

# TEST REPORT

**Report Number:** R14777389-E2

**Applicant :** Sony Corporation  
1-7-1 Konan Minato-ku  
Tokyo, 108-0075, Japan

**FCC ID :** PY7-95649X

**EUT Description :** GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC

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

**Date Of Issue:**

2023-07-28

**Prepared by:**

UL LLC

12 Laboratory Dr.

Research Triangle Park, NC 27709 U.S.A.

TEL: (919) 549-1400



## REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2023-07-28	Initial Issue	Charles Moody

## TABLE OF CONTENTS

<b>REVISION HISTORY .....</b>	<b>2</b>
<b>TABLE OF CONTENTS .....</b>	<b>3</b>
<b>1. ATTESTATION OF TEST RESULTS .....</b>	<b>4</b>
<b>2. TEST RESULTS SUMMARY .....</b>	<b>5</b>
<b>3. TEST METHODOLOGY .....</b>	<b>5</b>
<b>4. FACILITIES AND ACCREDITATION .....</b>	<b>5</b>
<b>5. DECISION RULES AND MEASUREMENT UNCERTAINTY .....</b>	<b>6</b>
5.1. METROLOGICAL TRACEABILITY .....	6
5.2. DECISION RULES.....	6
5.3. MEASUREMENT UNCERTAINTY.....	6
5.4. SAMPLE CALCULATION .....	6
<b>6. EQUIPMENT UNDER TEST .....</b>	<b>7</b>
6.1. DESCRIPTION OF EUT .....	7
6.2. WORST-CASE CONFIGURATION AND MODE.....	7
6.3. DESCRIPTION OF TEST SETUP.....	8
<b>7. REUSE OF TEST DATA.....</b>	<b>9</b>
7.1. INTRODUCTION .....	9
7.2. DEVICES DIFFERENCES.....	9
7.3. REFERENCE DETAIL .....	9
7.4. SPOT CHECK VERIFICATION RESULTS SUMMARY.....	10
<b>8. TEST AND MEASUREMENT EQUIPMENT .....</b>	<b>11</b>
<b>9. ON TIME AND DUTY CYCLE.....</b>	<b>12</b>
<b>10. SPOT CHECK DATA.....</b>	<b>18</b>
10.1. BLUETOOTH.....	19
10.2. BLE.....	23
10.3. 2.4GHz WLAN.....	27
10.4. 5GHz WLAN.....	31
10.5. WPT.....	41
10.6. NFC.....	43
<b>11. SETUP PHOTOS .....</b>	<b>47</b>

# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** Sony Corporation  
1-7-1 Konan Minato-ku  
Tokyo, 108-0075, Japan

**EUT DESCRIPTION:** GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax,  
GPS, WPT & NFC

**SERIAL NUMBER:** QV7700HEHQ, QV7700DDHQ, QV77003RHQ

**SAMPLE RECEIPT DATE:** 2023-06-16

**DATE TESTED:** 2023-07-07 TO 2023-07-13

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C and E	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.

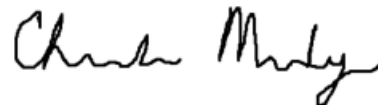
This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by a2La, NIST, or any agency of the U.S. government.

Approved & Released For  
UL LLC By:



Michael Antola  
Staff Engineer  
Consumer Technology Division  
UL LLC

Prepared By:



Charles Moody  
Engineer  
Consumer Technology Division  
UL LLC

## 2. TEST RESULTS SUMMARY

This report contains data provided by the applicant 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.

FCC Clause	Requirement	Result	Comment
See Comment	Duty Cycle	Not performed	Radiated spot checks performed to justify data reuse.
See Comment	20/26dB BW		
15.247 (a) (2) 15.407 (e)	6dB BW		
15.247 (a)(1)	Hopping Frequency Separation		
15.225 (e)	Frequency Stability		
15.247 (a)(1)(iii)	Number of Hopping Channels		
15.247 (a)(1)(iii)	Average Time of Occupancy		
See Comment	Average Power		
15.247 (d)	Conducted Spurious Emissions		
15.247 (b) (1,3) 15.407(a)(1-3)(h)(1)	Output Power		
15.247 (e) 15.407 (a) (1-3)	PSD		
15.207	AC Mains Conducted Emissions		
15.209, 15.205, 15.225 (d), 15.407(b)	Radiated Emissions	See Comment	Radiated spot checks performed on worst-case channels only to justify data reuse.

## 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013 and KDB 484596 D01 Referencing Test Data v01.

## 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	$U_{Lab}$
All emissions, radiated	6.01 dB

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

### 5.4. SAMPLE CALCULATION

#### RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

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

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

## 6. EQUIPMENT UNDER TEST

### 6.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE 5G PHONE with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC.

### 6.2. WORST-CASE CONFIGURATION AND MODE

Band edge and radiated emissions between 1GHz and 18 GHz were performed with the EUT set to transmit at the worst-case channels and data rates based on the reports of an electrically identical model (see section 7 for data reuse information).

The antenna of the EUT was investigated in three orthogonal orientations X/Y/Z. See the table below for WC Orientations.

Technology	Orientation
2.4 WLAN	Y
5.0 WLAN	Y
BLE	Y
BT Chain 0	X
BT Chain 1	Y
WPT	X
NFC	Z

The Worst-Case scenarios for 1-18GHz are as follows:

Technology	Test Type	Frequency (MHz)	Mode	Data Rate	Chain
2.4 WLAN (DTS)	Band Edge	2462	HT20	MCS0	MIMO
	RSE	2437	11b	1Mbps	MIMO
5 WLAN (UNII)	5.2 Band Edge	5250	HE160 2x996T/RU68 Low Edge	MCS0	MIMO
	5.3 Band Edge	5250	HE160 2x996T/RU68 High Edge	MCS0	MIMO
	5.6 Band Edge	5500	11a	6Mbps	MIMO
	5.8 Band Edge	5825	HE20 242T/RU61	MCS0	MIMO
	RSE	5270	11n HT40	MCS0	MIMO
BLE	Band Edge	2480	BLE (GFSK)	2 Mbps	0
	RSE	2480	BLE (GFSK)	125 kbps	1
BT	Band Edge	2480	GFSK/DH5	1 Mbps	0
	RSE	2402	8PSK/3-DH5	1 Mbps	0

The worst-case scenario for WPT is as follows:

The EUT emissions should be measured from 9kHz to 30MHz in its X orientation. The two devices shall be parallel, with coils off centered, and no separation distance between the two devices. Additionally, a state of 5% charged was the worst-case mode of operation and testing was therefore performed with the battery at 5%.

The worst-case scenario for NFC is as follows:

The EUT emissions should be measured from 9kHz to 1000MHz in its Z orientation. The device shall be in Type B mode at 106Kbps to serve as a worst-case orientation.

### 6.3. DESCRIPTION OF TEST SETUP

#### SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adaptor	Sony	XQZ-UC1	1821W34209742	NA
Headphones	Sony	MDR-EX15AP	NA	NA

#### I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB-C	1	USB-C	Shielded	<3m	XQZ-UB1
2	3.5mm	2	Aux	Shielded	<3m	Headphones – Used for port population

Refer to R14777389-EP2 for setup diagrams.



## 7. REUSE OF TEST DATA

### 7.1. INTRODUCTION

According to the manufacturer, FCC ID: PY7-76732V and FCC ID: PY7-95649X unlicensed radios (WLAN/BT/BLE/WPT/NFC) are electrically identical. The FCC ID: PY7-76732V test data shall remain representative of FCC ID: PY7-95649X so, FCC ID: PY7-95649X leverages test data from FCC ID: PY7-76732V.

The applicant takes full responsibility that the test data as referenced in this section represents compliance for this FCC ID.

### 7.2. DEVICES DIFFERENCES

Difference between PY7-76732V and PY7-95649X:

Sony Corporation hereby declares that the hardware of WLAN 2.4GHz, WLAN 5GHz, Bluetooth, GPS, WPT, and NFC is identical among PY7-76732V and PY7-95649X. The change is related to the cellular radio. Therefore, the following report/data of PY7-76732V may represent for PY7-95649X.

### 7.3. REFERENCE DETAIL

Equipment Class	Reference FCC ID	Report Title/Section
DTS (BLE)	PY7-76732V	R14777340-E2 FCC BLE REPORT / All sections
DSS (BT)	PY7-76732V	R14777340-E3 FCC BT REPORT / All sections
DTS (WLAN)	PY7-76732V	R14777340-E4 FCC DTS WLAN REPORT / All sections
NII (WLAN)	PY7-76732V	R14777340-E5 FCC UNII WLAN REPORT / All sections
DCD (WPT)	PY7-76732V	R14777340-E8 FCC WPT REPORT / All sections
DXX (NFC)	PY7-76732V	R14777340-E10 FCC NFC REPORT / All sections

### 7.4. SPOT CHECK VERIFICATION RESULTS SUMMARY

Spot check verification has been done on device PY7-95649X for radiated spurious. The data from the application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary.

PY7-95649X SPOT CHECK RESULTS									
Technology	Test Item	Channel	Measured Frequency (MHz)	PY7-76732V		PY7-95649X		Delta (dB) <+3dB	
				PK Reading (dBuV/m)	AV Reading (dBuV/m)	PK Reading (dBuV/m)	AV Reading (dBuV/m)	PK	AV
BT (GFSK)	RBE	79	2483	49.75	37.52	52.23	38.52	2.48	1.00
BT (8PSK)	RSE	0	2874	47.84	33.83	48.86	34.16	1.02	0.33
BLE (GFSK)	RBE	39	2483	61.64	42.57	61.77	43.54	0.13	0.97
	RSE	39	2873	47.93	36.00	48.04	35.66	0.11	-0.34
2.4GHz WLAN (HT20)	RBE	11	2483	54.20	40.60	53.67	40.39	-0.53	-0.21
2.4GHz WLAN (11b)	RSE	6	*9317	47.97	-	47.48	-	-0.49	-
*Note: No AV remeasurement for above scan, as no markers were within 6 dB of avg limit									
5GHz WLAN (HE160)	RBE	50	5150	57.14	46.23	56.66	45.61	-0.48	-0.62
	RBE	50	5350	57.05	46.17	59.16	45.98	2.11	-0.19
5GHz WLAN (11n HT40)	RSE	54	**9442	47.82	-	48.21	-	0.39	-
			**Note: No AV remeasurement was taken for model PY776732V, as no markers were within 6dB of avg limit.						
5GHz WLAN (11a)	RBE	100	5459	58.99	46.56	57.52	45.29	-1.47	-1.27
5GHz WLAN (HE20)	RBE	165	***5940	-34.58 (EIRP)	-	-35.78	-	-1.2	-
			***Note: No AV limit for above scan, therefore no AV measurements just PK.						
WPT	RSE	121 kHz	0.36208	-22.89	-	-28.35	-	-5.46	-
NFC	RSE	13.56	0.1755	-21.27	-	-27.38	-	-6.17	-
			67.7992	35.50	-	25.28	-	-10.22	-

## 8. TEST AND MEASUREMENT EQUIPMENT

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	2023-01-17	2024-01-17
	<b>30-1000 MHz</b>				
90629	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2023-01-06	2024-01-06
	<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>Gain-Loss Chains</b>				
207638	Gain-loss string: 0.009-30MHz	Various	Various	2023-05-17	2024-05-17
207639	Gain-loss string: 25-1000MHz	Various	Various	2023-05-17	2024-05-17
207640	Gain-loss string: 1-18GHz	Various	Various	2023-05-17	2024-05-17
	<b>Receiver &amp; Software</b>				
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2023-04-10	2024-04-10
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	<b>Additional Equipment used</b>				
21642	Environmental Meter	Fisher Scientific	15-077-963 (s/n 210701692)	2021-08-16	2023-08-16

## 9. ON TIME AND DUTY CYCLE

### LIMITS

None; for reporting purposes only.

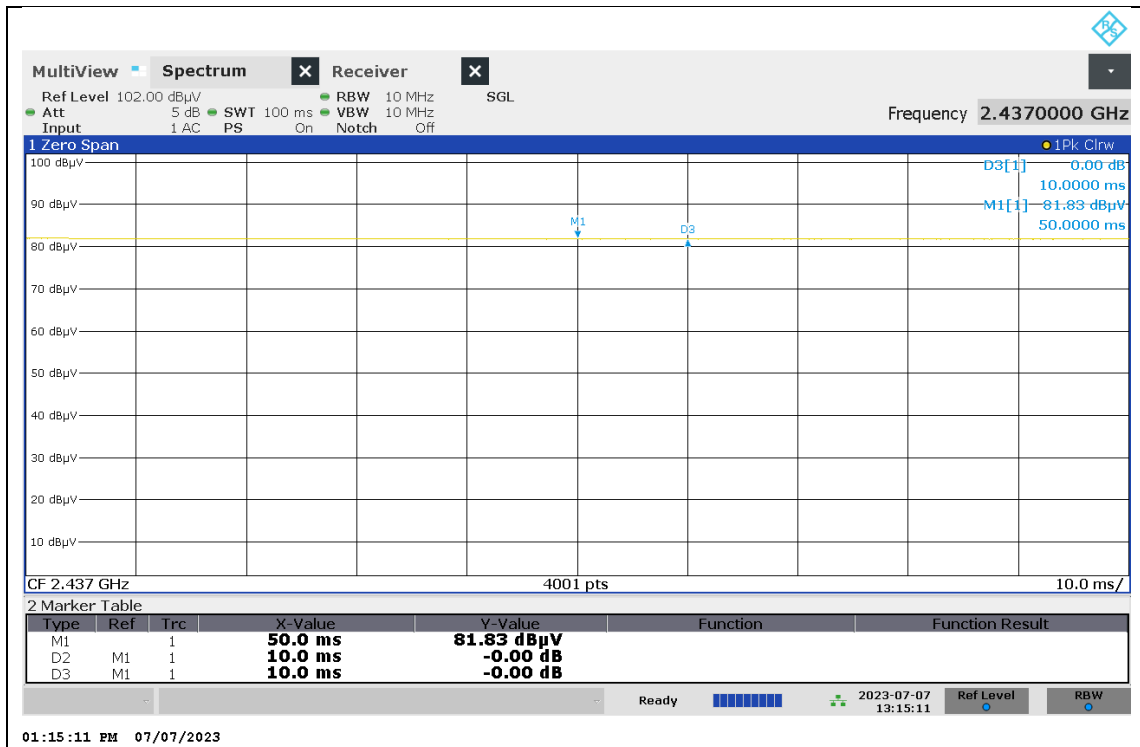
### PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.  
 KDB 789033 Zero-Span Spectrum Analyzer Method.

### ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
<b>2.4 WLAN DTS</b>						
802.11b 1Mbps	100.0000	100.0000	1.000	100.00%	0.00	0.010
802.11n HT20	5.404	5.453	0.991	99.10%	0.00	0.010
<b>5 WLAN UNII</b>						
802.11n HT40	5.416	5.451	0.994	99.36%	0.00	0.010
802.11ax HE20, 242T/RU61	0.922	0.978	0.942	94.25%	0.51	1.085
802.11ax HE160, 2x996T/RU68	0.382	0.420	0.909	90.89%	0.83	2.620
802.11a 6Mbps	2.082	2.112	0.986	98.58%	0.00	0.010
<b>BLE</b>						
GFSK 125Kbps	17.028	17.490	0.974	97.36%	0.23	0.059
GFSK 2Mbps	1.074	1.876	0.572	57.25%	4.84	0.931
<b>BT</b>						
GFSK (DH5) 1Mbps	2.880	3.750	0.768	76.80%	2.29	0.347
8PSK (3-DH5) 3Mbps	2.8725	3.7500	0.766	76.60%	2.32	0.348

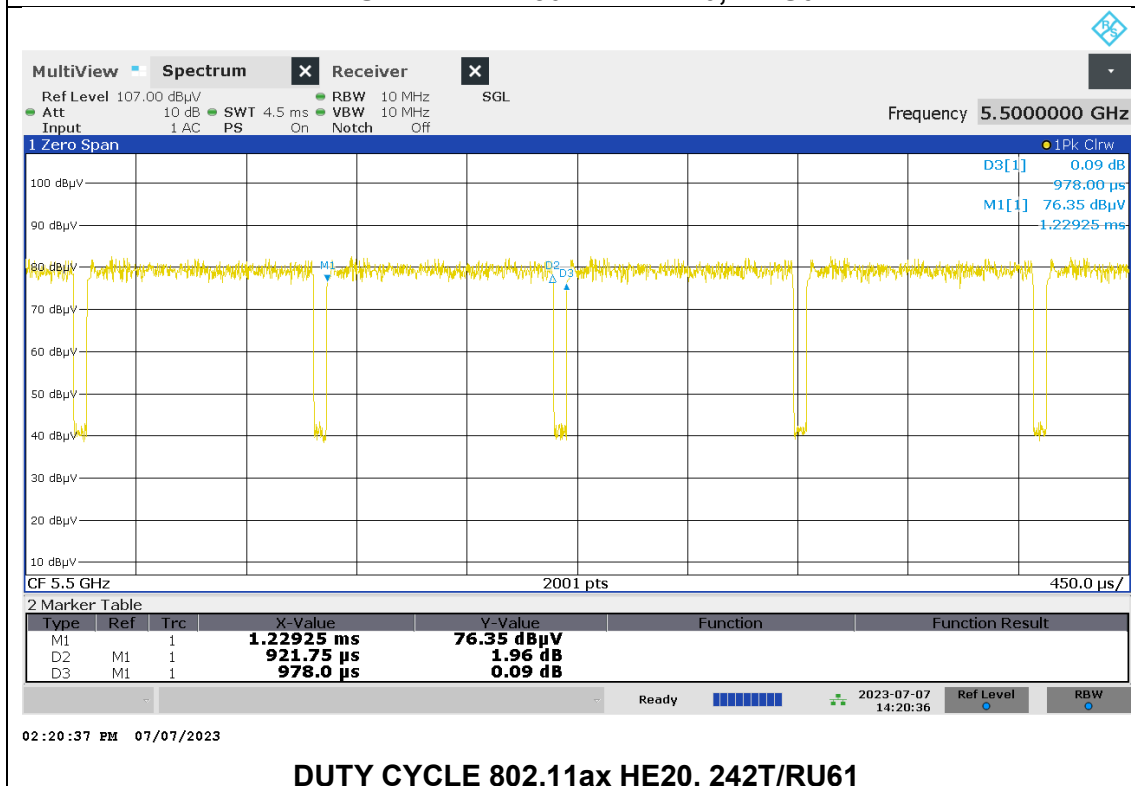
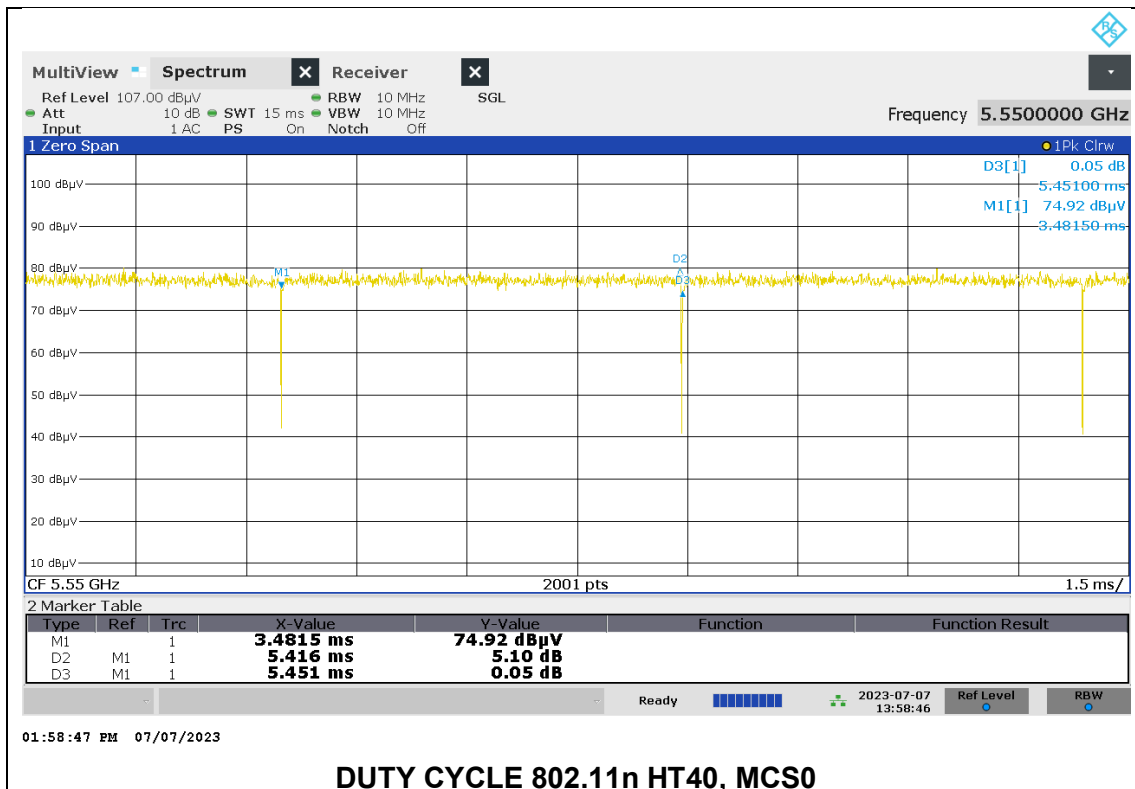
DUTY CYCLE PLOTS



DUTY CYCLE 802.11b, 1Mbps

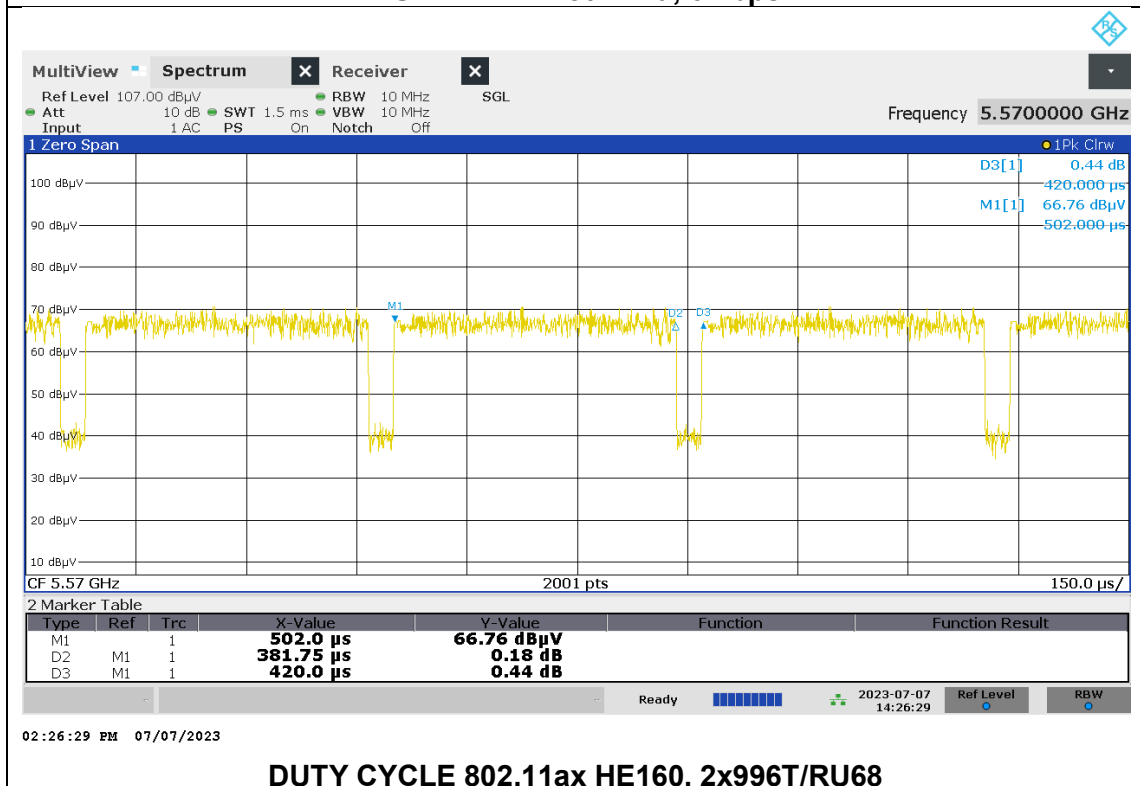


DUTY CYCLE 802.11n HT20

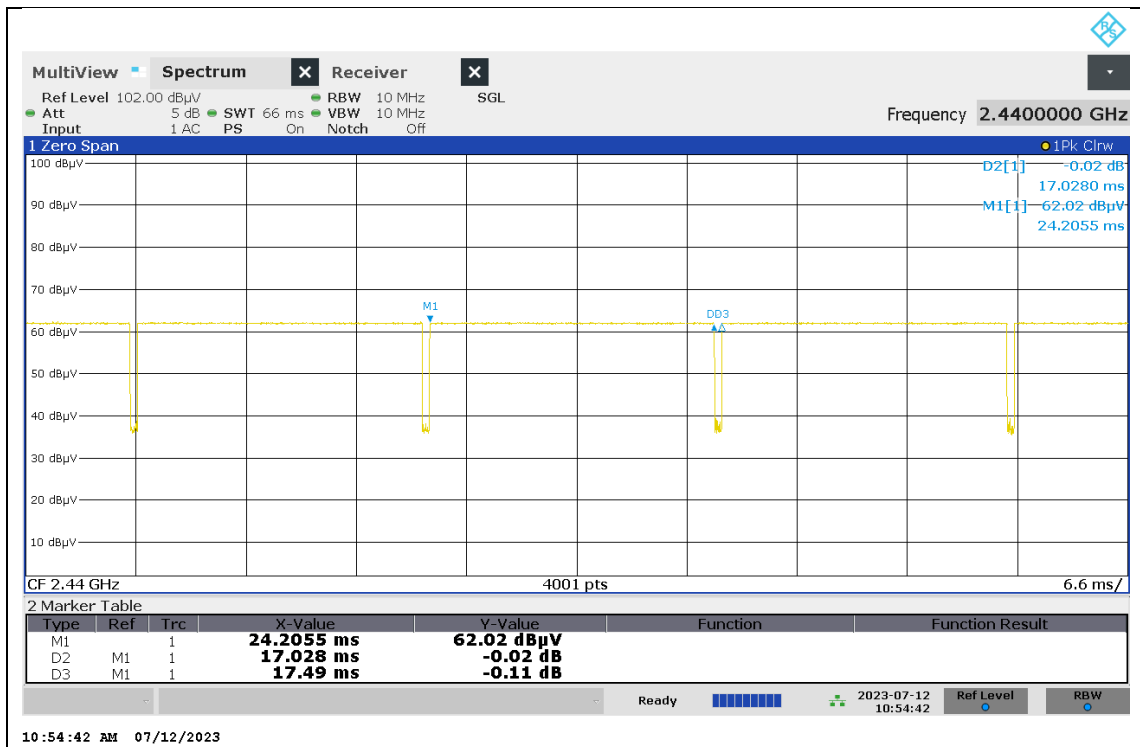




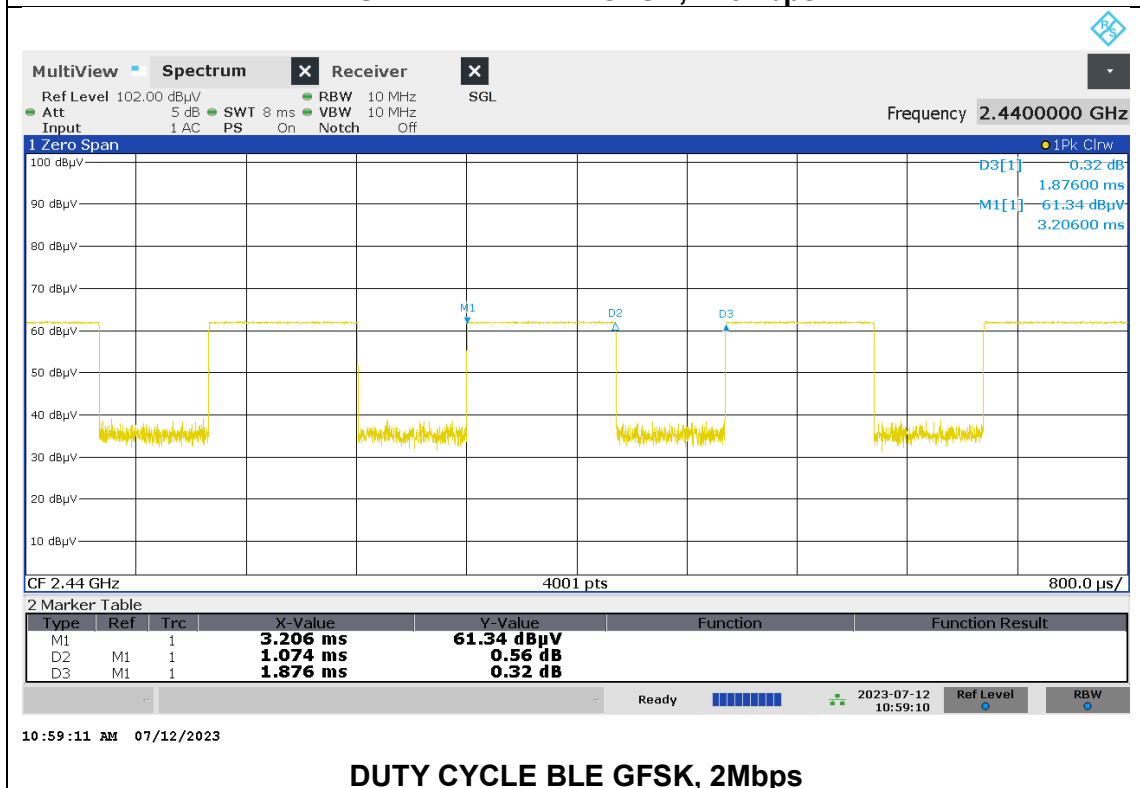
**DUTY CYCLE 802.11a, 6Mbps**



**DUTY CYCLE 802.11ax HE160, 2x996T/RU68**

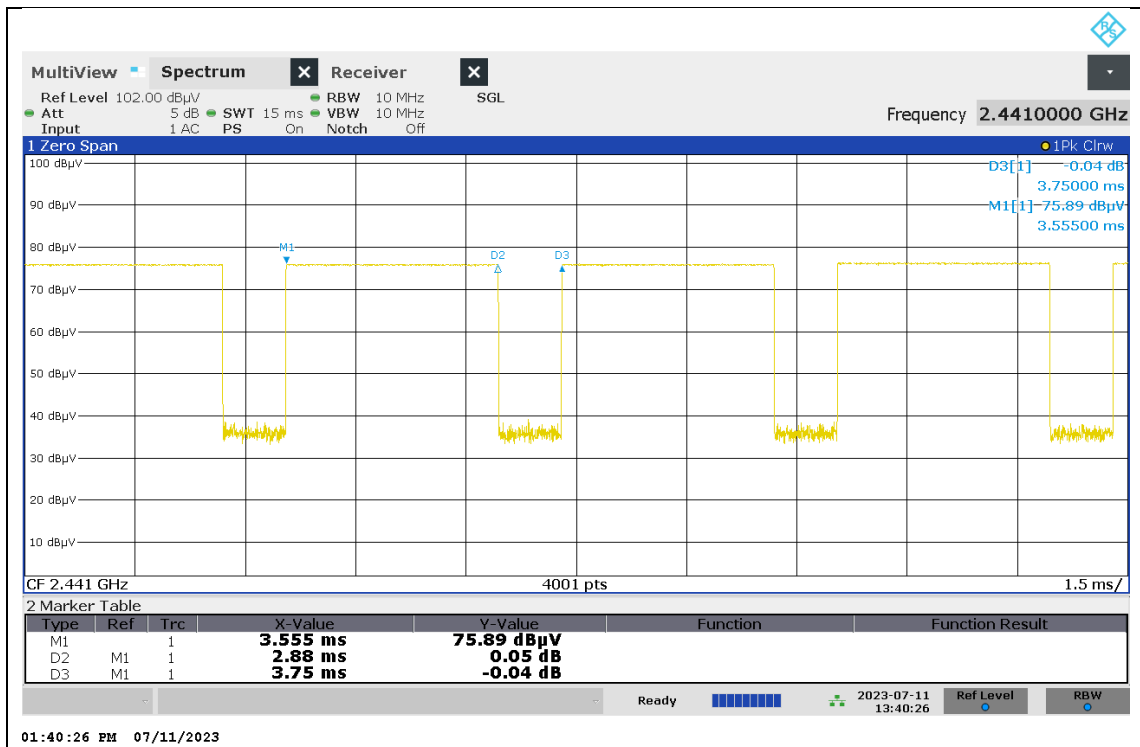


**DUTY CYCLE BLE GFSK, 125Kbps**

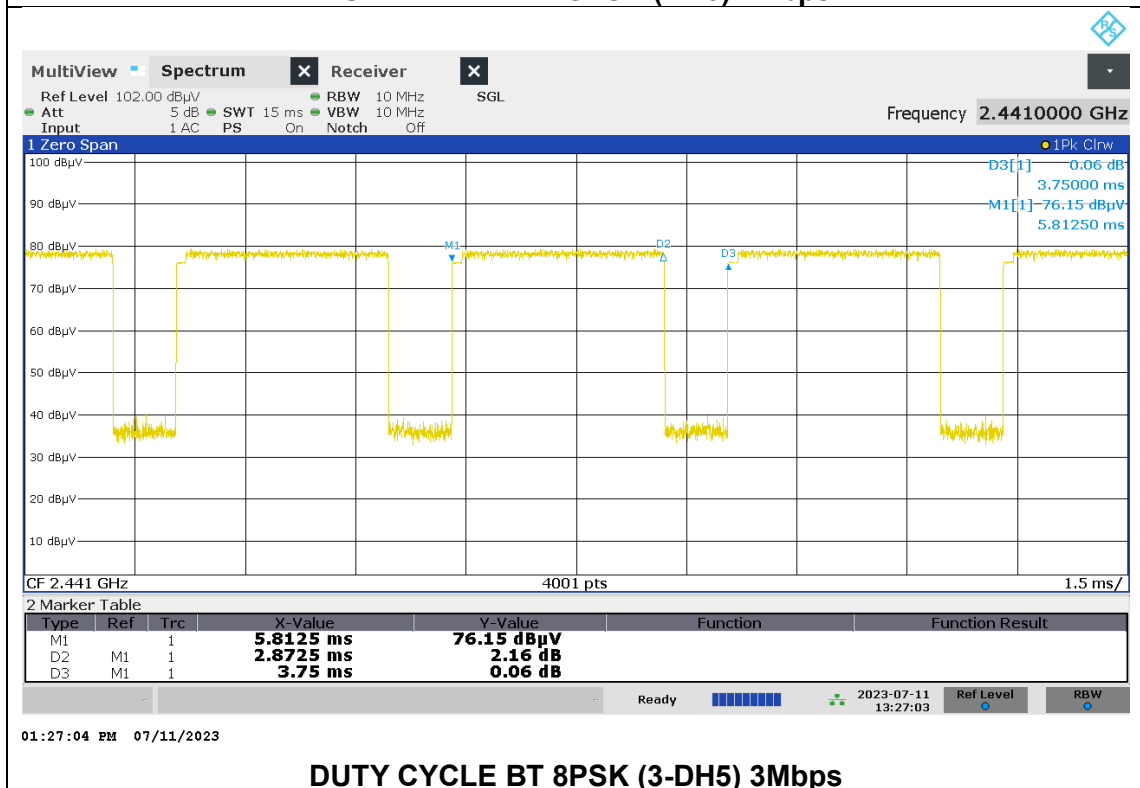


**DUTY CYCLE BLE GFSK, 2Mbps**





**DUTY CYCLE BT GFSK (DH5) 1Mbps**



**DUTY CYCLE BT 8PSK (3-DH5) 3Mbps**

## 10. SPOT CHECK DATA

### 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 1.5 m above the ground plane for measurement above 1GHz and at 80 cm above the ground plane for measurements below 1 GHz. 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 measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with a minimum of 1/T video bandwidth with peak detector for BT average measurements, linear voltage averaging for BLE measurements, and linear voltage average detection for WLAN measurements.

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

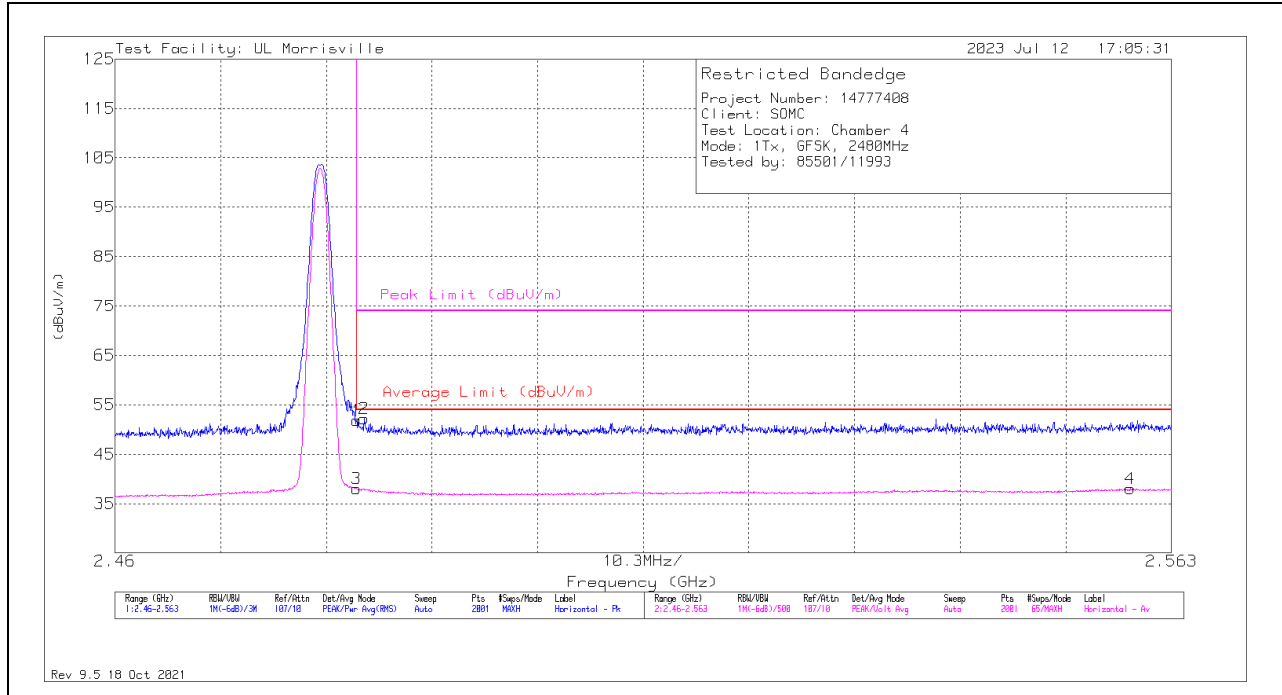
The spectrum from 9kHz to 30 MHz for WPT/NFC, 30 MHz to 1000 MHz for NFC and 1 GHz to 18 GHz for WLAN/BT/BLE is investigated with the transmitter set to worst case modes.

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.

# 10.1. BLUETOOTH

## BANDEDGE (HIGH CHANNEL - CHAIN 0, GFSK)

### 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	32.39	Pk	32.3	-12.9	51.79	-	-	74	-22.21	4	114	H
3	* ** 2.48354	18.68	V1TV	32.3	-12.9	38.08	54	-15.92	-	-	4	114	H
2	* ** 2.48426	32.83	Pk	32.3	-12.9	52.23	-	-	74	-21.77	4	114	H
4	** 2.55898	18.26	V1TV	32.5	-12.7	38.06	54	-15.94	-	-	4	114	H

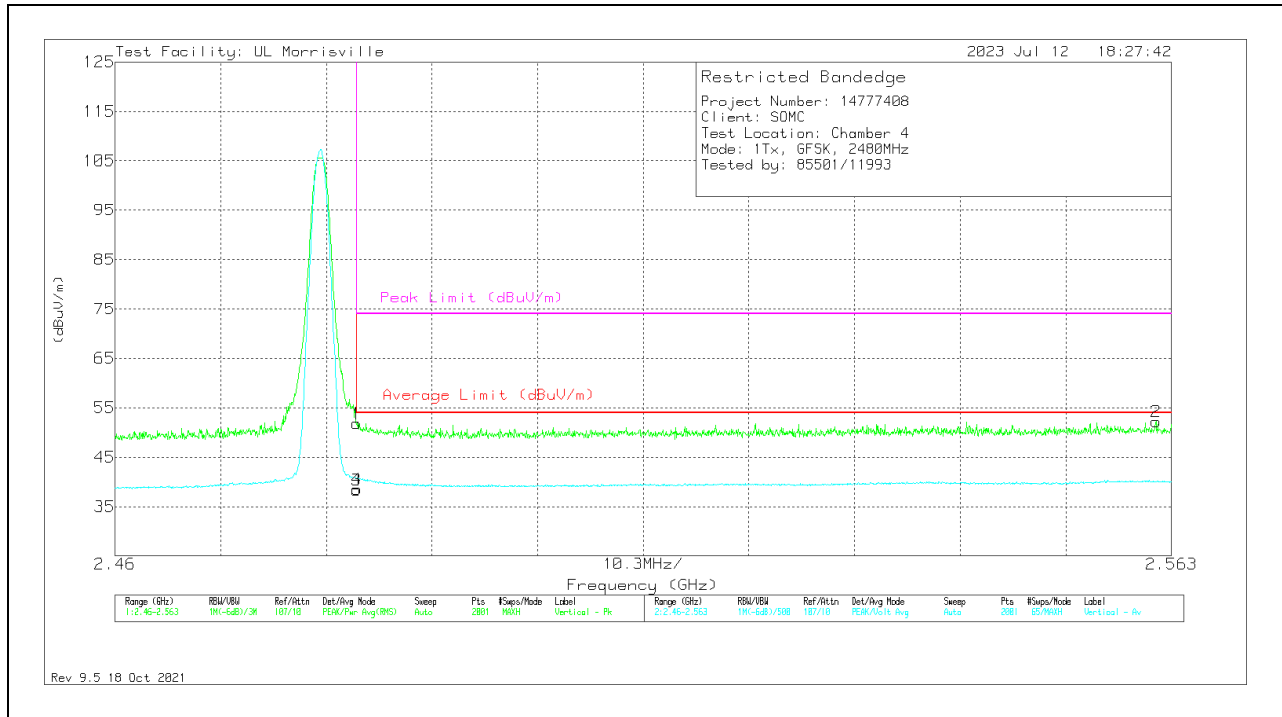
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### VERTICAL RESULT

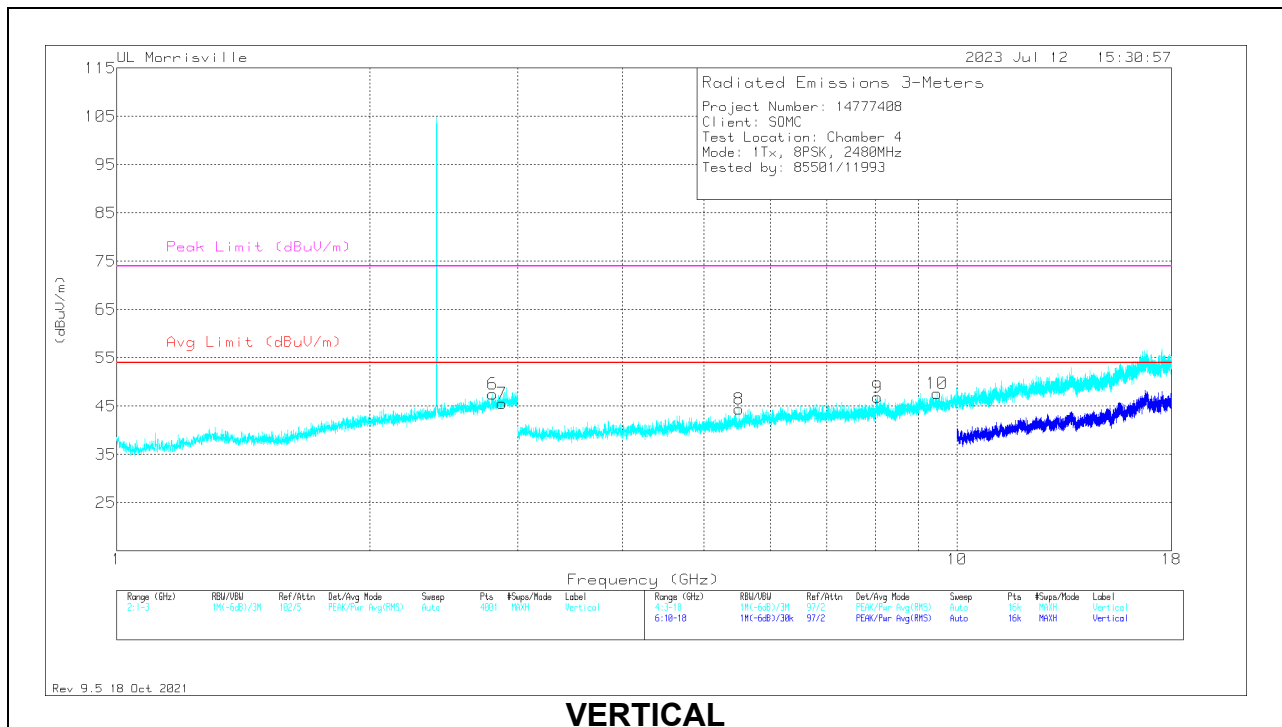
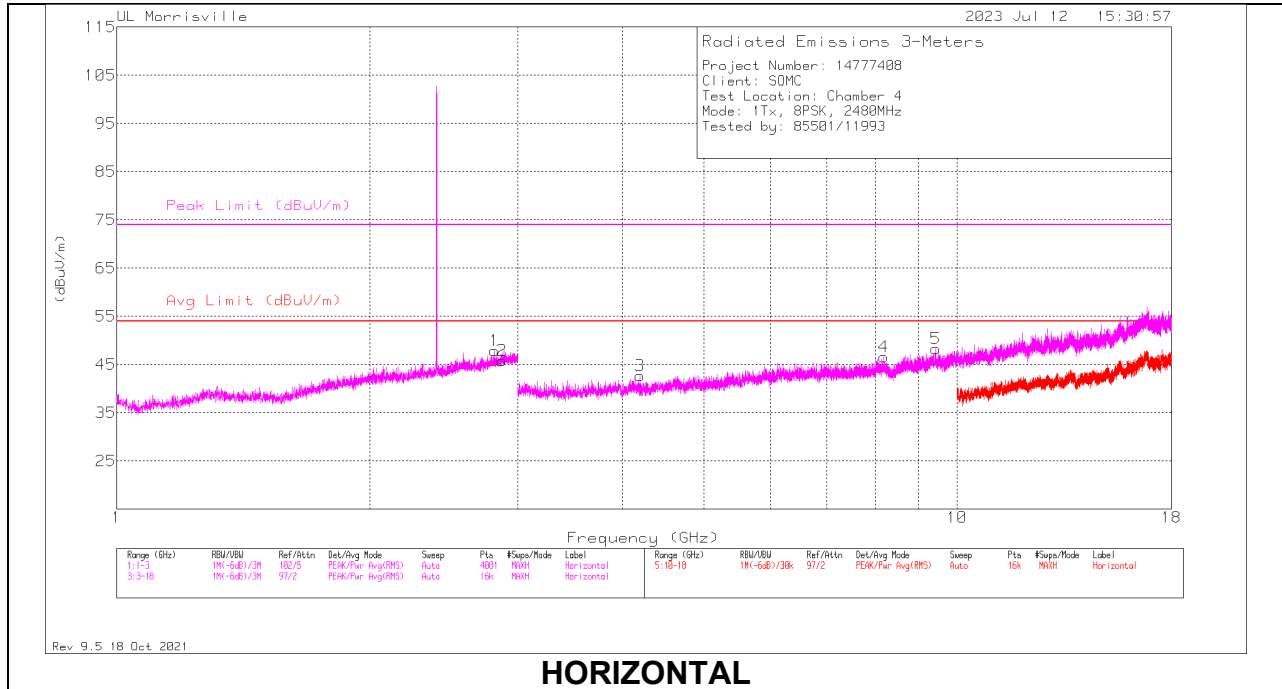


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	32.39	Pk	32.3	-12.9	51.79	-	-	74	-22.21	338	145	V
3	* ** 2.48354	19.01	V1TV	32.3	-12.9	38.41	54	-15.59	-	-	338	145	V
4	* ** 2.48359	19.12	V1TV	32.3	-12.9	38.52	54	-15.48	-	-	338	145	V
2	** 2.56151	32.54	Pk	32.5	-12.8	52.24	-	-	74	-21.76	338	145	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL – CHAIN 0, 8PSK



**RADIATED EMISSIONS**

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	*** 2.8165	27.74	Pk	32.4	-12.2	47.94	54	-6.06	74	-26.06	0-360	100	H
2	*** 2.87629	28.42	PK2	32.4	-12	48.82	54	-5.18	74	-25.18	204	299	H
	*** 2.8759	13.74	V1TV	32.4	-12.1	34.04	54	-19.96	-	-	204	299	H
6	*** 2.803	27.21	Pk	32.6	-12.3	47.51	54	-6.49	74	-26.49	0-360	200	V
7	*** 2.87584	28.56	PK2	32.4	-12.1	48.86	54	-5.14	74	-25.14	7	328	V
	*** 2.87348	13.96	V1TV	32.4	-12.2	34.16	54	-19.84	-	-	7	328	V
3	*** 4.19625	41.11	Pk	33.4	-31.8	42.71	54	-11.29	74	-31.29	0-360	100	H
4	*** 8.18719	37.83	Pk	35.8	-27	46.63	54	-7.37	74	-27.37	0-360	100	H
5	*** 9.43448	37.3	PK2	36.7	-25.7	48.3	54	-5.7	74	-25.7	275	230	H
	*** 9.43753	23.2	V1TV	36.7	-25.6	34.3	54	-19.7	-	-	275	230	H
9	*** 8.04656	38.66	Pk	35.8	-27.6	46.86	54	-7.14	74	-27.14	0-360	200	V
10	*** 9.46594	36.47	Pk	36.7	-25.5	47.67	54	-6.33	74	-26.33	0-360	200	V
8	5.50313	40.69	Pk	34.6	-30.9	44.39	54	-9.61	74	-29.61	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

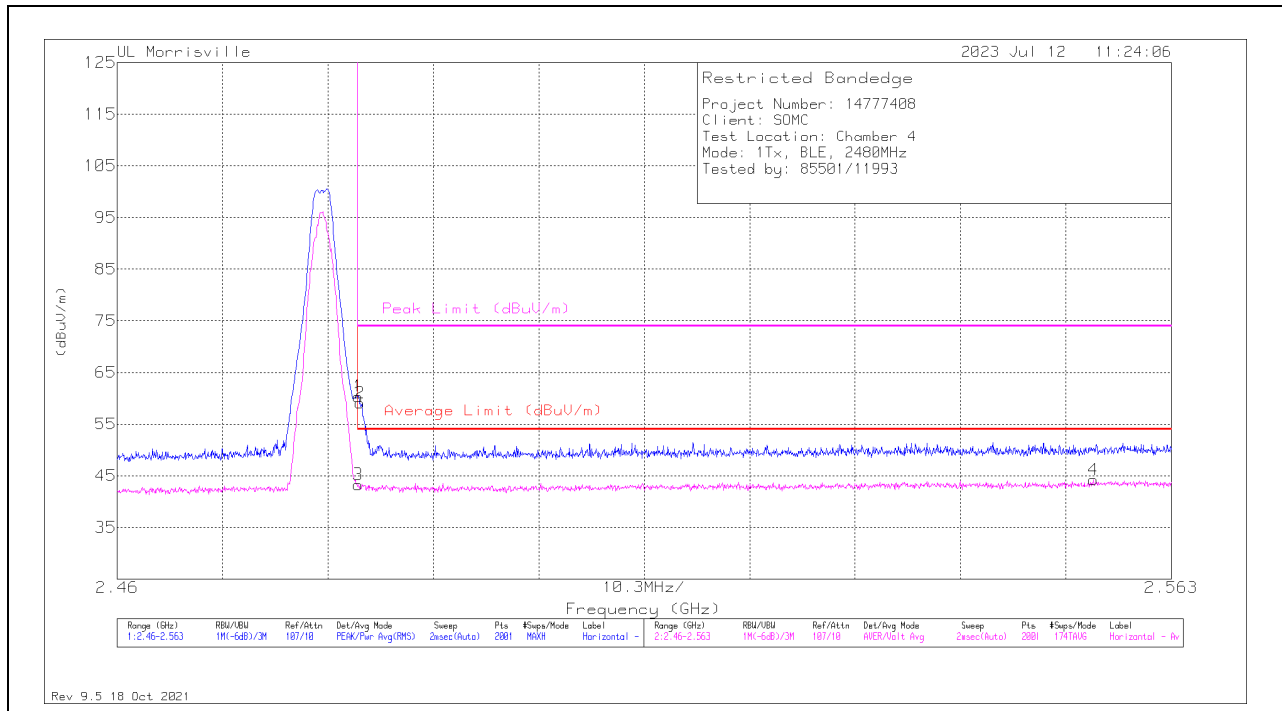
PK2 - Maximum Peak

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration. VBW is set to 0.348kHz.

## 10.2. BLE

### BANDEDGE (HIGH CHANNEL – CHAIN 0, 2Mbps)

#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (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	40.96	Pk	32.3	-12.9	0	60.36	-	-	74	-13.64	338	117	H
2	** 2.48374	39.68	Pk	32.3	-12.9	0	59.08	-	-	74	-14.92	338	117	H
3	*** 2.48354	19.02	ADV	32.3	-12.9	4.84	43.26	54	-10.74	-	-	338	117	H
4	** 2.55538	19.67	ADV	32.5	-12.8	4.84	44.21	54	-9.79	-	-	338	117	H

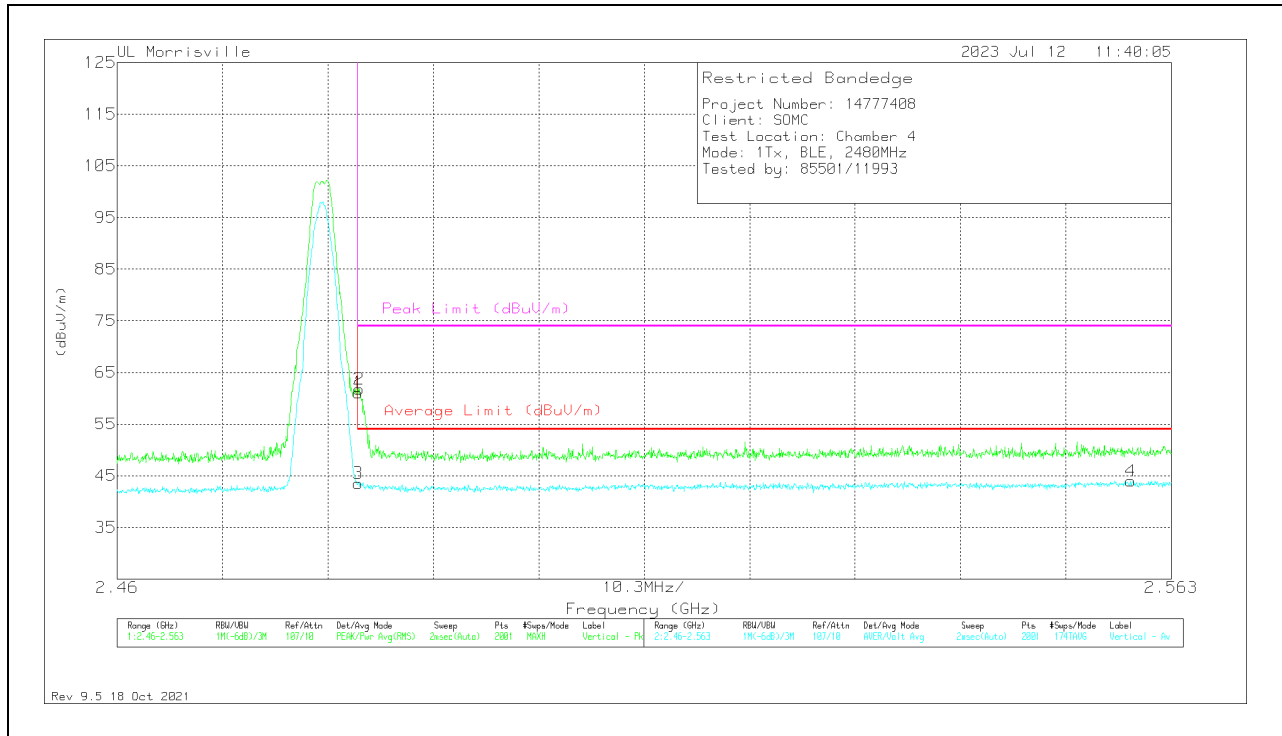
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

Pk - Peak detector

ADV -Linear Voltage Average

### VERTICAL RESULT



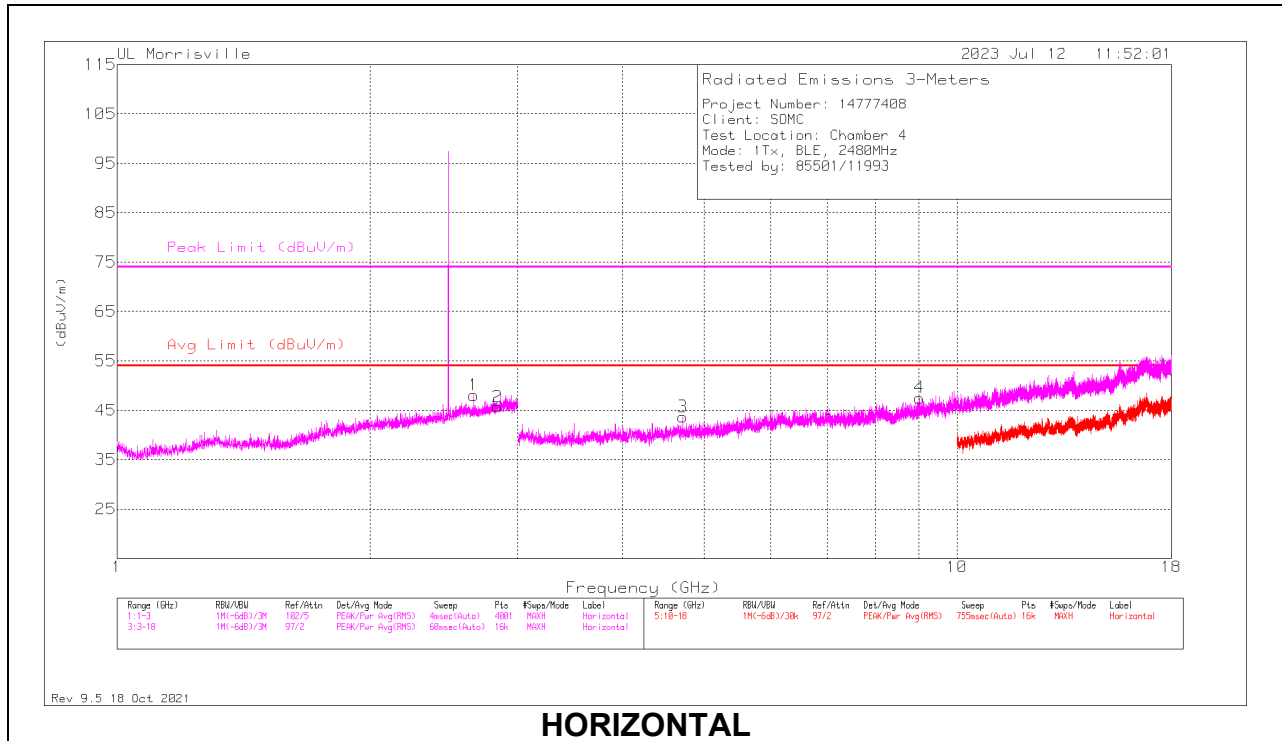
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	41.69	Pk	32.3	-12.9	0	61.09	-	-	74	-12.91	327	141	V
2	*** 2.48364	42.37	Pk	32.3	-12.9	0	61.77	-	-	74	-12.23	327	141	V
3	*** 2.48354	19.3	ADV	32.3	-12.9	4.84	43.54	54	-10.46	-	-	327	141	V
4	** 2.55903	19.34	ADV	32.5	-12.7	4.84	43.98	54	-10.02	-	-	327	141	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

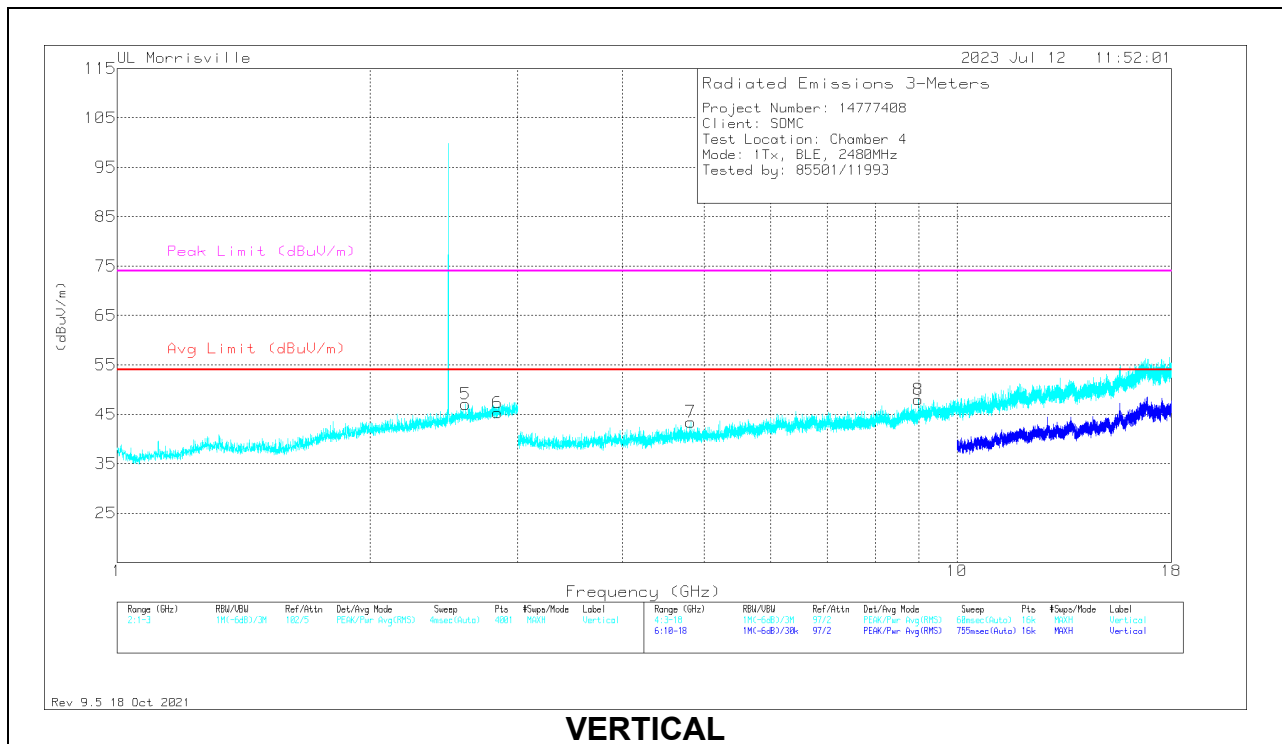


# HARMONICS AND SPURIOUS EMISSIONS

## HIGH CHANNEL – CHAIN 0, 125Kbps



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (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	*** 2.65825	28.07	PK2	32.4	-12.9	0	47.57	-	-	74	-26.43	2	281	H
	** 2.66146	14.99	ADV	32.4	-12.8	.23	34.82	54	-19.18	-	-	2	281	H
2	*** 2.83722	27.97	PK2	32.3	-12.4	0	47.87	-	-	74	-26.13	220	332	H
	** 2.83583	15.43	ADV	32.3	-12.3	.23	35.66	54	-18.34	-	-	220	332	H
5	** 2.6	27.16	Pk	32.6	-12.7	0	47.06	54	-6.94	74	-26.94	0-360	200	V
6	*** 2.83884	28.14	PK2	32.3	-12.4	0	48.04	-	-	74	-25.96	120	381	V
	** 2.83646	15.37	ADV	32.3	-12.3	.23	35.60	54	-18.40	-	-	120	381	V
3	*** 4.71469	41.06	Pk	34.1	-31.5	0	43.66	54	-10.34	74	-30.34	0-360	100	H
4	*** 9.02531	36.13	Pk	36.2	-24.8	0	47.53	54	-6.47	74	-26.47	0-360	100	H
7	*** 4.81875	40.94	Pk	34.1	-31.6	0	43.44	54	-10.56	74	-30.56	0-360	200	V
8	8.99813	36.57	Pk	36.2	-24.8	0	47.97	54	-6.03	74	-26.03	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

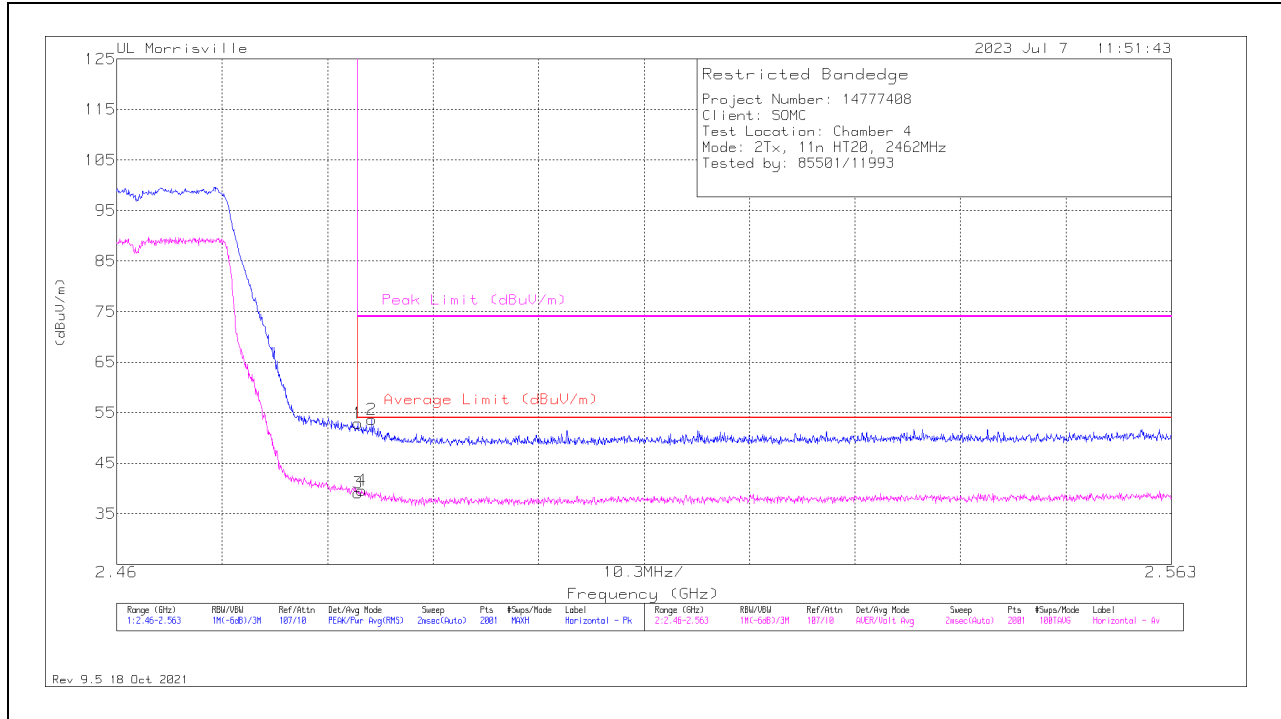
PK2 - Maximum Peak

ADV - Linear Voltage Average

### 10.3. 2.4GHz WLAN

#### BANDEDGE (HIGH CHANNEL – 2TX, 802.11n HT20)

#### 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	33.46	Pk	32.3	-12.9	52.86	-	-	74	-21.14	356	375	H
2	* ** 2.48493	34.27	Pk	32.3	-12.9	53.67	-	-	74	-20.33	356	375	H
3	* ** 2.48354	19.76	ADV	32.3	-12.9	39.16	54	-14.84	-	-	356	375	H
4	* ** 2.4839	20.16	ADV	32.3	-12.9	39.56	54	-14.44	-	-	356	375	H

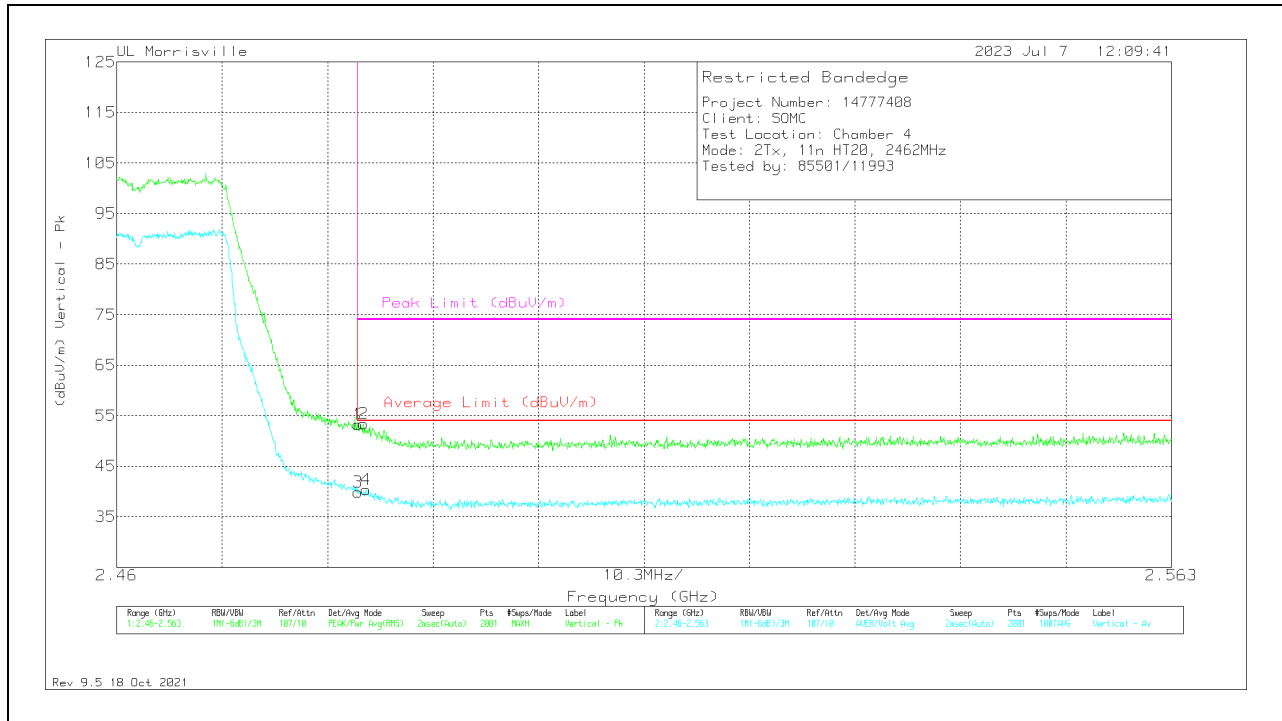
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - 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	33.9	Pk	32.3	-12.9	53.3	-	-	74	-20.7	340	105	V
2	* ** 2.4841	33.97	Pk	32.3	-12.9	53.37	-	-	74	-20.63	340	105	V
3	* ** 2.48354	20.41	ADV	32.3	-12.9	39.81	54	-14.19	-	-	340	105	V
4	* ** 2.48436	20.99	ADV	32.3	-12.9	40.39	54	-13.61	-	-	340	105	V

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

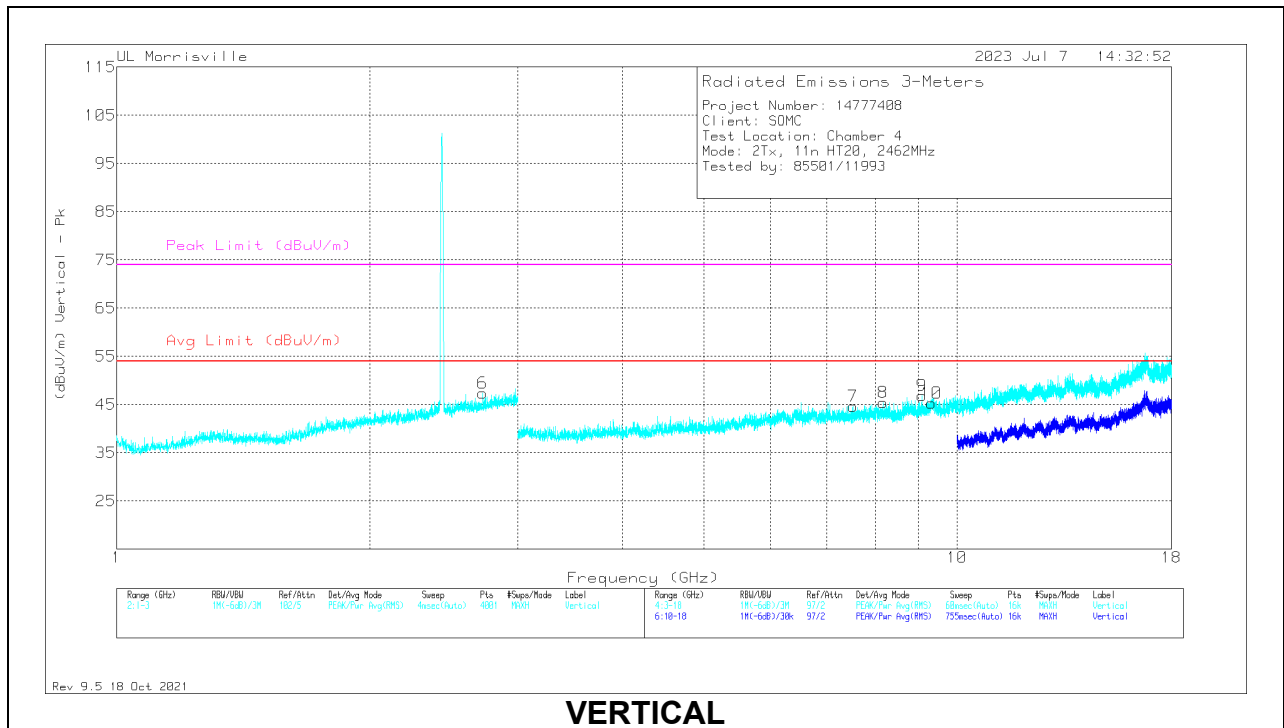
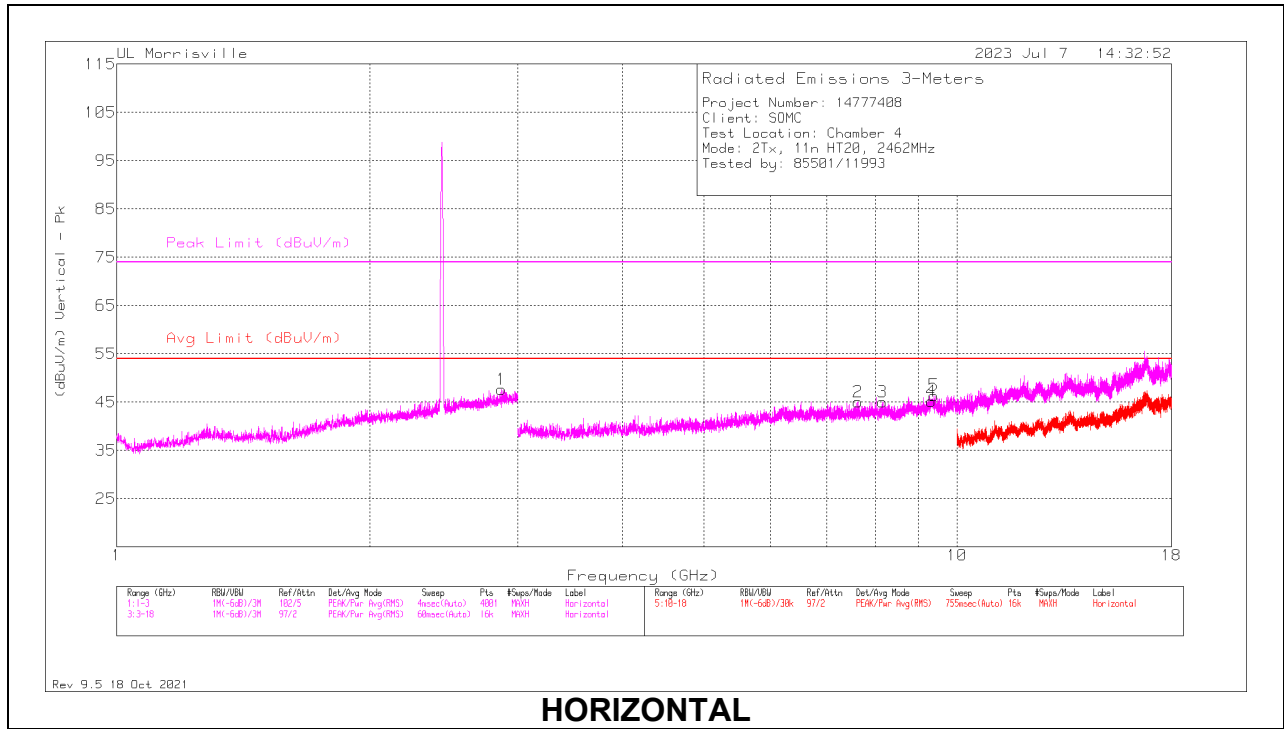
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

# HARMONICS AND SPURIOUS EMISSIONS

## MID CHANNEL 2TX, 802.11b, 1Mbps



**RADIATED EMISSIONS**

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	*** 2.872	27.45	Pk	32.4	-12.2	47.65	54	-6.35	74	-26.35	0-360	100	H
6	*** 2.7255	27.62	Pk	32.4	-12.6	47.42	54	-6.58	74	-26.58	0-360	200	V
2	*** 7.62	36.91	Pk	35.7	-27.5	45.11	54	-8.89	74	-28.89	0-360	100	H
3	*** 8.15719	36.11	Pk	35.8	-26.9	45.01	54	-8.99	74	-28.99	0-360	100	H
4	*** 9.31805	36.18	PK2	36.4	-25.1	47.48	54	-6.52	74	-26.52	77	188	H
5	*** 9.3825	34.71	Pk	36.6	-24.9	46.41	54	-7.59	74	-27.59	0-360	100	H
7	*** 7.51594	36.76	Pk	35.6	-27.7	44.66	54	-9.34	74	-29.34	0-360	200	V
8	*** 8.16469	36.78	Pk	35.8	-27.1	45.48	54	-8.52	74	-28.52	0-360	200	V
9	*** 9.09	35.55	Pk	36.3	-25	46.85	54	-7.15	74	-27.15	0-360	200	V
10	*** 9.31887	35.93	PK2	36.4	-25.1	47.23	54	-6.77	74	-26.77	118	149	V

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

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

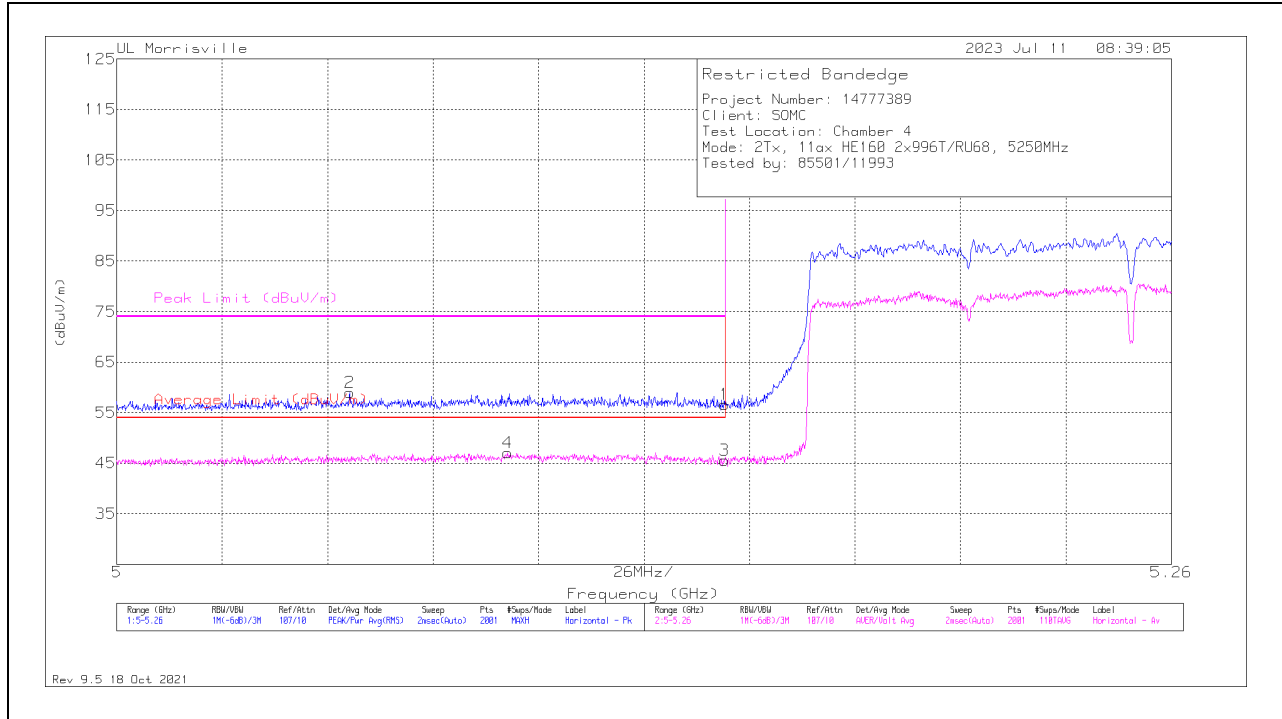
Pk - Peak detector

PK2 - Maximum Peak

### 10.4. 5GHz WLAN

#### BANDEDGE (5.2 BAND LOW CHANNEL – 2TX, 802.11ax HE160, 2x996T/RU68)

#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (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	*** 5.14989	31.96	Pk	34.2	-9.5	0	56.66	-	-	74	-17.34	80	204	H
2	*** 5.05746	34.38	Pk	34.1	-9.5	0	58.98	-	-	74	-15.02	80	204	H
3	*** 5.14989	20.08	ADV	34.2	-9.5	.83	45.61	54	-8.39	-	-	80	204	H
4	*** 5.09633	21.59	ADV	34.1	-9.4	.83	47.12	54	-6.88	-	-	80	204	H

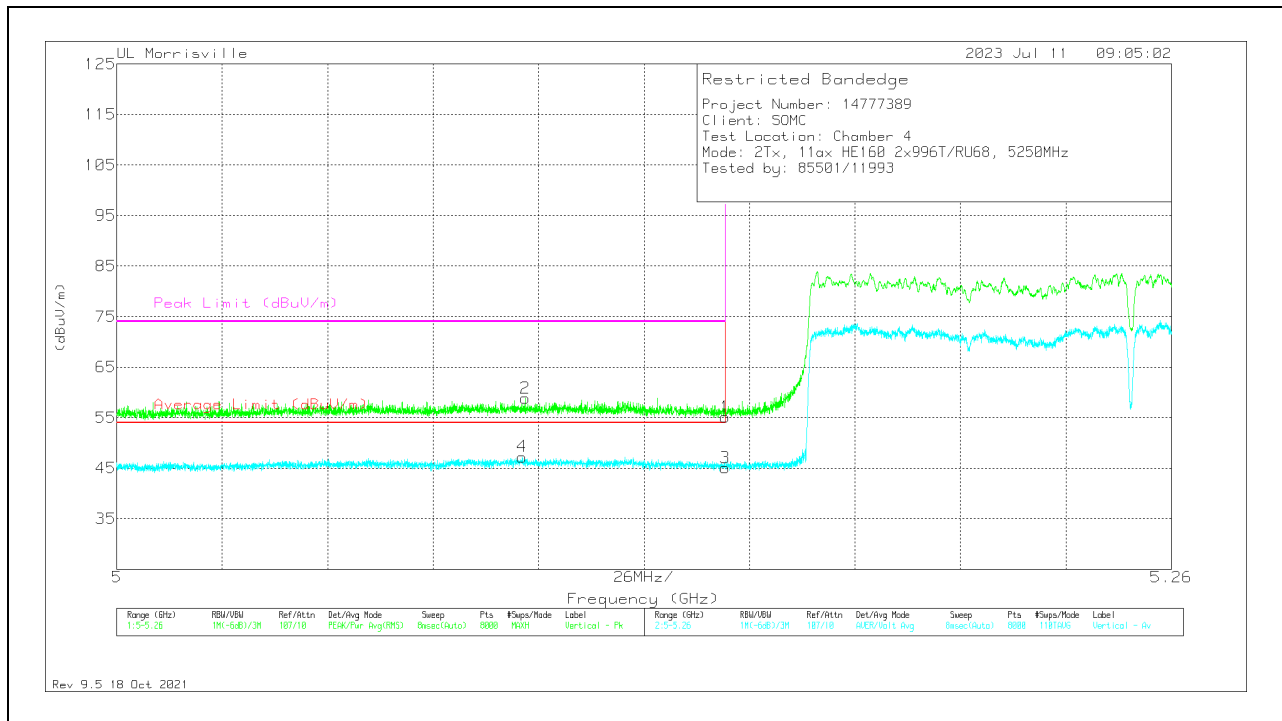
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - 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)	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	*** 5.14997	30.48	Pk	34.2	-9.5	0	55.18	-	-	74	-18.82	347	313	V
2	*** 5.10073	34.2	Pk	34.1	-9.4	0	58.9	-	-	74	-15.1	347	313	V
3	*** 5.14997	19.55	ADV	34.2	-9.5	.83	45.08	54	-8.92	-	-	347	313	V
4	*** 5.09995	21.73	ADV	34.1	-9.4	.83	47.26	54	-6.74	-	-	347	313	V

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

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

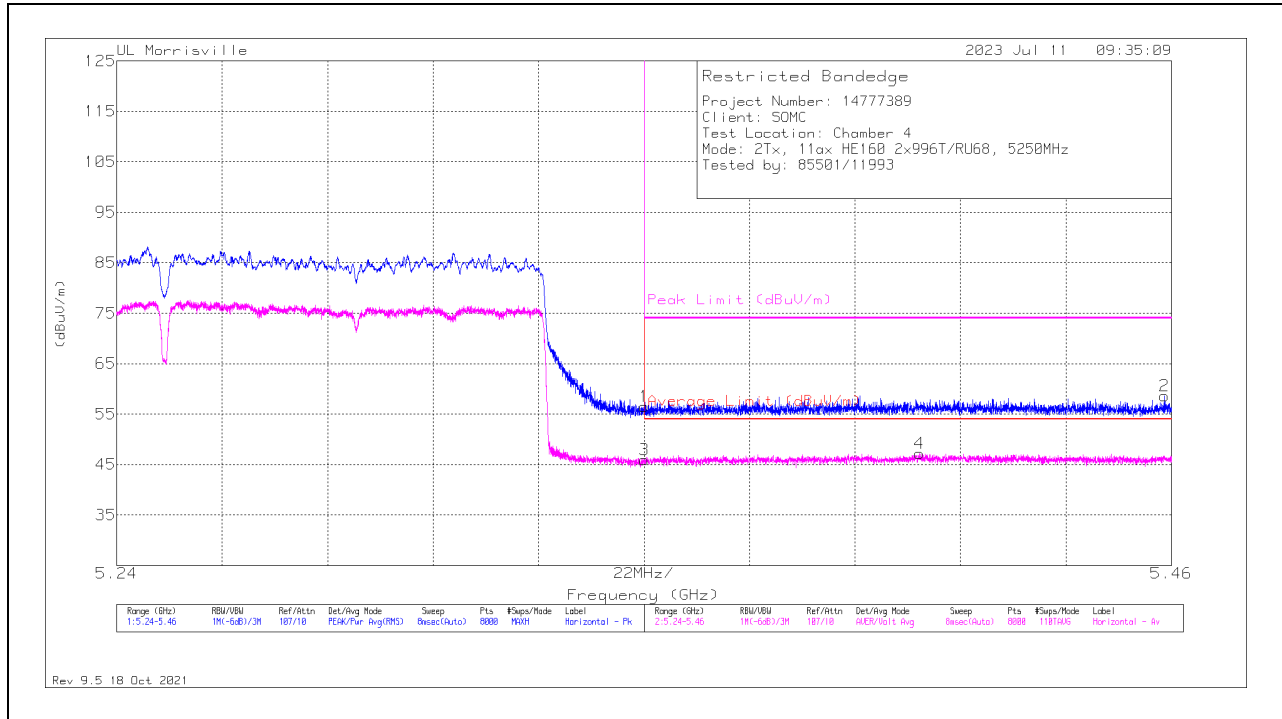
Pk - Peak detector

ADV - Linear Voltage Average



**BANDEDGE (5.3 BAND HIGH CHANNEL – 2TX, 802.11ax HE160, 2x996T/RU68)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (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	* ** 5.35001	31.44	Pk	34.4	-9.3	0	56.54	-	-	74	-17.46	144	125	H
2	* ** 5.45859	32.75	Pk	34.6	-8.7	0	58.65	-	-	74	-15.35	144	125	H
3	* ** 5.35001	20.05	ADV	34.4	-9.3	.83	45.98	54	-8.02	-	-	144	125	H
4	* ** 5.40741	20.61	ADV	34.6	-8.8	.83	47.24	54	-6.76	-	-	144	125	H

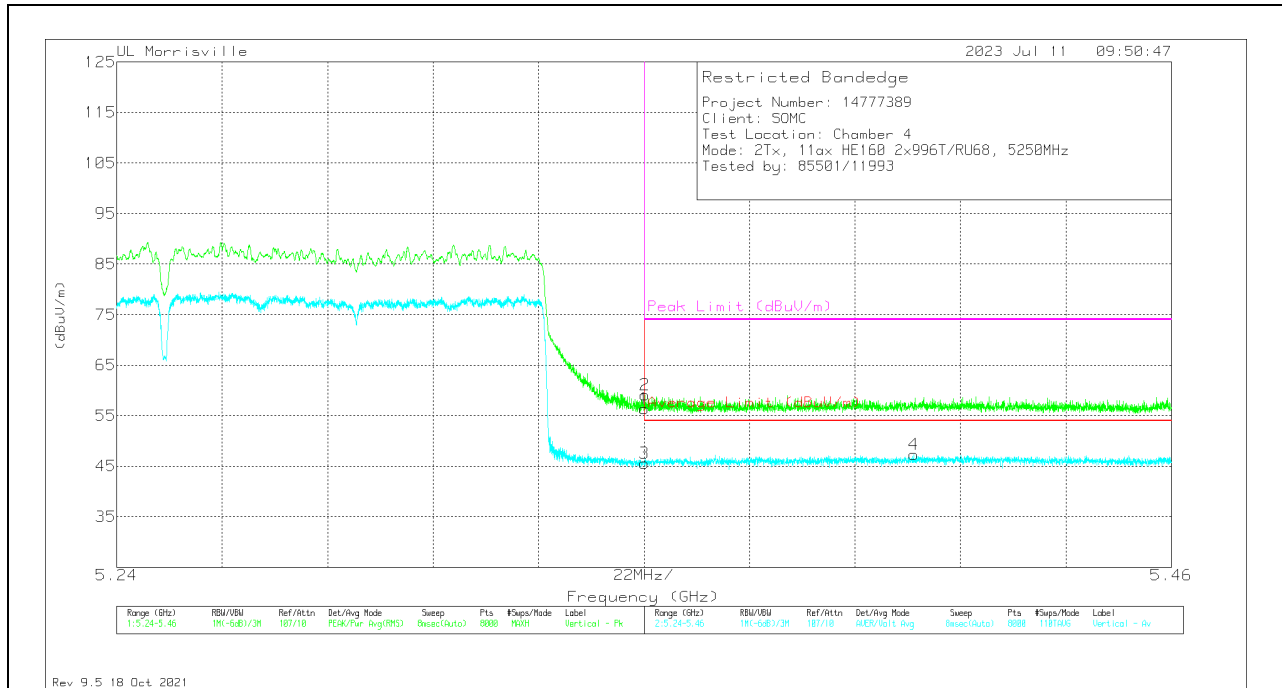
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT

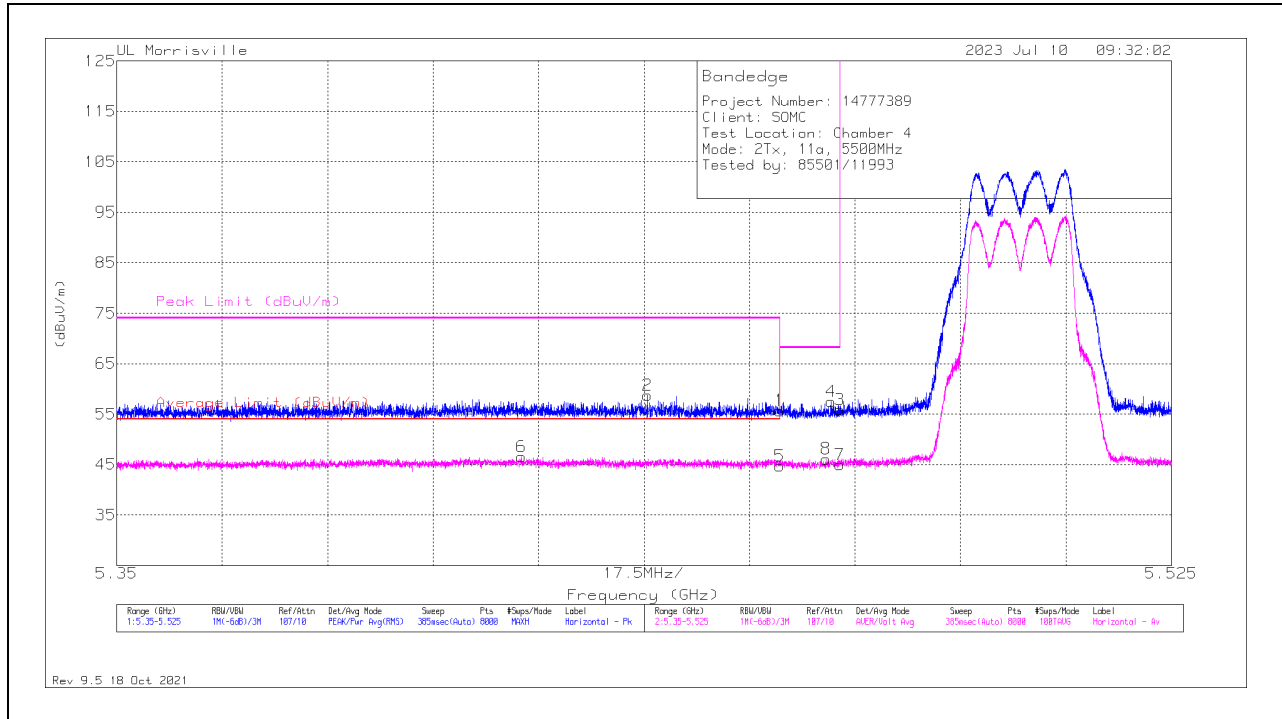


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.35001	31.27	Pk	34.4	-9.3	0	56.37	-	-	74	-17.63	129	316	V
2	* ** 5.3502	34.06	Pk	34.4	-9.3	0	59.16	-	-	74	-14.84	129	316	V
3	* ** 5.35001	19.68	ADV	34.4	-9.3	.83	45.61	54	-8.39	-	-	129	316	V
4	* ** 5.40623	20.74	ADV	34.6	-8.9	.83	47.27	54	-6.73	-	-	129	316	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 (5.6 BAND LOW CHANNEL – 2TX, 802.11a)**

**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	* ** 5.45998	29.99	Pk	34.6	-8.9	55.69	-	-	74	-18.31	81	107	H
2	* ** 5.43806	33.13	Pk	34.6	-9	58.73	-	-	74	-15.27	81	107	H
5	* ** 5.45998	19.01	ADV	34.6	-8.9	44.71	54	-9.29	-	-	81	107	H
6	* ** 5.41714	20.79	ADV	34.6	-8.8	46.59	54	-7.41	-	-	81	107	H
8	5.46773	20.53	ADV	34.6	-9	46.13	-	-	-	-	81	107	H
4	5.46858	31.92	Pk	34.6	-9	57.52	-	-	68.2	-10.68	81	107	H
3	5.46998	30.09	Pk	34.6	-8.8	55.89	-	-	68.2	-12.31	81	107	H
7	5.46998	19.16	ADV	34.6	-8.8	44.96	-	-	-	-	81	107	H

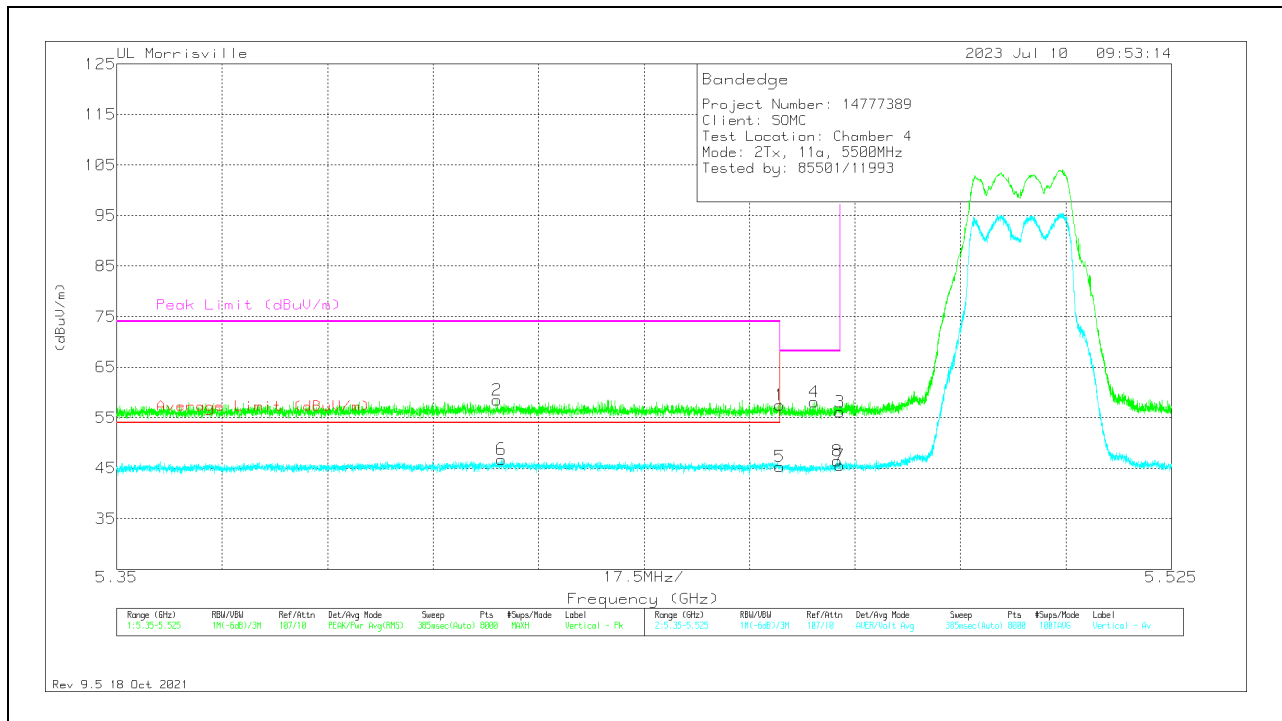
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	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	*** 5.45998	31.82	Pk	34.6	-8.9	57.52	-	-	74	-16.48	309	110	V
2	*** 5.41312	32.79	Pk	34.6	-8.9	58.49	-	-	74	-15.51	309	110	V
5	*** 5.45998	19.59	ADV	34.6	-8.9	45.29	54	-8.71	-	-	309	110	V
6	*** 5.41386	20.95	ADV	34.6	-8.8	46.75	54	-7.25	-	-	309	110	V
4	5.46571	32.69	Pk	34.6	-9.2	58.09	-	-	68.2	-10.11	309	110	V
8	5.46961	20.71	ADV	34.6	-8.9	46.41	-	-	-	-	309	110	V
3	5.46998	30.37	Pk	34.6	-8.8	56.17	-	-	68.2	-12.03	309	110	V
7	5.46998	19.74	ADV	34.6	-8.8	45.54	-	-	-	-	309	110	V

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

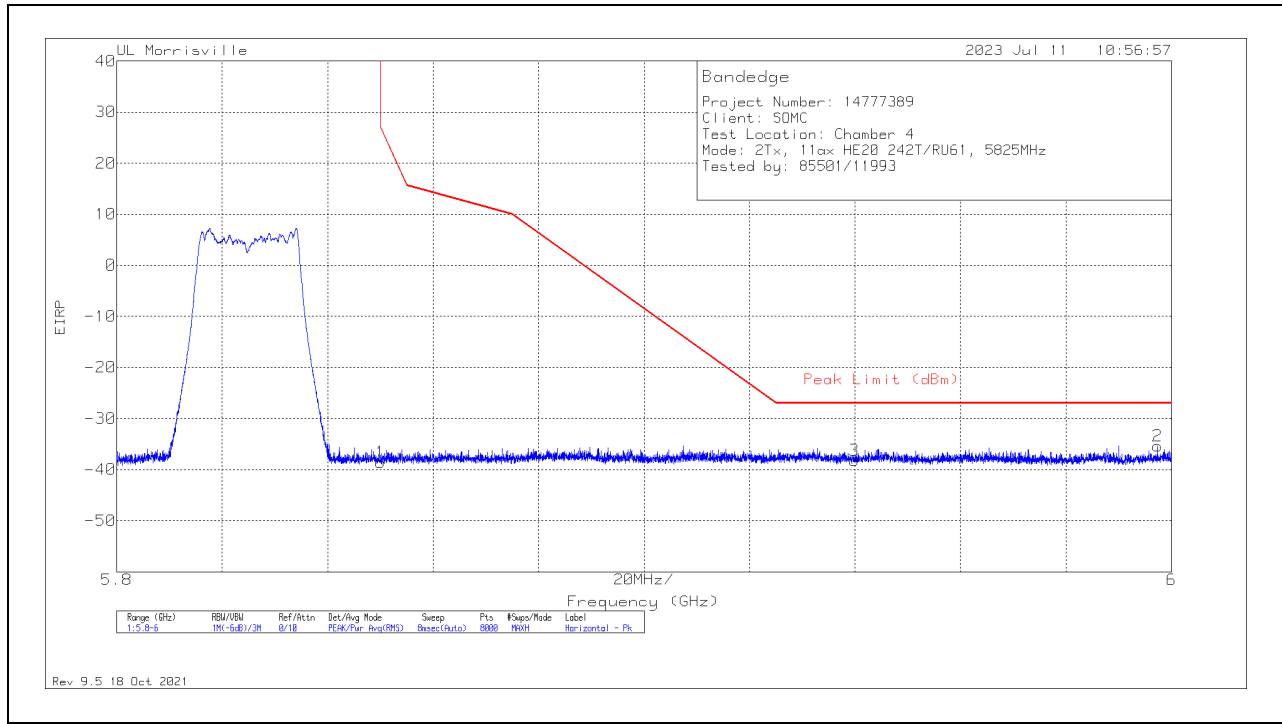
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (5.8 BAND HIGH CHANNEL – 2TX, 802.11ax HE20 242T/RU61)**

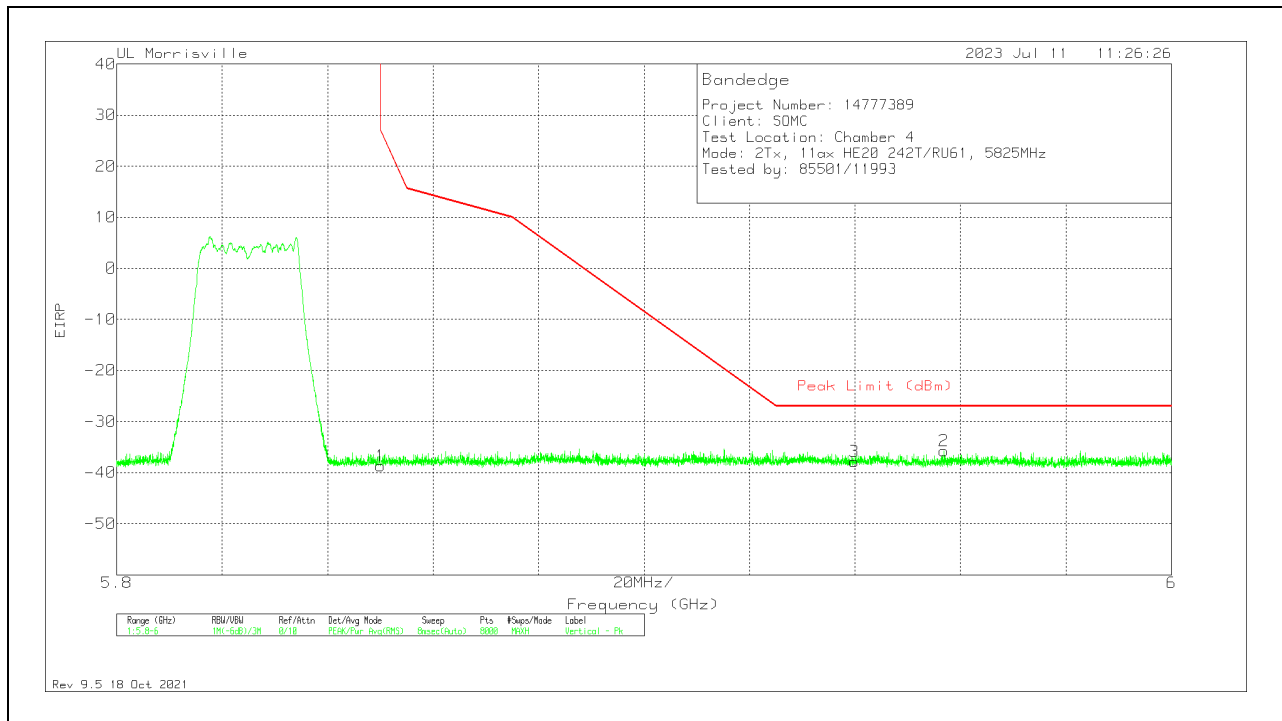
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-76.76	Pk	34.8	-8.4	11.8	0	-38.56	26.99	-65.55	336	202	H
3	5.93992	-76.61	Pk	35	-8.4	11.8	0	-38.21	-27	-11.21	336	202	H
2	5.9974	-73.82	Pk	35	-8.3	11.8	0	-35.32	-27	-8.32	336	202	H

Pk - Peak detector

### VERTICAL RESULT

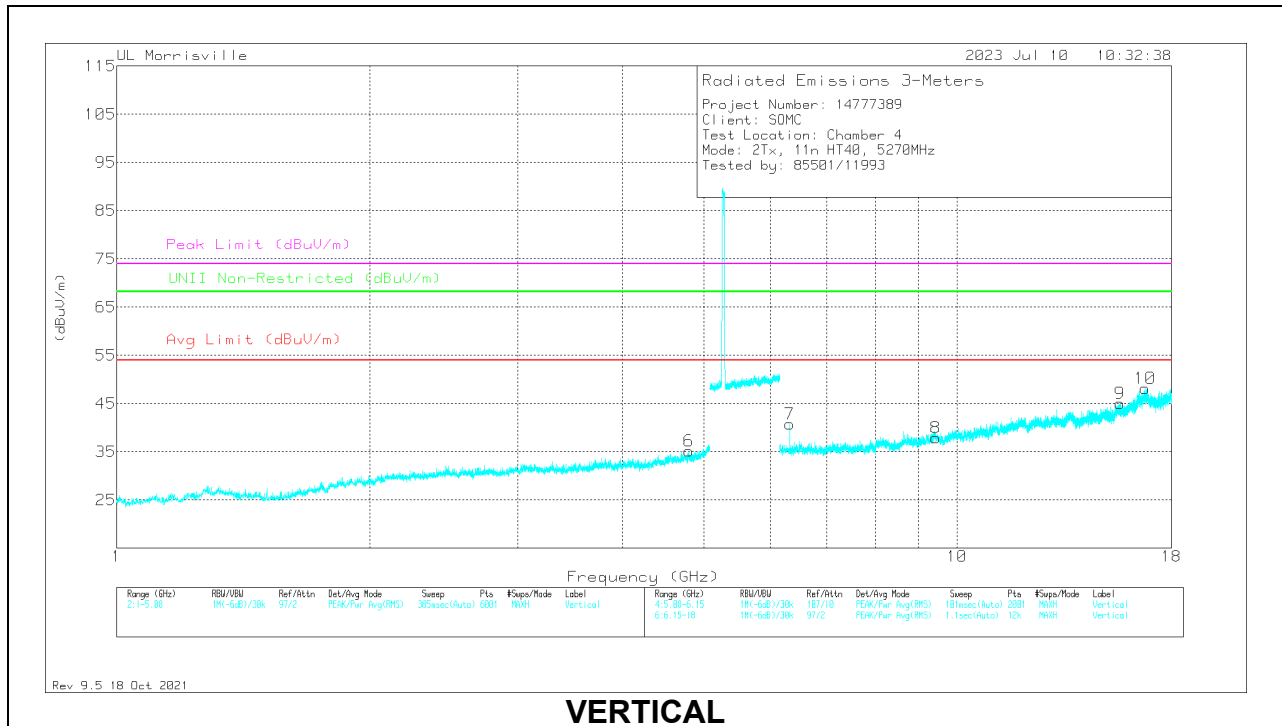
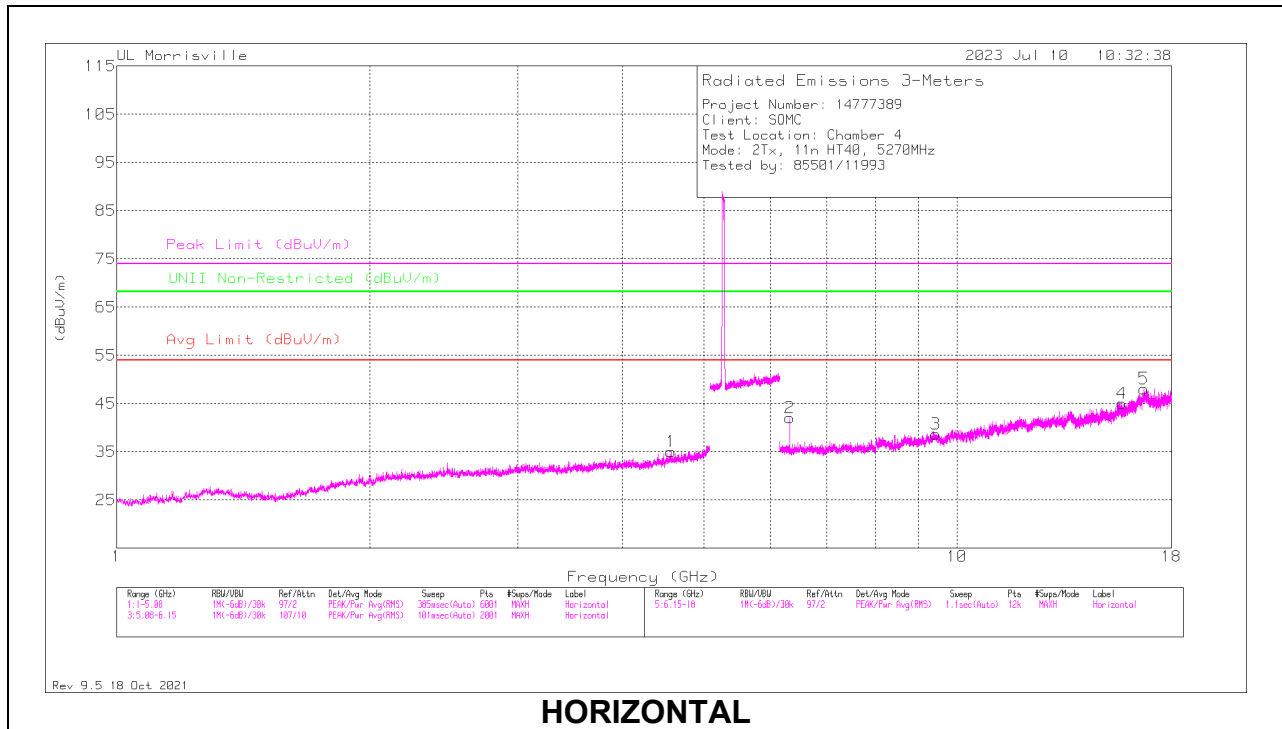


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-76.86	Pk	34.8	-8.4	11.8	0	-38.66	26.99	-65.65	120	337	V
3	5.93989	-76.25	Pk	35	-8.4	11.8	0	-37.85	-27	-10.85	120	337	V
2	5.95684	-74.18	Pk	35	-8.4	11.8	0	-35.78	-27	-8.78	120	337	V

Pk - Peak detector

## HARMONICS AND SPURIOUS EMISSIONS

### 5.3 BAND LOW CHANNEL 2TX, 802.11n HT40



**RADIATED EMISSIONS**

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.56728	32.41	Pk	34	-31.3	35.11	-	-	74	-38.89	-	-	0-360	100	H
6	*** 4.7978	31.71	Pk	34.1	-30.6	35.21	-	-	74	-38.79	-	-	0-360	200	V
3	*** 9.44275	36.81	PK2	36.7	-25.3	48.21	-	-	74	-25.79	-	-	16	223	H
	*** 9.44264	24.27	ADV	36.7	-25.2	35.77	54	-18.23	-	-	-	-	16	223	H
4	*** 15.709	25.49	Pk	40.3	-20.7	45.09	-	-	74	-28.91	-	-	0-360	100	H
8	*** 9.44241	36.4	PK2	36.7	-25.2	47.9	-	-	74	-26.1	-	-	351	192	V
	*** 9.44069	24.31	ADV	36.7	-25.2	35.81	54	-18.19	-	-	-	-	351	192	V
9	*** 15.6221	25.86	Pk	40.2	-21	45.06	-	-	74	-28.94	-	-	0-360	200	V
2	6.3238	35.46	Pk	35.4	-28.8	42.06	-	-	74	-31.94	68.2	-26.14	0-360	100	H
7	6.3238	34.11	Pk	35.4	-28.8	40.71	-	-	74	-33.29	68.2	-27.49	0-360	200	V
5	16.69946	26.4	Pk	41.8	-20.1	48.1	-	-	74	-25.9	68.2	-20.1	0-360	100	H
10	16.75279	25.48	Pk	41.9	-19.2	48.18	-	-	74	-25.82	68.2	-20.02	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

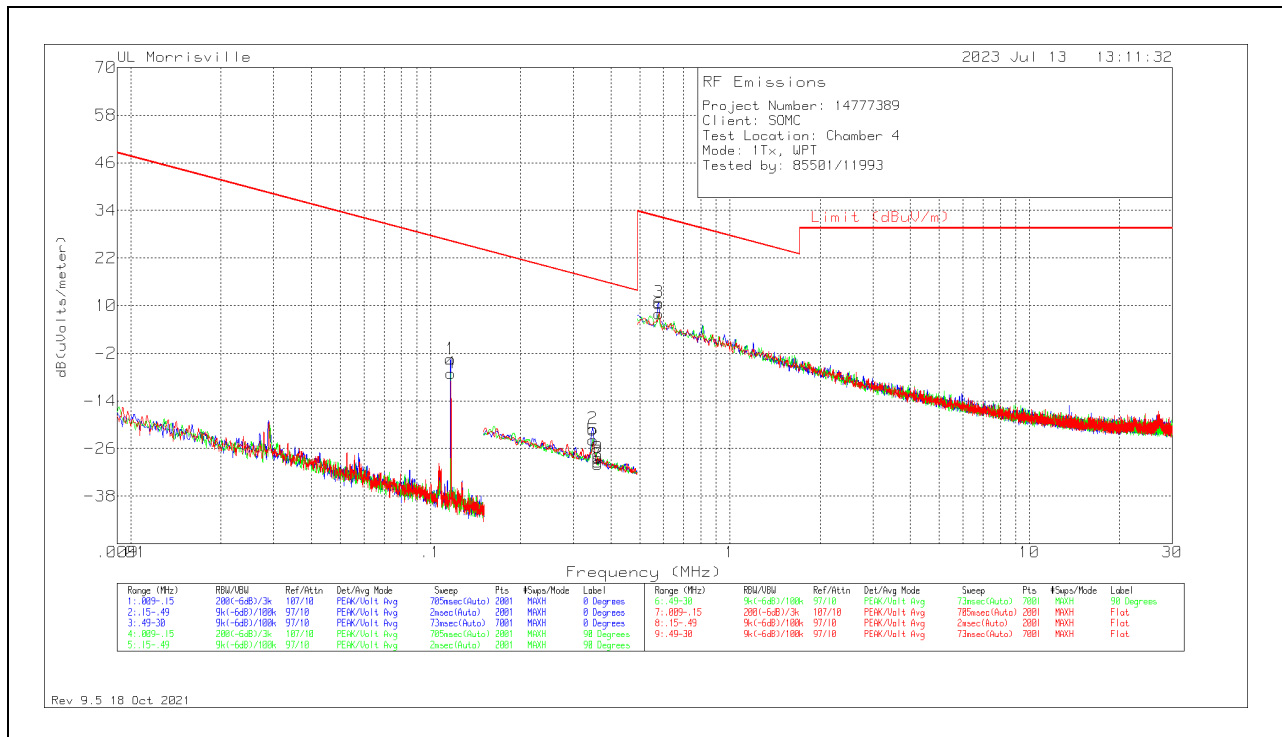


### 10.5. WPT

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).

### HARMONICS AND SPURIOUS EMISSIONS – CONFIG 1

#### 0.009 to 30MHz



**RADIATED EMISSIONS**

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	.11671	64.25	Pk	12.2	.1	-80	-3.45	26.26	46.26	-29.71	0-360	0 degs
4	.11699	60.68	Pk	12.2	.1	-80	-7.02	26.24	46.24	-33.26	0-360	90 degs
2	.34822	46.72	Pk	12.2	.1	-80	-20.98	16.77	36.77	-37.75	0-360	0 degs
5	.34958	43.8	Pk	12.2	.1	-80	-23.9	16.73	36.73	-40.63	0-360	90 degs
7	.36199	38.3	Pk	12.2	.1	-80	-29.4	16.43	36.43	-45.83	0-360	0 degs
8	.36199	37.69	Pk	12.2	.1	-80	-30.01	16.43	36.43	-46.44	0-360	90 degs
9	.36199	39.35	Pk	12.2	.1	-80	-28.35	16.43	36.43	-44.78	0-360	Flat
3	.57854	38.46	Pk	12.2	.2	-40	10.86	32.36	-	-21.5	0-360	0 degs
6	.57854	35.53	Pk	12.2	.2	-40	7.93	32.36	-	-24.43	0-360	90 degs

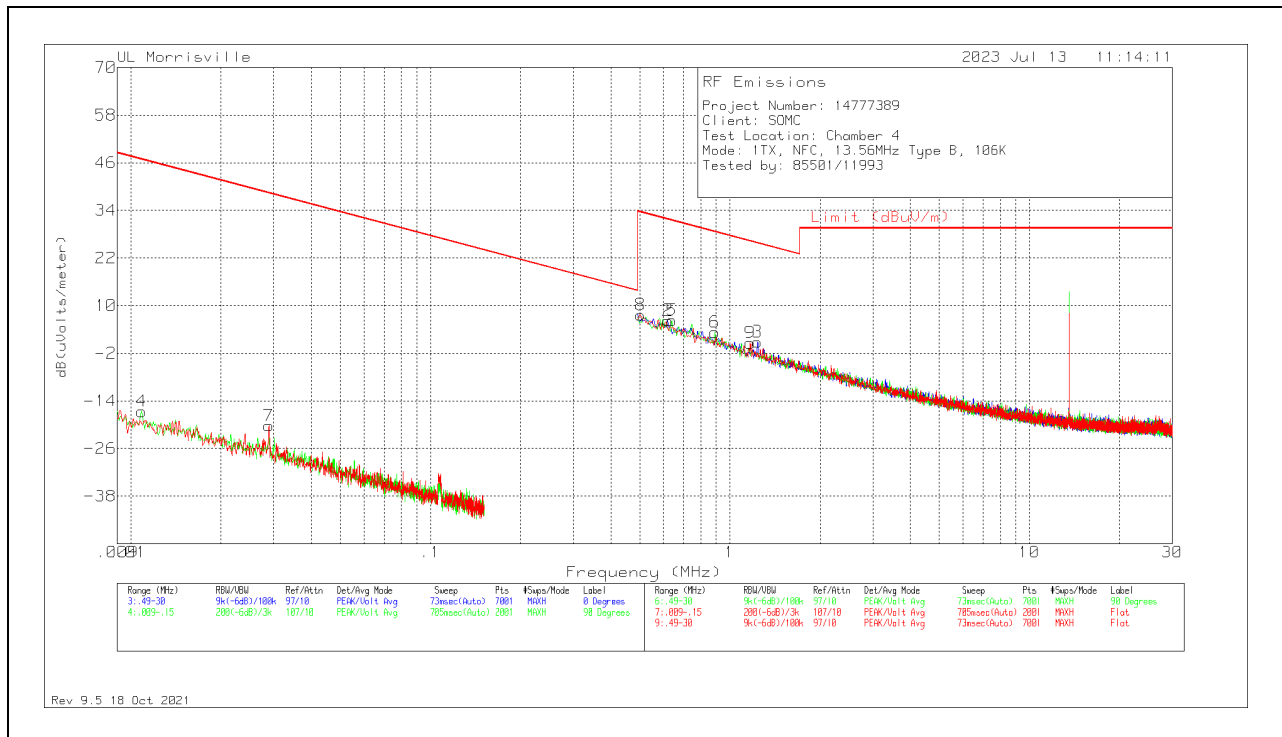
Pk - Peak detector

## 10.6. NFC

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  $40 \cdot \log(\text{test distance} / \text{specification distance})$ .

### HARMONICS AND SPURIOUS EMISSIONS – TYPE B, 106Kbps

0.009 to 30MHz



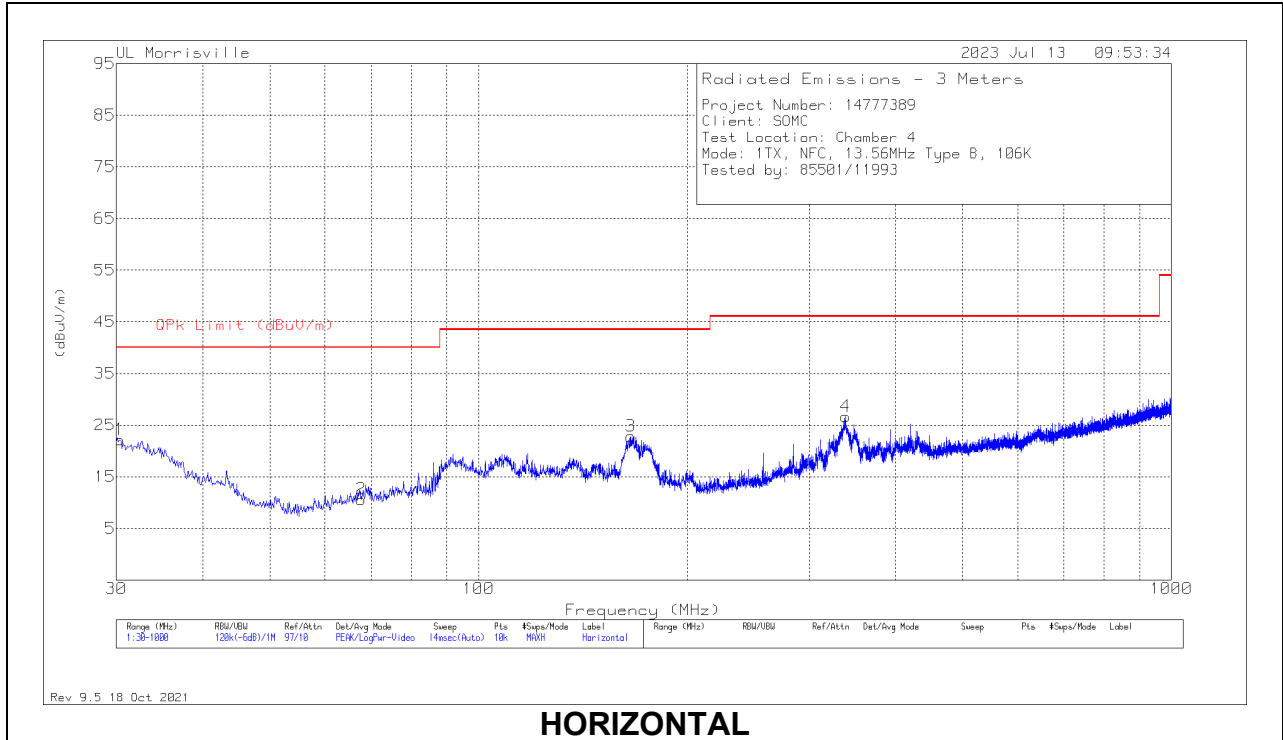
**RADIATED EMISSIONS**

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	.01085	44.35	Pk	18.9	.1	-80	-16.65	46.9	66.9	-63.55	0-360	90 degs
1	.02774	43.16	Pk	14.3	.1	-80	-22.44	38.74	58.74	-61.18	0-360	0 degs
7	.02888	45.44	Pk	14.2	.1	-80	-20.26	38.39	58.39	-58.65	0-360	Flat
11	.17483	39.76	Qp	12.2	.1	-80	-27.94	22.75	42.75	-50.69	173	90 degs
12	.16411	40.32	Qp	12.2	.1	-80	-27.38	23.3	43.3	-50.68	250	Flat
10	.17038	40.03	Qp	12.2	.1	-80	-27.67	22.98	42.98	-50.65	175	0 degs
8	.50265	35.25	Pk	12.2	.2	-40	7.65	33.58	-	-25.93	0-360	Flat
2	.6207	33.85	Pk	12.2	.2	-40	6.25	31.75	-	-25.5	0-360	0 degs
5	.64178	33.88	Pk	12.2	.2	-40	6.28	31.46	-	-25.18	0-360	90 degs
6	.89052	30.88	Pk	12.2	.2	-40	3.28	28.61	-	-25.33	0-360	90 degs
9	1.16878	28.19	Pk	12.2	.2	-40	.59	26.25	-	-25.66	0-360	Flat
3	1.23623	28.44	Pk	12.2	.2	-40	.84	25.76	-	-24.92	0-360	0 degs

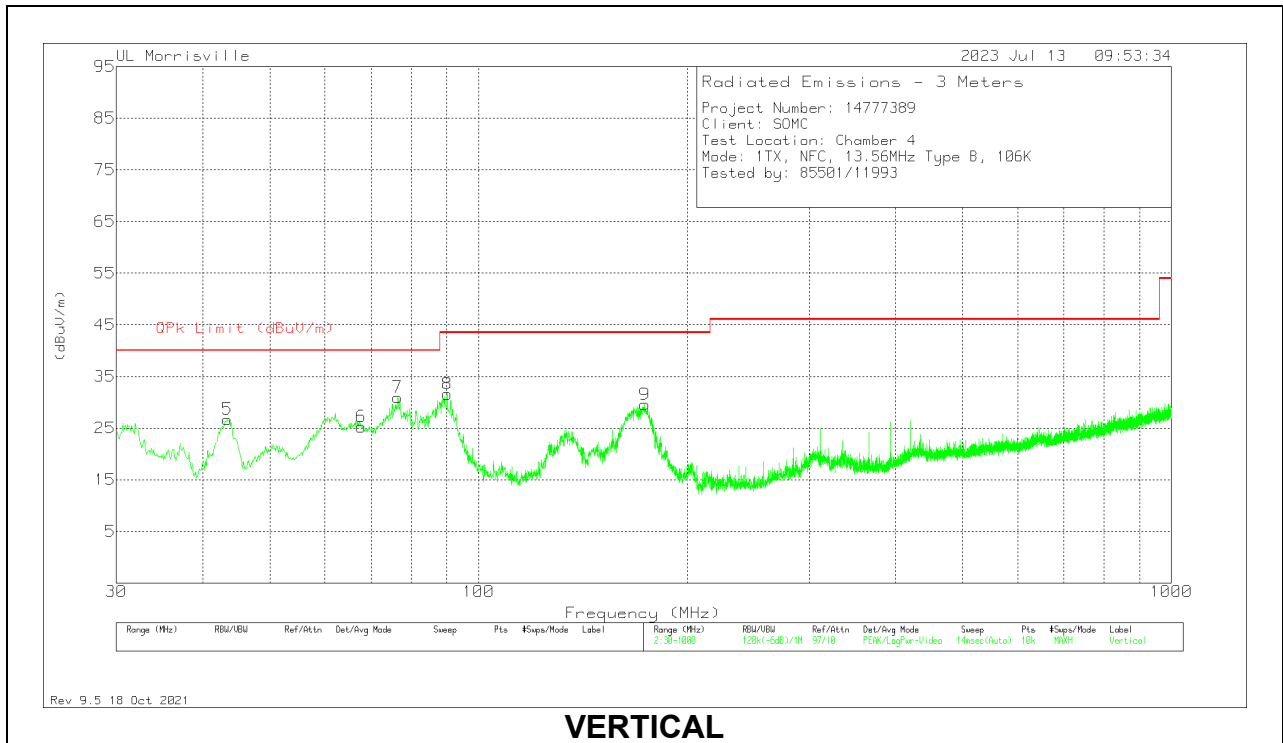
Pk - Peak detector

Qp - Quasi-Peak detector

30 to 1000MHz



HORIZONTAL



VERTICAL

**RADIATED EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.388	27.16	Pk	26.7	-31.7	22.16	40	-17.84	0-360	300	H
5	43.386	40.8	Pk	17.3	-31.4	26.7	40	-13.3	0-360	100	V
2	67.733	27.43	Pk	14.3	-31.1	10.63	40	-29.37	0-360	200	H
6	67.733	42.08	Pk	14.3	-31.1	25.28	40	-14.72	0-360	100	V
7	76.463	47.85	Pk	14.3	-31.2	30.95	40	-9.05	0-360	100	V
8	90.14	48.41	Pk	14	-30.8	31.61	43.52	-11.91	0-360	100	V
3	165.994	34.82	Pk	18.2	-30.2	22.82	43.52	-20.7	0-360	100	H
9	173.851	41.87	Pk	17.7	-30	29.57	43.52	-13.95	0-360	100	V
4	338.9935	35.48	Pk	20.1	-28.9	26.68	46.02	-19.34	0-360	100	H

Pk - Peak detector

## 11. SETUP PHOTOS

Refer to R14777389-EP2 for setup photos.

**END OF REPORT**