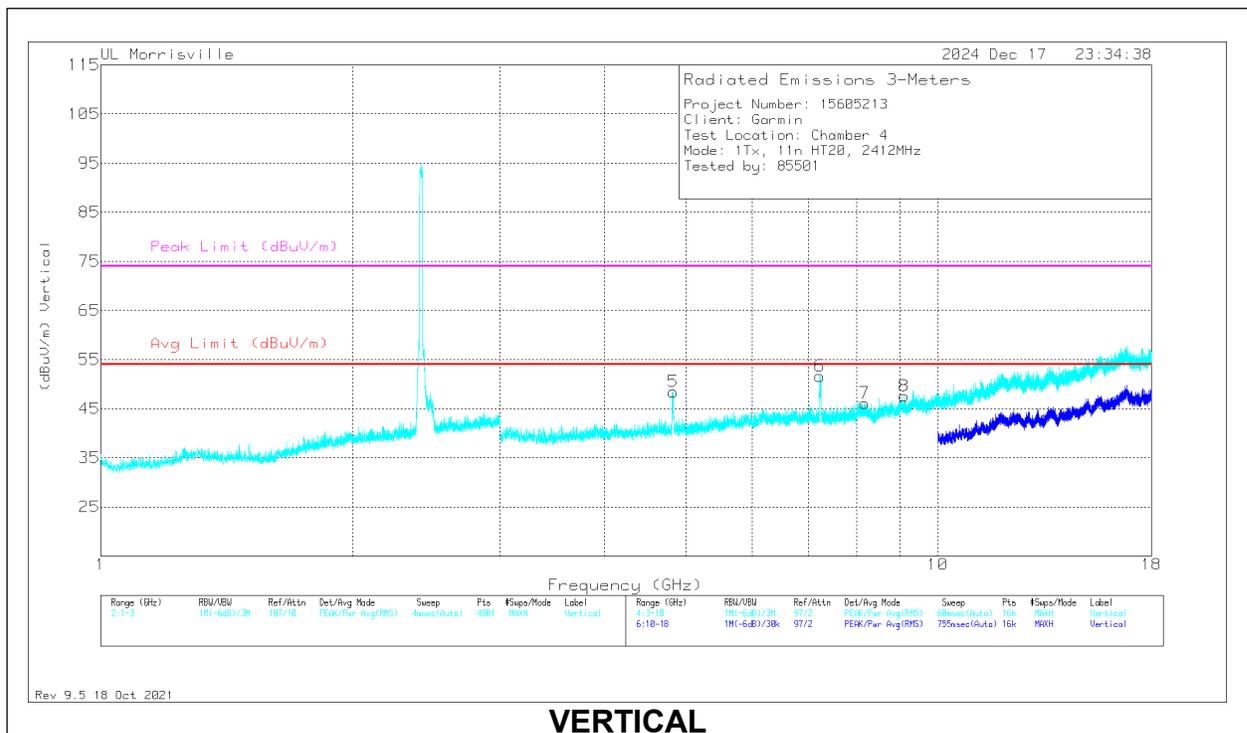
ADV - Linear Voltage Average

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL



## HORIZONTAL



## VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.8225	43.92	Pk	34.1	-31.1	46.92	54	-7.08	74	-27.08	0-360	100	H
3	*** 8.15906	37.33	Pk	35.8	-26.6	46.53	54	-7.47	74	-27.47	0-360	100	H
4	*** 9.16969	36.25	Pk	36.3	-25.3	47.25	54	-6.75	74	-26.75	0-360	100	H
5	*** 4.82676	49.27	PK2	34.1	-31.1	52.27	-	-	74	-21.73	108	130	V
	*** 4.82705	35.35	ADV	34.1	-31.1	38.35	54	-15.65	-	-	108	130	V
7	*** 8.1825	36.52	Pk	35.8	-26.2	46.12	54	-7.88	74	-27.88	0-360	200	V
8	*** 9.12188	36	Pk	36.3	-24.7	47.6	54	-6.4	74	-26.4	0-360	200	V
2	7.23	41.74	Pk	35.6	-27.5	49.84	-	-	-	-	0-360	100	H
6	7.23	43.53	Pk	35.6	-27.5	51.63	-	-	-	-	0-360	200	V

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

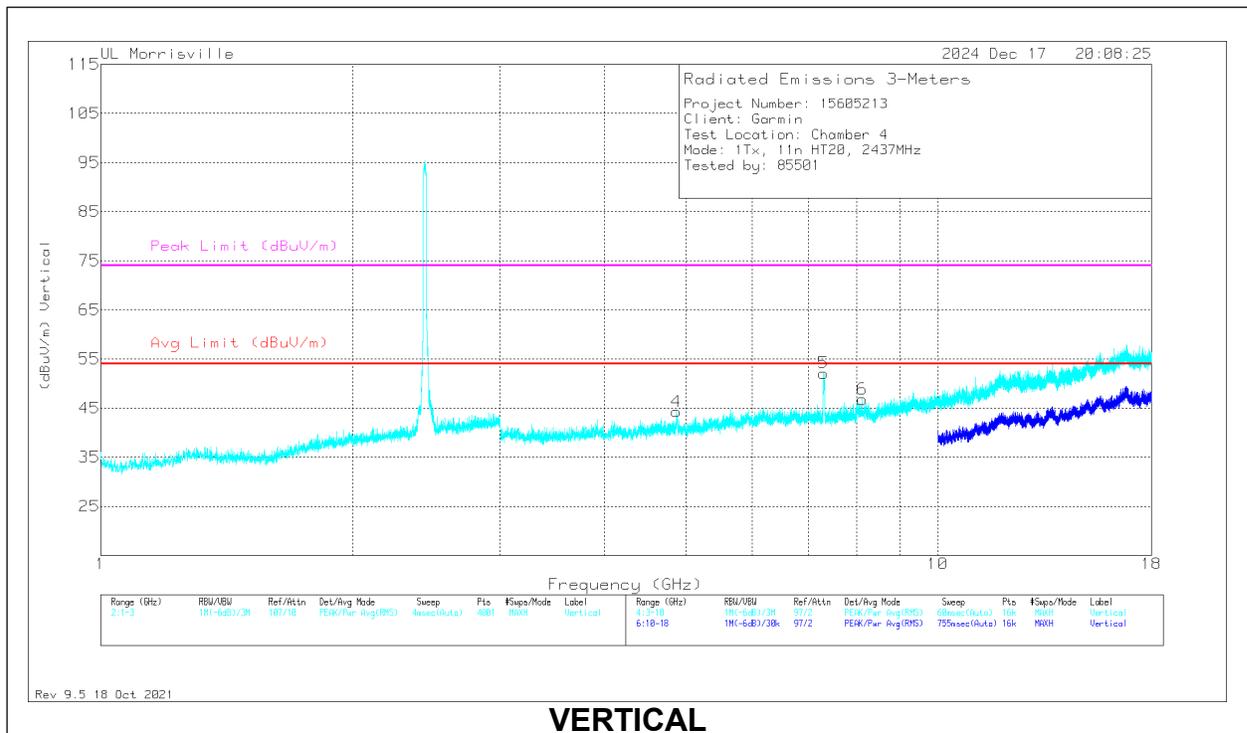
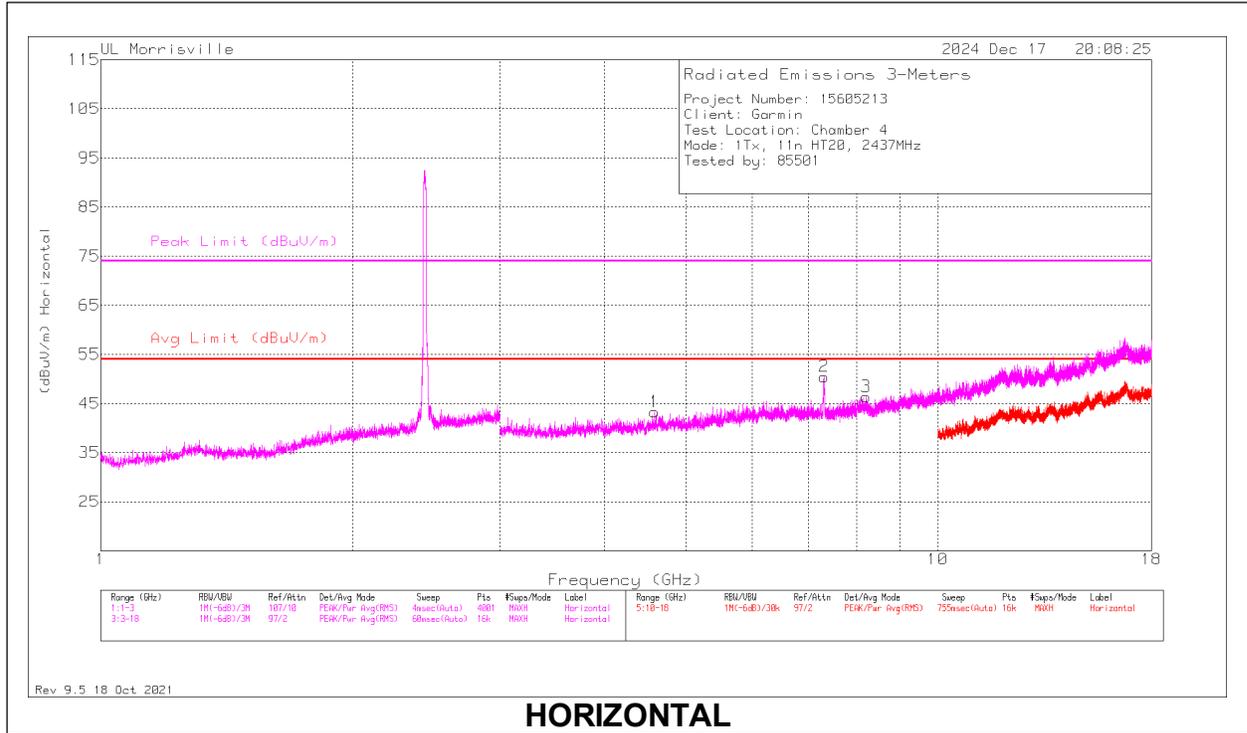
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

ADV - Linear Voltage Average

### MID CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.58813	40.58	Pk	34.1	-31.4	43.28	54	-10.72	74	-30.72	0-360	100	H
2	*** 7.30949	49.28	PK2	35.7	-27.5	57.48	-	-	74	-16.52	300	115	H
	*** 7.30999	34.11	ADV	35.7	-27.5	42.31	54	-11.69	-	-	300	115	H
3	*** 8.20969	36.87	Pk	35.8	-26.3	46.37	54	-7.63	74	-27.63	0-360	100	H
4	*** 4.87406	41.36	Pk	34.1	-31.2	44.26	54	-9.74	74	-29.74	0-360	200	V
5	*** 7.30254	46.64	PK2	35.7	-27.4	54.94	-	-	74	-19.06	264	225	V
	*** 7.30287	32.32	ADV	35.7	-27.4	40.62	54	-13.38	-	-	264	225	V
6	*** 8.12344	37.79	Pk	35.8	-26.8	46.79	54	-7.21	74	-27.21	0-360	200	V

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

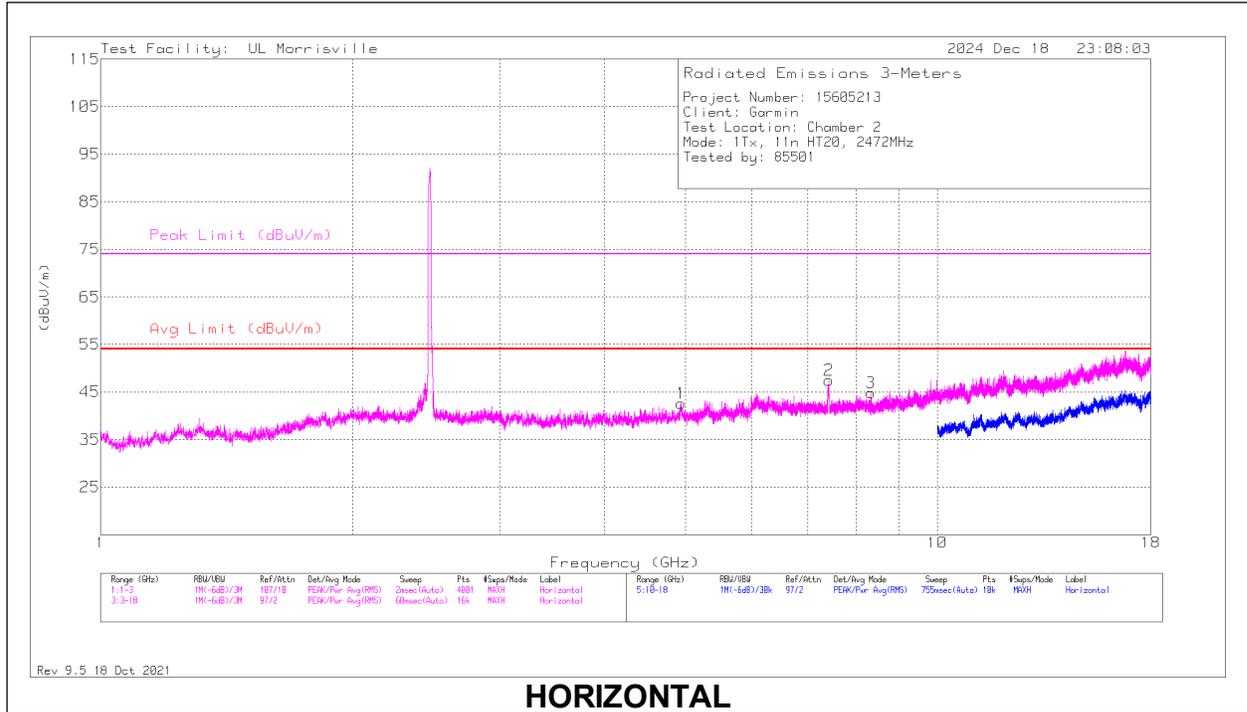
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

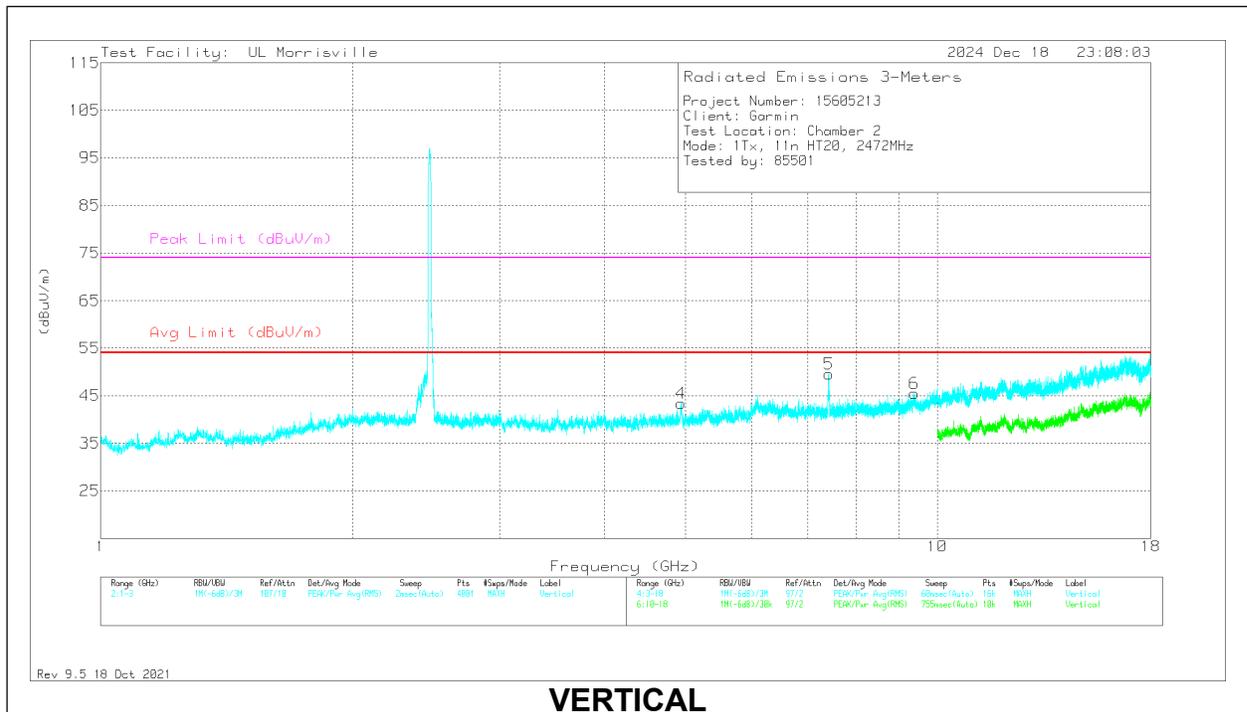
PK2 - Maximum Peak

ADV - Linear Voltage Average

### HIGH CHANNEL



### HORIZONTAL



### VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.94344	52.08	Pk	34	-43.5	42.58	54	-11.42	74	-31.42	0-360	101	H
2	*** 7.42313	53.25	Pk	35.6	-41.4	47.45	54	-6.55	74	-26.55	0-360	199	H
3	*** 8.33438	49.7	Pk	35.8	-40.7	44.8	54	-9.2	74	-29.2	0-360	199	H
4	*** 4.94344	52.95	Pk	34	-43.5	43.45	54	-10.55	74	-30.55	0-360	101	V
5	*** 7.41826	58.12	PK2	35.6	-41.1	52.62	-	-	74	-21.38	21	104	V
	*** 7.41763	45.01	ADV	35.6	-41.1	39.51	54	-14.49	-	-	21	104	V
6	*** 9.39469	48.75	Pk	36.2	-39.5	45.45	54	-8.55	74	-28.55	0-360	199	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

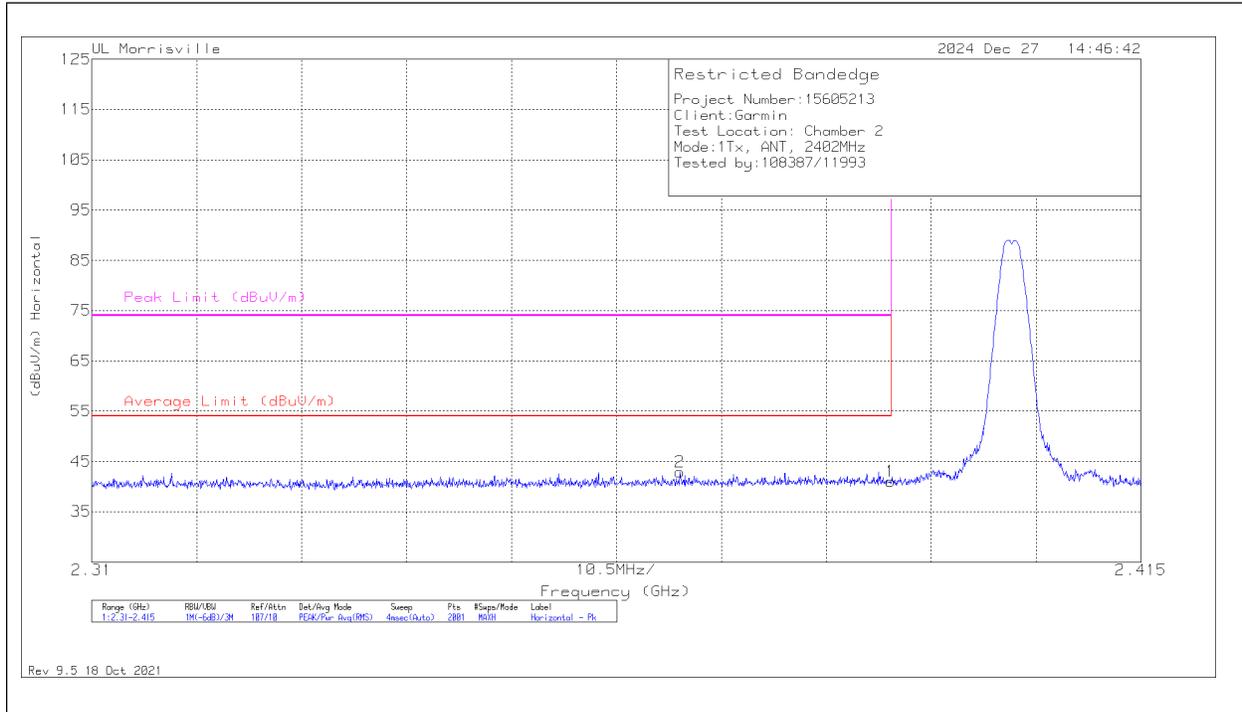
PK2 - Maximum Peak

ADV - Linear Voltage Average

### 10.1.4. TX ABOVE 1 GHz ANT/ANT+ MODE IN THE 2.4 GHz BAND

#### BANDEDGE (LOW CHANNEL, 2402MHz)

#### HORIZONTAL RESULT



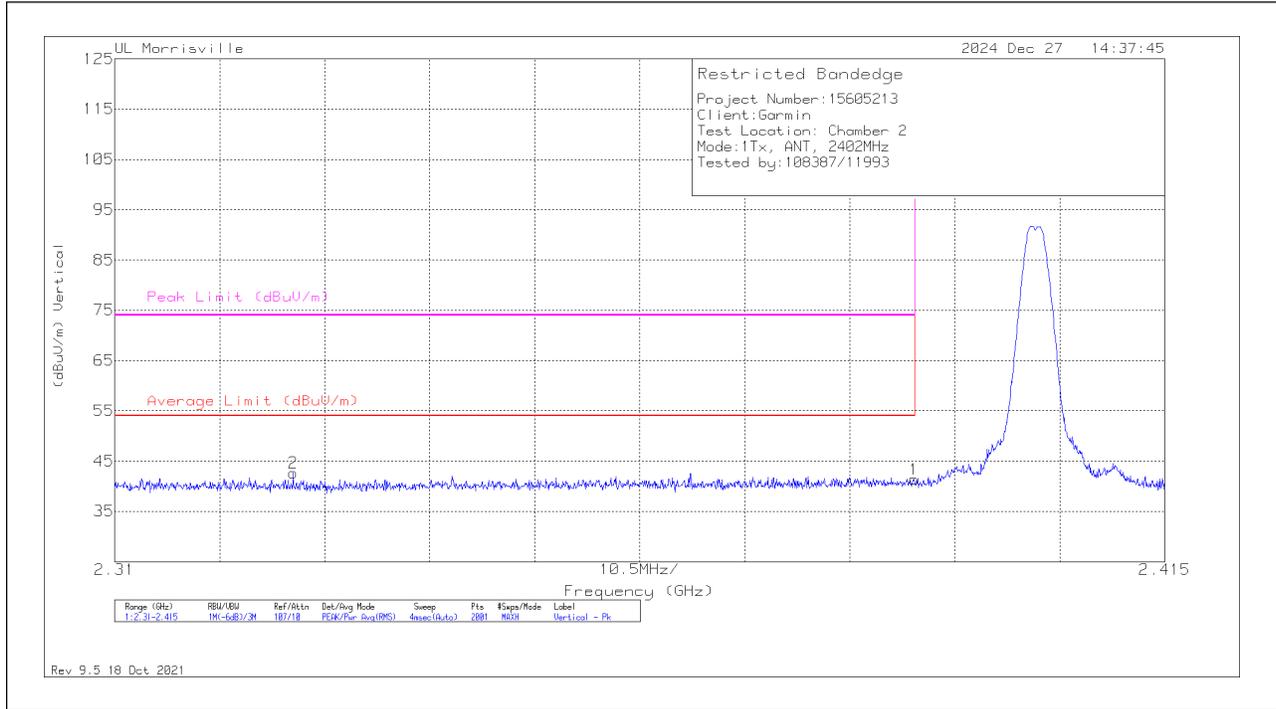
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	32.38	Pk	32.3	-23.6	0	41.08	-	-	74	-32.92	232	103	H
	*** 2.38996	32.38	Pk	32.3	-23.6	-17.72	23.36	54	-30.64	-	-	232	103	H
2	*** 2.36885	34.36	Pk	32.2	-23.6	0	42.96	-	-	74	-31.04	232	103	H
	*** 2.36885	34.36	Pk	32.2	-23.6	-17.72	25.24	54	-28.76	-	-	232	103	H

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### VERTICAL RESULT

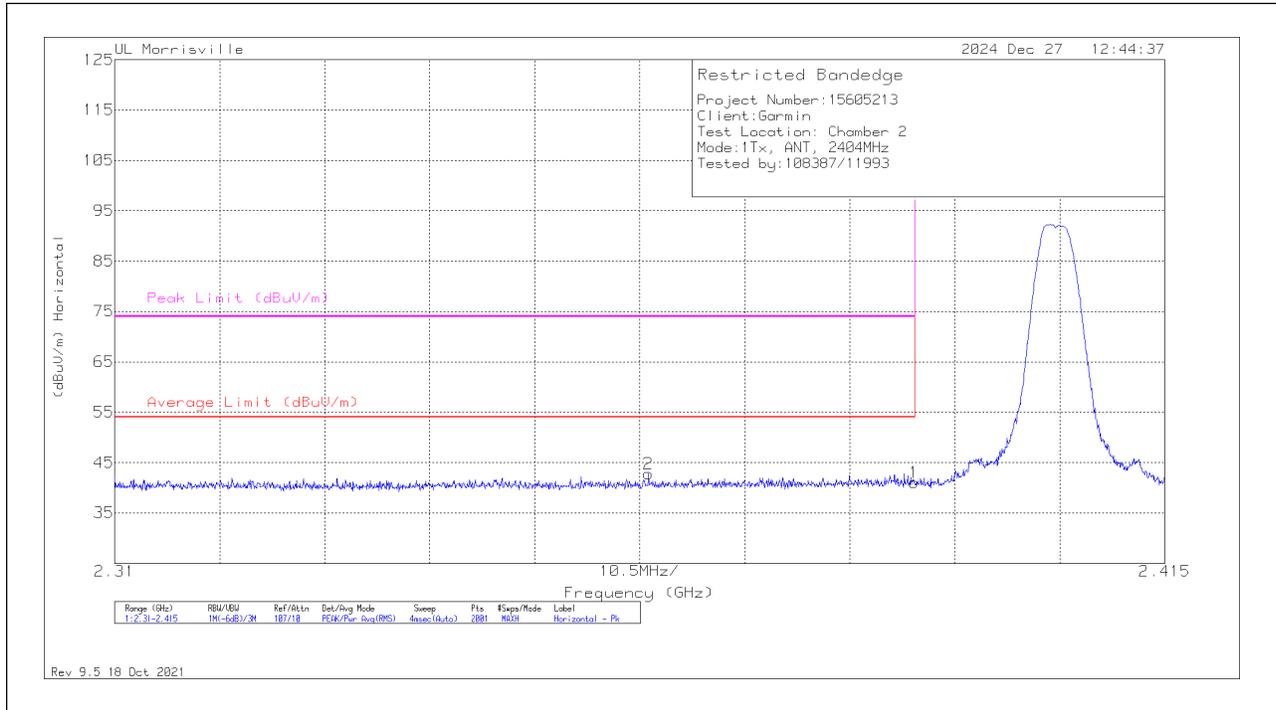


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	32.67	Pk	32.3	-23.6	0	41.37	-	-	74	-32.63	340	132	V
	*** 2.38996	32.67	Pk	32.3	-23.6	-17.72	23.65	54	-30.35	-	-	340	132	V
2	*** 2.32785	34.05	Pk	32.1	-23.5	0	42.65	-	-	74	-31.35	340	132	V
	*** 2.32785	34.05	Pk	32.1	-23.5	-17.72	24.93	54	-29.07	-	-	340	132	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

**BANDEDGE (LOW CHANNEL, 2404MHz)**

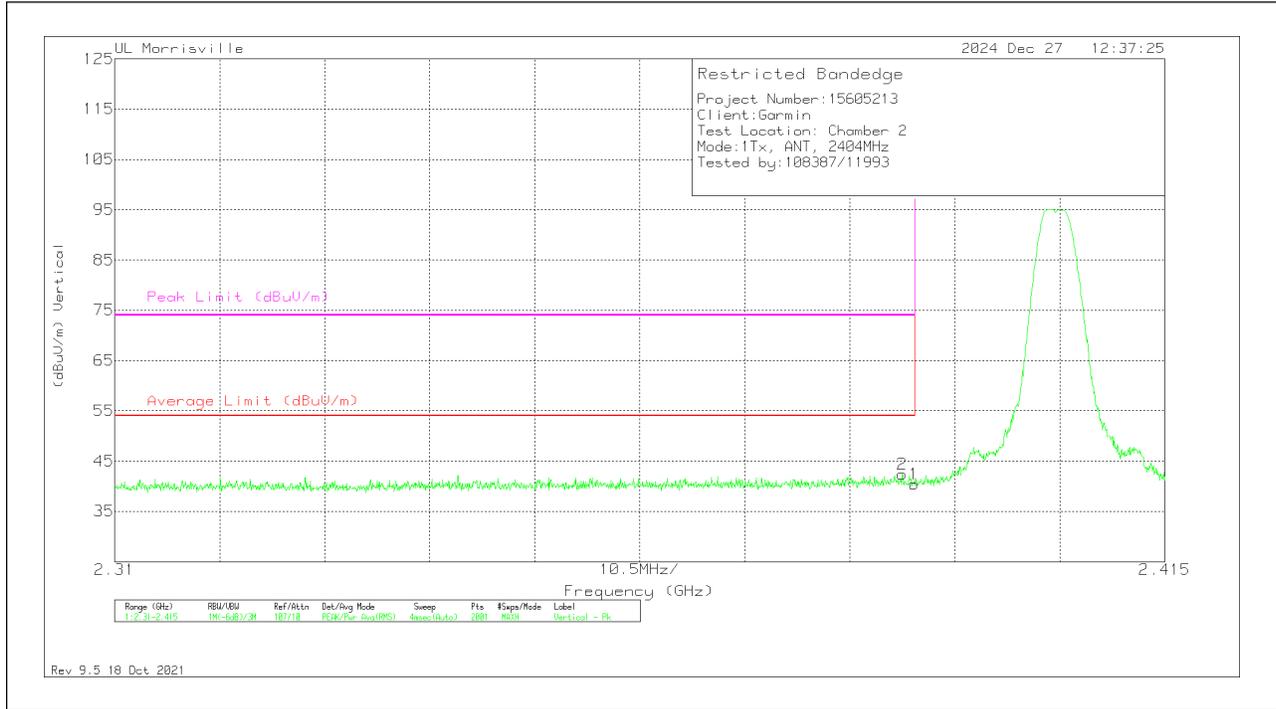
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	32.32	Pk	32.3	-23.6	0	41.02	-	-	74	-32.98	236	104	H
	* ** 2.38996	32.32	Pk	32.3	-23.6	-17.72	23.3	54	-30.7	-	-	236	104	H
2	* ** 2.36339	34.24	Pk	32.2	-23.6	0	42.84	-	-	74	-31.16	236	104	H
	* ** 2.36339	34.24	Pk	32.2	-23.6	-17.72	25.12	54	-28.88	-	-	236	104	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

### VERTICAL RESULT

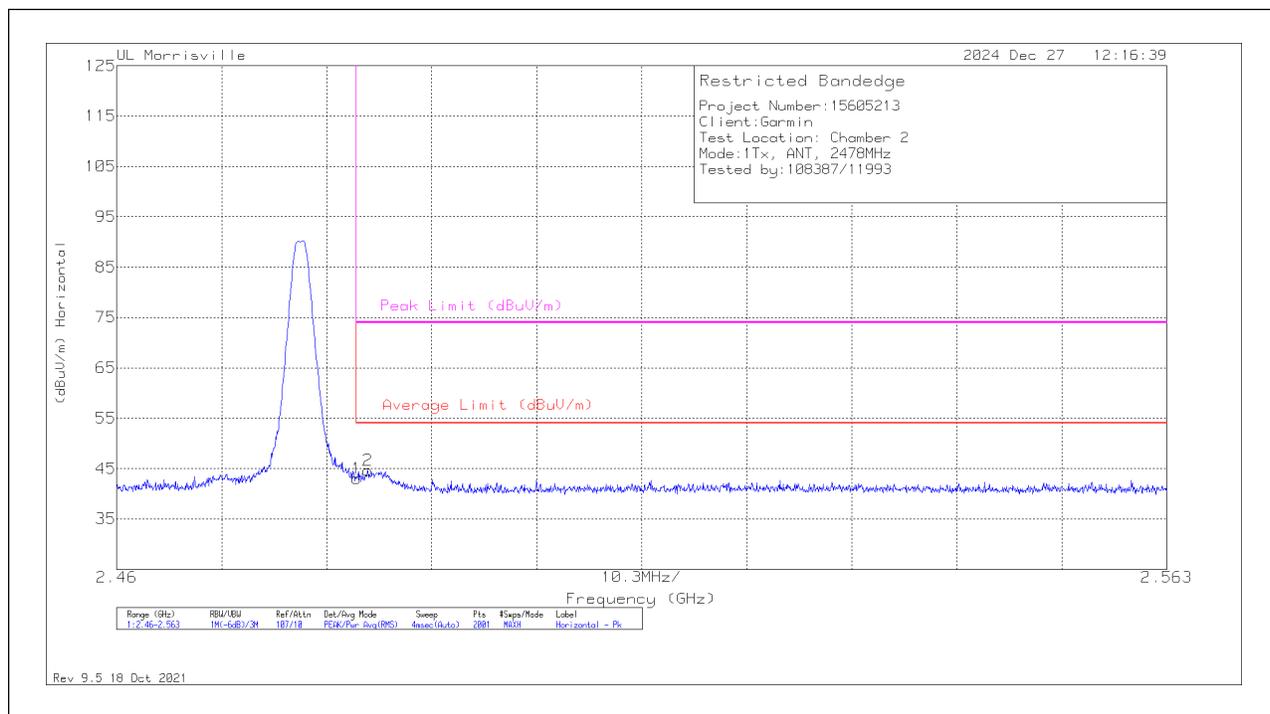


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	31.73	Pk	32.3	-23.6	0	40.43	-	-	74	-33.57	340	126	V
	*** 2.38996	31.73	Pk	32.3	-23.6	-17.72	22.71	54	-31.29	-	-	340	126	V
2	*** 2.38875	33.61	Pk	32.3	-23.5	0	42.41	-	-	74	-31.59	340	126	V
	*** 2.38875	33.61	Pk	32.3	-23.5	-17.72	24.69	54	-29.31	-	-	340	126	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

**BANDEDGE (HIGH CHANNEL, 2478MHz)**

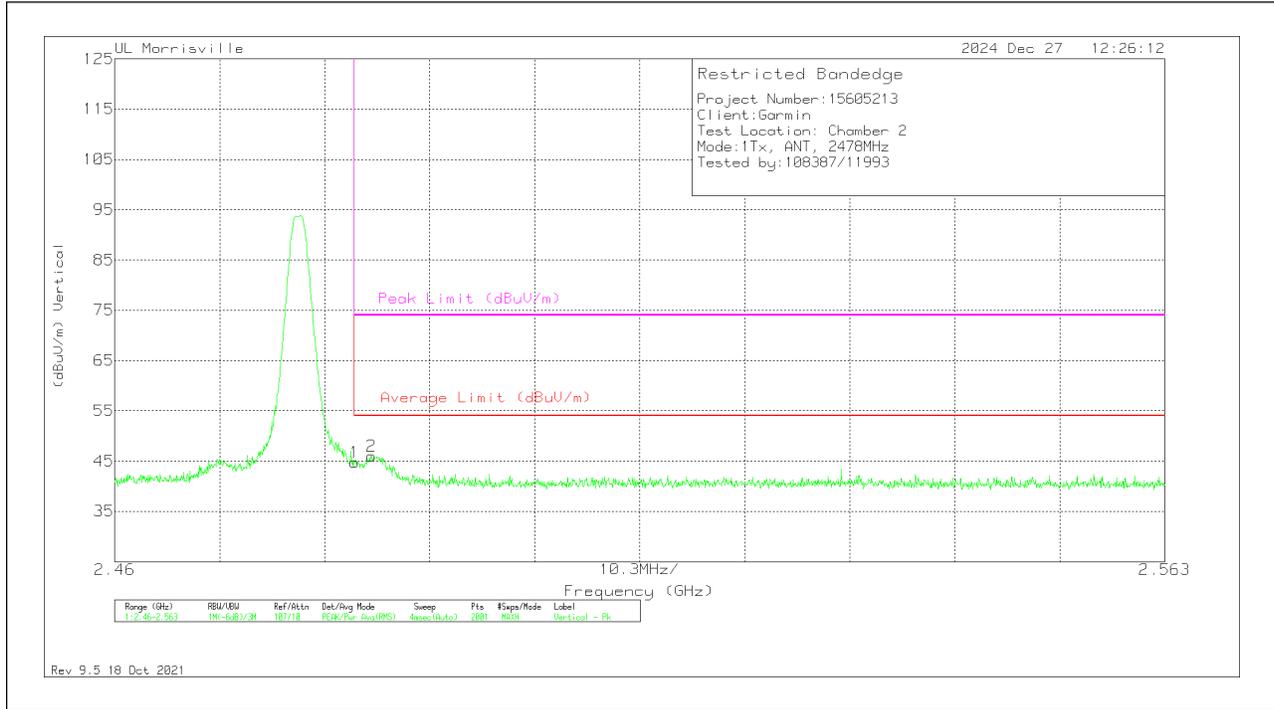
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	34.63	Pk	32.5	-24.1	0	43.03	-	-	74	-30.97	234	117	H
	*** 2.48354	34.63	Pk	32.5	-24.1	-17.72	25.31	54	-28.69	-	-	234	117	H
2	*** 2.48462	36.39	Pk	32.5	-24.2	0	44.69	-	-	74	-29.31	234	117	H
	*** 2.48462	36.39	Pk	32.5	-24.2	-17.72	26.97	54	-27.03	-	-	234	117	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

### VERTICAL RESULT

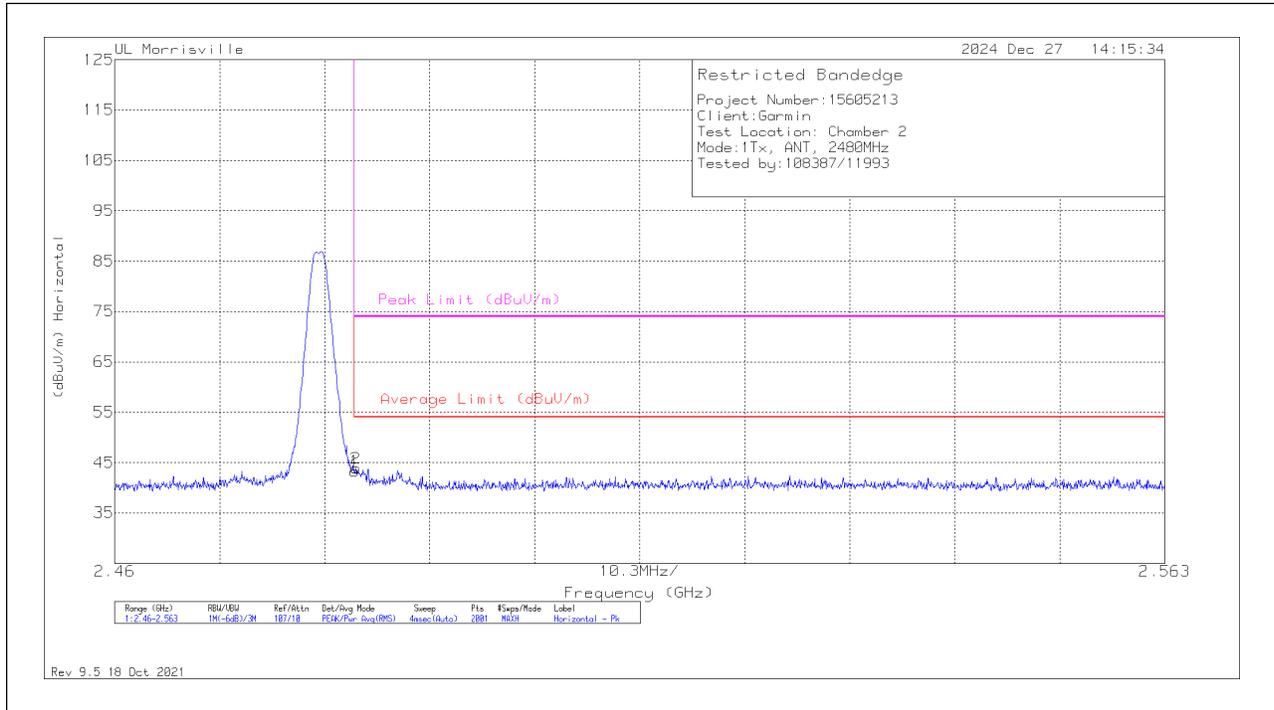


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	36.41	Pk	32.5	-24.1	0	44.81	-	-	74	-29.19	335	103	V
	*** 2.48354	36.41	Pk	32.5	-24.1	-17.72	27.09	54	-26.91	-	-	335	103	V
2	*** 2.48518	37.76	Pk	32.5	-24.2	0	46.06	-	-	74	-27.94	335	103	V
	*** 2.48518	37.76	Pk	32.5	-24.2	-17.72	28.34	54	-25.66	-	-	335	103	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

**BANDEDGE (HIGH CHANNEL, 2480MHz)**

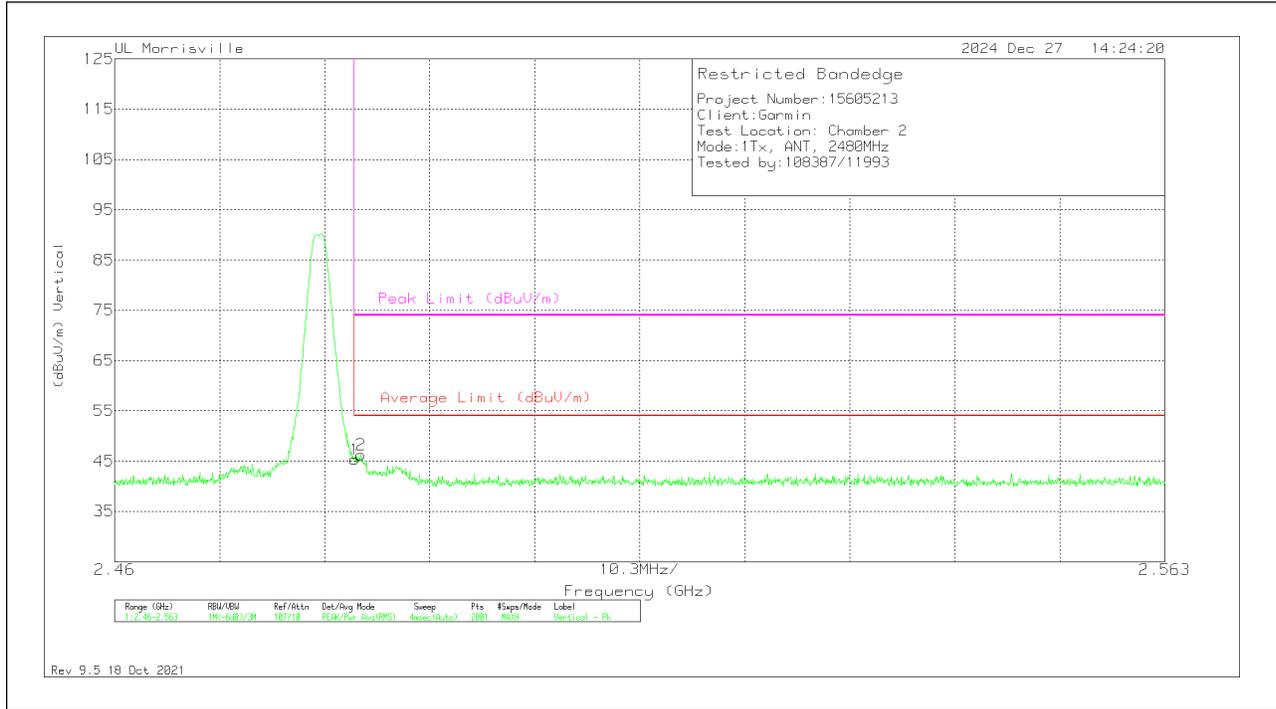
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	34.92	Pk	32.5	-24.1	0	43.32	-	-	74	-30.68	238	117	H
	*** 2.48354	34.92	Pk	32.5	-24.1	-17.72	25.6	54	-28.4	-	-	238	117	H
2	*** 2.48364	35.45	Pk	32.5	-24.1	0	43.85	-	-	74	-30.15	238	117	H
	*** 2.48364	35.45	Pk	32.5	-24.1	-17.72	26.13	54	-27.87	-	-	238	117	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

### VERTICAL RESULT

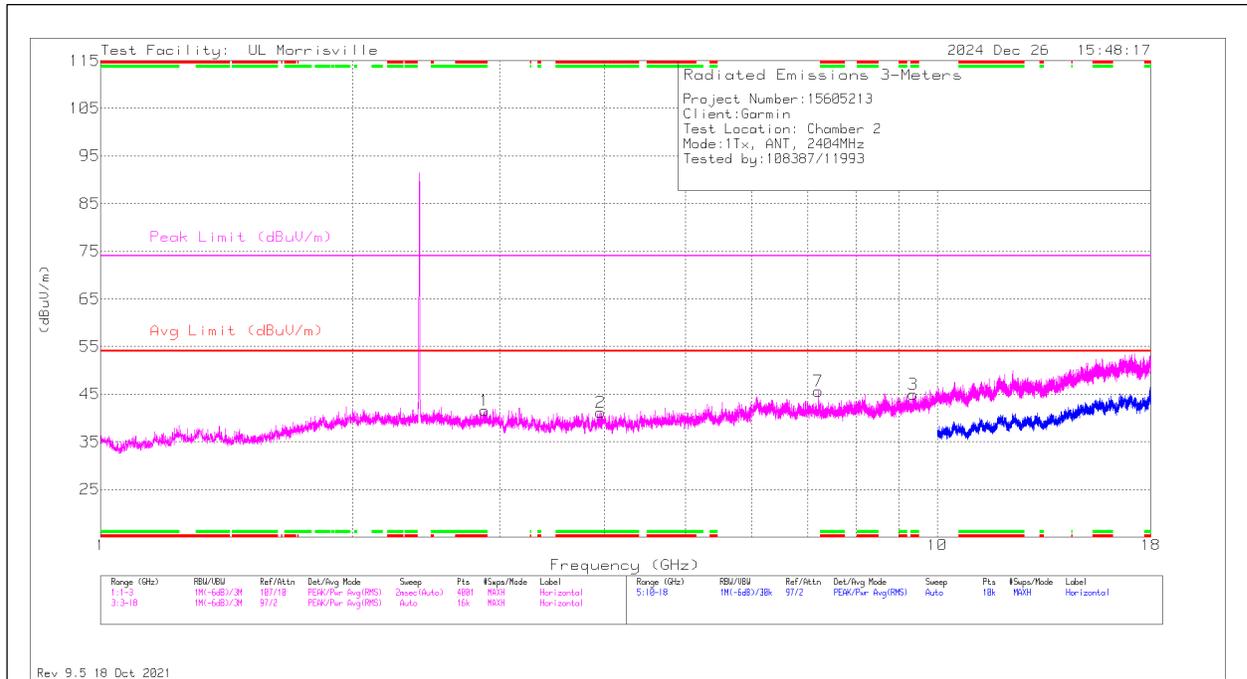


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	36.94	Pk	32.5	-24.1	0	45.34	-	-	74	-28.66	337	103	V
	*** 2.48354	36.94	Pk	32.5	-24.1	-17.72	27.62	54	-26.38	-	-	337	103	V
2	*** 2.48415	37.95	Pk	32.5	-24.2	0	46.25	-	-	74	-27.75	337	103	V
	*** 2.48415	37.95	Pk	32.5	-24.2	-17.72	28.53	54	-25.47	-	-	337	103	V

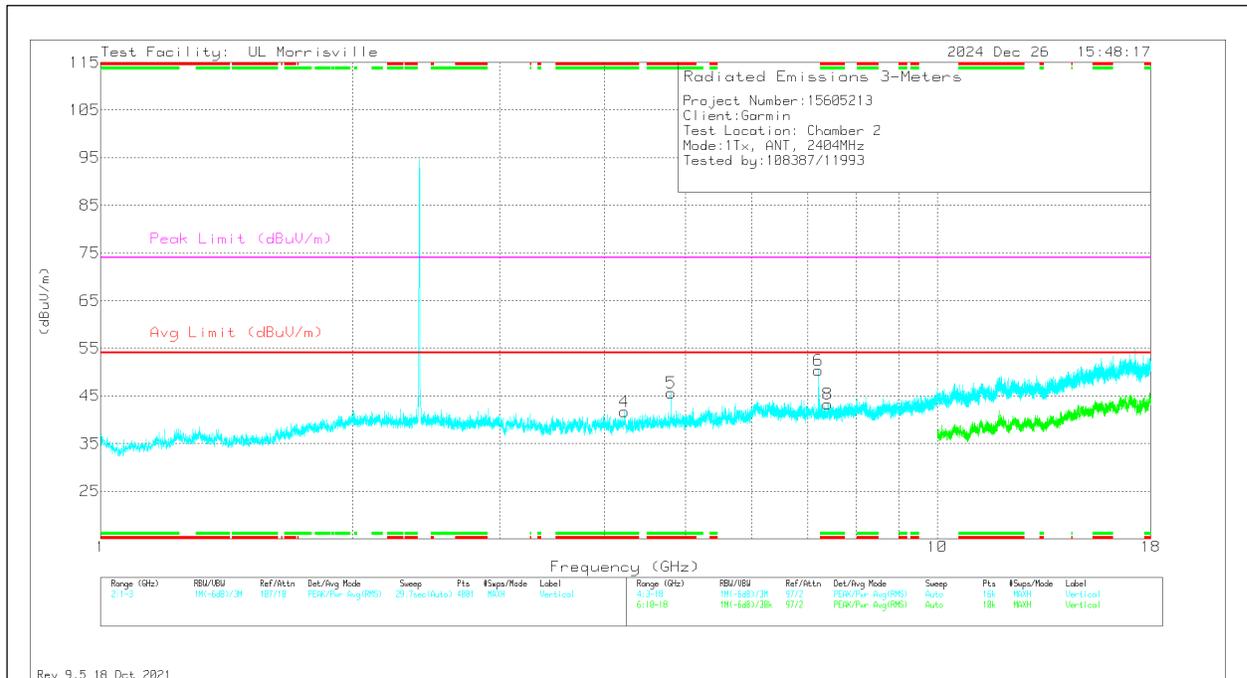
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL



## HORIZONTAL



## VERTICAL

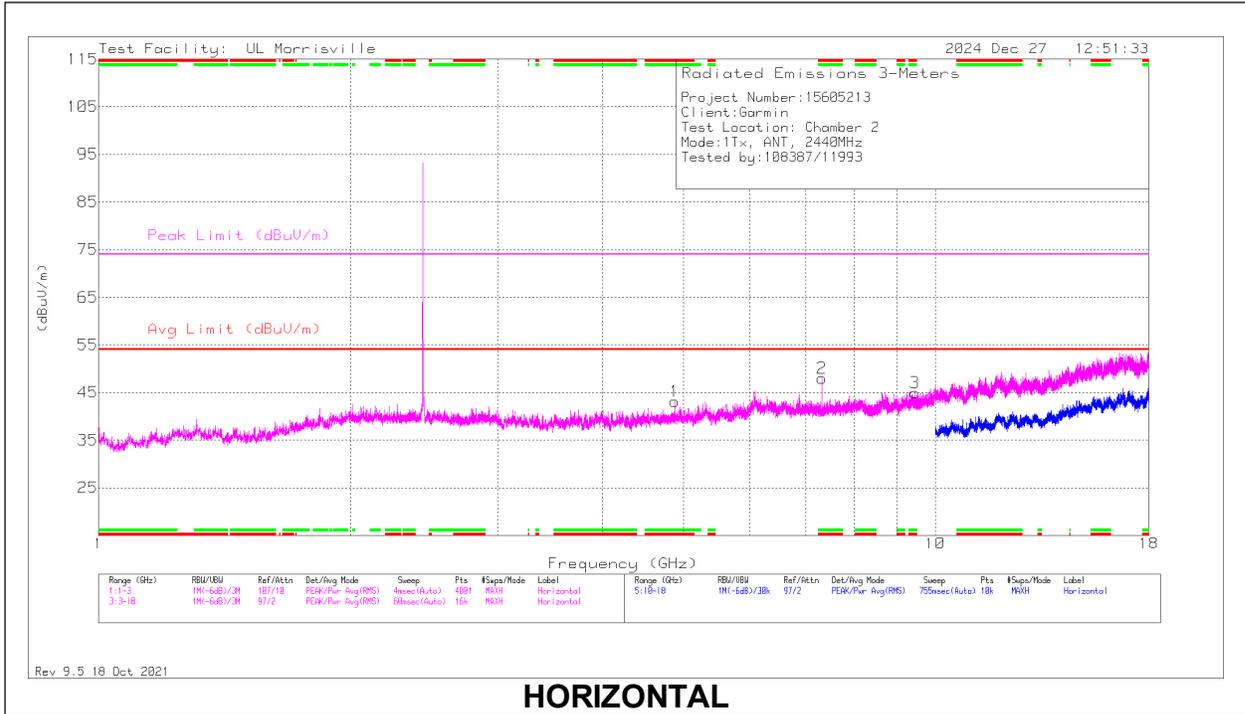
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.877	34.42	Pk	32.7	-25.5	41.62	54	-12.38	74	-32.38	0-360	199	H
2	*** 3.95813	52.88	Pk	33.4	-45.1	41.18	54	-12.82	74	-32.82	0-360	101	H
3	*** 9.35906	48.44	Pk	36.1	-39.6	44.94	54	-9.06	74	-29.06	0-360	101	H
4	*** 4.22813	52.83	Pk	33.4	-44.5	41.73	54	-12.27	74	-32.27	0-360	101	V
5	*** 4.80844	55.28	Pk	34.2	-43.8	45.68	54	-8.32	74	-28.32	0-360	200	V
8	*** 7.39313	48.91	Pk	35.6	-41.2	43.31	54	-10.69	74	-30.69	0-360	101	V
6	7.20938	56.45	Pk	35.6	-41.7	50.35	-	-	-	-	0-360	101	V
7	7.21031	51.7	Pk	35.6	-41.7	45.6	-	-	-	-	0-360	199	H

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

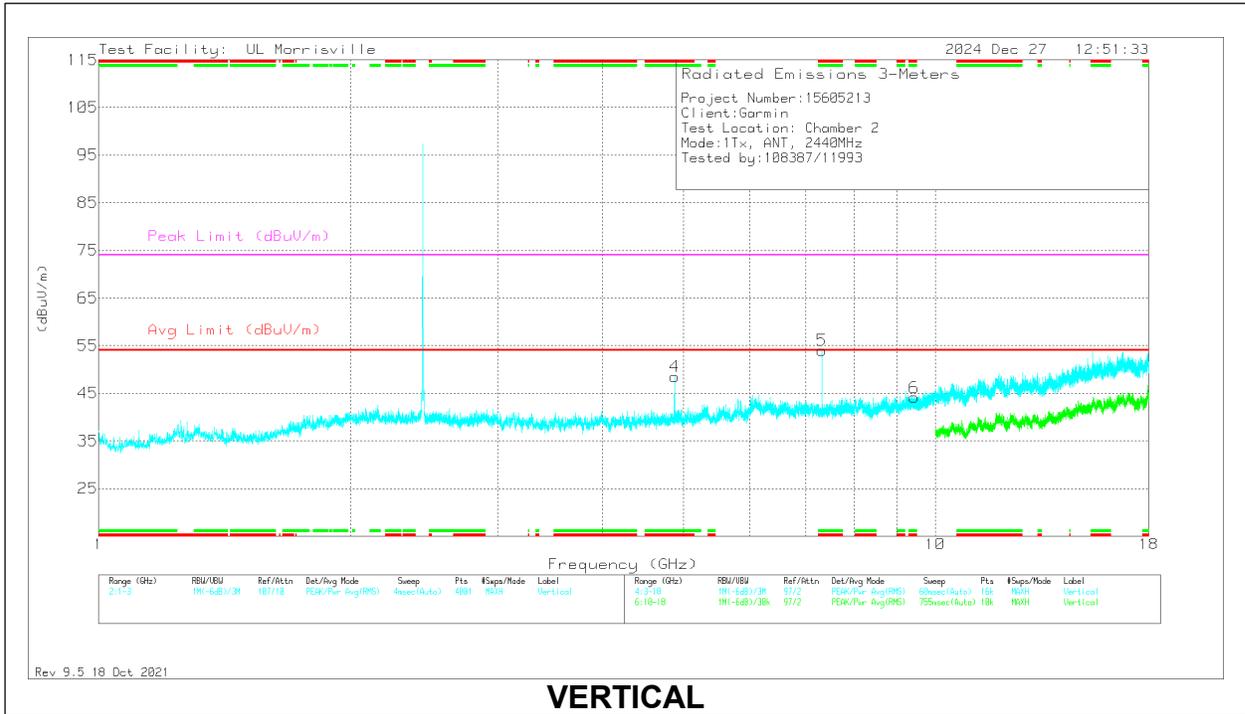
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

**MID CHANNEL**



**HORIZONTAL**



**VERTICAL**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.87969	52.7	Pk	34.1	-43.7	0	43.1	54	-10.9	74	-30.9	0-360	199	H
2	*** 7.32	54.17	Pk	35.6	-41.8	0	47.97	54	-6.03	74	-26.03	0-360	101	H
3	*** 9.45469	48.93	Pk	36.3	-40.3	0	44.93	54	-9.07	74	-29.07	0-360	199	H
4	*** 4.8795	60.93	PK2	34.1	-43.7	0	51.33	-	-	74	-22.67	204	325	V
	*** 4.8795	60.93	PK2	34.1	-43.7	-17.72	33.61	54	-20.39	-	-	204	325	V
5	*** 7.31935	61.1	PK2	35.6	-41.8	0	54.9	-	-	74	-19.1	352	119	V
	*** 7.31935	61.1	PK2	35.6	-41.8	-17.72	37.18	54	-16.82	-	-	352	119	V
6	*** 9.44531	48.22	Pk	36.3	-40.4	0	44.12	54	-9.88	74	-29.88	0-360	199	V

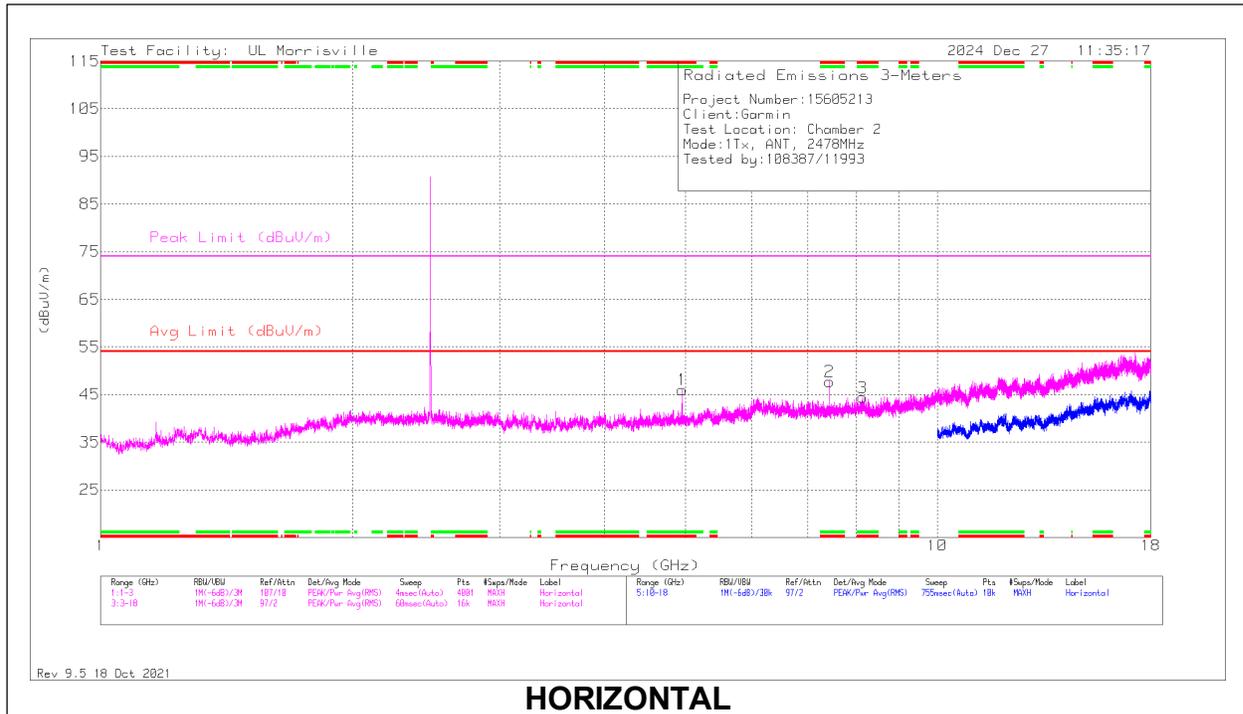
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

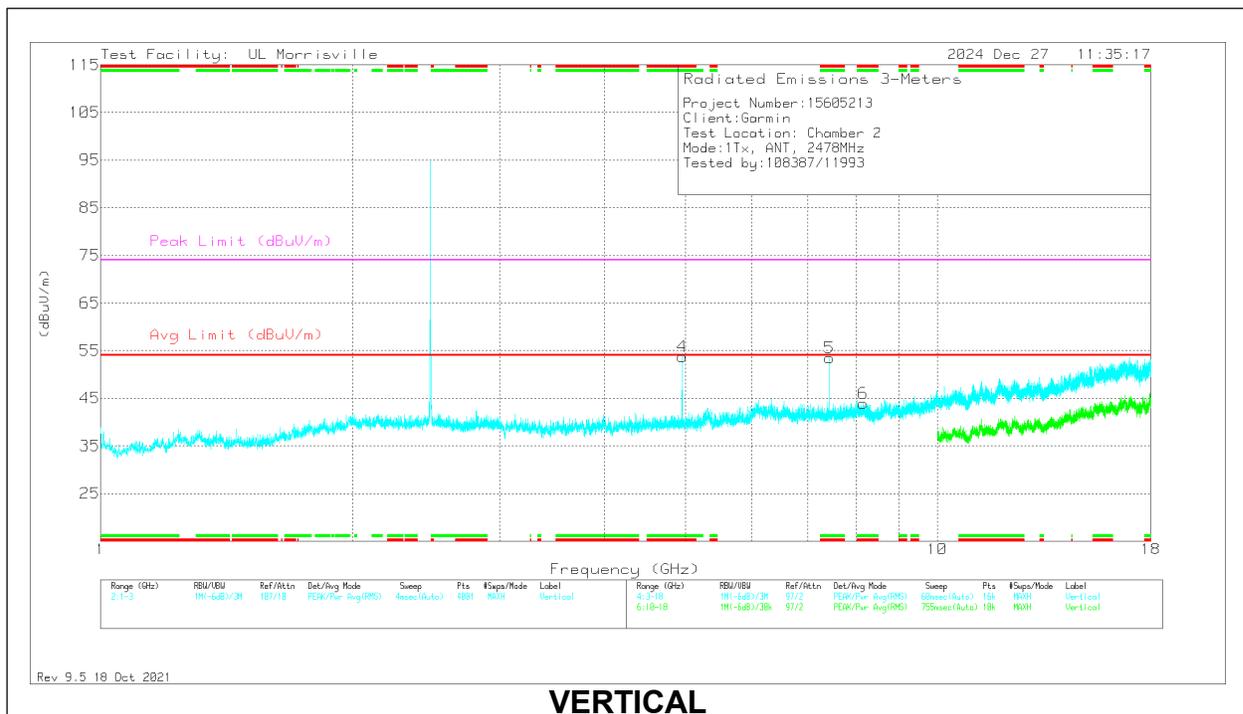
Pk - Peak detector

PK2 - Maximum Peak

### HIGH CHANNEL



### HORIZONTAL



### VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.95563	55.72	Pk	34	-43.7	0	46.02	54	-7.98	74	-27.98	0-360	200	H
2	*** 7.43438	53.2	Pk	35.6	-41.1	0	47.7	54	-6.3	74	-26.3	0-360	101	H
3	*** 8.1375	49.28	Pk	35.8	-40.7	0	44.38	54	-9.62	74	-29.62	0-360	200	H
4	*** 4.95544	61.07	PK2	34	-43.7	0	51.37	-	-	74	-22.63	203	359	V
	*** 4.95544	61.07	PK2	34	-43.7	-17.72	33.65	54	-20.35	-	-	203	359	V
5	*** 7.43338	60.23	PK2	35.6	-41.1	0	54.73	-	-	74	-19.27	31	105	V
	*** 7.43338	60.23	PK2	35.6	-41.1	-17.72	37.01	54	-16.99	-	-	31	105	V
6	*** 8.15344	48.86	Pk	35.8	-40.7	0	43.96	54	-10.04	74	-30.04	0-360	199	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

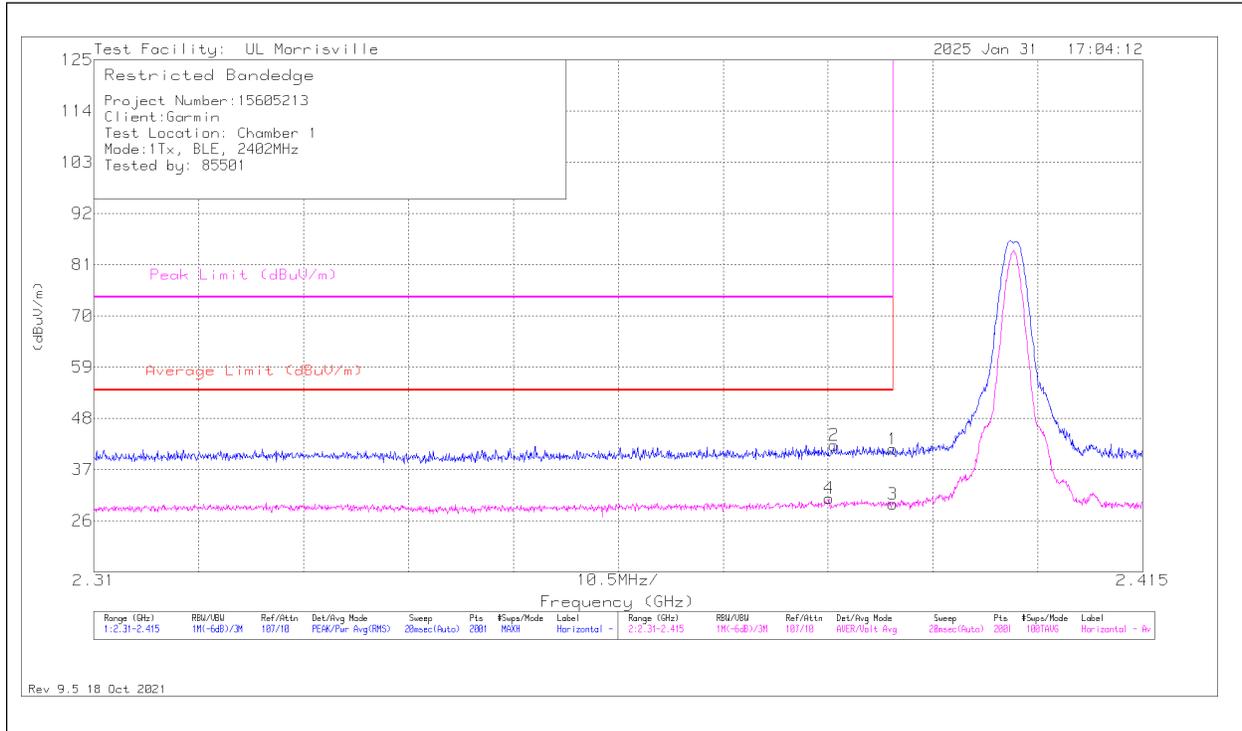
Pk - Peak detector

PK2 - Maximum Peak

### 10.1.5. TX ABOVE 1 GHz BLE 1Mbps MODE IN THE 2.4 GHz BAND

#### BANDEDGE (LOW CHANNEL, 2402MHz)

#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	33.48	Pk	31.9	-24	41.38	-	-	74	-32.62	247	387	H
2	* ** 2.38408	34.34	Pk	31.9	-24	42.24	-	-	74	-31.76	247	387	H
3	* ** 2.38996	21.68	ADV	31.9	-24	29.58	54	-24.42	-	-	247	387	H
4	* ** 2.38361	22.93	ADV	31.9	-24	30.83	54	-23.17	-	-	247	387	H

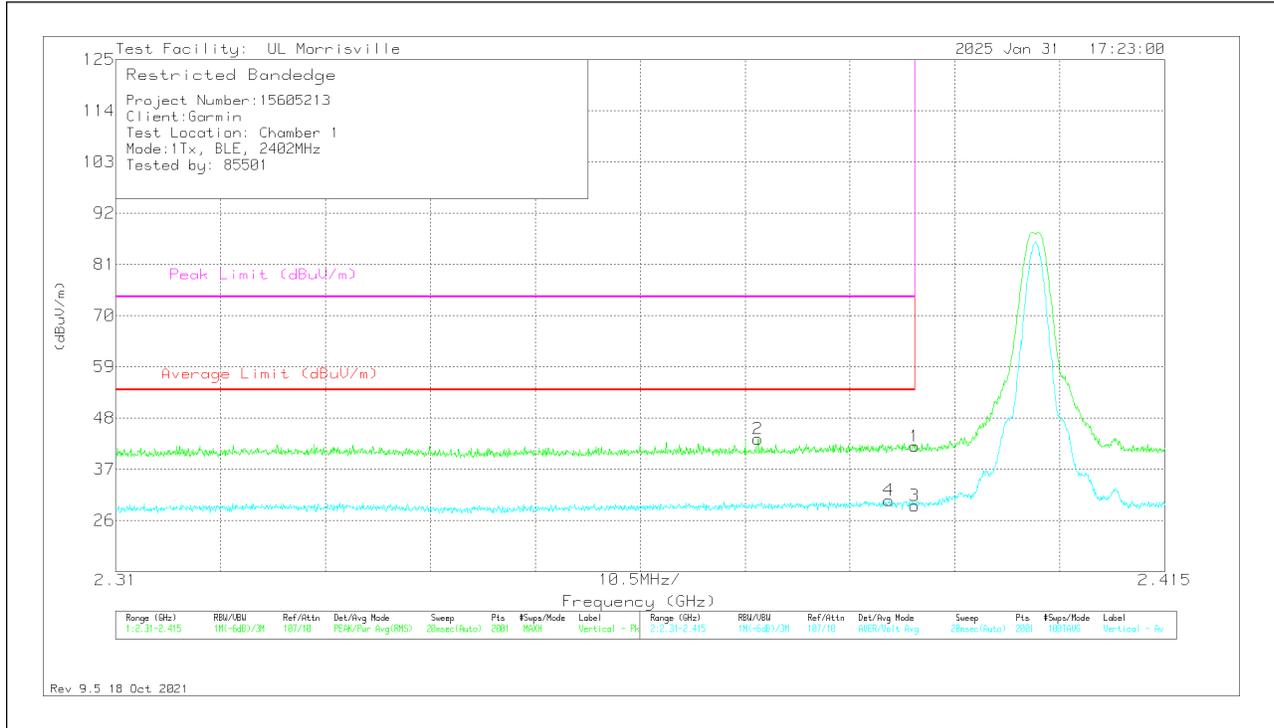
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	34.01	Pk	31.9	-24	41.91	-	-	74	-32.09	150	234	V
2	*** 2.37426	35.9	Pk	31.9	-24.3	43.5	-	-	74	-30.5	150	234	V
3	*** 2.38996	21.25	ADV	31.9	-24	29.15	54	-24.85	-	-	150	233	V
4	*** 2.38739	22.3	ADV	31.9	-23.9	30.3	54	-23.7	-	-	150	233	V

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

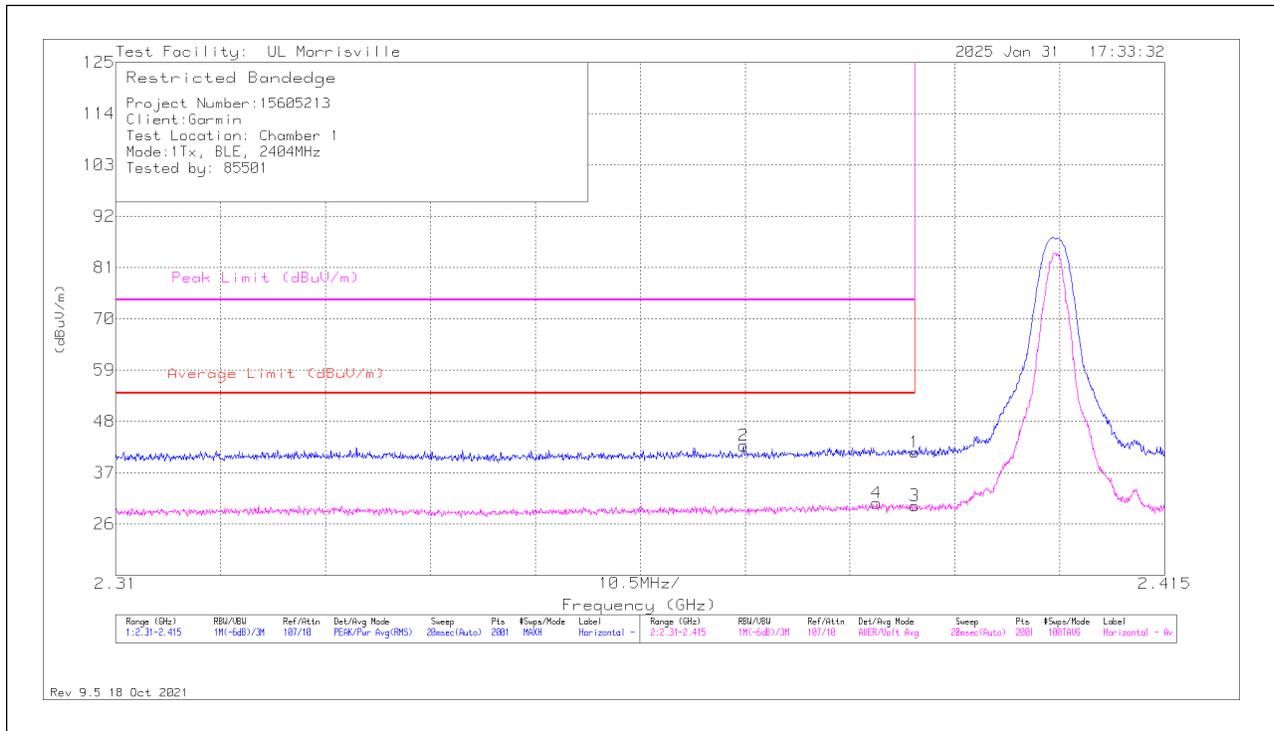
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (LOW CHANNEL, 2404MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	33.49	Pk	31.9	-24	41.39	-	-	74	-32.61	61	215	H
2	*** 2.37284	35.21	Pk	31.9	-24.3	42.81	-	-	74	-31.19	61	215	H
3	*** 2.38996	21.97	ADV	31.9	-24	29.87	54	-24.13	-	-	61	215	H
4	*** 2.38618	22.49	ADV	31.9	-23.9	30.49	54	-23.51	-	-	61	215	H

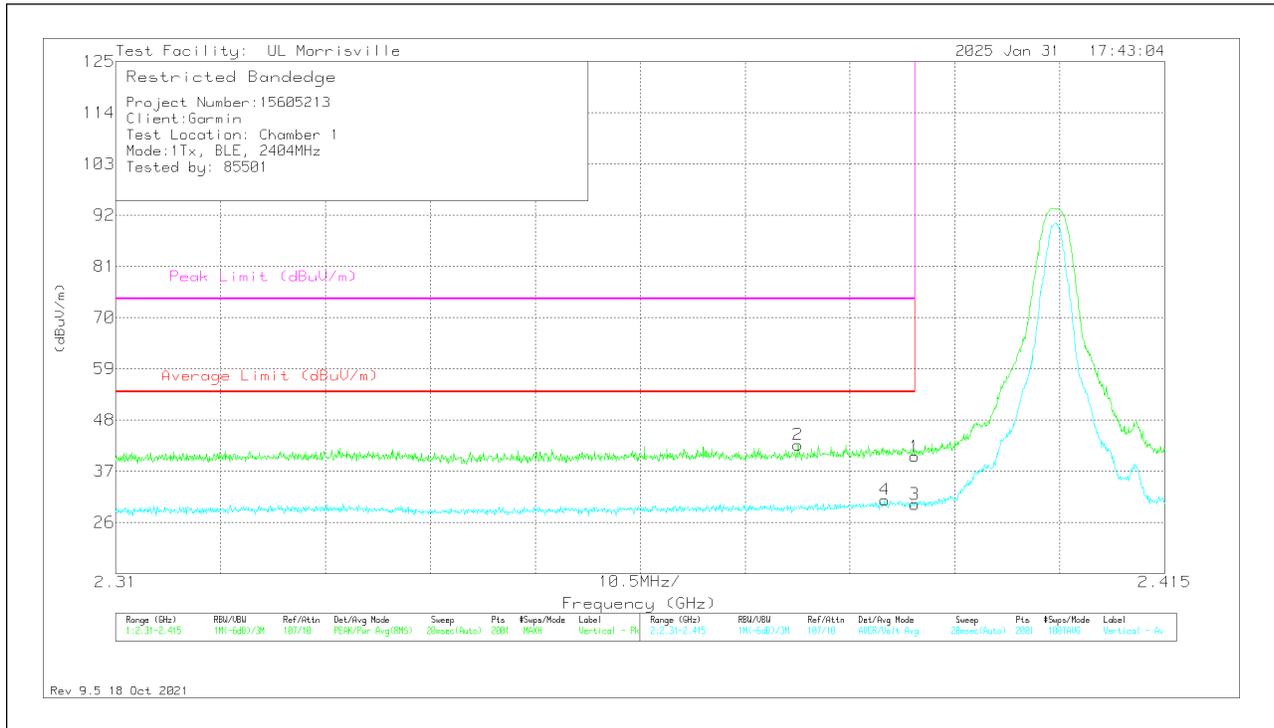
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT

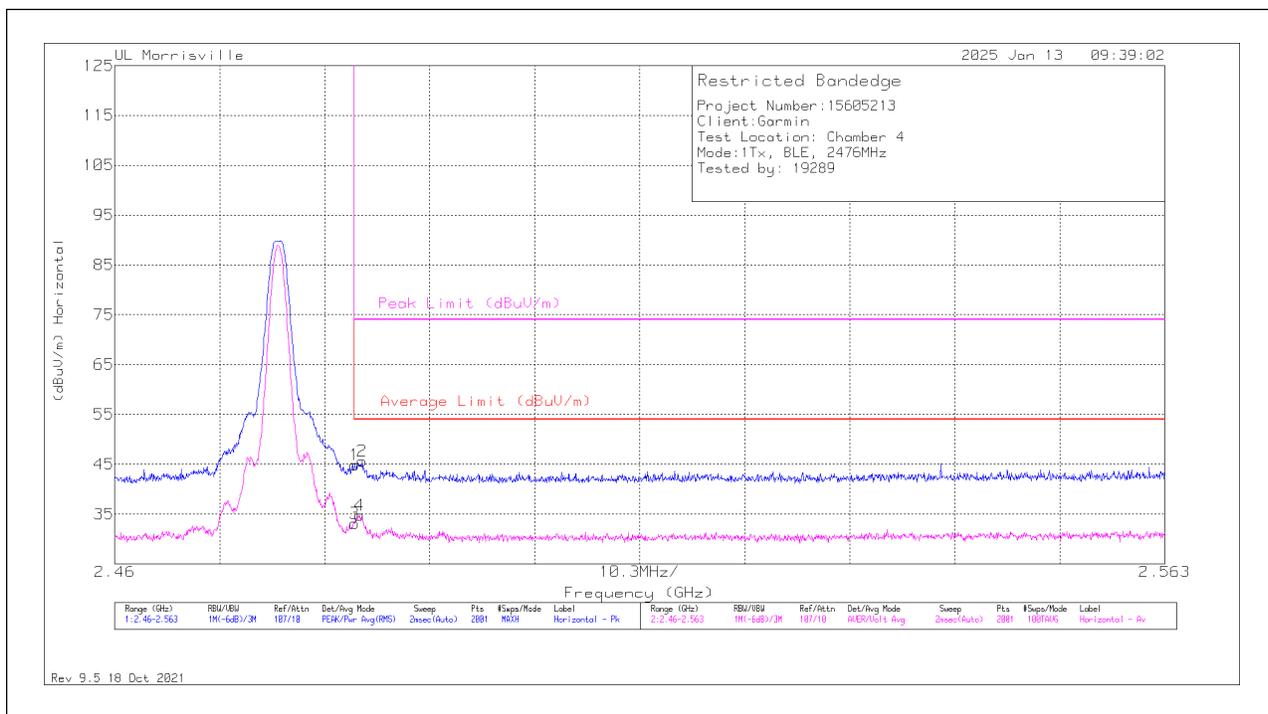


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	32.28	Pk	31.9	-24	40.18	-	-	74	-33.82	149	195	V
2	*** 2.3783	34.97	Pk	31.9	-24.2	42.67	-	-	74	-31.33	149	195	V
3	*** 2.38996	21.98	ADV	31.9	-24	29.88	54	-24.12	-	-	149	195	V
4	*** 2.38697	22.86	ADV	31.9	-23.9	30.86	54	-23.14	-	-	149	195	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2476MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	35.35	Pk	32.3	-22.8	44.85	-	-	74	-29.15	153	123	H
2	*** 2.48426	36.19	Pk	32.3	-22.8	45.69	-	-	74	-28.31	153	123	H
3	*** 2.48354	23.64	ADV	32.3	-22.8	33.14	54	-20.86	-	-	153	123	H
4	*** 2.48405	25.28	ADV	32.3	-22.8	34.78	54	-19.22	-	-	153	123	H

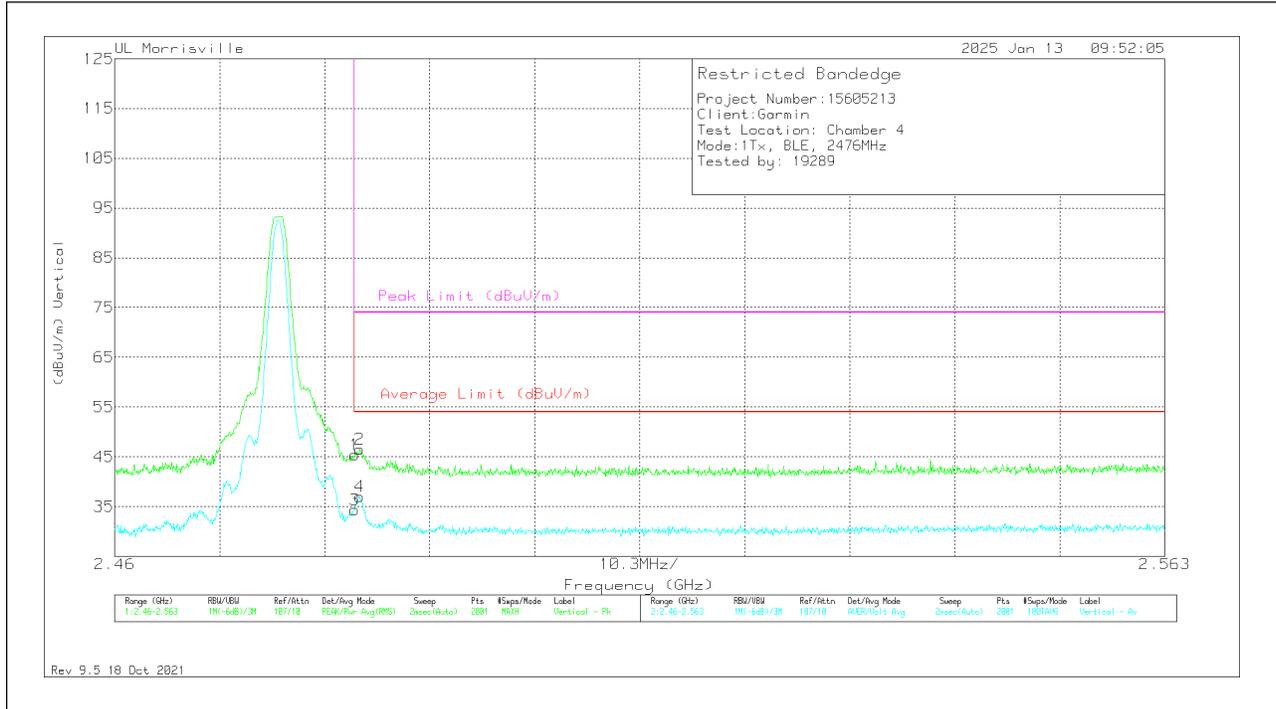
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	35.85	PK	32.3	-22.8	45.35	-	-	74	-28.65	341	120	V
2	*** 2.48405	36.98	Pk	32.3	-22.8	46.48	-	-	74	-27.52	341	120	V
3	*** 2.48354	24.83	ADV	32.3	-22.8	34.33	54	-19.67	-	-	341	120	V
4	*** 2.484	27.46	ADV	32.3	-22.8	36.96	54	-17.04	-	-	341	120	V

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

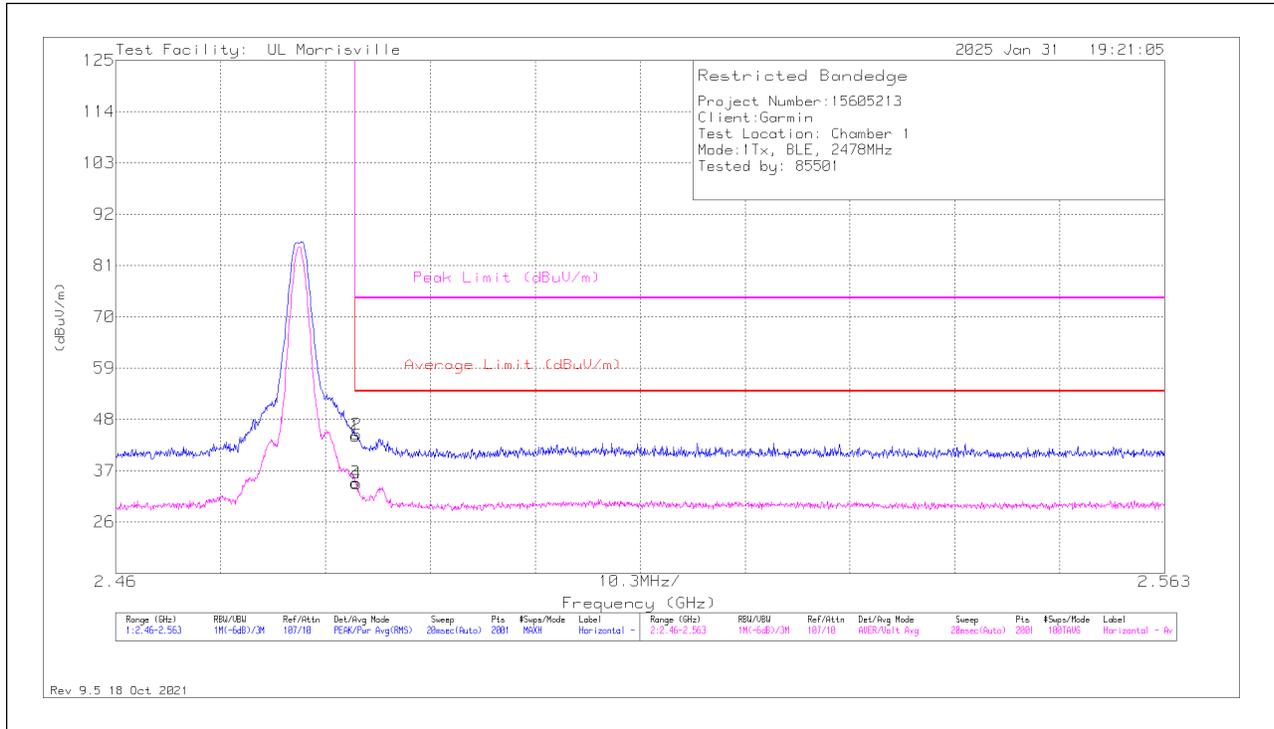
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2478MHz)**

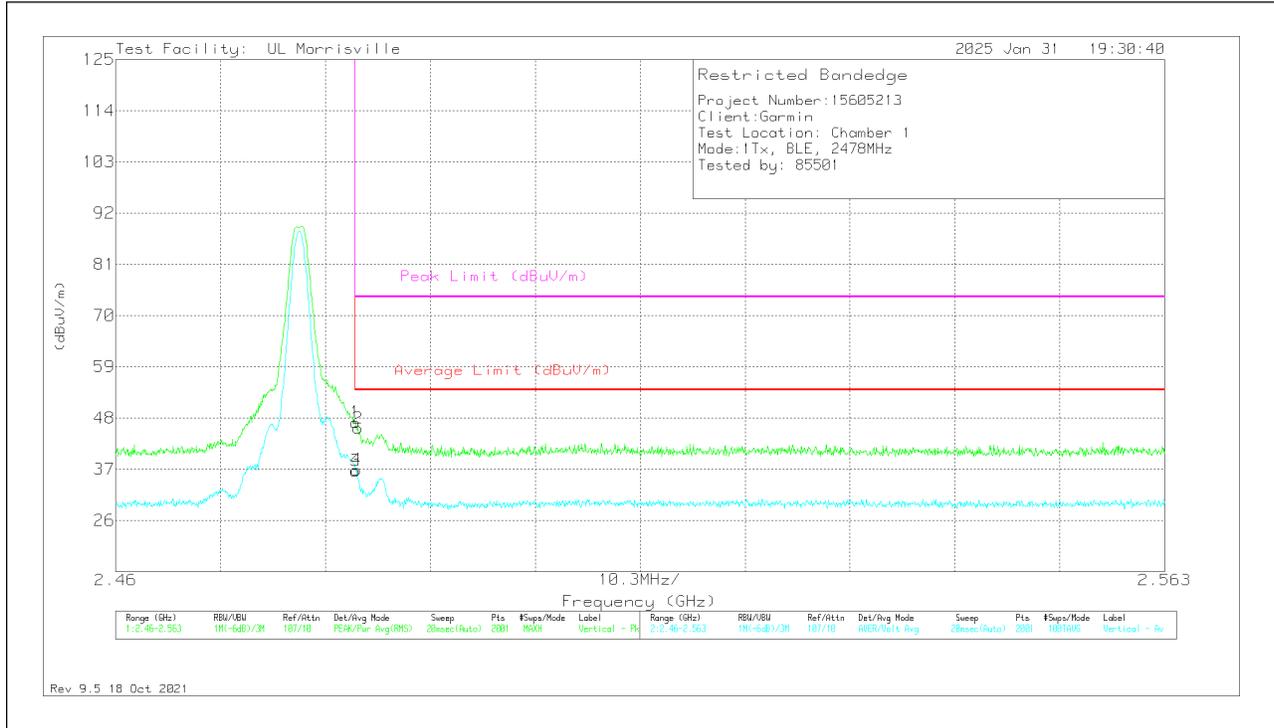
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	35.91	Pk	32.2	-23.7	44.41	-	-	74	-29.59	194	265	H
2	* ** 2.48364	36.24	Pk	32.2	-23.7	44.74	-	-	74	-29.26	194	265	H
3	* ** 2.48354	25.97	ADV	32.2	-23.7	34.47	54	-19.53	-	-	194	265	H
4	* ** 2.48364	25.74	ADV	32.2	-23.7	34.24	54	-19.76	-	-	194	265	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	38.55	Pk	32.2	-23.7	47.05	-	-	74	-26.95	7	119	V
2	*** 2.48379	37.29	Pk	32.2	-23.7	45.79	-	-	74	-28.21	7	119	V
3	*** 2.48354	28.16	ADV	32.2	-23.7	36.66	54	-17.34	-	-	7	119	V
4	*** 2.48364	28.34	ADV	32.2	-23.7	36.84	54	-17.16	-	-	7	119	V

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

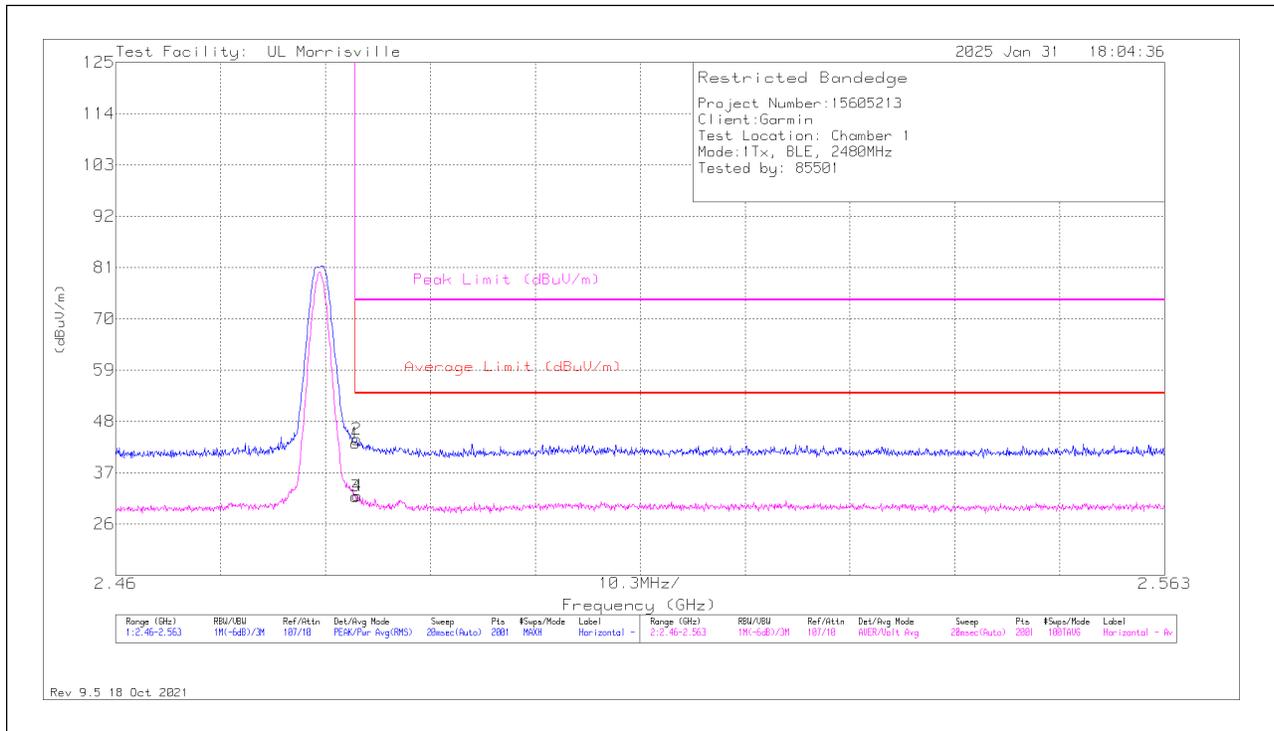
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2480MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	34.74	Pk	32.2	-23.7	43.24	-	-	74	-30.76	74	280	H
2	* ** 2.48369	35.67	Pk	32.2	-23.7	44.17	-	-	74	-29.83	74	280	H
3	* ** 2.48354	23.44	ADV	32.2	-23.7	31.94	54	-22.06	-	-	74	280	H
4	* ** 2.48374	23.51	ADV	32.2	-23.7	32.01	54	-21.99	-	-	74	280	H

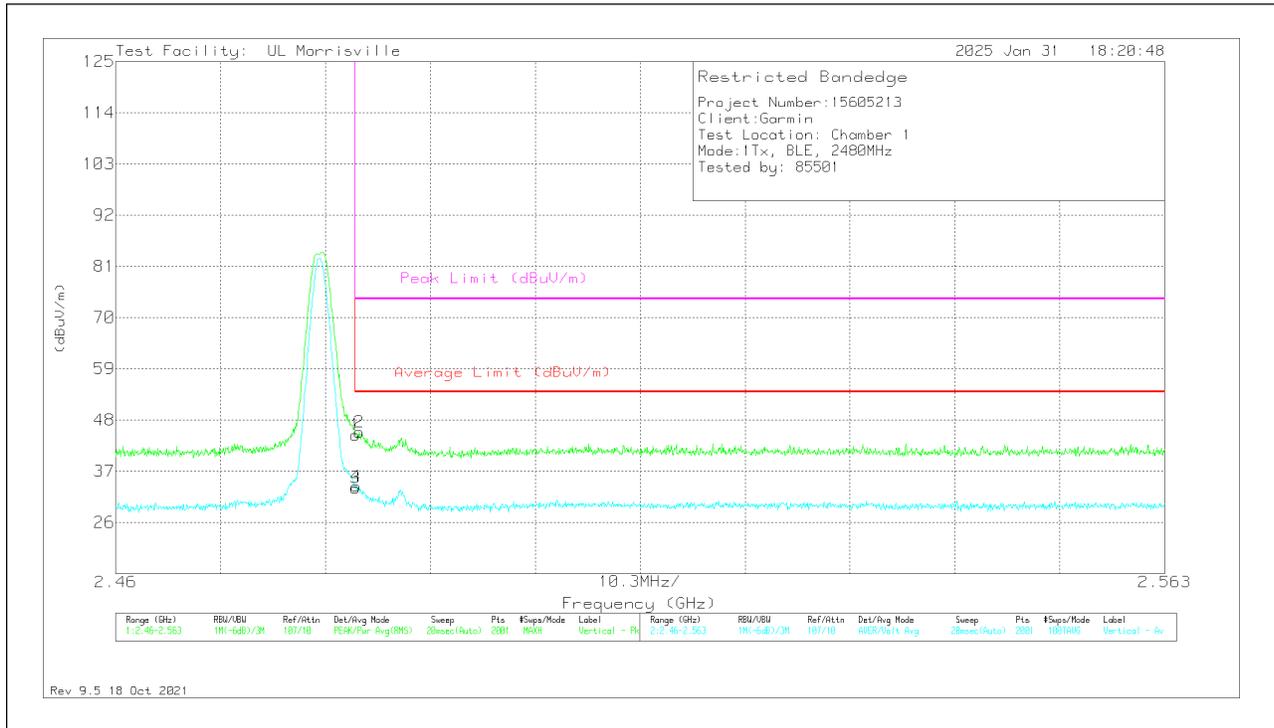
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	36.31	Pk	32.2	-23.7	44.81	-	-	74	-29.19	134	154	V
2	** 2.4839	36.88	Pk	32.2	-23.7	45.38	-	-	74	-28.62	134	154	V
3	*** 2.48354	24.91	ADV	32.2	-23.7	33.41	54	-20.59	-	-	134	154	V
4	*** 2.48359	25.24	ADV	32.2	-23.7	33.74	54	-20.26	-	-	134	154	V

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

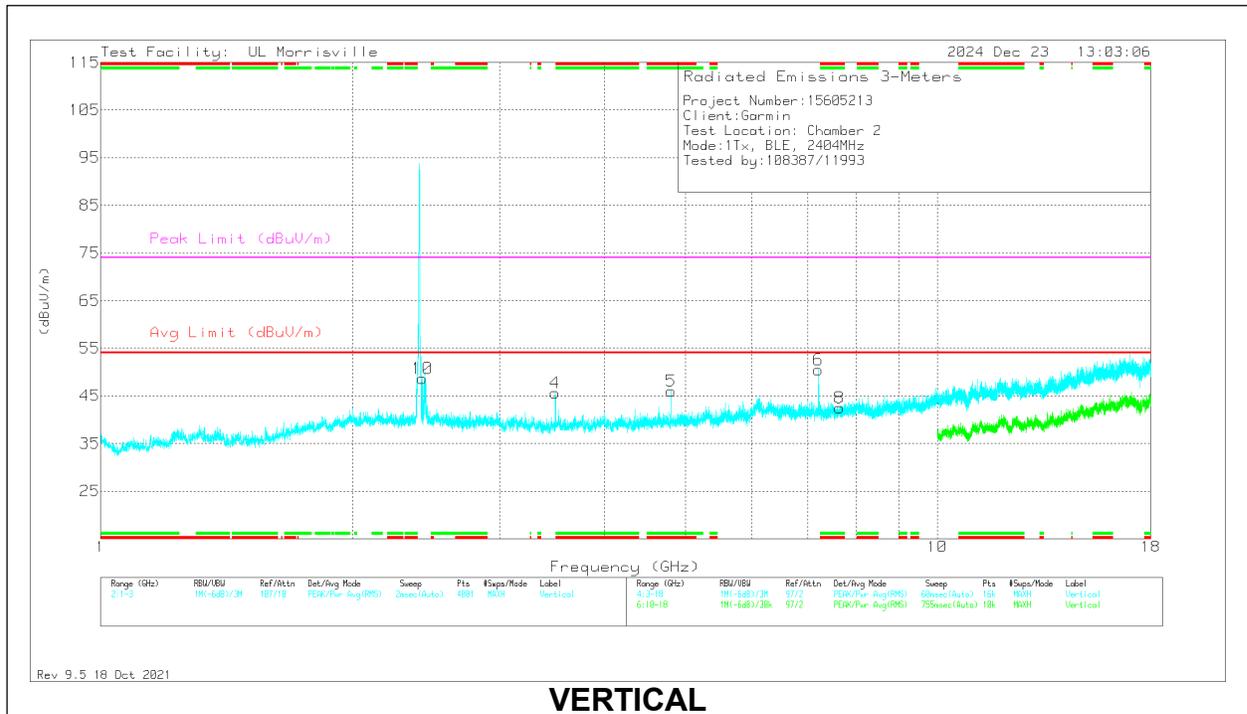
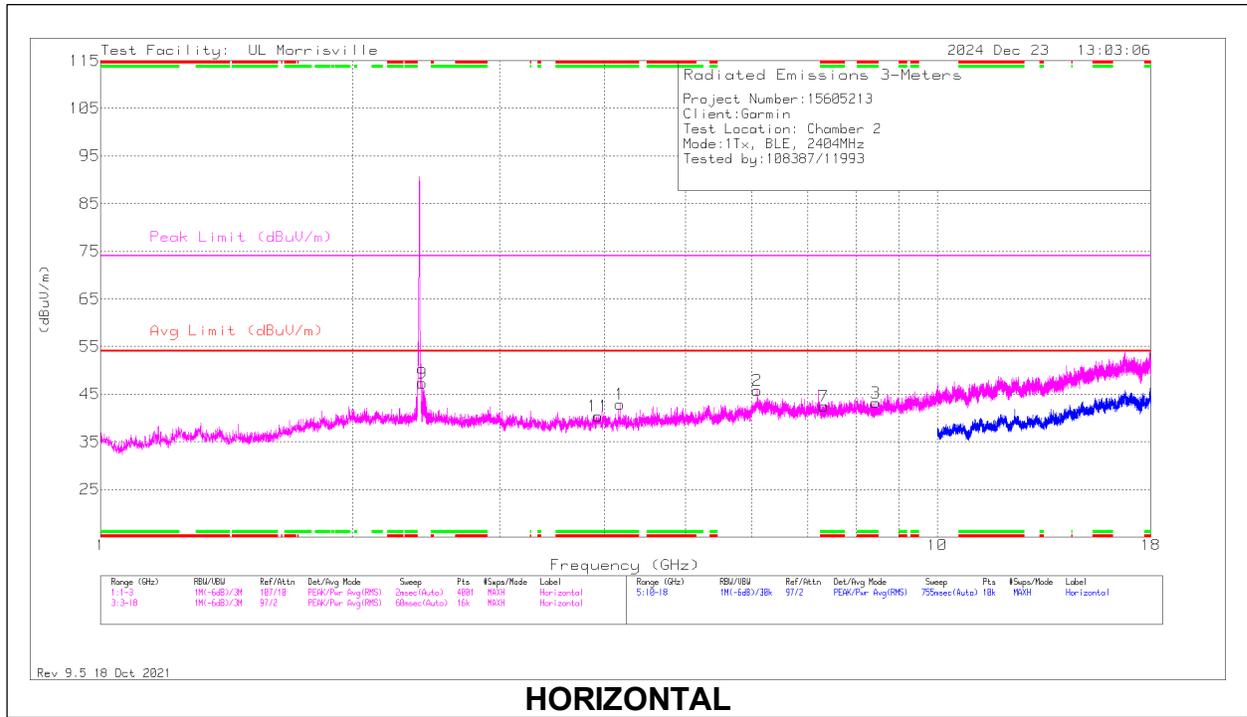
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.17469	54.69	Pk	33.4	-45.2	42.89	54	-11.11	74	-31.11	0-360	199	H
3	* ** 8.43938	47.8	Pk	35.8	-40.4	43.2	54	-10.8	74	-30.8	0-360	101	H
7	* ** 7.32188	48.62	Pk	35.6	-41.8	42.42	54	-11.58	74	-31.58	0-360	101	H
11	* ** 3.93375	51.84	Pk	33.4	-44.9	40.34	54	-13.66	74	-33.66	0-360	101	H
5	* ** 4.80722	59.37	PK2	34.2	-43.8	49.77	-	-	74	-24.23	75	286	V
	* ** 4.80737	42.3	ADV	34.2	-43.8	32.7	54	-21.3	-	-	75	286	V
8	* ** 7.64438	47.89	Pk	35.7	-41.1	42.49	54	-11.51	74	-31.51	0-360	199	V
10	2.4235	40.18	Pk	32.3	-23.8	48.68	-	-	-	-	0-360	101	V
9	2.4245	38.77	Pk	32.3	-23.8	47.27	-	-	-	-	0-360	199	H
4	3.49594	57.5	Pk	32.7	-44.6	45.6	-	-	-	-	0-360	101	V
2	6.0975	51.09	Pk	35.5	-40.8	45.79	-	-	-	-	0-360	199	H
6	7.21125	56.68	Pk	35.6	-41.8	50.48	-	-	-	-	0-360	101	V

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

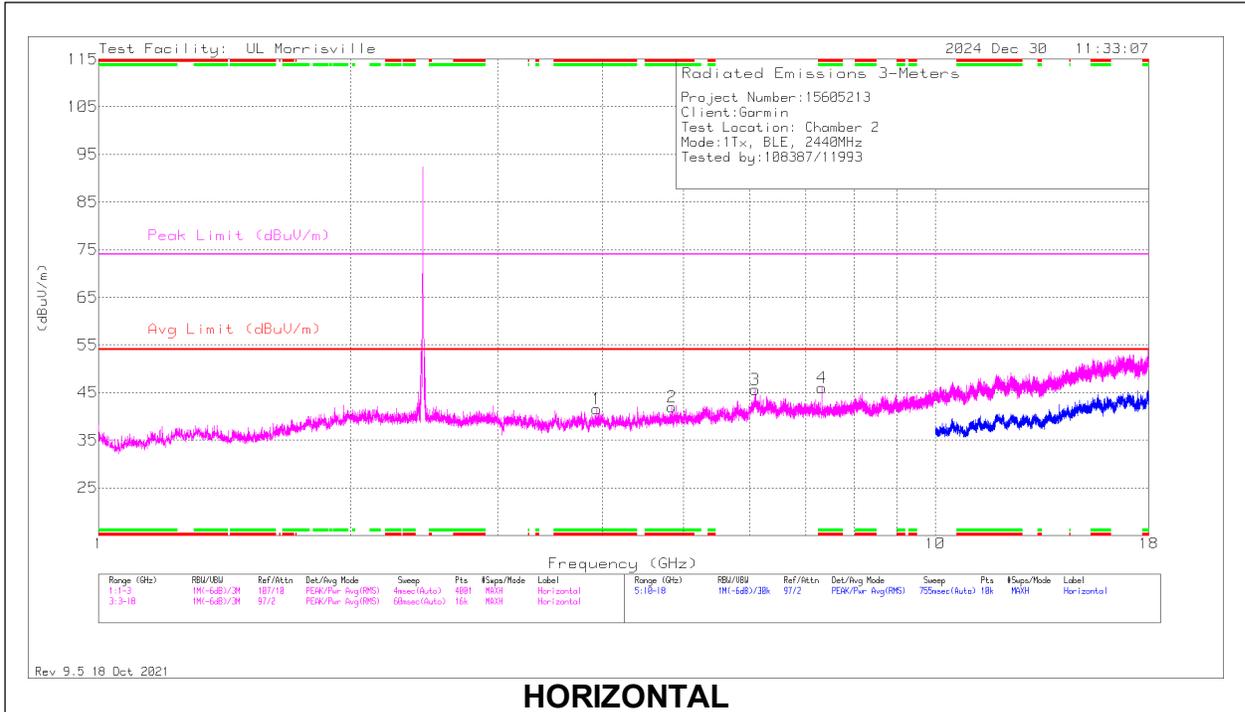
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

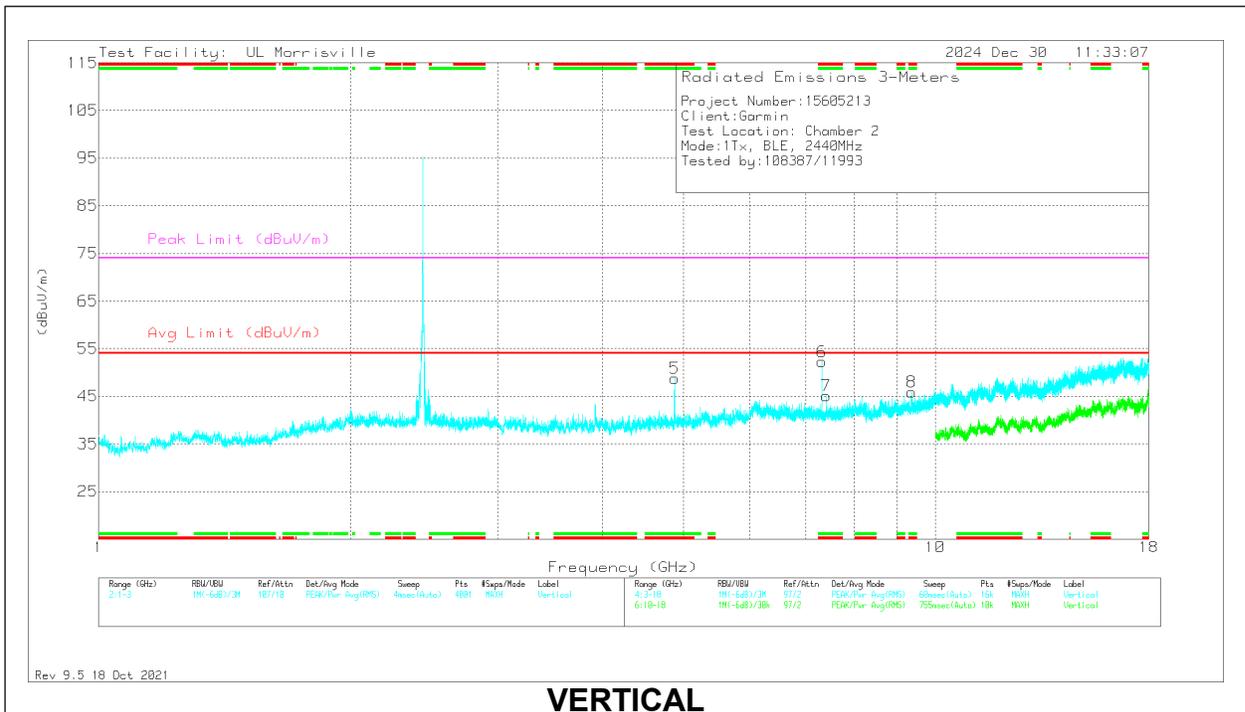
PK2 - Maximum Peak

ADV - Linear Voltage Average

### MID CHANNEL



### HORIZONTAL



### VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 3.9375	53.04	Pk	33.4	-44.9	41.54	54	-12.46	74	-32.46	0-360	101	H
2	*** 4.845	51.89	Pk	34.1	-44	41.99	54	-12.01	74	-32.01	0-360	101	H
4	*** 7.32094	52.25	Pk	35.6	-41.8	46.05	54	-7.95	74	-27.95	0-360	101	H
5	*** 4.87954	61.11	PK2	34.1	-43.7	51.51	-	-	74	-22.49	56	114	V
	*** 4.87931	45.85	ADV	34.1	-43.7	36.25	54	-17.75	-	-	56	114	V
6	*** 7.32004	61.42	PK2	35.6	-41.8	55.22	-	-	74	-18.78	358	119	V
	*** 7.31936	45.06	ADV	35.6	-41.8	38.86	54	-15.14	-	-	358	119	V
7	*** 7.40531	50.37	Pk	35.6	-40.9	45.07	54	-8.93	74	-28.93	0-360	101	V
8	*** 9.37688	49.57	Pk	36.2	-39.9	45.87	54	-8.13	74	-28.13	0-360	200	V
3	6.09188	50.92	Pk	35.5	-40.8	45.62	54	-8.38	74	-28.38	0-360	200	H

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

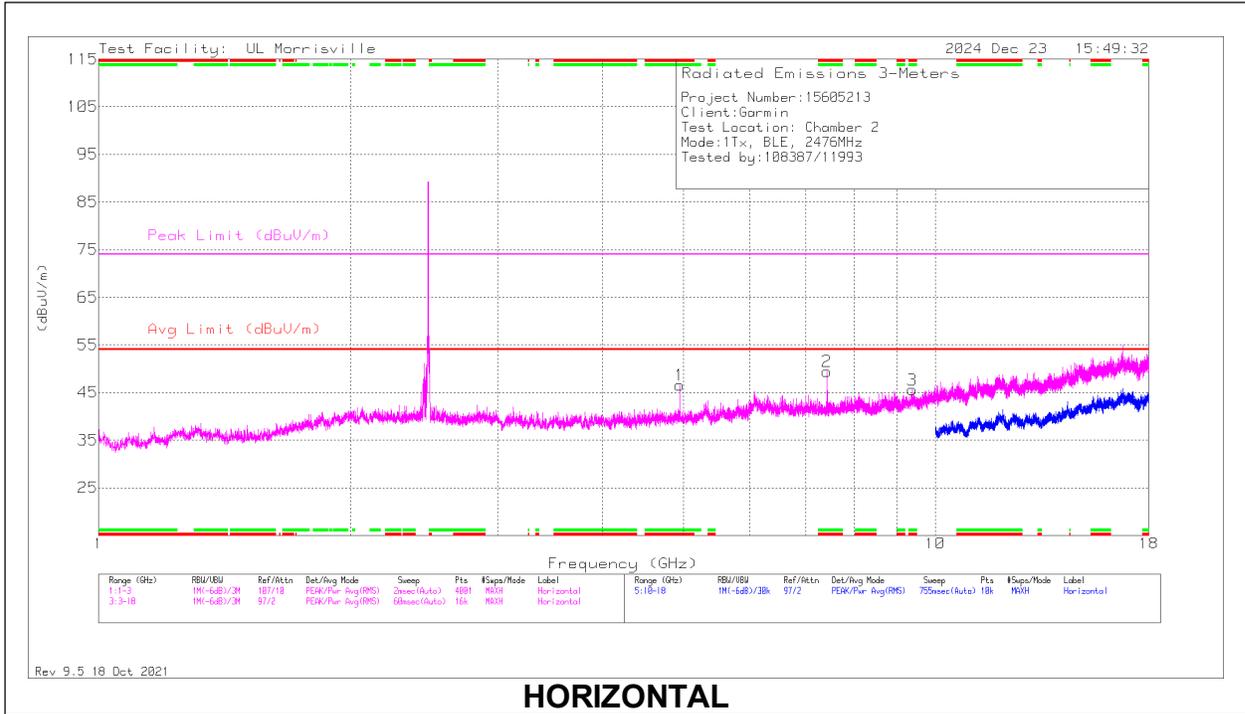
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

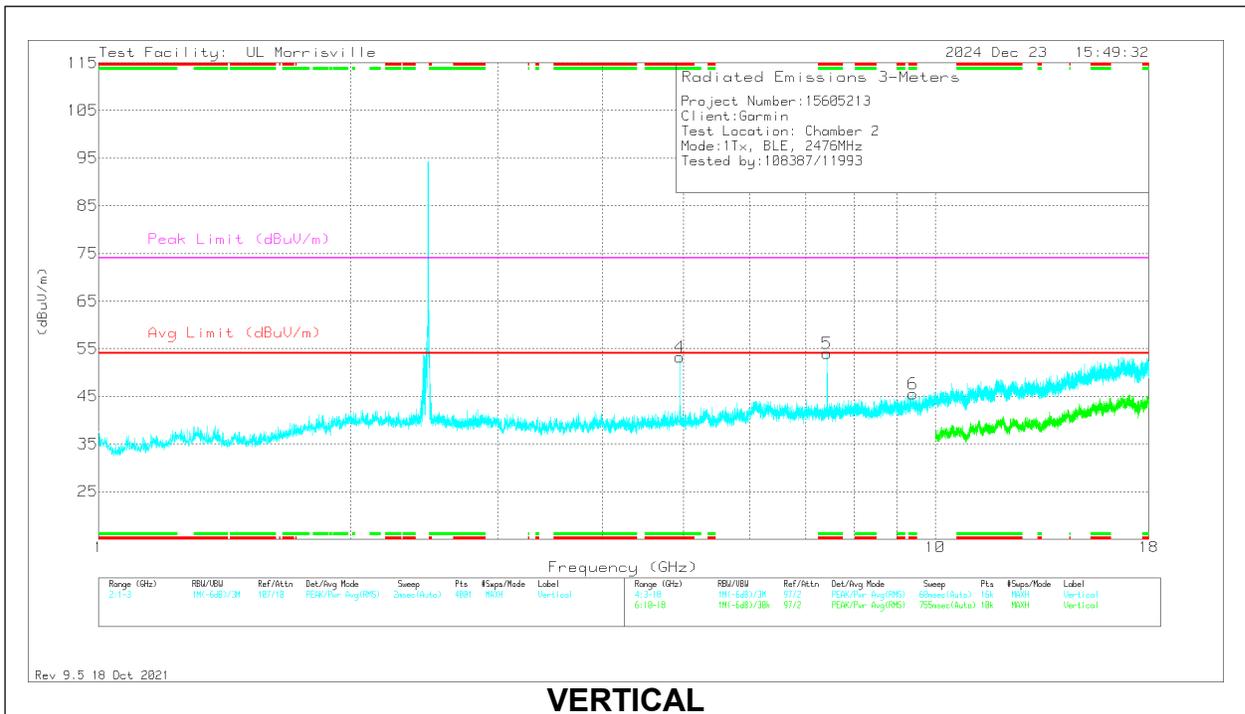
PK2 - Maximum Peak

ADV - Linear Voltage Average

### HIGH CHANNEL



### HORIZONTAL



### VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.95188	56.23	Pk	34	-43.7	46.53	54	-7.47	74	-27.47	0-360	101	H
2	*** 7.42888	58.42	PK2	35.6	-41.3	52.72	-	-	74	-21.28	169	113	H
	*** 7.42725	44.08	ADV	35.6	-41.4	38.28	54	-15.72	-	-	169	113	H
3	*** 9.39	49.06	Pk	36.2	-39.7	45.56	54	-8.44	74	-28.44	0-360	200	H
4	*** 4.95178	65.86	PK2	34	-43.7	56.16	-	-	74	-17.84	217	316	V
	*** 4.95195	50.64	ADV	34	-43.7	40.94	54	-13.06	-	-	217	316	V
5	*** 7.42878	61.15	PK2	35.6	-41.3	55.45	-	-	74	-18.55	32	119	V
	*** 7.42751	46.77	ADV	35.6	-41.4	40.97	54	-13.03	-	-	32	119	V
6	*** 9.39938	49.04	Pk	36.2	-39.7	45.54	54	-8.46	74	-28.46	0-360	200	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

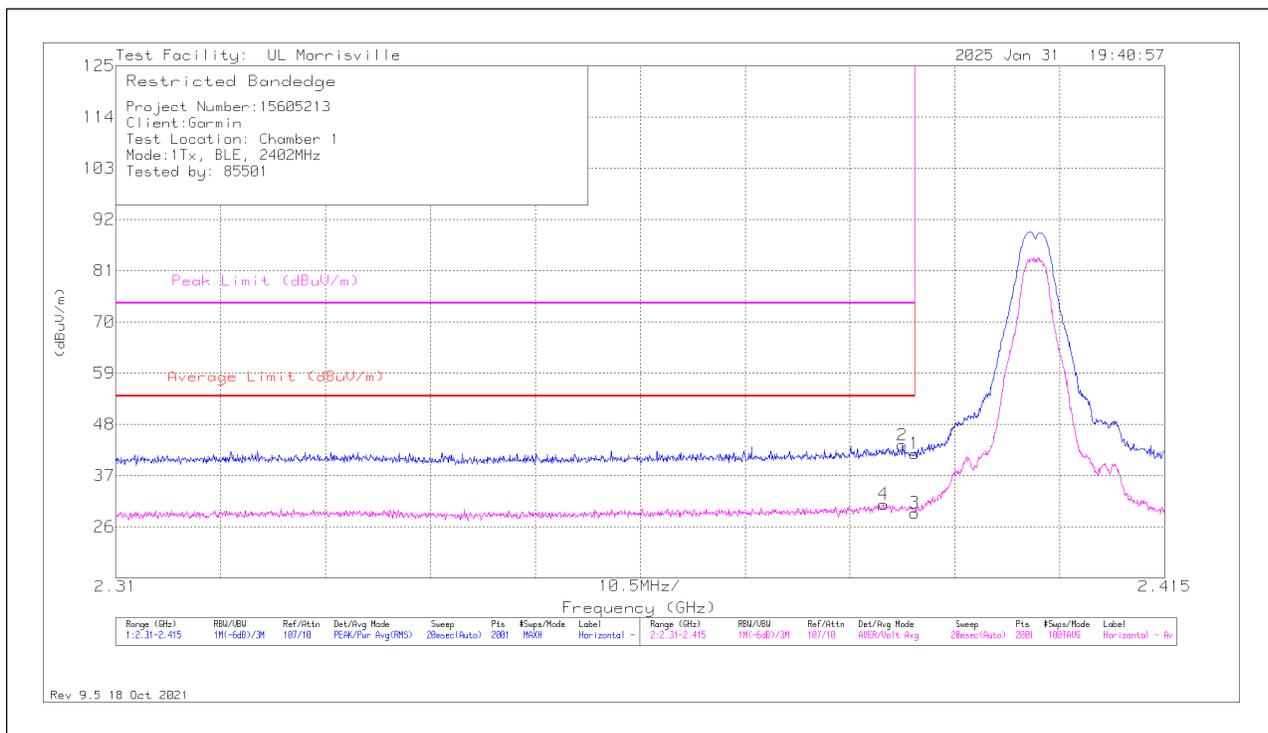
PK2 - Maximum Peak

ADV - Linear Voltage Average

### 10.1.6. TX ABOVE 1 GHz BLE 2Mbps MODE IN THE 2.4 GHz BAND

#### BANDEDGE (LOW CHANNEL, 2402MHz)

#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	33.8	Pk	31.9	-24	41.7	-	-	74	-32.3	216	273	H
2	* ** 2.38875	35.61	Pk	31.9	-24	43.51	-	-	74	-30.49	216	273	H
3	* ** 2.38996	21.07	ADV	31.9	-24	28.97	54	-25.03	-	-	216	273	H
4	* ** 2.38686	22.84	ADV	31.9	-23.9	30.84	54	-23.16	-	-	216	273	H

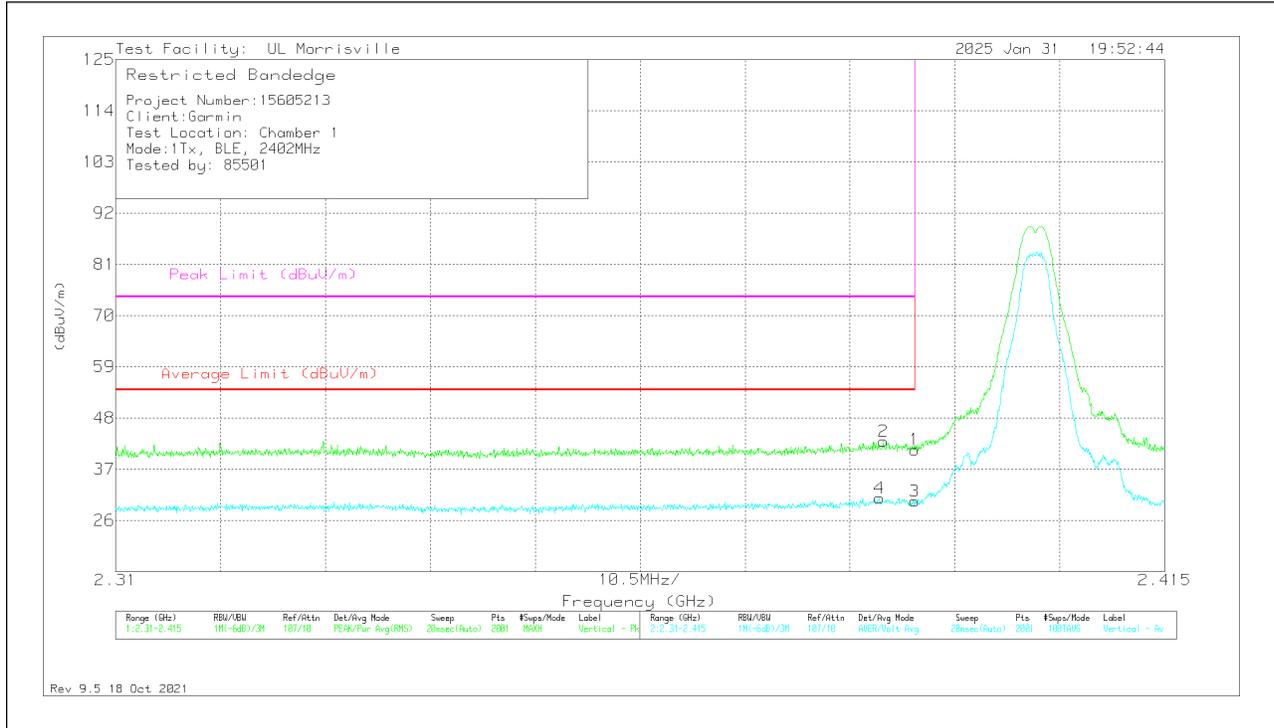
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	33.25	Pk	31.9	-24	41.15	-	-	74	-32.85	343	110	V
2	*** 2.38686	34.99	Pk	31.9	-23.9	42.99	-	-	74	-31.01	343	110	V
3	*** 2.38996	22.2	ADV	31.9	-24	30.1	54	-23.9	-	-	343	110	V
4	*** 2.38644	22.77	ADV	31.9	-23.9	30.77	54	-23.23	-	-	343	110	V

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

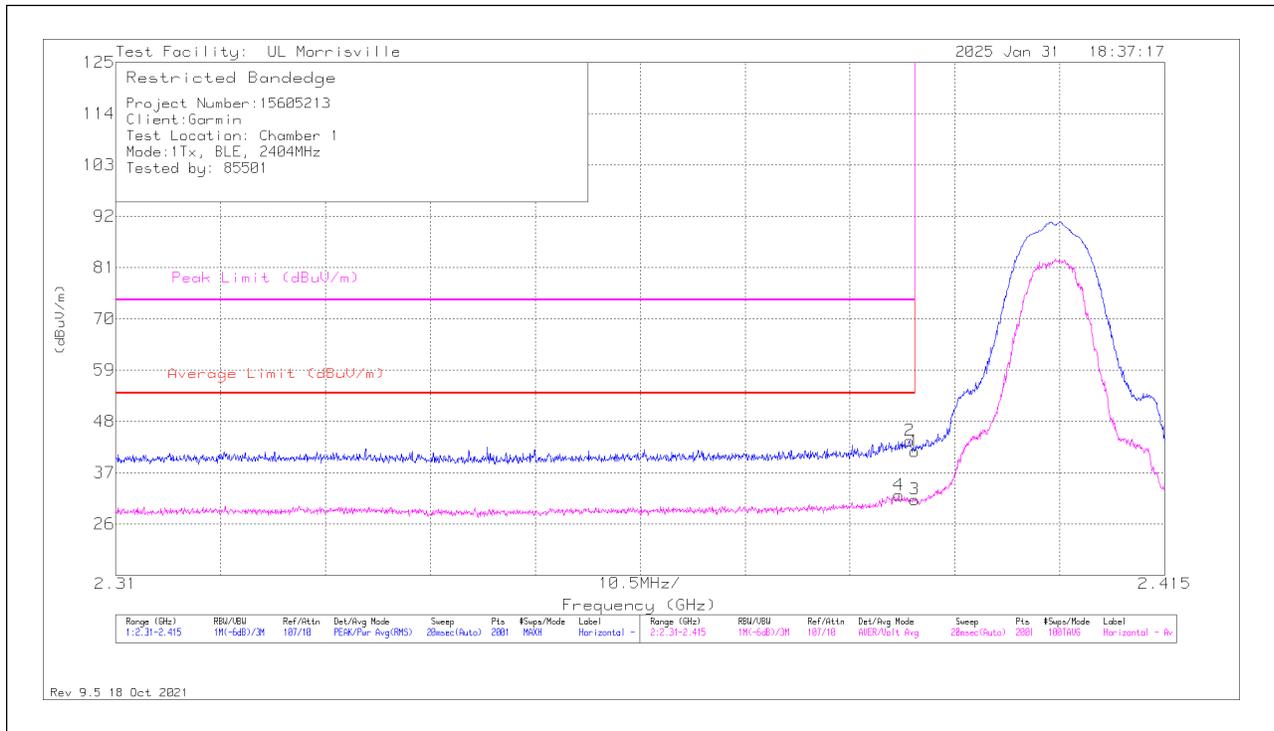
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (LOW CHANNEL, 2404MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	33.66	Pk	31.9	-24	41.56	-	-	74	-32.44	198	202	H
2	*** 2.38949	35.98	Pk	31.9	-24	43.88	-	-	74	-30.12	198	202	H
3	*** 2.38996	23.37	ADV	31.9	-24	31.27	54	-22.73	-	-	198	202	H
4	*** 2.38838	24.28	ADV	31.9	-24	32.18	54	-21.82	-	-	198	202	H

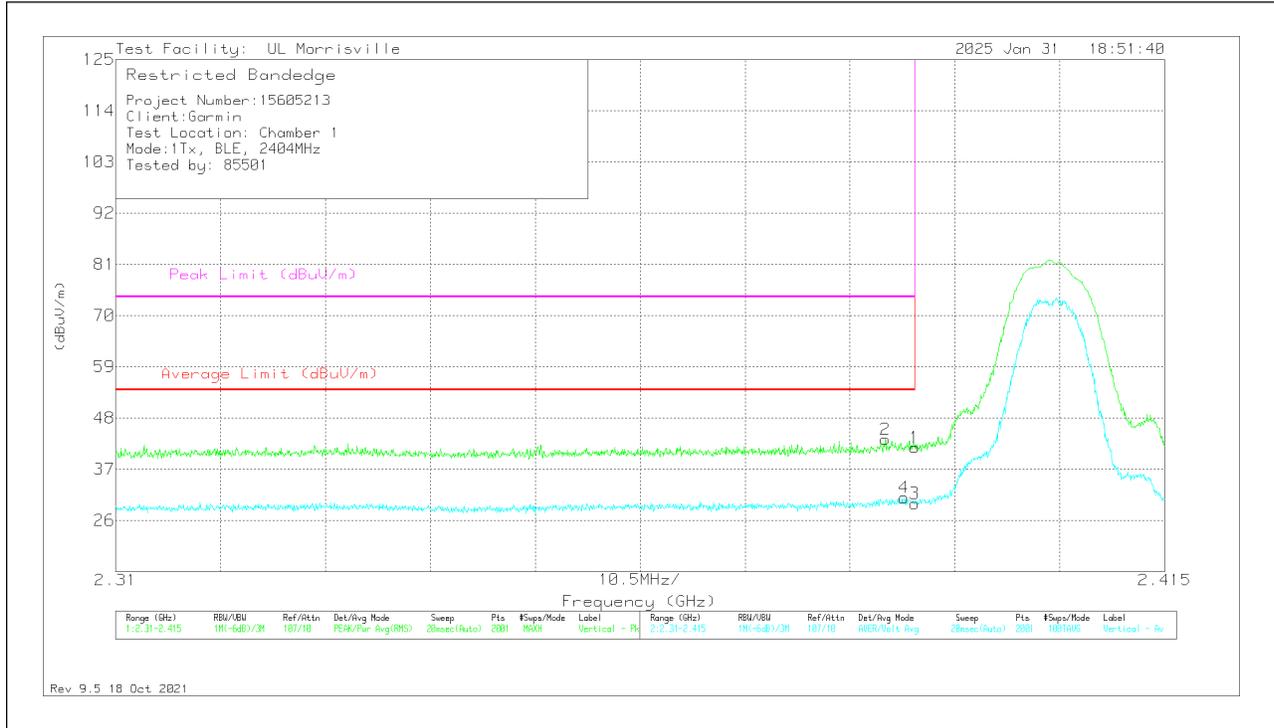
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT

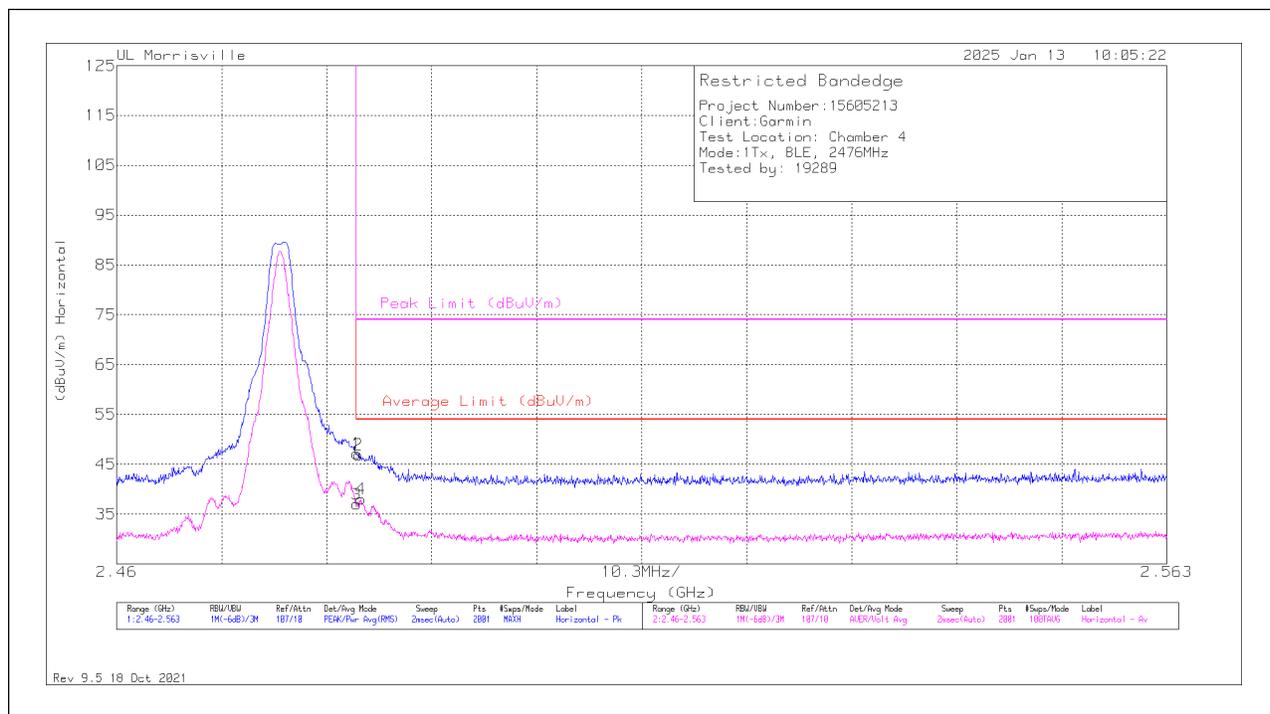


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	33.74	Pk	31.9	-24	41.64	-	-	74	-32.36	314	377	V
2	*** 2.38702	35.38	Pk	31.9	-23.9	43.38	-	-	74	-30.62	314	377	V
3	*** 2.38996	21.73	ADV	31.9	-24	29.63	54	-24.37	-	-	314	377	V
4	*** 2.38891	22.97	ADV	31.9	-24	30.87	54	-23.13	-	-	314	377	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2476MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	37.61	Pk	32.3	-22.8	47.11	-	-	74	-26.89	72	122	H
2	*** 2.48369	37.43	Pk	32.3	-22.8	46.93	-	-	74	-27.07	72	122	H
3	*** 2.48354	27.45	ADV	32.3	-22.8	36.95	54	-17.05	-	-	72	122	H
4	*** 2.48395	28.5	ADV	32.3	-22.8	38	54	-16	-	-	72	122	H

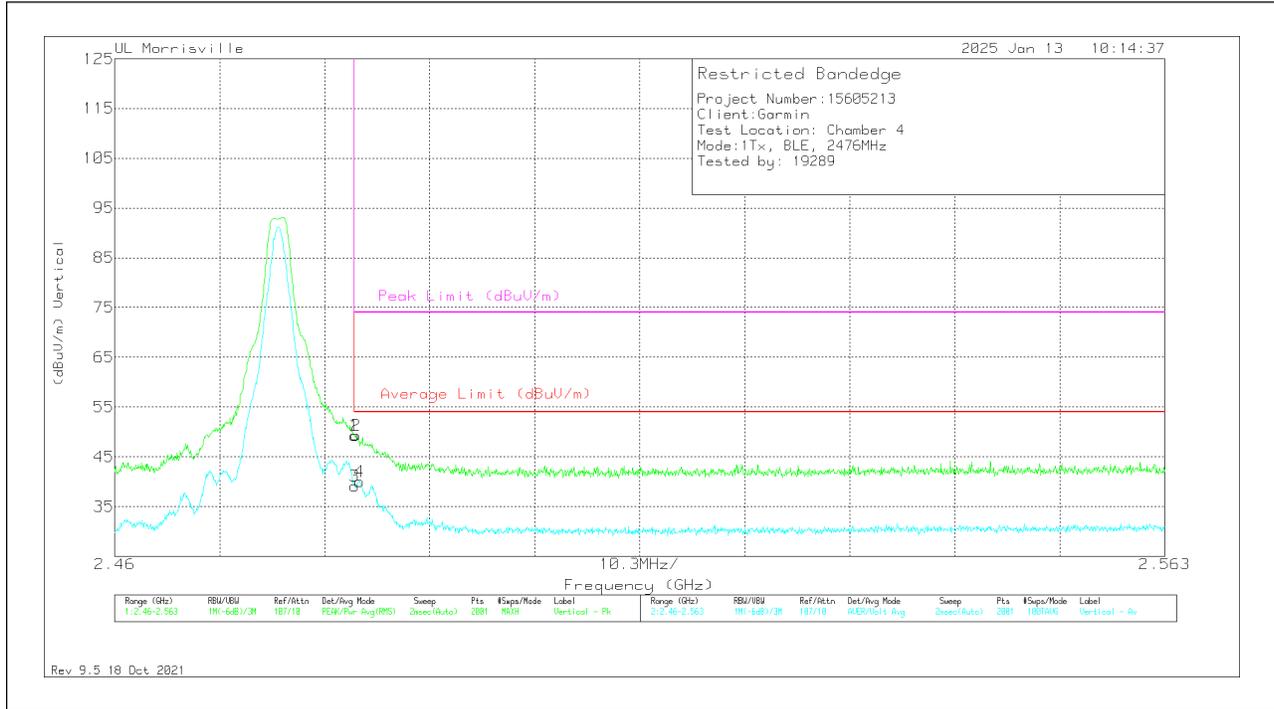
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	39.77	Pk	32.3	-22.8	49.27	-	-	74	-24.73	341	121	V
2	* ** 2.48364	39.83	Pk	32.3	-22.8	49.33	-	-	74	-24.67	341	121	V
3	* ** 2.48354	29.66	ADV	32.3	-22.8	39.16	54	-14.84	-	-	341	121	V
4	* ** 2.48405	30.55	ADV	32.3	-22.8	40.05	54	-13.95	-	-	341	121	V

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

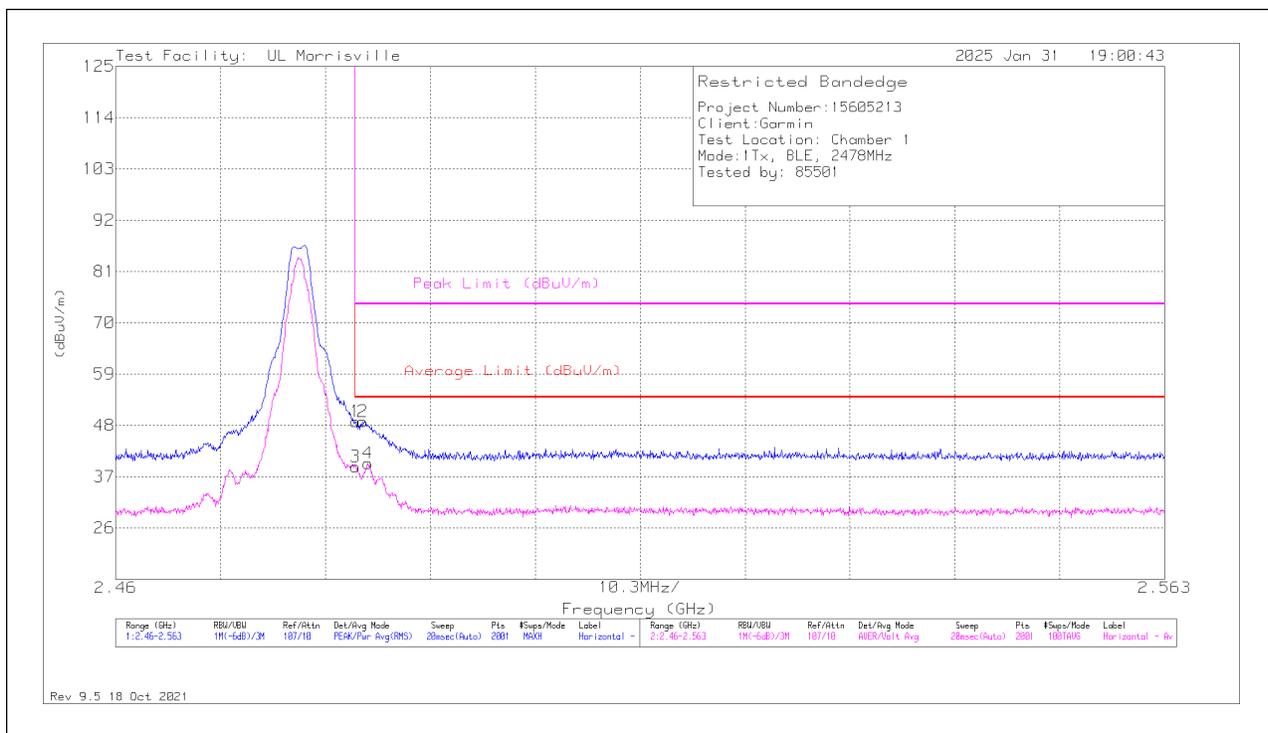
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2478MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	40.3	Pk	32.2	-23.7	48.8	-	-	74	-25.2	220	289	H
2	*** 2.48426	40.4	Pk	32.2	-23.8	48.8	-	-	74	-25.2	220	289	H
3	*** 2.48354	30.65	ADV	32.2	-23.7	39.15	54	-14.85	-	-	220	288	H
4	*** 2.48477	31.46	ADV	32.2	-23.8	39.86	54	-14.14	-	-	220	288	H

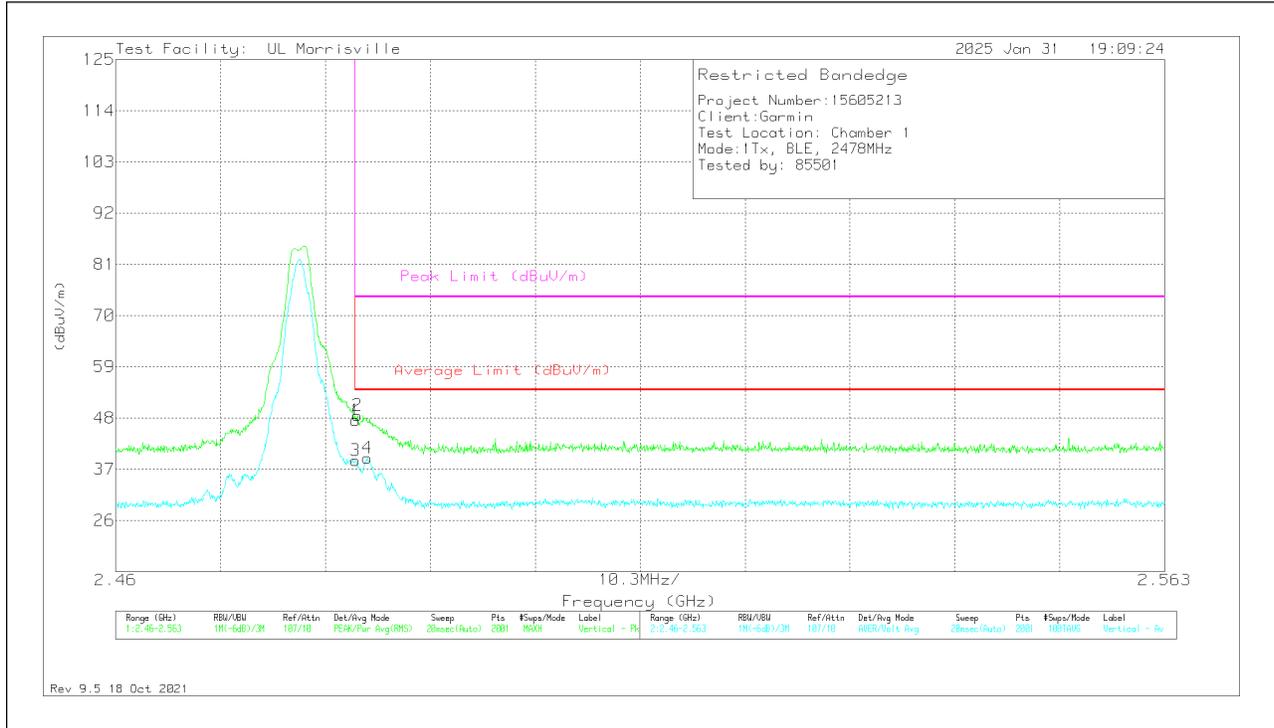
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	39.02	Pk	32.2	-23.7	47.52	-	-	74	-26.48	112	217	V
2	*** 2.48374	40.04	Pk	32.2	-23.7	48.54	-	-	74	-25.46	112	217	V
3	*** 2.48354	30.36	ADV	32.2	-23.7	38.86	54	-15.14	-	-	112	217	V
4	*** 2.48472	31.03	ADV	32.2	-23.8	39.43	54	-14.57	-	-	112	217	V

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

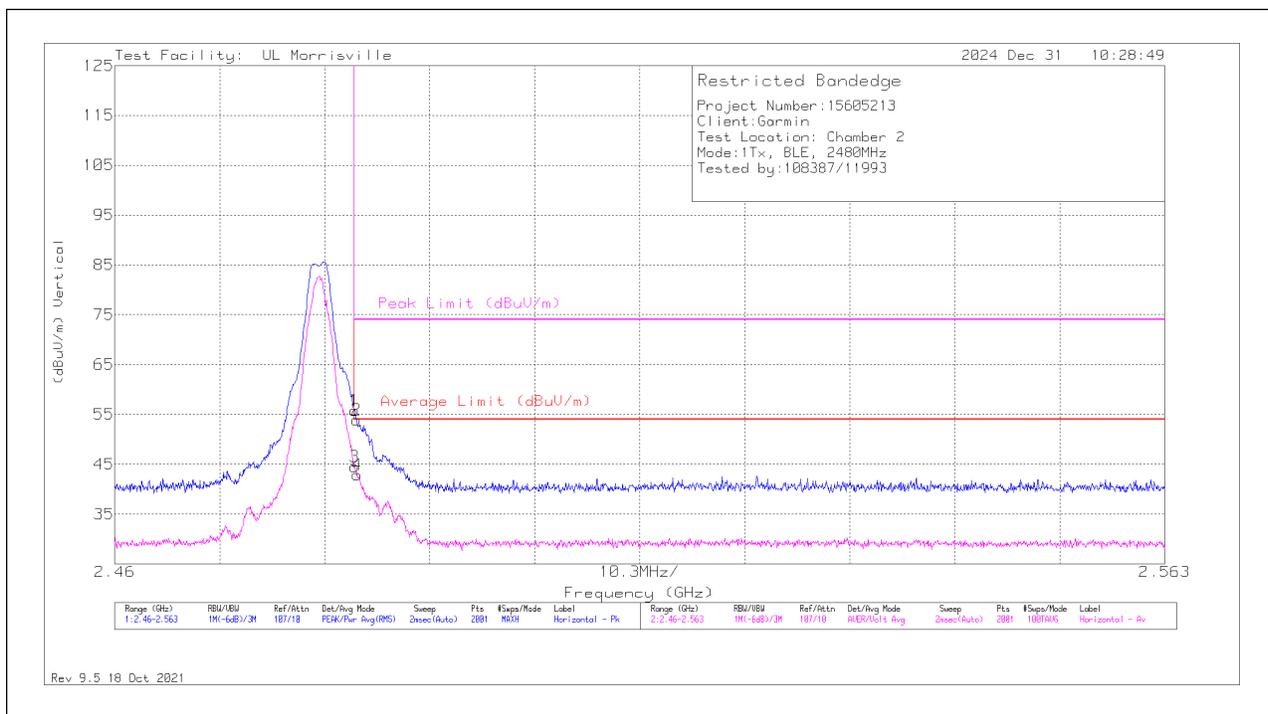
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL, 2480MHz)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	47.38	Pk	32.5	-24.1	55.78	-	-	74	-18.22	206	133	H
2	*** 2.48374	45.5	Pk	32.5	-24.1	53.9	-	-	74	-20.1	206	133	H
3	*** 2.48354	36.07	ADV	32.5	-24.1	44.47	54	-9.53	-	-	206	133	H
4	*** 2.48379	34.54	ADV	32.5	-24.1	42.94	54	-11.06	-	-	206	133	H

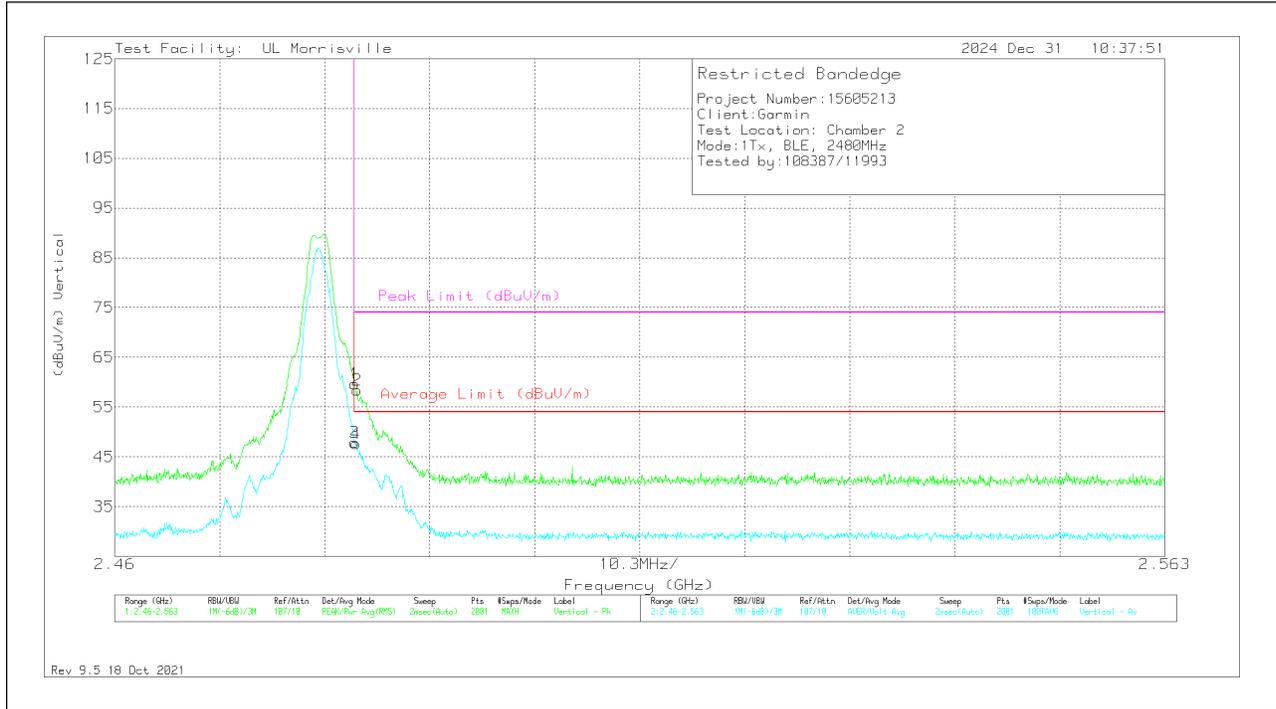
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	51.25	Pk	32.5	-24.1	59.65	-	-	74	-14.35	4	101	V
2	* ** 2.48379	50.02	Pk	32.5	-24.1	58.42	-	-	74	-15.58	4	101	V
3	* ** 2.48354	39.46	ADV	32.5	-24.1	47.86	54	-6.14	-	-	4	101	V
4	* ** 2.48364	39.24	ADV	32.5	-24.1	47.64	54	-6.36	-	-	4	101	V

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

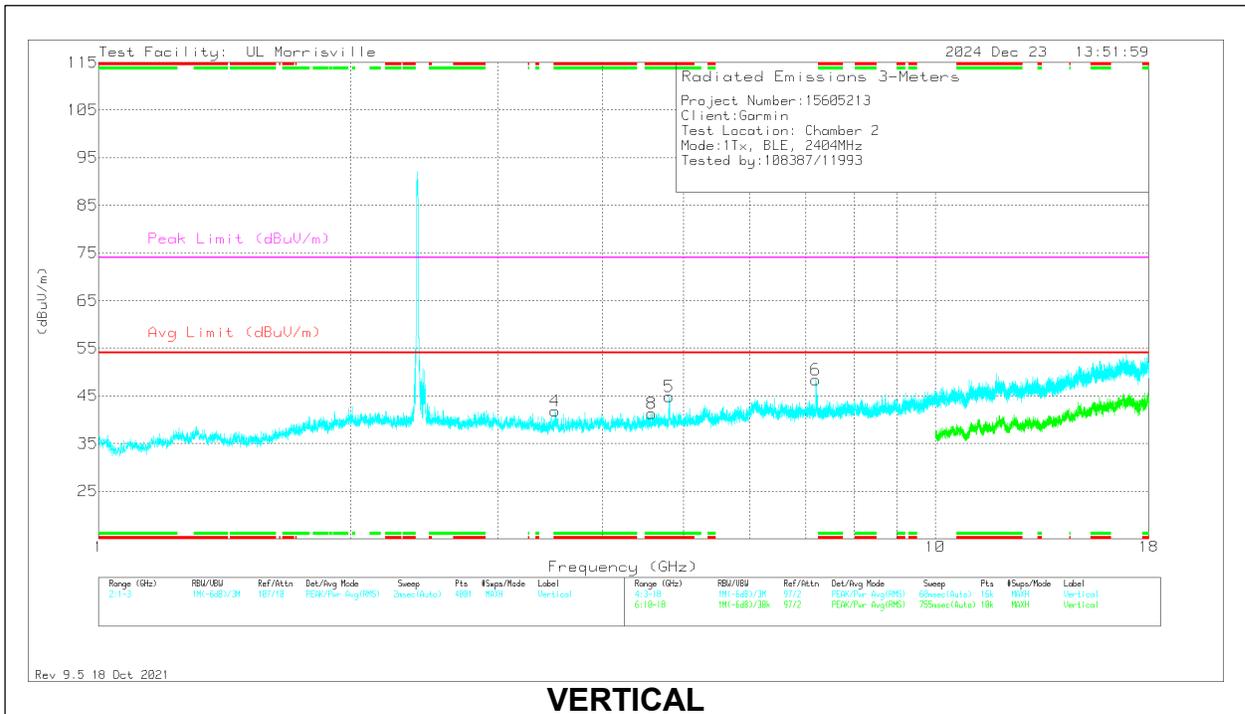
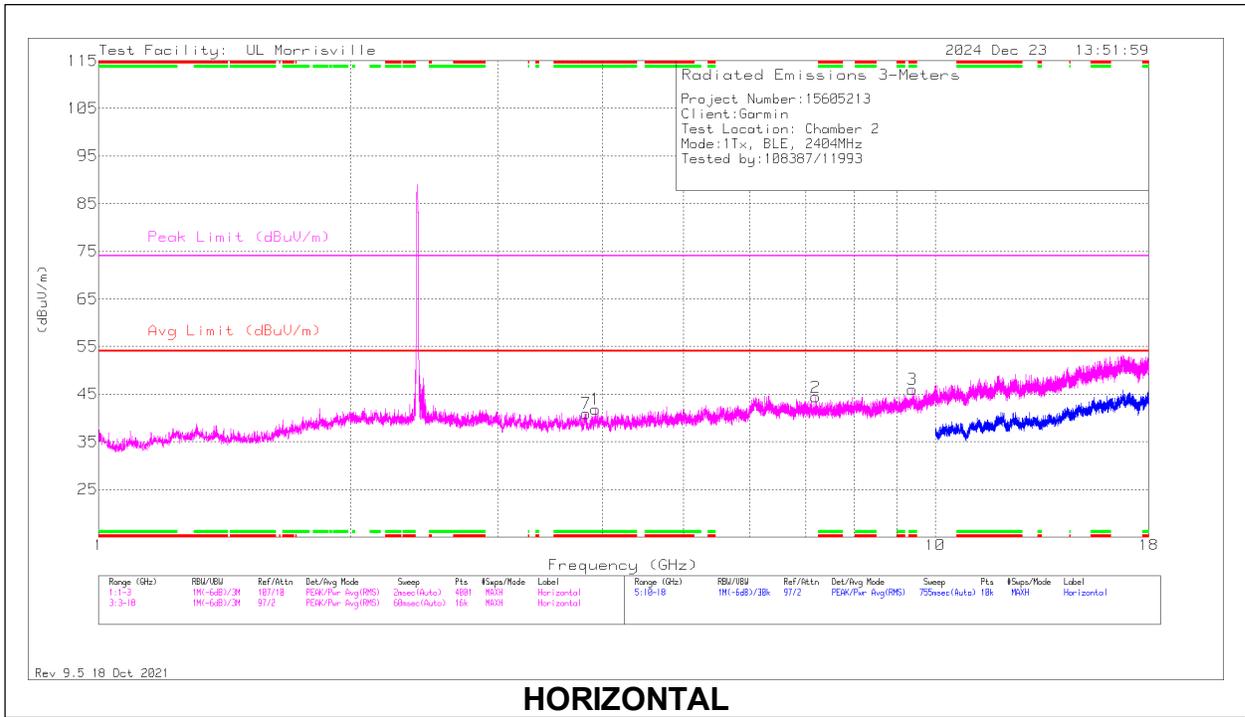
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL



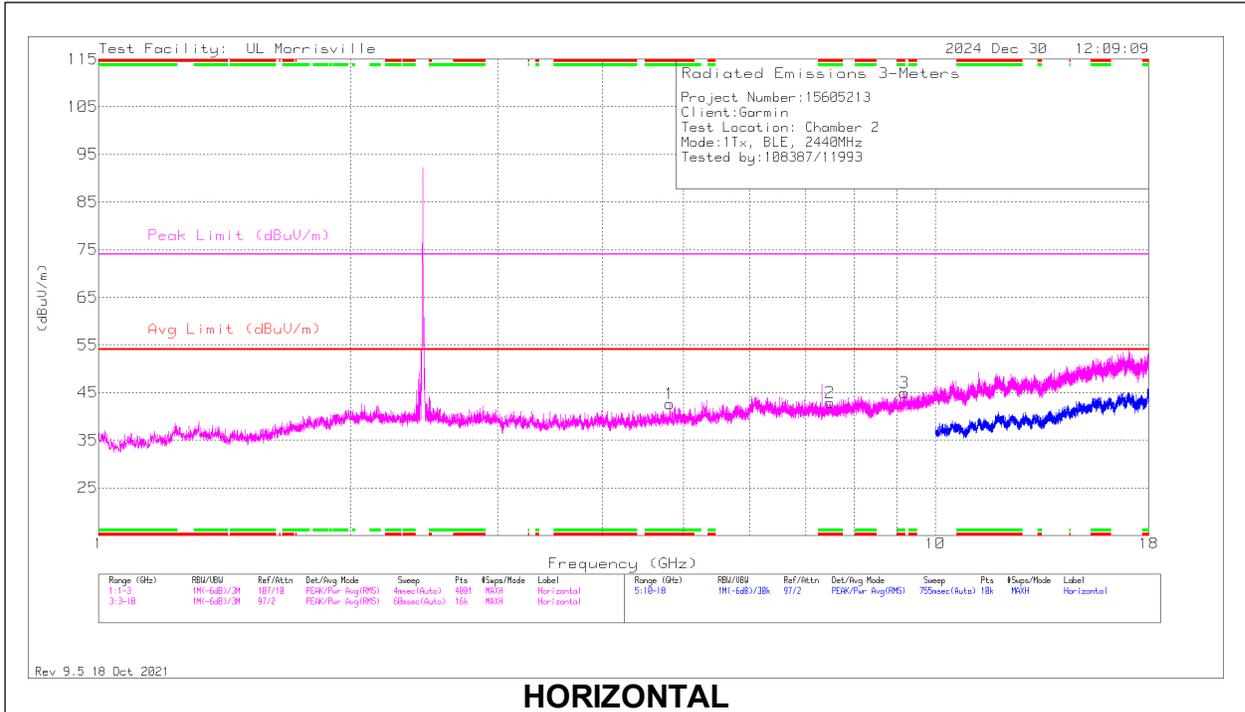
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 3.92438	52.93	Pk	33.4	-44.5	41.83	54	-12.17	74	-32.17	0-360	101	H
3	*** 9.38438	49.85	Pk	36.2	-40	46.05	54	-7.95	74	-27.95	0-360	199	H
7	*** 3.82406	51.8	Pk	33.3	-44.2	40.9	54	-13.1	74	-33.1	0-360	101	H
4	*** 3.51375	53.37	Pk	32.7	-44.2	41.87	54	-12.13	74	-32.13	0-360	101	V
5	*** 4.80656	54.42	Pk	34.2	-43.8	44.82	54	-9.18	74	-29.18	0-360	200	V
8	*** 4.58344	51.51	Pk	34	-44.2	41.31	54	-12.69	74	-32.69	0-360	101	V
2	7.20094	50.38	Pk	35.6	-41.6	44.38	-	-	-	-	0-360	199	H
6	7.20188	54.4	Pk	35.6	-41.6	48.4	-	-	-	-	0-360	101	V

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

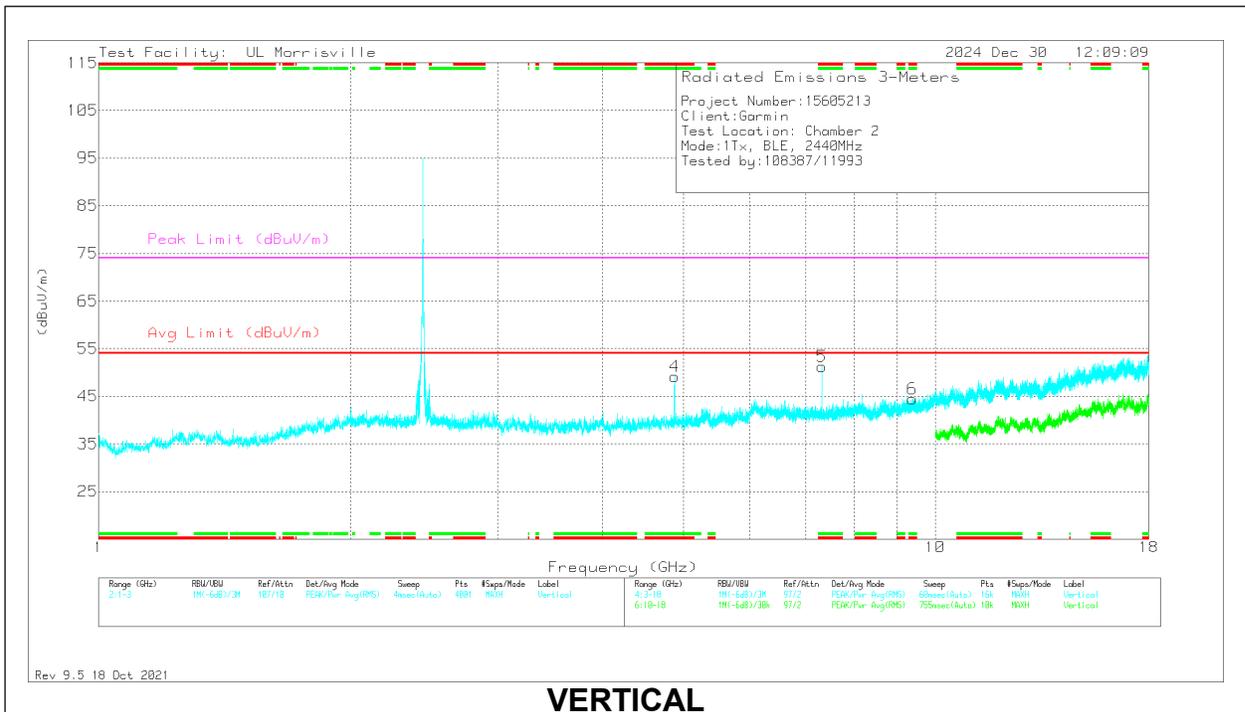
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### MID CHANNEL



### HORIZONTAL



### VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.81969	52.1	Pk	34.2	-43.7	42.6	54	-11.4	74	-31.4	0-360	101	H
2	*** 7.48594	48.17	Pk	35.7	-41	42.87	54	-11.13	74	-31.13	0-360	101	H
3	*** 9.18188	48.41	Pk	36	-39.4	45.01	54	-8.99	74	-28.99	0-360	101	H
4	*** 4.87912	61.65	PK2	34.1	-43.7	52.05	-	-	74	-21.95	211	152	V
	*** 4.87892	45.55	ADV	34.1	-43.7	35.95	54	-18.05	-	-	211	152	V
5	*** 7.32001	60.57	PK2	35.6	-41.8	54.37	-	-	74	-19.63	357	111	V
	*** 7.3217	42.43	ADV	35.6	-41.8	36.23	54	-17.77	-	-	357	111	V
6	*** 9.39281	47.8	Pk	36.2	-39.6	44.4	54	-9.6	74	-29.6	0-360	200	V

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

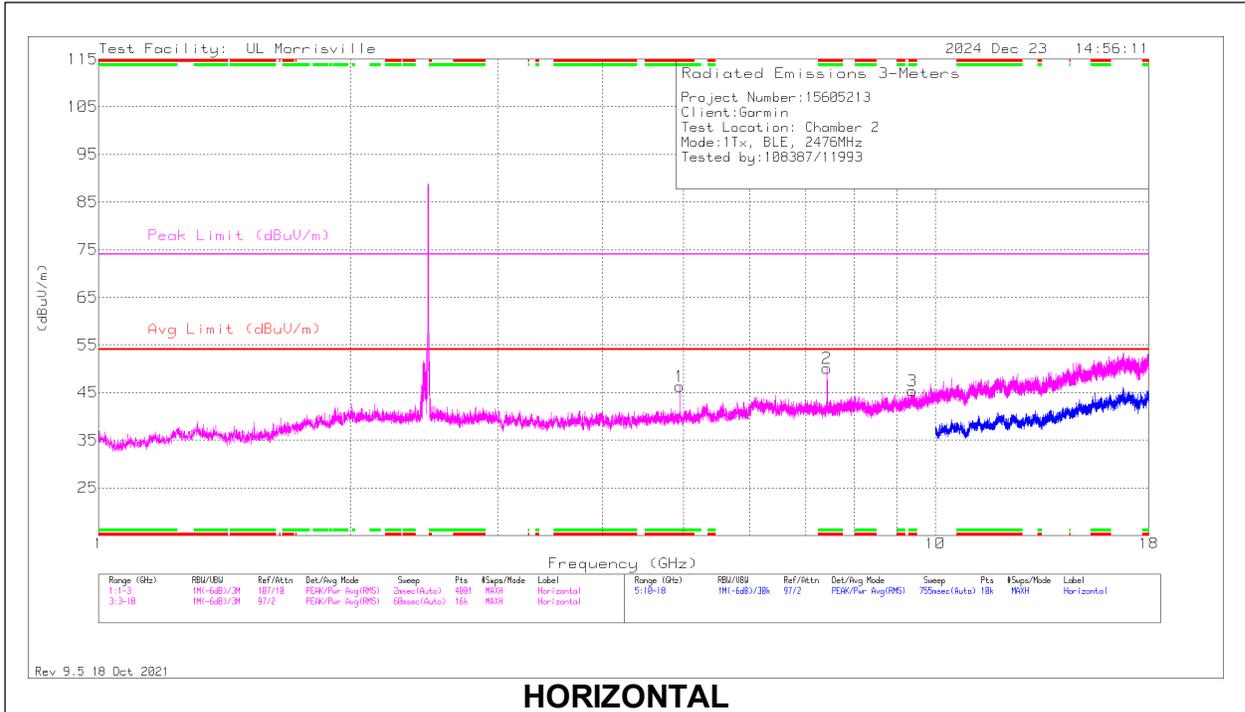
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

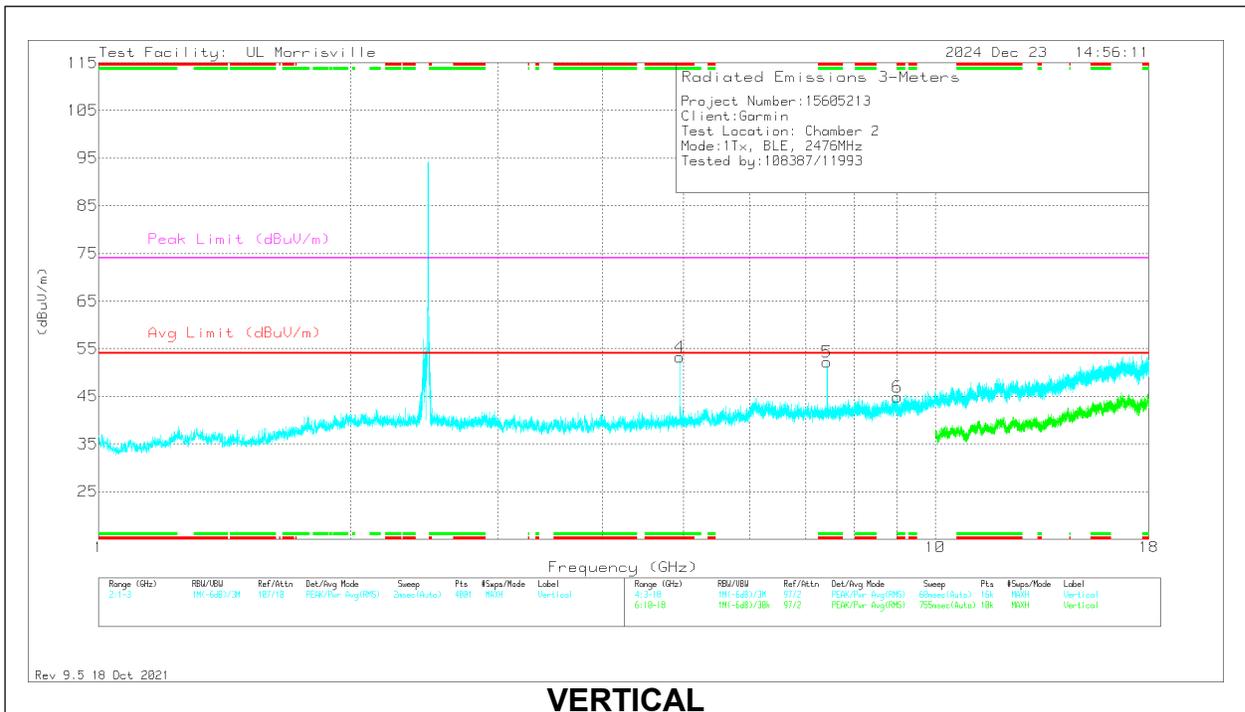
PK2 - Maximum Peak

ADV - Linear Voltage Average

### HIGH CHANNEL



### HORIZONTAL



### VERTICAL

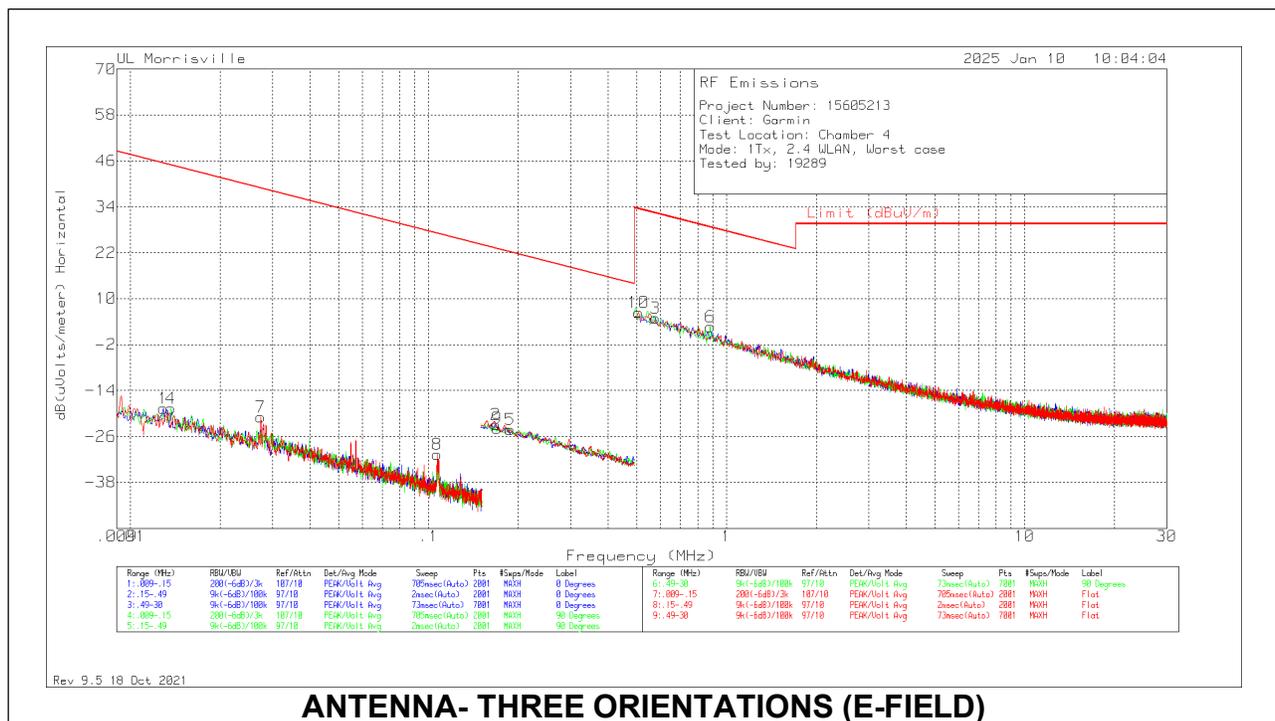
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	86408 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.95094	55.99	Pk	34	-43.7	46.29	54	-7.71	74	-27.71	0-360	199	H
2	*** 7.42801	58.13	PK2	35.6	-41.3	52.43	-	-	74	-21.57	163	135	H
	*** 7.42729	40.88	ADV	35.6	-41.4	35.08	54	-18.92	-	-	163	135	H
3	*** 9.39375	48.65	Pk	36.2	-39.5	45.35	54	-8.65	74	-28.65	0-360	101	H
4	*** 4.95117	65.25	PK2	34	-43.7	55.55	-	-	74	-18.45	68	356	V
	*** 4.95149	48.37	ADV	34	-43.7	38.67	54	-15.33	-	-	68	356	V
5	*** 7.42816	61.68	PK2	35.6	-41.3	55.98	-	-	74	-18.02	28	115	V
	*** 7.4293	43.1	ADV	35.6	-41.3	37.4	54	-16.6	-	-	28	115	V
6	*** 9.01031	48.73	Pk	35.9	-39.8	44.83	54	-9.17	74	-29.17	0-360	199	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

## 10.2. WORST CASE SPURIOUS BELOW 30MHZ

Note: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40\*Log (test distance / specification distance).

### 10.2.1. 2.4 WLAN

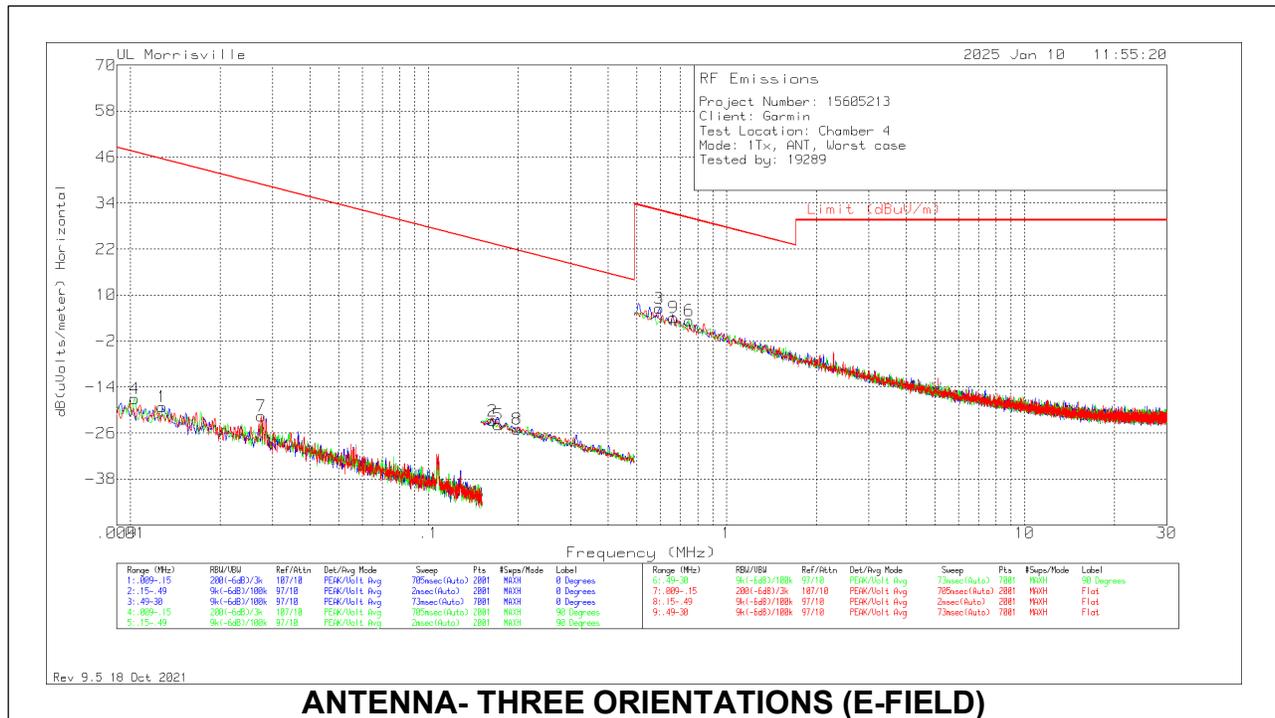


**ANTENNA- THREE ORIENTATIONS (E-FIELD)**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	.01291	44.19	PK	17	.1	-80	-18.71	45.39	65.39	-64.1	0-360	0 degs
4	.01369	44.61	PK	16.6	.1	-80	-18.69	44.88	64.88	-63.57	0-360	90 degs
7	.02739	45.63	PK	13.3	.1	-80	-20.97	38.85	58.85	-59.82	0-360	Flat
8	.10684	38.07	PK	11.1	.1	-80	-30.73	27.03	-	-57.76	0-360	Flat
2	.16794	46.06	PK	11	.1	-80	-22.84	23.1	43.1	-45.94	0-360	0 degs
9	.16972	44.98	PK	11	.1	-80	-23.92	23.01	43.01	-46.93	0-360	Flat
5	.18825	44.68	PK	11	.1	-80	-24.22	22.11	42.11	-46.33	0-360	90 degs
10	.50686	35.32	PK	11	.1	-40	6.42	33.51	-	-27.09	0-360	Flat
3	.57854	33.78	PK	11	.1	-40	4.88	32.36	-	-27.48	0-360	0 degs
6	.88209	31.52	PK	11	.2	-40	2.72	28.69	-	-25.97	0-360	90 degs

PK - Peak detector

### 10.2.2. ANT/ANT+

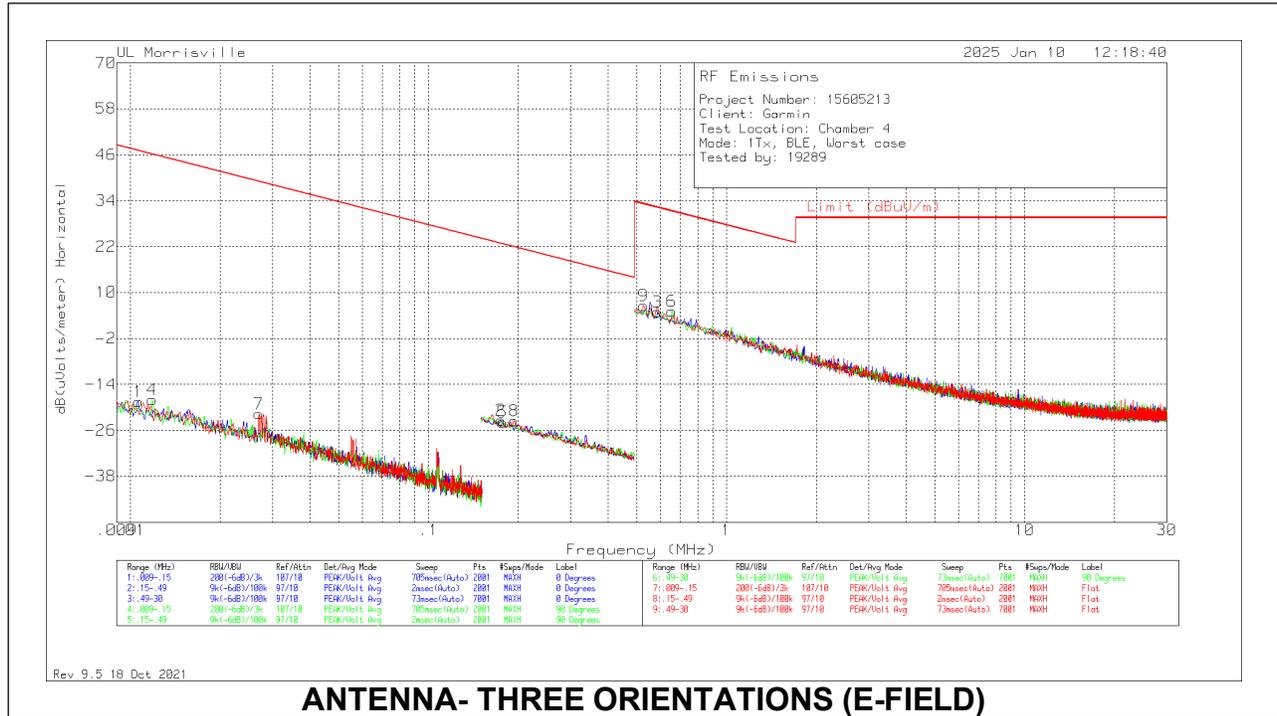


### ANTENNA- THREE ORIENTATIONS (E-FIELD)

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
4	.01035	44.82	Pk	18	.1	-80	-17.08	47.31	67.31	-64.39	0-360	90 degs
1	.01276	43.73	Pk	17	.1	-80	-19.17	45.49	65.49	-64.66	0-360	0 degs
7	.02746	45.02	Pk	13.3	.1	-80	-21.58	38.83	58.83	-60.41	0-360	Flat
2	.16411	46.1	Pk	11	.1	-80	-22.8	23.3	43.3	-46.1	0-360	0 degs
5	.17108	45.08	Pk	11	.1	-80	-23.82	22.94	42.94	-46.76	0-360	90 degs
8	.19811	43.92	Pk	11	.1	-80	-24.98	21.67	41.67	-46.65	0-360	Flat
3	.5954	35.39	Pk	11	.1	-40	6.49	32.11	-	-25.62	0-360	0 degs
9	.66286	32.99	Pk	11	.2	-40	4.19	31.18	-	-26.99	0-360	Flat
6	.74718	32.14	Pk	11	.2	-40	3.34	30.14	-	-26.8	0-360	90 degs

Pk - Peak detector

### 10.2.3. BLE

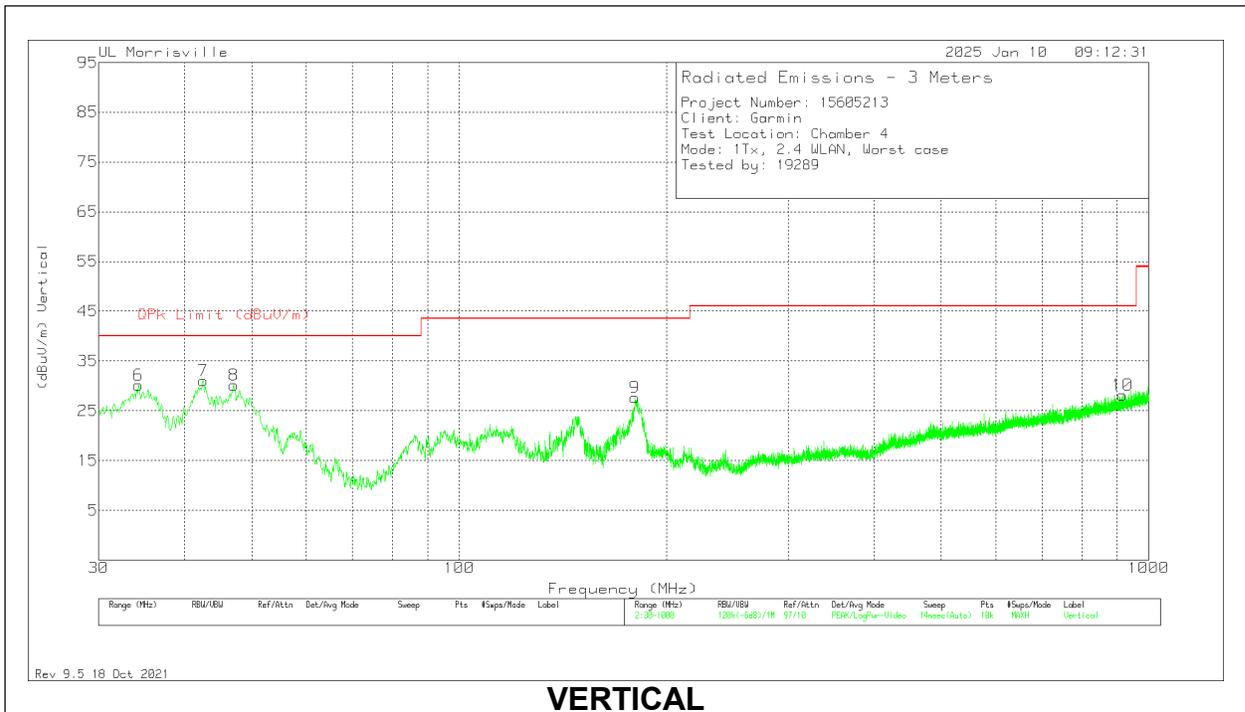
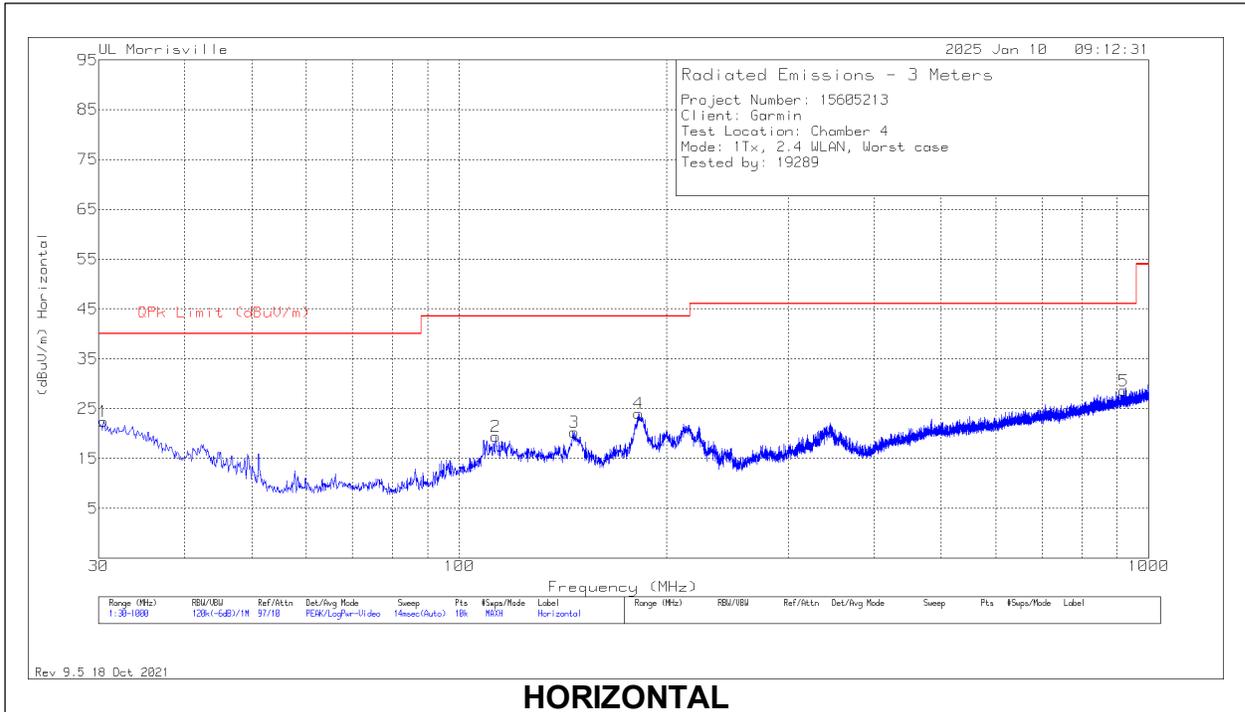


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	.01063	43.53	Pk	17.9	.1	-80	-18.47	47.07	67.07	-65.54	0-360	0 degs
4	.01184	44.52	Pk	17.4	.1	-80	-17.98	46.14	66.14	-64.12	0-360	90 degs
7	.02696	44.93	Pk	13.3	.1	-80	-21.67	38.99	58.99	-60.66	0-360	Flat
2	.1744	45.54	Pk	11	.1	-80	-23.36	22.77	42.77	-46.13	0-360	0 degs
5	.17737	45.11	Pk	11	.1	-80	-23.79	22.63	42.63	-46.42	0-360	90 degs
8	.19386	45.35	Pk	11	.1	-80	-23.55	21.85	41.85	-45.4	0-360	Flat
9	.52794	35.52	Pk	11	.1	-40	6.62	33.15	-	-26.53	0-360	Flat
3	.58697	33.79	Pk	11	.1	-40	4.89	32.23	-	-27.34	0-360	0 degs
6	.65442	33.88	Pk	11	.2	-40	5.08	31.29	-	-26.21	0-360	90 degs

Pk - Peak detector

### 10.3. WORST CASE SPURIOUS BELOW 1 GHZ

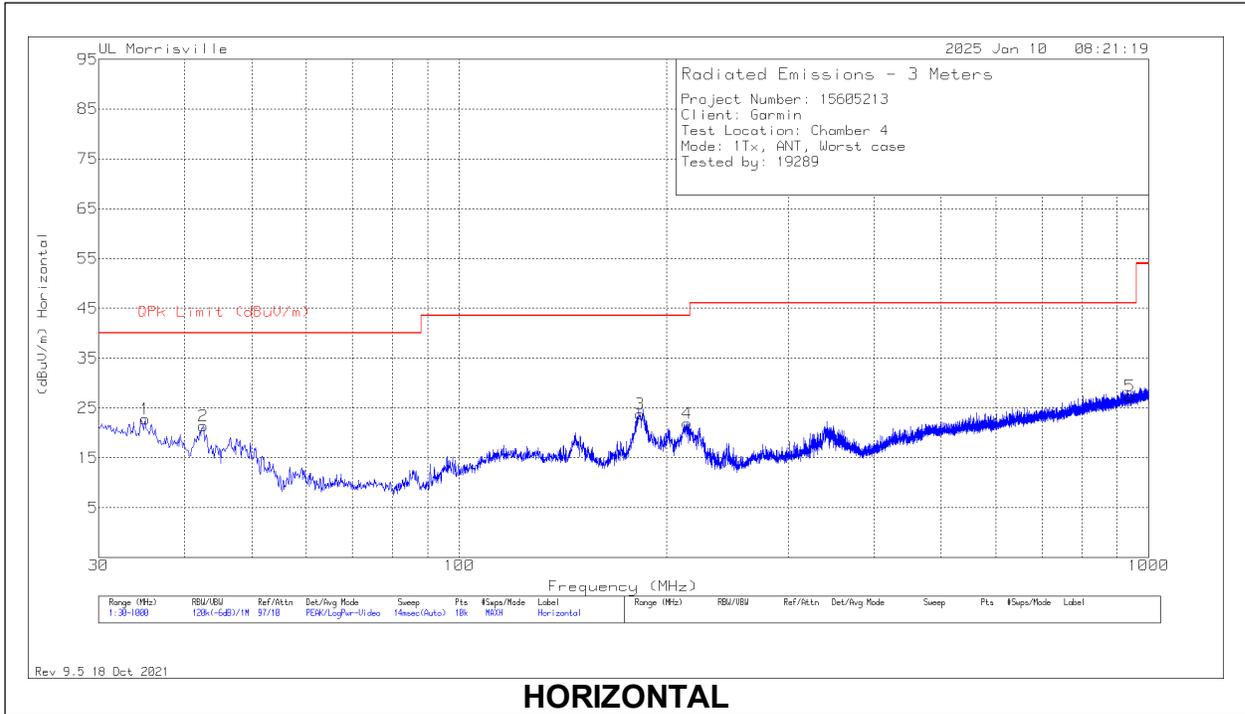
#### 10.3.1. 2.4 WLAN



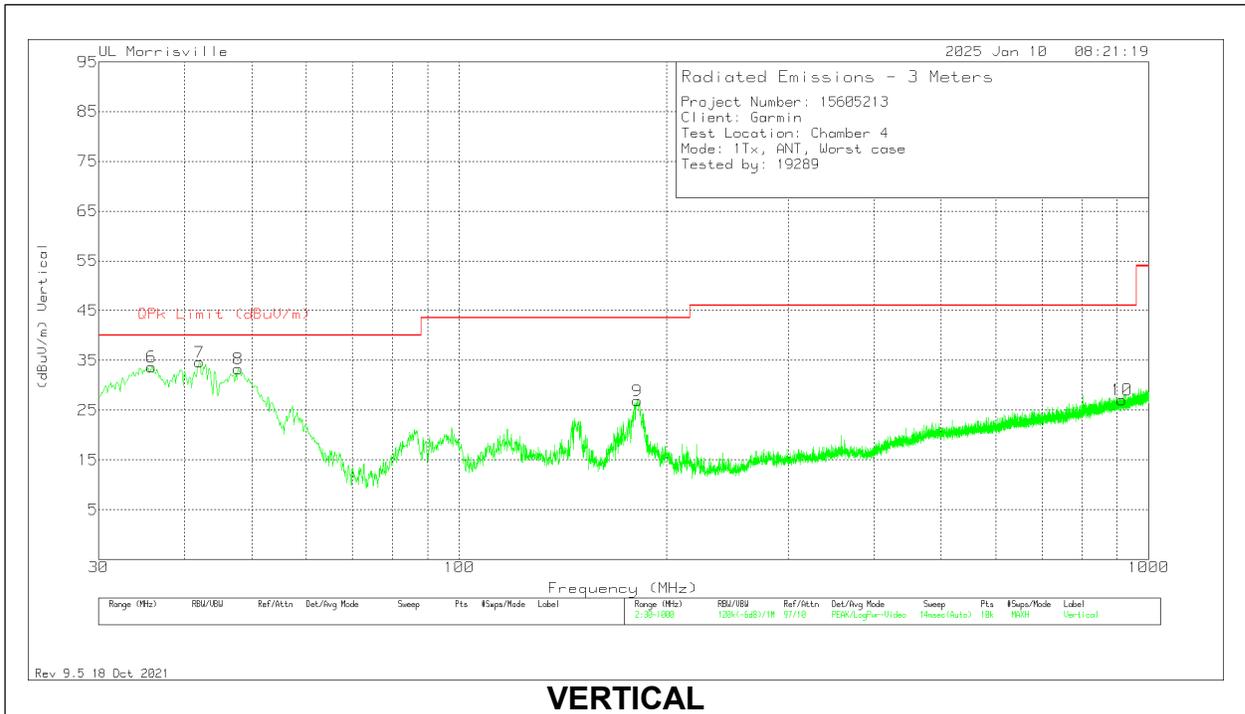
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.485	27.97	Pk	26.5	-32.1	22.37	40	-17.63	0-360	200	H
6	34.268	38.28	Pk	24	-32.1	30.18	40	-9.82	0-360	100	V
7	42.513	44.87	Pk	18.2	-32	31.07	40	-8.93	0-360	100	V
8	47.072	46.72	Pk	15.3	-31.9	30.12	40	-9.88	0-360	100	V
2	112.935	31.36	Pk	19.3	-31.3	19.36	43.52	-24.16	0-360	300	H
3	146.788	32.45	Pk	18.8	-31	20.25	43.52	-23.27	0-360	200	H
9	179.865	41.25	Pk	17.3	-30.9	27.65	43.52	-15.87	0-360	100	V
4	182.193	37.71	Pk	17.2	-30.9	24.01	43.52	-19.51	0-360	100	H
10	916.483	26.91	Pk	28.4	-27.1	28.21	46.02	-17.81	0-360	100	V
5	919.296	27.1	Pk	28.5	-27	28.6	46.02	-17.42	0-360	100	H

Pk - Peak detector

**10.3.2. ANT/ANT+**



**HORIZONTAL**



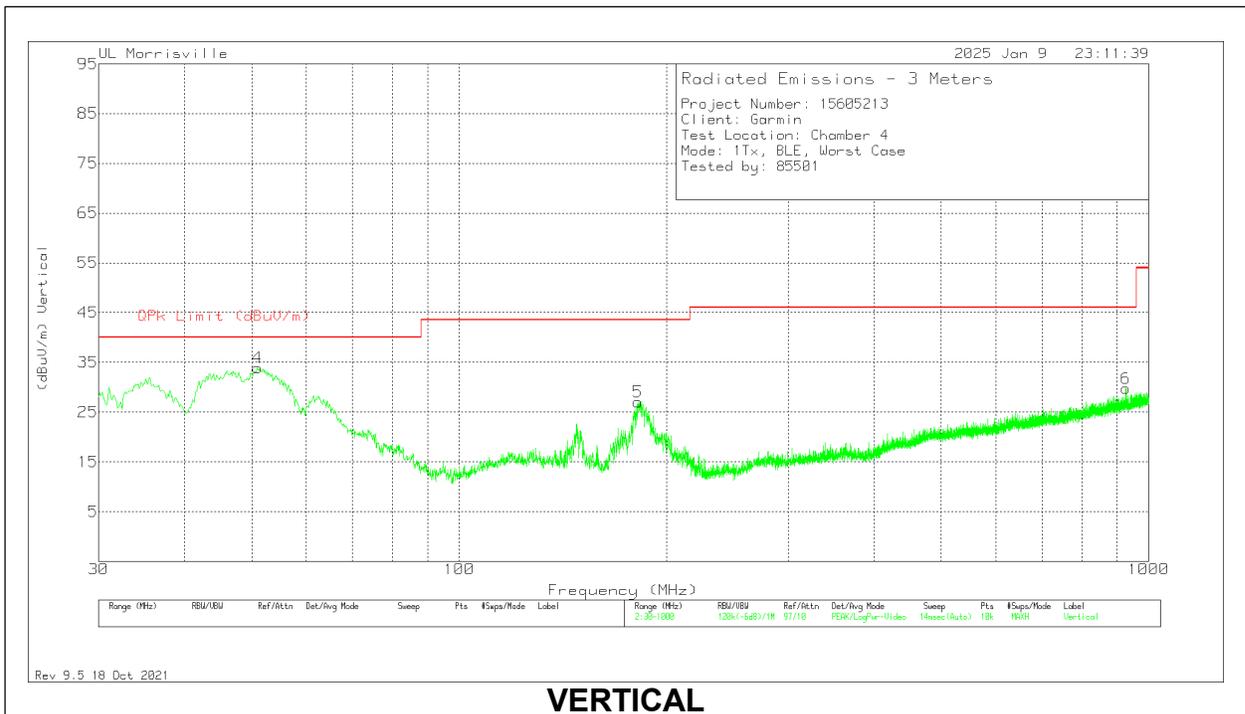
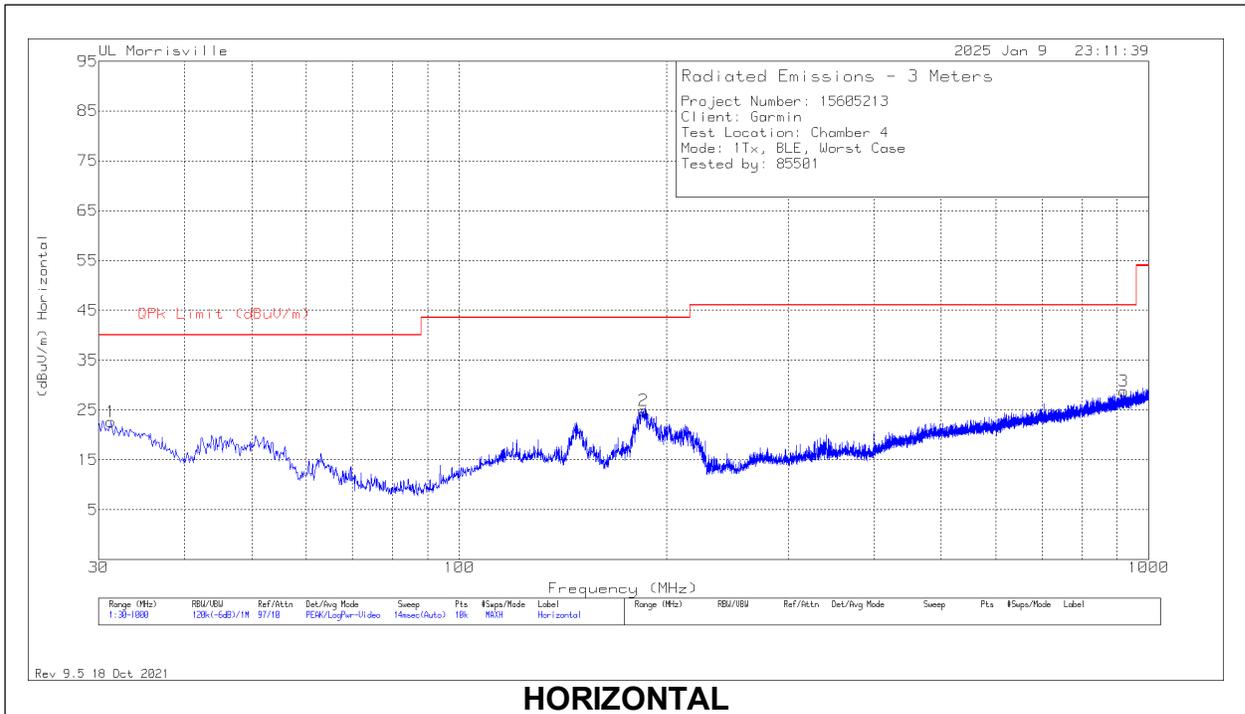
**VERTICAL**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	35.044	31.36	Pk	23.5	-32.1	22.76	40	-17.24	0-360	300	H
6	35.82	42.76	Pk	23	-32.1	33.66	40	-6.34	0-360	100	V
7	48.148	46.41	Qp	14.8	-31.9	29.31	40	-10.69	117	103	V
2	42.513	35.18	Pk	18.2	-32	21.38	40	-18.62	0-360	100	H
8	47.848	50.19	Pk	15	-31.9	33.29	40	-6.71	0-360	100	V
9	181.417	40.56	Pk	17.2	-30.9	26.86	43.52	-16.66	0-360	100	V
3	182.969	37.45	Pk	17.1	-30.8	23.75	43.52	-19.77	0-360	100	H
4	214.106	36.06	Pk	16.6	-30.7	21.96	43.52	-21.56	0-360	100	H
10	913.864	25.76	Pk	28.4	-27.1	27.06	46.02	-18.96	0-360	100	V
5	939.084	25.61	Pk	28.6	-26.8	27.41	46.02	-18.61	0-360	200	H

Pk - Peak detector

Qp - Quasi-Peak detector

10.3.3. BLE

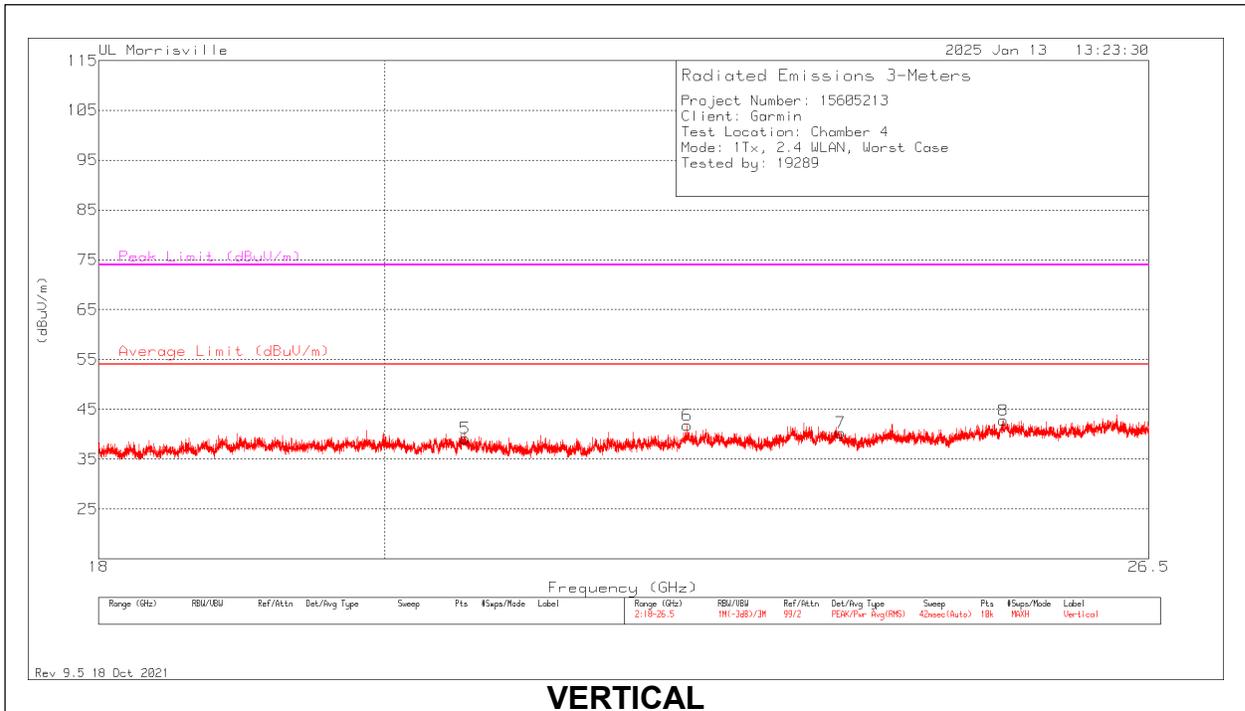
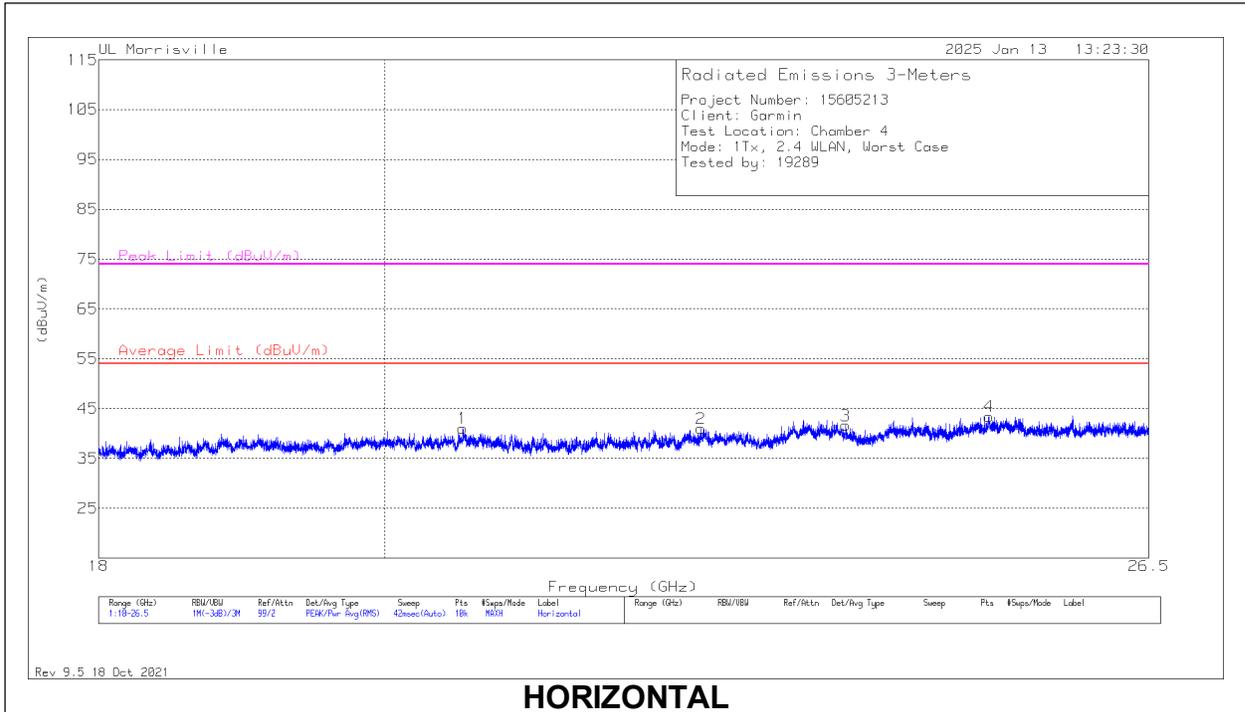


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.261	28.75	Pk	26	-32.1	22.65	40	-17.35	0-360	100	H
4	50.952	51.92	Pk	13.9	-31.9	33.92	40	-6.08	0-360	100	V
5	181.805	40.7	Pk	17.2	-30.9	27	43.52	-16.52	0-360	100	V
2	184.909	38.56	Pk	17.1	-30.8	24.86	43.52	-18.66	0-360	200	H
3	919.684	27.42	Pk	28.4	-27	28.82	46.02	-17.2	0-360	300	H
6	926.668	28.24	Pk	28.5	-27	29.74	46.02	-16.28	0-360	200	V

Pk - Peak detector

## 10.4. WORST CASE SPURIOUS 18-26 GHZ

### 10.4.1. 2.4 WLAN



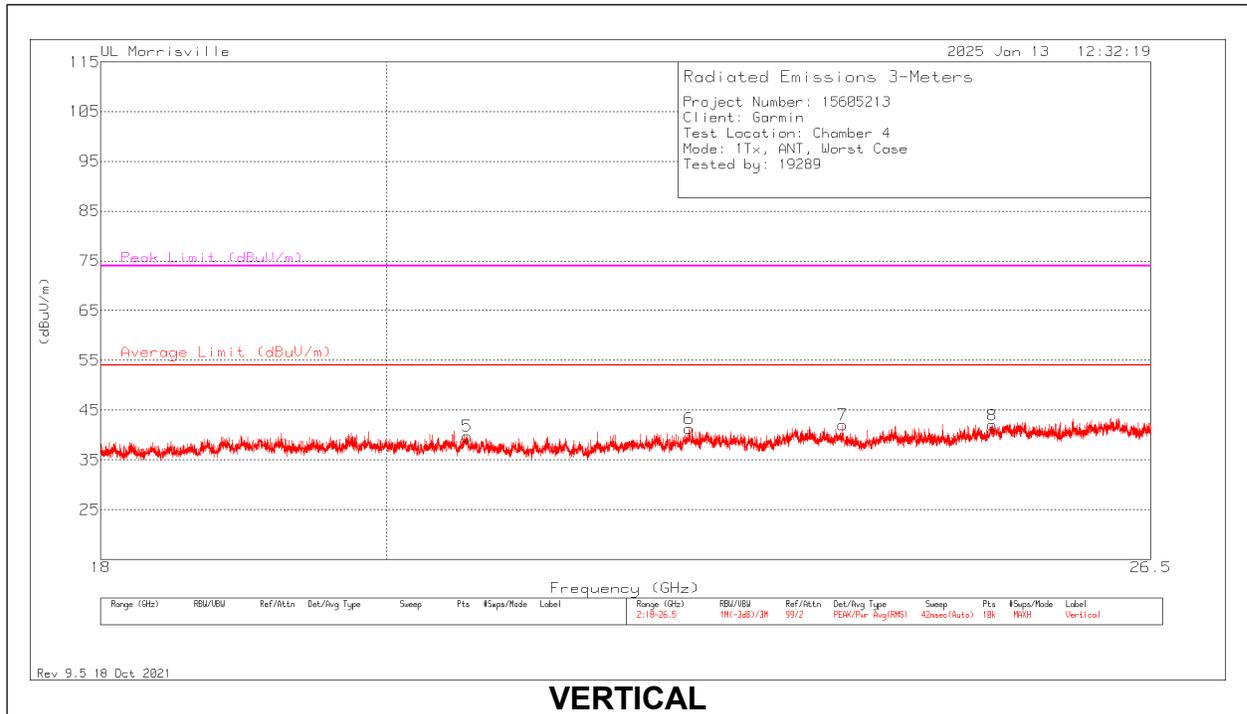
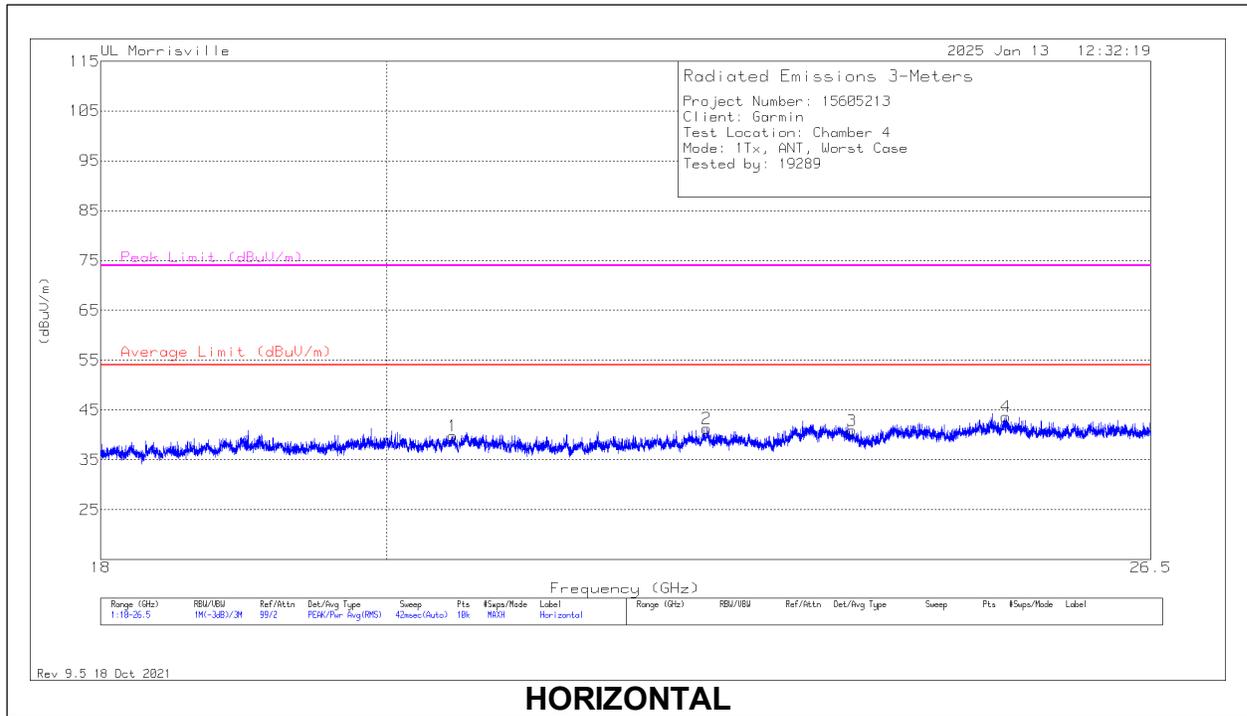
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204704 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 20.58204	47.83	Pk	33.7	-40.5	41.03	54	-12.97	74	-32.97	0-360	150	H
2	*** 22.46885	46.27	Pk	34.2	-39.5	40.97	54	-13.03	74	-33.03	0-360	150	H
3	*** 23.69868	45.39	Pk	34.5	-38.3	41.59	54	-12.41	74	-32.41	0-360	100	H
5	*** 20.60244	46	Pk	33.7	-40.5	39.2	54	-14.8	74	-34.8	0-360	250	V
6	*** 22.35921	47.65	Pk	34.1	-40	41.75	54	-12.25	74	-32.25	0-360	150	V
7	*** 23.65703	44.28	Pk	34.5	-38.5	40.28	54	-13.72	74	-33.72	0-360	250	V
4	24.98375	44.17	Pk	35.3	-36.1	43.37	-	-	-	-	0-360	100	H
8	25.11804	43.83	Pk	35.6	-36.7	42.73	-	-	-	-	0-360	300	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

**10.4.2. ANT/ANT+**



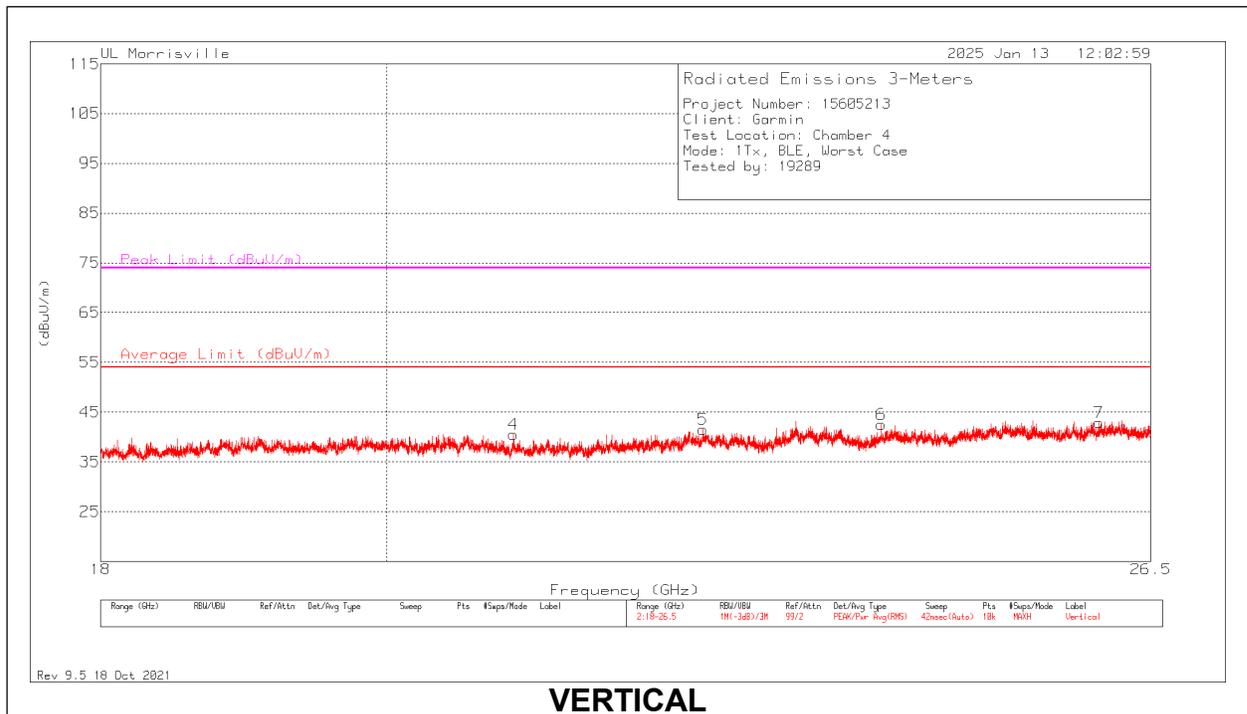
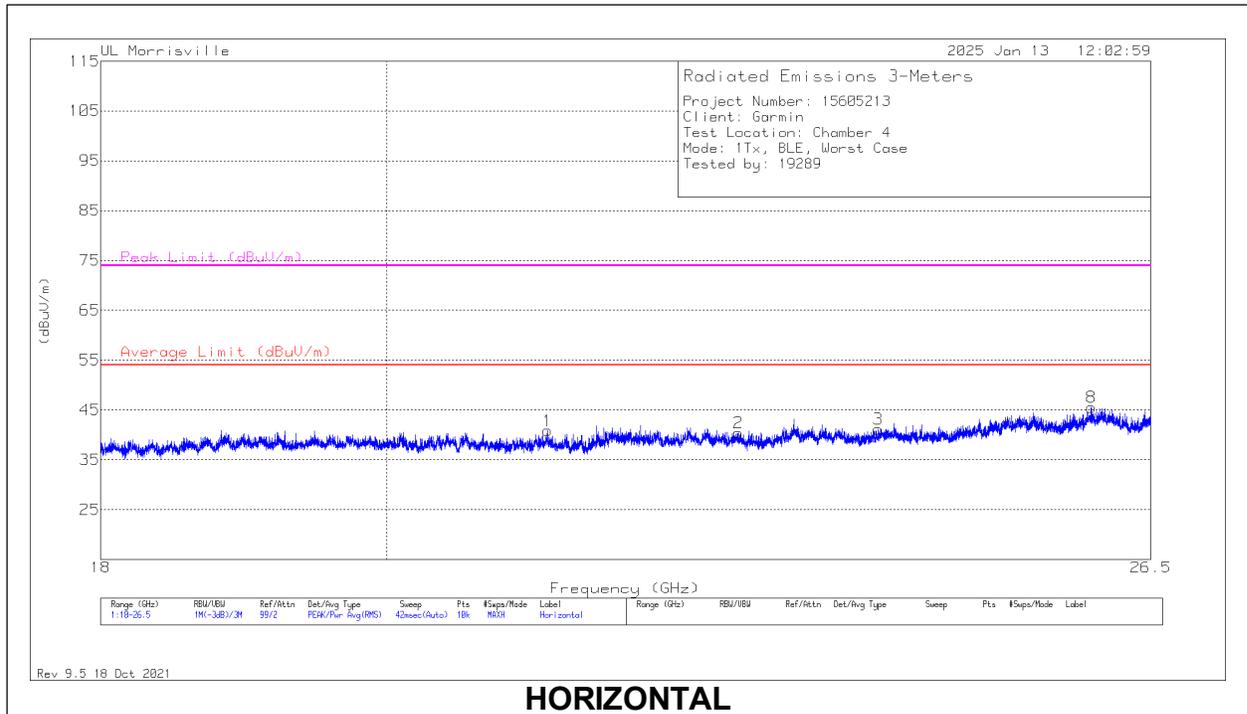
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204704 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 20.4945	46.79	Pk	33.7	-40.7	39.79	54	-14.21	74	-34.21	0-360	250	H
2	*** 22.50115	46.64	Pk	34.2	-39.6	41.24	54	-12.76	74	-32.76	0-360	250	H
3	*** 23.73863	44.75	Pk	34.5	-38.4	40.85	54	-13.15	74	-33.15	0-360	100	H
5	*** 20.60074	46.42	Pk	33.7	-40.3	39.82	54	-14.18	74	-34.18	0-360	250	V
6	*** 22.35496	47.16	Pk	34.1	-40	41.26	54	-12.74	74	-32.74	0-360	300	V
7	*** 23.65448	46.12	Pk	34.5	-38.6	42.02	54	-11.98	74	-31.98	0-360	150	V
8	24.99565	43.27	Pk	35.3	-36.6	41.97	-	-	-	-	0-360	250	V
-	25.12654	44.61	Pk	35.6	-36.6	43.61	-	-	-	-	0-360	100	H

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 10.4.3. BLE



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204704 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 21.22203	47.74	Pk	33.6	-40.5	40.84	54	-13.16	74	-33.16	0-360	100	H
2	*** 22.76547	46.21	Pk	34.1	-39.9	40.41	54	-13.59	74	-33.59	0-360	200	H
3	*** 23.96725	44.91	Pk	34.5	-38.3	41.11	54	-12.89	74	-32.89	0-360	150	H
4	*** 20.9543	47.34	Pk	33.5	-40.3	40.54	54	-13.46	74	-33.46	0-360	200	V
5	*** 22.47225	46.93	Pk	34.2	-39.6	41.53	54	-12.47	74	-32.47	0-360	300	V
6	*** 23.997	45.61	Pk	34.5	-37.6	42.51	54	-11.49	74	-31.49	0-360	200	V
8	25.92971	45.83	Pk	35.3	-35.6	45.53	-	-	-	-	0-360	100	H
7	25.9977	43.66	Pk	35.3	-36.1	42.86	-	-	-	-	0-360	200	V

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

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

## 11. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 <sup>*</sup>	56 to 46 <sup>*</sup>
0.5-5	56	46
5-30	60	50

<sup>\*</sup>Decreases with the logarithm of the frequency.

### TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

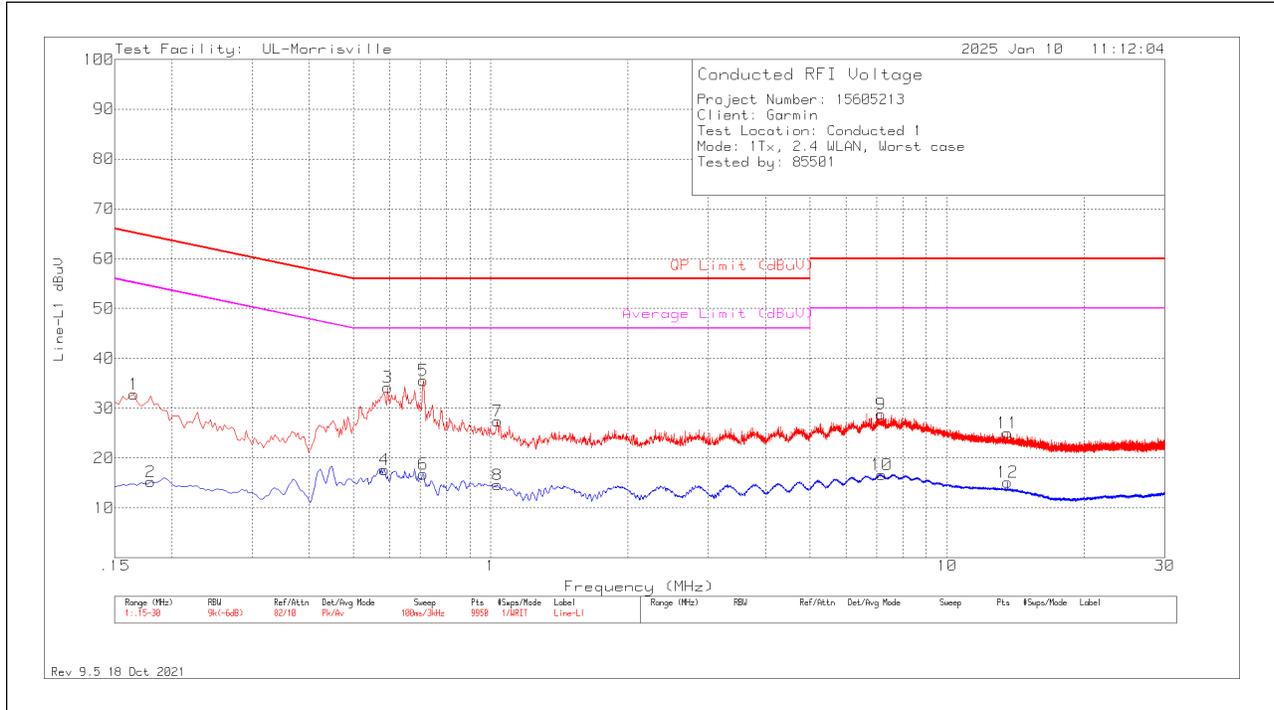
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

## 11.1. AC POWER LINE

### 11.1.1. 2.4 WLAN

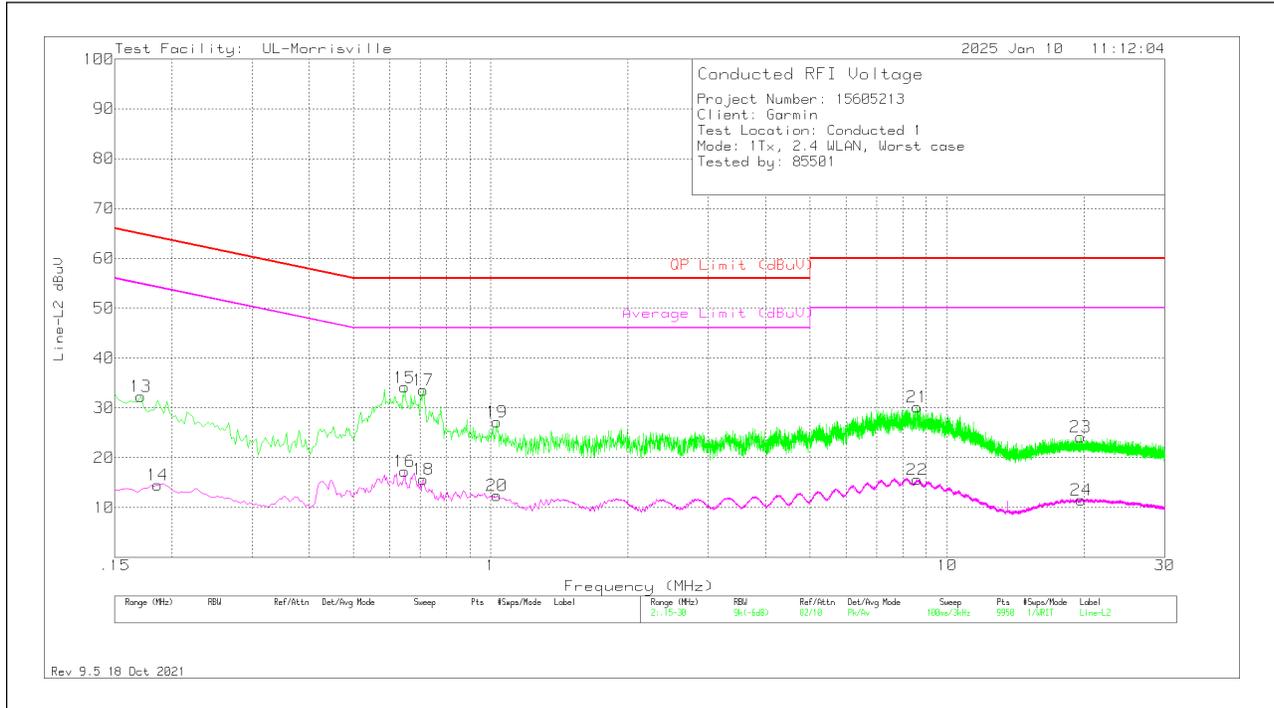
#### LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.165	22.77	Pk	.2	9.8	32.77	65.21	-32.44	-	-
2	.18	5.21	Av	.2	9.8	15.21	-	-	54.49	-39.28
4	.585	7.84	Av	0	9.8	17.64	-	-	46	-28.36
3	.594	24.33	Pk	0	9.8	34.13	56	-21.87	-	-
5	.711	25.75	Pk	0	9.8	35.55	56	-20.45	-	-
6	.711	7	Av	0	9.8	16.8	-	-	46	-29.2
7	1.035	17.62	Pk	0	9.8	27.42	56	-28.58	-	-
8	1.035	4.78	Av	0	9.8	14.58	-	-	46	-31.42
9	7.17	18.81	Pk	.1	9.9	28.81	60	-31.19	-	-
10	7.179	6.69	Av	.1	9.9	16.69	-	-	50	-33.31
11	13.563	14.98	Pk	.1	10	25.08	60	-34.92	-	-
12	13.563	5.06	Av	.1	10	15.16	-	-	50	-34.84

Pk - Peak detector  
 Av - Average detection

### LINE 2 RESULTS

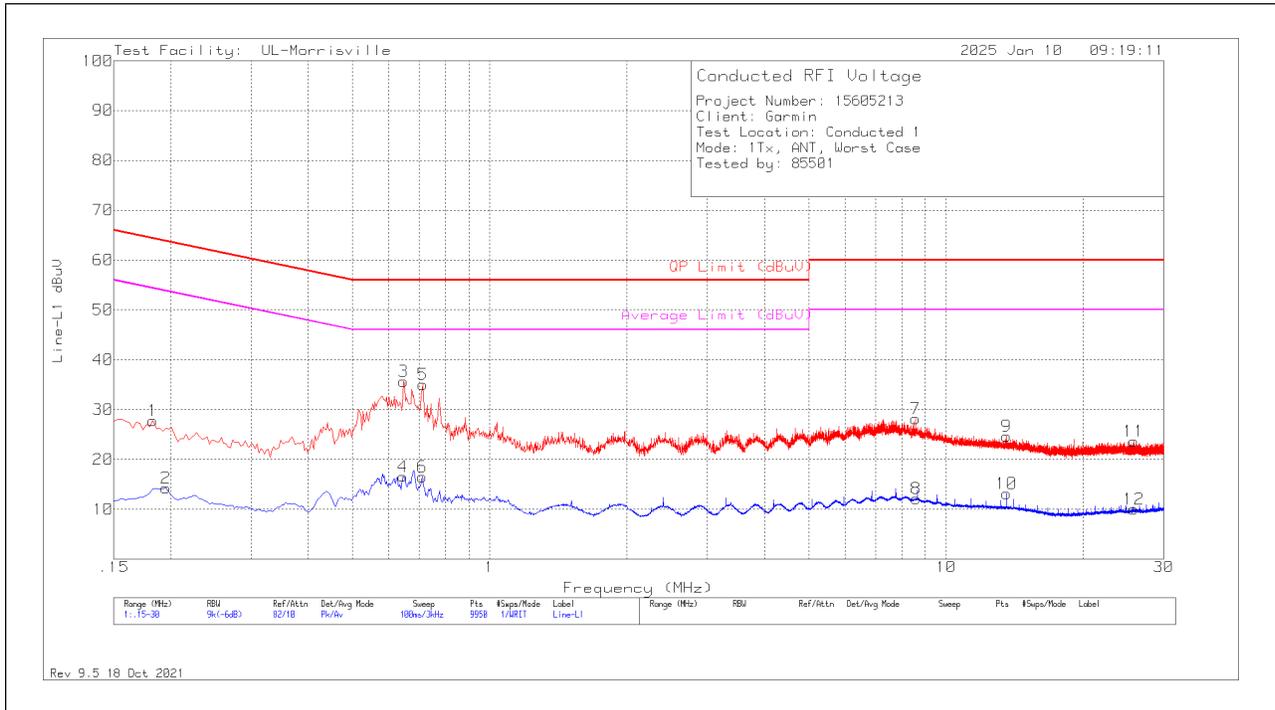


Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.171	22.26	Pk	.2	9.8	32.26	64.91	-32.65	-	-
14	.186	4.49	Av	.2	9.8	14.49	-	-	54.21	-39.72
15	.648	24.3	Pk	0	9.8	34.1	56	-21.9	-	-
16	.648	7.43	Av	0	9.8	17.23	-	-	46	-28.77
17	.711	23.78	Pk	0	9.8	33.58	56	-22.42	-	-
18	.711	5.87	Av	0	9.8	15.67	-	-	46	-30.33
19	1.032	17.4	Pk	0	9.8	27.2	56	-28.8	-	-
20	1.032	2.63	Av	0	9.8	12.43	-	-	46	-33.57
21	8.589	20.1	Pk	.1	10	30.2	60	-29.8	-	-
22	8.598	5.48	Av	.1	10	15.58	-	-	50	-34.42
23	19.638	13.85	Pk	.2	10.1	24.15	60	-35.85	-	-
24	19.65	1.24	Av	.2	10.1	11.54	-	-	50	-38.46

Pk - Peak detector  
 Av - Average detection

11.1.2. ANT/ANT+

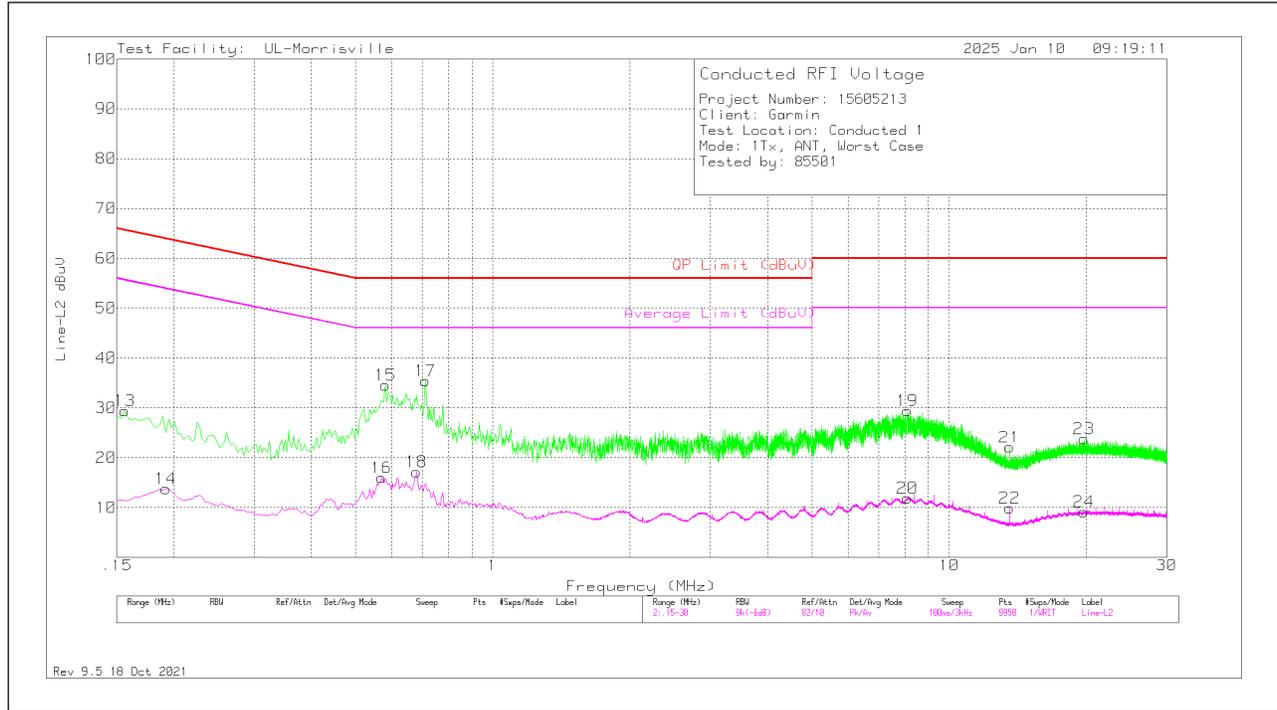
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.183	17.8	Pk	.2	9.8	27.8	64.35	-36.55	-	-
2	.195	4.27	Av	.2	9.8	14.27	-	-	53.82	-39.55
4	.645	6.77	Av	0	9.8	16.57	-	-	46	-29.43
3	.648	25.89	Pk	0	9.8	35.69	56	-20.31	-	-
6	.711	6.72	Av	0	9.8	16.52	-	-	46	-29.48
5	.714	25.29	Pk	0	9.8	35.09	56	-20.91	-	-
7	8.58	18.08	Pk	.1	10	28.18	60	-31.82	-	-
8	8.589	2.07	Av	.1	10	12.17	-	-	50	-37.83
9	13.557	14.53	Pk	.1	10	24.63	60	-35.37	-	-
10	13.56	3.02	Av	.1	10	13.12	-	-	50	-36.88
12	25.785	-.62	Av	.4	10.2	9.98	-	-	50	-40.02
11	25.815	13.07	Pk	.4	10.2	23.67	60	-36.33	-	-

Pk - Peak detector  
 Av - Average detection

### LINE 2 RESULTS

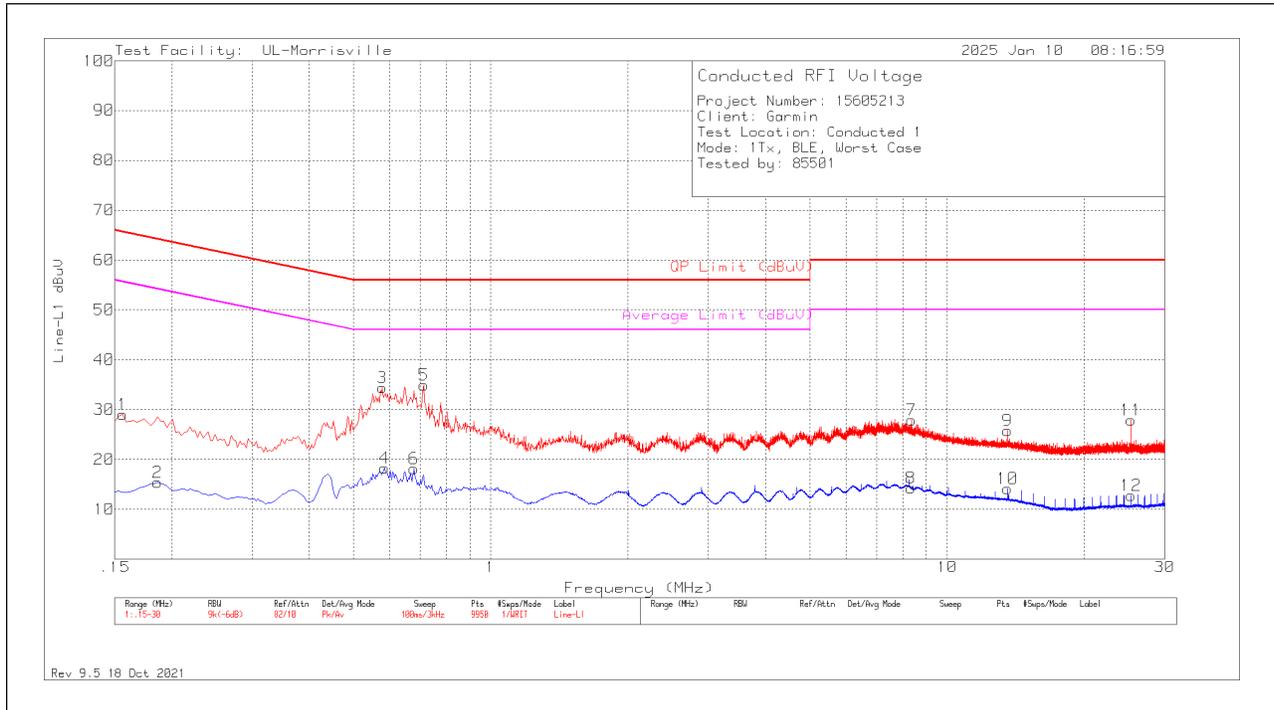


Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.156	19.4	Pk	.2	9.8	29.4	65.67	-36.27	-	-
14	.192	3.72	Av	.2	9.8	13.72	-	-	53.95	-40.23
16	.57	6.16	Av	0	9.8	15.96	-	-	46	-30.04
15	.582	24.75	Pk	0	9.8	34.55	56	-21.45	-	-
18	.681	7.34	Av	0	9.8	17.14	-	-	46	-28.86
17	.711	25.58	Pk	0	9.8	35.38	56	-20.62	-	-
20	8.094	1.83	Av	.1	10	11.93	-	-	50	-38.07
19	8.112	19.3	Pk	.1	10	29.4	60	-30.6	-	-
22	13.56	-2.24	Av	.1	10	9.86	-	-	50	-40.14
21	13.563	11.99	Pk	.1	10	22.09	60	-37.91	-	-
24	19.713	-1.21	Av	.2	10.1	9.09	-	-	50	-40.91
23	19.743	13.51	Pk	.2	10.1	23.81	60	-36.19	-	-

Pk - Peak detector  
 Av - Average detection

11.1.3. BLE

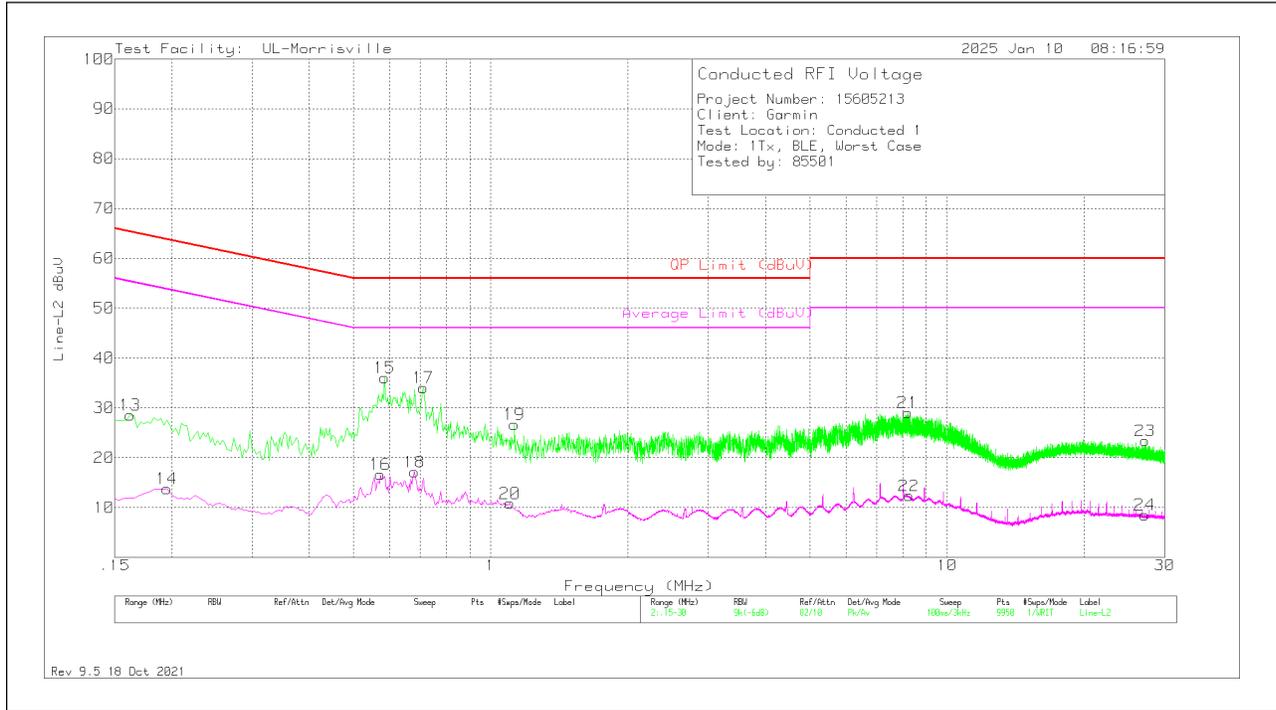
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.156	19.05	Pk	.2	9.8	29.05	65.67	-36.62	-	-
2	.186	5.44	Av	.2	9.8	15.44	-	-	54.21	-38.77
3	.579	24.65	Pk	0	9.8	34.45	56	-21.55	-	-
4	.585	8.52	Av	0	9.8	18.32	-	-	46	-27.68
6	.678	8.32	Av	0	9.8	18.12	-	-	46	-27.88
5	.714	25.15	Pk	0	9.8	34.95	56	-21.05	-	-
8	8.337	4.21	Av	.1	10	14.31	-	-	50	-35.69
7	8.358	17.8	Pk	.1	10	27.9	60	-32.1	-	-
9	13.56	15.66	Pk	.1	10	25.76	60	-34.24	-	-
10	13.563	4	Av	.1	10	14.1	-	-	50	-35.9
11	25.284	17.26	Pk	.4	10.2	27.86	60	-32.14	-	-
12	25.296	2.15	Av	.4	10.2	12.75	-	-	50	-37.25

Pk - Peak detector  
 Av - Average detection

### LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.162	18.58	Pk	.2	9.8	28.58	65.36	-36.78	-	-
14	.195	3.79	Av	.2	9.8	13.79	-	-	53.82	-40.03
16	.573	6.8	Av	0	9.8	16.6	-	-	46	-29.4
15	.585	26.22	Pk	0	9.8	36.02	56	-19.98	-	-
18	.681	7.29	Av	0	9.8	17.09	-	-	46	-28.91
17	.711	24.27	Pk	0	9.8	34.07	56	-21.93	-	-
20	1.101	1.02	Av	0	9.8	10.82	-	-	46	-35.18
19	1.128	16.89	Pk	0	9.8	26.69	56	-29.31	-	-
21	8.214	18.95	Pk	.1	10	29.05	60	-30.95	-	-
22	8.244	2.23	Av	.1	10	12.33	-	-	50	-37.67
24	27.15	-2.11	Av	.4	10.2	8.49	-	-	50	-41.51
23	27.165	12.75	Pk	.4	10.2	23.35	60	-36.65	-	-

Pk - Peak detector  
 Av - Average detection

## 12. SETUP PHOTOS

Please refer to R15605213-EP4 for setup photos

**END OF TEST REPORT**