

TEST REPORT

Report Number: R14777408-E2

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

FCC ID : PY7-43624K

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:

2023-08-15

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	2023-08-15	Initial Issue	B. Kiewra

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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: QV77003WHT, QV7700DPHT, QV7700CTHT

SAMPLE RECEIPT DATE: 2023-07-05

DATE TESTED: 2023-07-06 to 2023-07-18

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

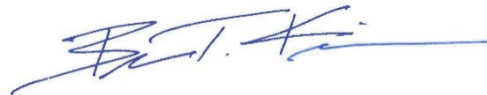
UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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:

Prepared By:



Michael Antola
Staff Engineer
Consumer, Medical and IT Segment
UL LLC

Brian Kiewra
Project Engineer
Consumer, Medical and IT Segment
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 47 CFR Part 2, FCC 47 CFR 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
☐	Building: 12 Laboratory Dr RTP, NC 27709, U.S.A	US0067	2180C	825374
☒	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

SETUP DIAGRAM

Refer to R14777408-EP2 for setup diagrams.

7. REUSE OF TEST DATA

7.1. INTRODUCTION

According to the manufacturer, FCC ID: PY7-76732V and FCC ID: PY7-43624K unlicensed radios (WLAN/BT/BLE/WPT/NFC) are electrically identical. The FCC ID: PY7-76732V test data shall remain representative of FCC ID: PY7-43624K so, FCC ID: PY7-43624K 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 PY7-43624K:

Sony Corporation hereby declares that the hardware of WLAN 2.4GHz, WLAN 5GHz, Bluetooth, GPS, WPT, and NFC is identical among PY7-76732V and PY7-43624K. The change is related to the cellular radio. Therefore, the following report/data of PY7-76732V may represent for PY7-43624K.

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 PY7-43624K 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.

PY7-43624K SPOT CHECK RESULTS									
Technology	Test Item	Channel	Measured Frequency (MHz)	PY7-76732V		PY7-43624K		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	49.91	37.45	0.16	-0.07
BT (8PSK)	RSE	0	2874	47.84	33.83	49.28	33.97	1.44	0.14
BLE (GFSK)	RBE	39	2483	61.64	42.57	62.30	44.3	0.66	1.73
	RSE	39	2873	47.93	36.00	48.54	36.20	0.61	0.20
2.4GHz WLAN (HT20)	RBE	11	2483	53.22	40.60	50.34	38.81	-2.88	-1.79
2.4GHz WLAN (11b)	RSE	6	*9317	47.97	-	47.87	-	-0.10	-
*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	57.85	45.97	0.71	-0.26
	RBE	50	5350	57.05	46.17	59.95	46.44	2.90	0.27
5GHz WLAN (11n HT40)	RSE	54	**9442	47.82	-	48.36	-	0.54	-
**Note: No AV remeasurement was taken, as no markers were within 6dB of avg limit.									
5GHz WLAN (11a)	RBE	100	5459	56.6	46.56	56.07	45.71	-0.53	-0.85
5GHz WLAN (HE20)	RBE	165	***5940	-34.58 (EIRP)	-	-37.45	-	-2.87	-
***Note: No AV limit for above scan, therefore no AV measurements just PK.									
WPT	RSE	121 kHz	0.36208	-22.89	-	-28.62	-	-5.73	-
NFC	RSE	13.56	0.1755	-21.27	-	-23.56	-	-2.29	-
			67.7992	35.50	-	27.24	-	-8.26	-

8. TEST AND MEASUREMENT EQUIPMENT

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

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
0.009-30MHz					
135144	Active Loop Antenna	ETS-Lindgren	6502	2023-01-17	2024-01-17
30-1000 MHz					
90629	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2023-01-06	2024-01-06
1-18 GHz					
89509	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2023-05-23	2025-05-23
Gain-Loss Chains					
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
Receiver & Software					
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2023-04-10	2024-04-10
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
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.

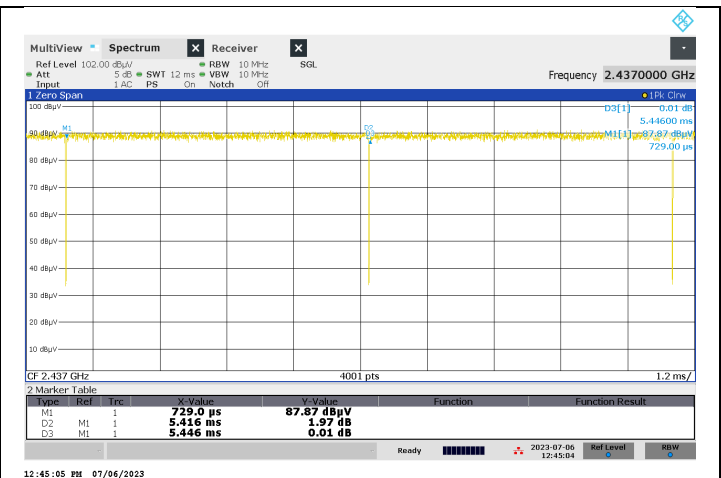
ON TIME AND DUTY CYCLE RESULTS

Mode	On Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4 WLAN DTS						
802.11b 1Mbps	100.0000	100.0000	1.000	100.00%	0.00	0.010
802.11n HT20	5.416	5.446	0.994	99.45%	0.00	0.010
5 WLAN UNII						
802.11n HT40	5.420	5.445	0.995	99.55%	0.00	0.010
802.11ax HE20, 242T/RU61	0.921	0.979	0.941	94.08%	0.53	1.085
802.11ax HE160, 2x996T/RU68	0.383	0.419	0.913	91.29%	0.79	2.613
802.11a 6Mbps	2.093	2.115	0.990	98.98%	0.00	0.010
BLE						
GFSK 125Kbps	17.065	17.520	0.974	97.40%	0.23	0.059
GFSK 2Mbps	1.072	1.876	0.571	57.13%	4.86	0.933
BT						
GFSK (DH5) 1Mbps	2.870	3.752	0.765	76.49%	2.33	0.348
8PSK (3-DH5) 3Mbps	2.870	3.749	0.766	76.56%	2.32	0.348

DUTY CYCLE PLOTS



DUTY CYCLE 802.11b, 1Mbps



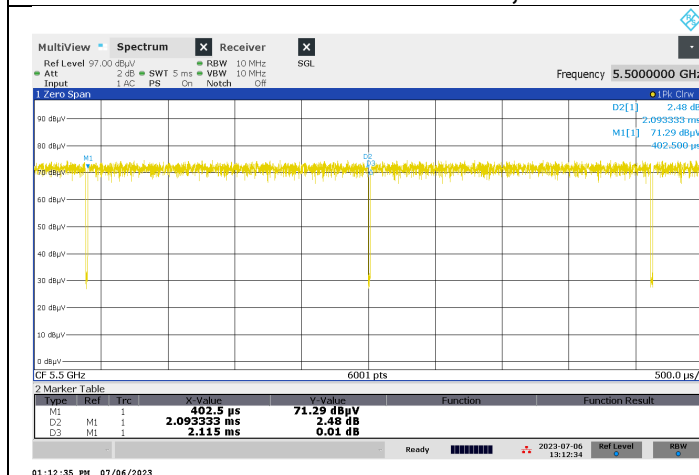
DUTY CYCLE 802.11n HT20



DUTY CYCLE 802.11n HT40, MCS0



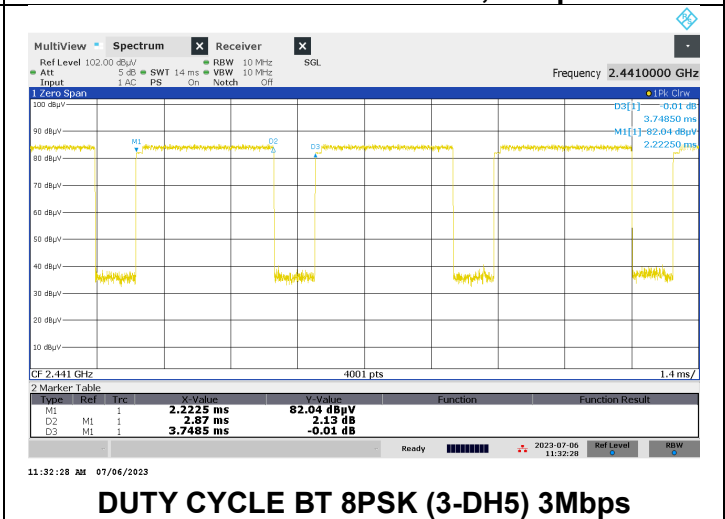
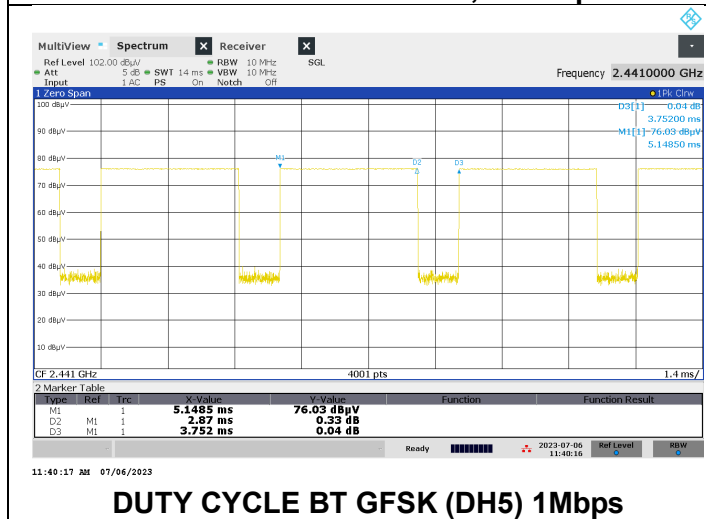
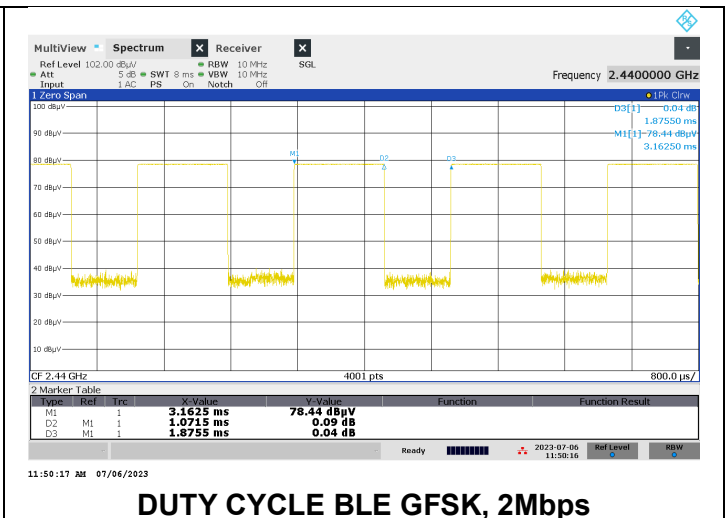
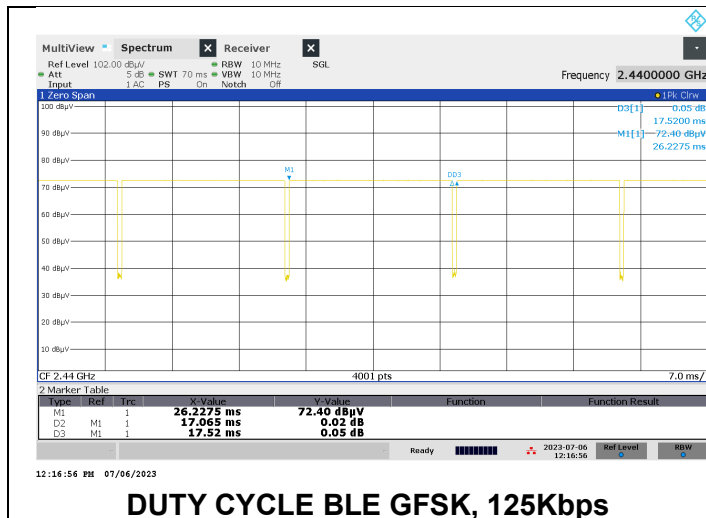
DUTY CYCLE 802.11ax HE20, 242T/RU61



DUTY CYCLE 802.11a, 6Mbps



DUTY CYCLE 802.11ax HE160, 2x996T/RU68



10. SPOT CHECK DATA

LIMITS

FCC §15.205, §15.225, §15.209, and §15.407

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).

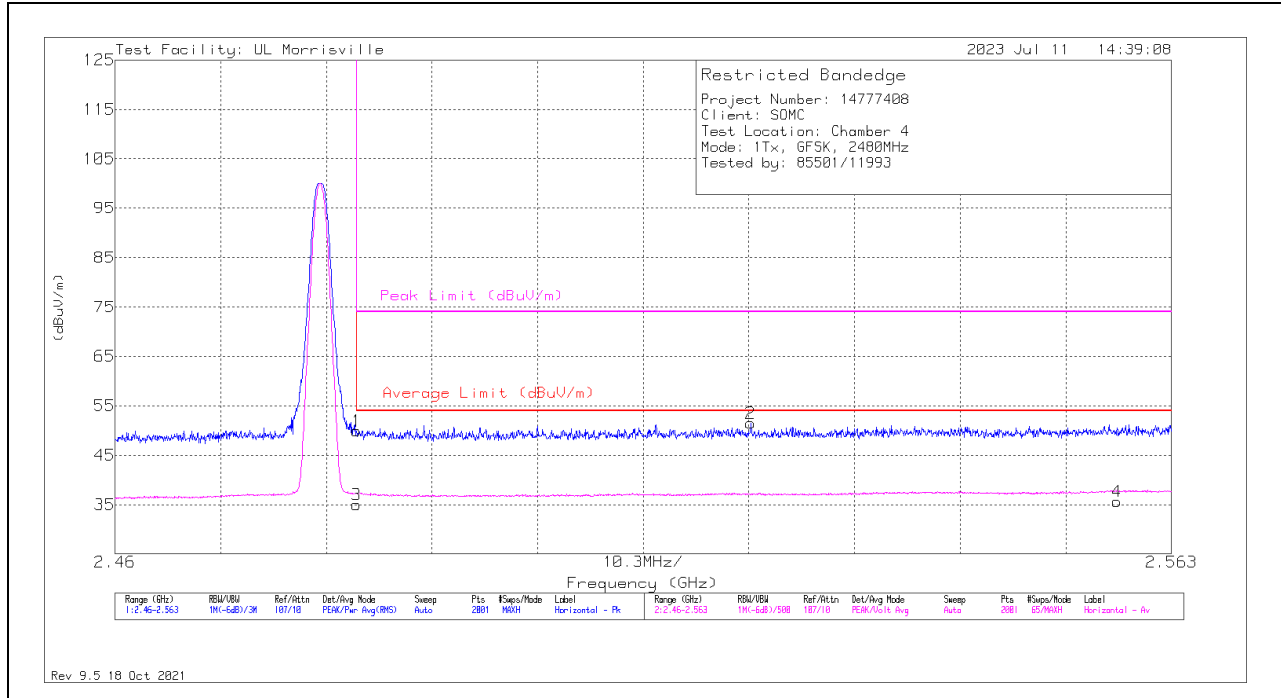
The spectrum from 9kHz to 30 MHz for WPT/NFC, 30 MHz to 1000 MHz for NFC and 1 GHz to 18 GHz for WLAN/BT/BLE is investigated with the transmitter set to worst case modes.

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

10.1.1. 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	30.51	Pk	32.3	-12.9	49.91	-	-	74	-24.09	181	102	H
2	** 2.52195	32.09	Pk	32.4	-13	51.49	-	-	74	-22.51	181	102	H
3	* ** 2.48354	15.6	V1TV	32.3	-12.9	35	54	-19	-	-	181	102	H
4	** 2.5577	15.83	V1TV	32.5	-12.7	35.63	54	-18.37	-	-	181	102	H

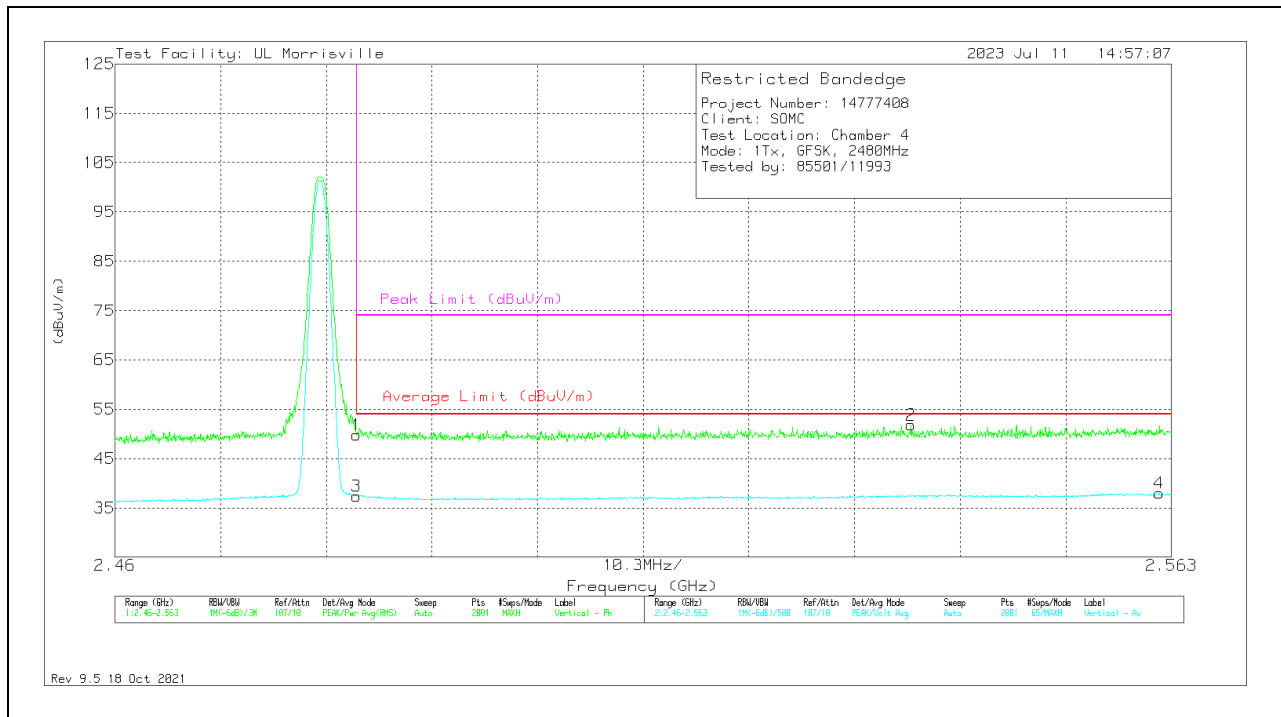
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	30.42	Pk	32.3	-12.9	49.82	-	-	74	-24.18	343	111	V
3	* ** 2.48354	18.05	V1TV	32.3	-12.9	37.45	54	-16.55	-	-	343	111	V
2	** 2.53761	32.2	Pk	32.5	-12.9	51.8	-	-	74	-22.2	343	111	V
4	** 2.56182	18.3	V1TV	32.5	-12.8	38	54	-16	-	-	343	111	V

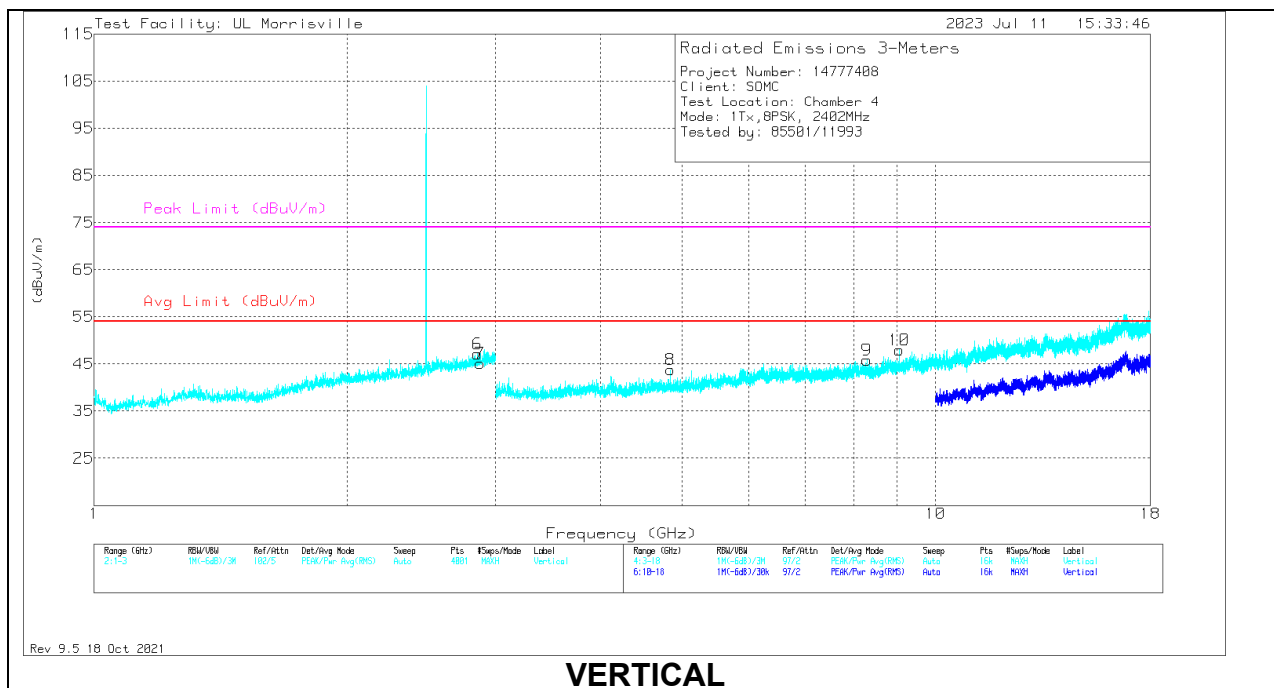
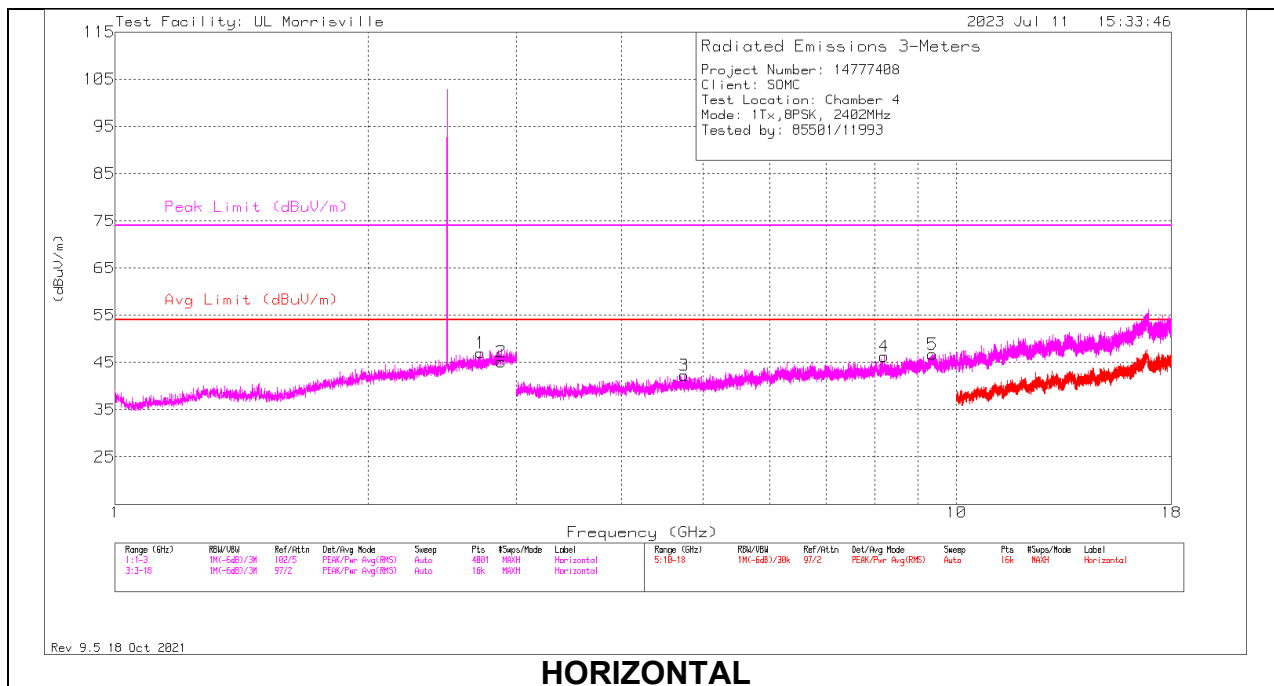
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

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

10.1.2. 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	* ** 2.718	27.13	Pk	32.4	-12.5	47.03	54	-6.97	74	-26.97	0-360	100	H
6	* ** 2.854	26.98	Pk	32.4	-12.3	47.08	54	-6.92	74	-26.92	0-360	200	V
2	* ** 2.8732	27.89	PK2	32.4	-12.2	48.09	54	-5.91	74	-25.91	279	224	H
	* ** 2.87473	13.64	V1TV	32.4	-12.1	33.94	54	-20.06	-	-	279	224	H
7	* ** 2.8761	28.88	PK2	32.4	-12	49.28	54	-4.72	74	-24.72	353	223	V
	* ** 2.87464	13.67	V1TV	32.4	-12.1	33.97	54	-20.03	-	-	353	223	V
3	* ** 4.74469	39.88	Pk	34	-31.6	42.28	54	-11.72	74	-31.72	0-360	100	H
8	* ** 4.84125	41.3	Pk	34.1	-31.6	43.8	54	-10.2	74	-30.2	0-360	200	V
4	* ** 8.20031	37.34	Pk	35.8	-26.8	46.34	54	-7.66	74	-27.66	0-360	100	H
9	* ** 8.28469	36.64	Pk	35.8	-26.6	45.84	54	-8.16	74	-28.16	0-360	200	V
10	* ** 9.05438	36.3	Pk	36.2	-24.5	48	54	-6	74	-26	0-360	200	V
5	* ** 9.36	34.93	Pk	36.5	-24.7	46.73	54	-7.27	74	-27.27	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

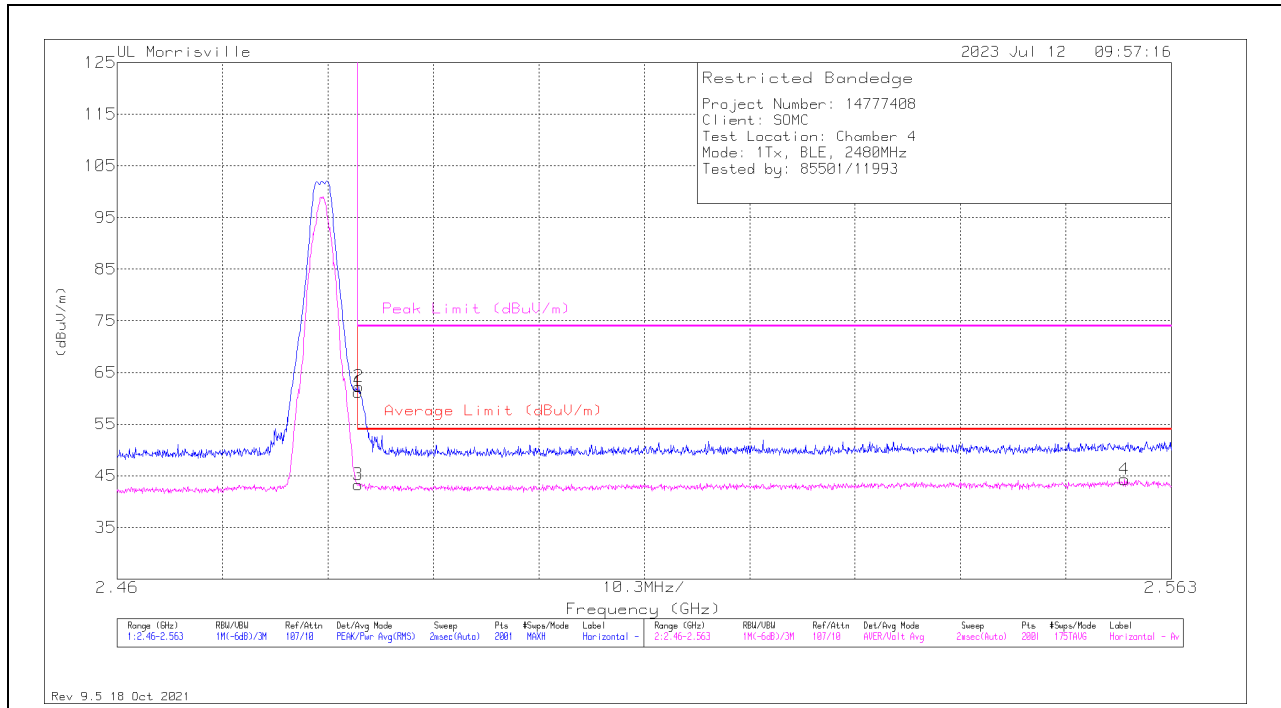
PK2 - Maximum Peak

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

10.2. BLE

10.2.1. 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	41.77	Pk	32.3	-12.9	0	61.17	-	-	74	-12.83	341	118	H
2	* ** 2.48359	42.9	Pk	32.3	-12.9	0	62.3	-	-	74	-11.7	341	118	H
3	* ** 2.48354	19.04	ADV	32.3	-12.9	4.86	43.3	54	-10.7	-	-	341	118	H
4	** 2.55842	19.64	ADV	32.5	-12.7	4.86	44.3	54	-9.7	-	-	341	118	H

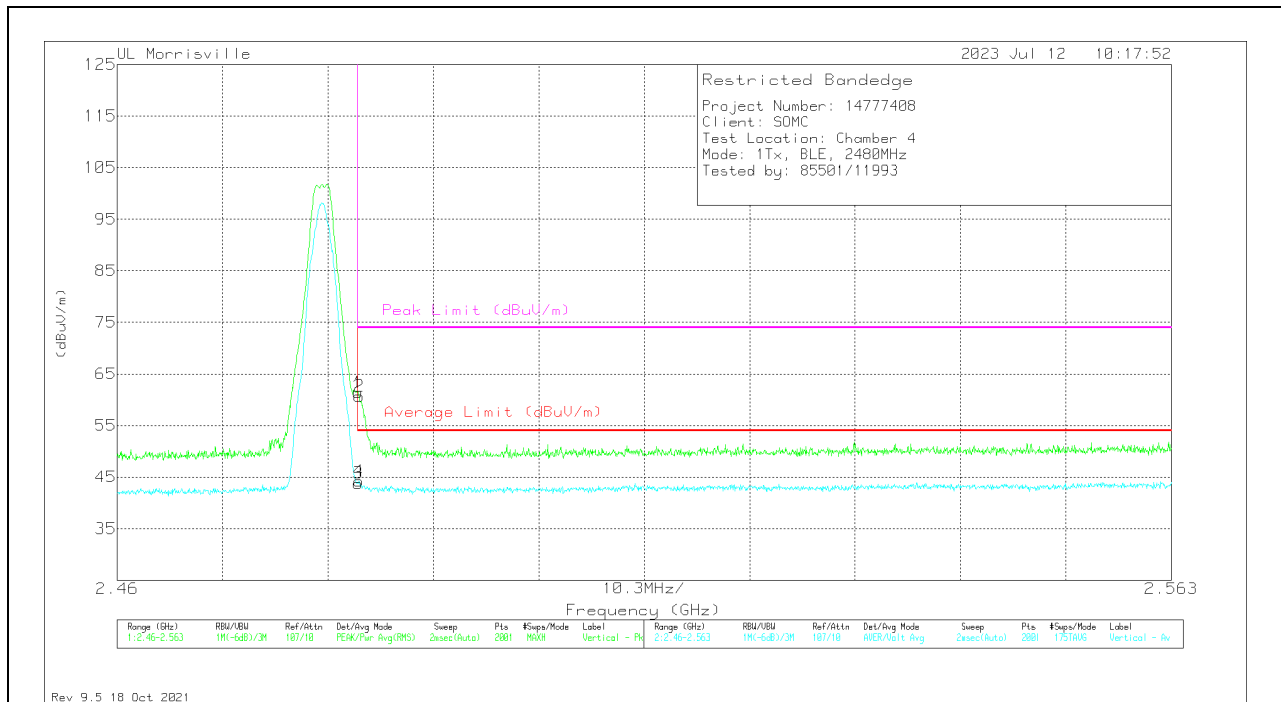
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	42	Pk	32.3	-12.9	0	61.4	-	-	74	-12.6	306	121	V
2	*** 2.48364	41.28	Pk	32.3	-12.9	0	60.68	-	-	74	-13.32	306	121	V
3	*** 2.48354	19.54	ADV	32.3	-12.9	4.86	43.8	54	-10.2	-	-	306	121	V
4	*** 2.48359	19.97	ADV	32.3	-12.9	4.86	44.23	54	-9.77	-	-	306	121	V

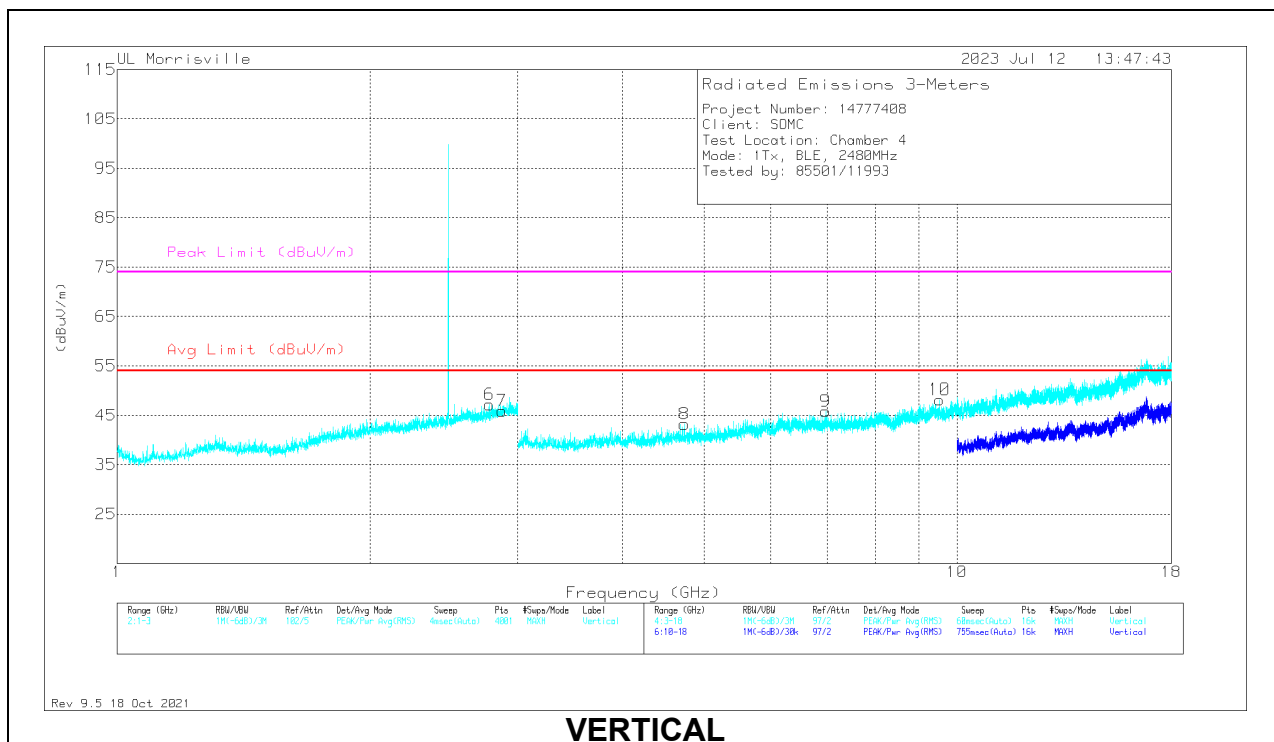
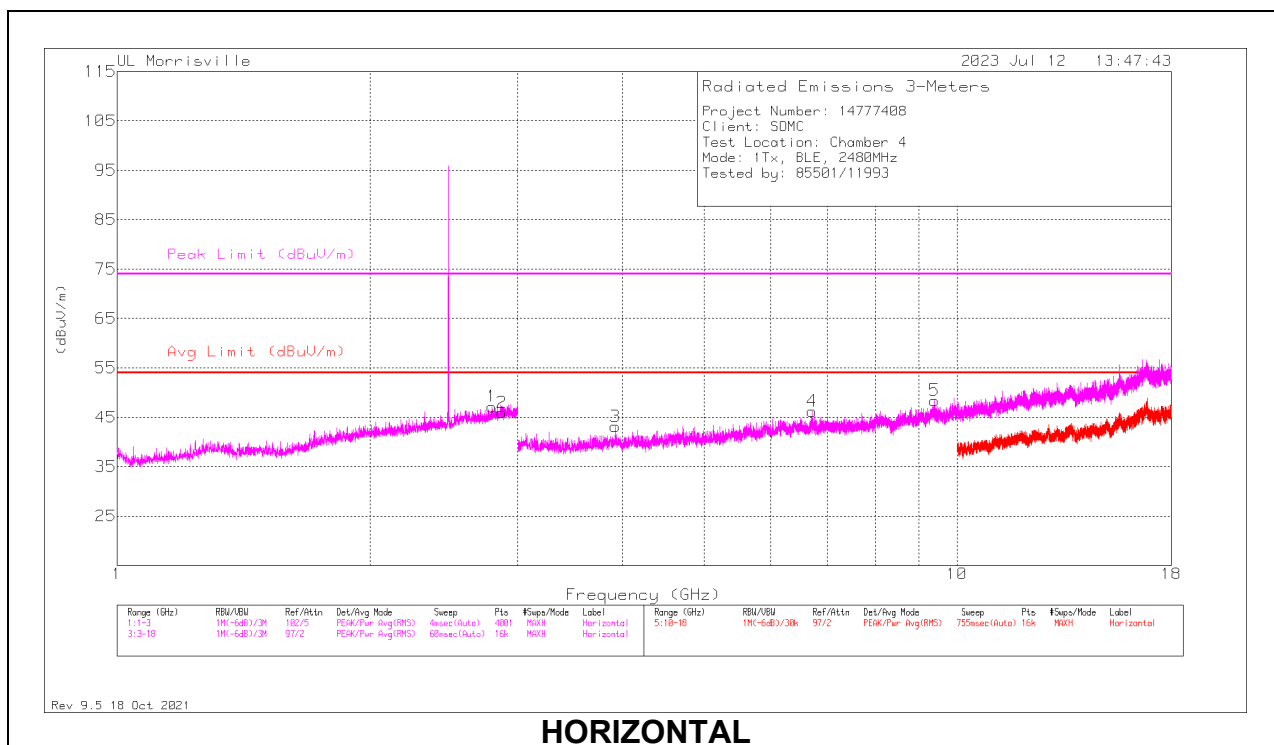
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

10.2.2. HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL – CHAIN 1, 125Kbps)



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	*** 2.7955	26.85	Pk	32.6	-12.3	0	47.15	54	-6.85	74	-26.85	0-360	100	H
2	*** 2.87406	28.24	PK2	32.4	-12.1	0	48.54	-	-	74	-25.46	118	389	H
	*** 2.87409	15.67	ADV	32.4	-12.1	.23	36.20	54	-17.80	-	-	118	389	H
6	*** 2.774	27.08	Pk	32.5	-12.4	0	47.18	54	-6.82	74	-26.82	0-360	200	V
7	*** 2.87298	28.19	PK2	32.4	-12.2	0	48.39	-	-	74	-25.61	116	163	V
	*** 2.87439	15.63	ADV	32.4	-12.1	.23	36.16	54	-17.84	-	-	116	163	V
3	*** 3.91875	42.33	Pk	33.3	-32.5	0	43.13	54	-10.87	74	-30.87	0-360	100	H
5	*** 9.40825	36.96	PK2	36.6	-25.9	0	47.66	-	-	74	-26.34	329	200	H
	*** 9.40851	24.93	ADV	36.6	-25.8	.23	35.96	54	-18.04	-	-	329	200	H
8	*** 4.73625	40.63	Pk	34	-31.4	0	43.23	54	-10.77	74	-30.77	0-360	200	V
4	6.72563	38.03	Pk	35.5	-27.3	0	46.23	54	-7.77	74	-27.77	0-360	100	H
9	6.97688	38	Pk	35.5	-27.7	0	45.8	54	-8.2	74	-28.2	0-360	200	V
10	9.53146	37.04	PK2	36.7	-24.9	0	48.84	-	-	74	-25.16	314	105	V
	9.53467	24.4	ADV	36.7	-25.1	.23	36.23	54	-17.77	-	-	314	105	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

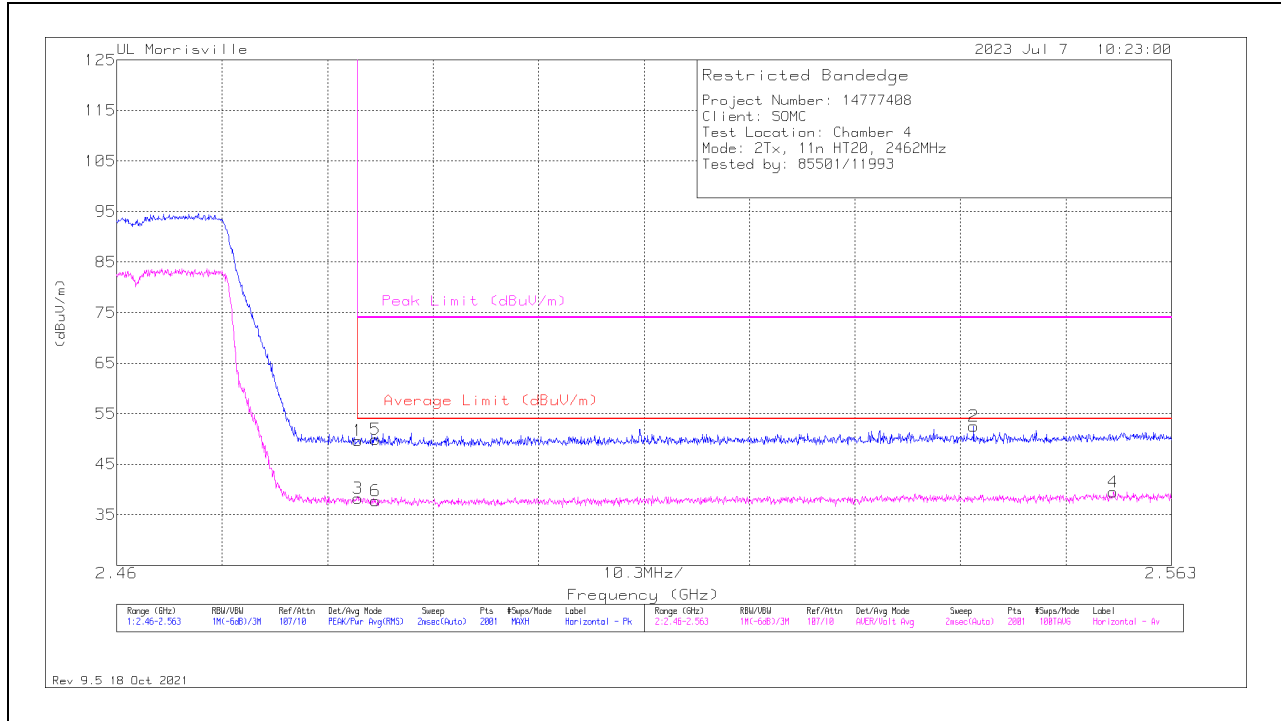
PK2 - Maximum Peak

ADV - Linear Voltage Average

10.3. 2.4GHz WLAN

10.3.1. 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	30.22	Pk	32.3	-12.9	49.62	-	-	74	-24.38	229	152	H
2	** 2.54369	32.99	Pk	32.5	-13	52.49	-	-	74	-21.51	229	152	H
5	* ** 2.48529	30.47	Pk	32.3	-12.9	49.87	-	-	74	-24.13	229	152	H
3	* ** 2.48354	18.83	ADV	32.3	-12.9	38.23	54	-15.77	-	-	229	152	H
4	** 2.55734	19.73	ADV	32.5	-12.7	39.53	54	-14.47	-	-	229	152	H
6	* ** 2.48529	18.31	ADV	32.3	-12.9	37.71	54	-16.29	-	-	229	152	H

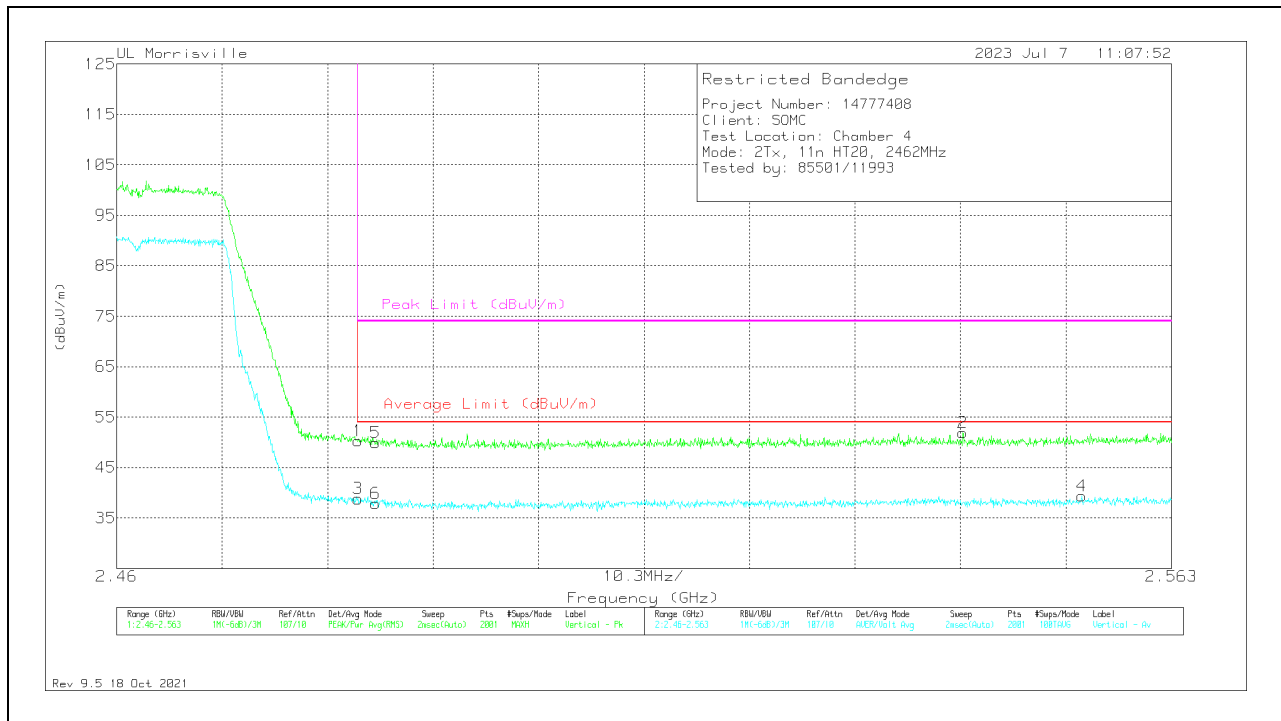
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	30.94	Pk	32.3	-12.9	50.34	-	-	74	-23.66	125	213	V
2	** 2.54261	32.38	Pk	32.5	-13	51.88	-	-	74	-22.12	125	213	V
5	* ** 2.48529	30.51	Pk	32.3	-12.9	49.91	-	-	74	-24.09	125	213	V
3	* ** 2.48354	19.41	ADV	32.3	-12.9	38.81	54	-15.19	-	-	125	213	V
4	** 2.55425	19.82	ADV	32.4	-12.9	39.32	54	-14.68	-	-	125	213	V
6	* ** 2.48529	18.45	ADV	32.3	-12.9	37.85	54	-16.15	-	-	125	213	V

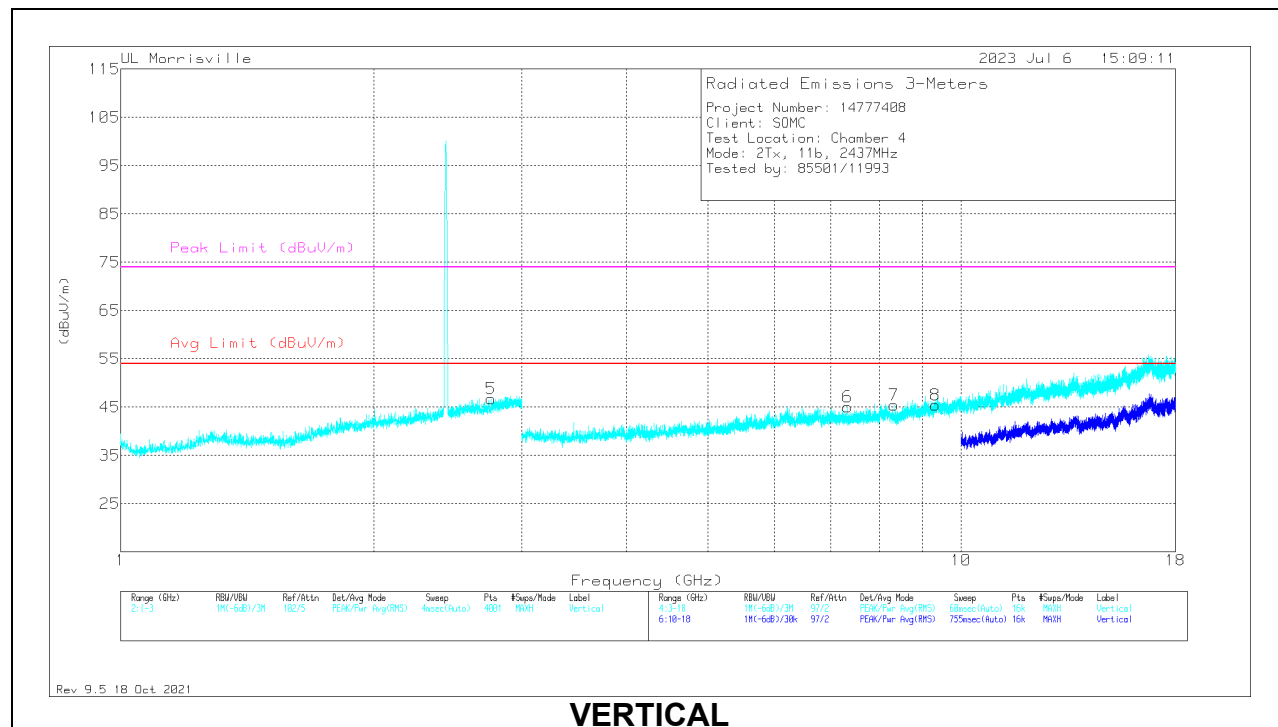
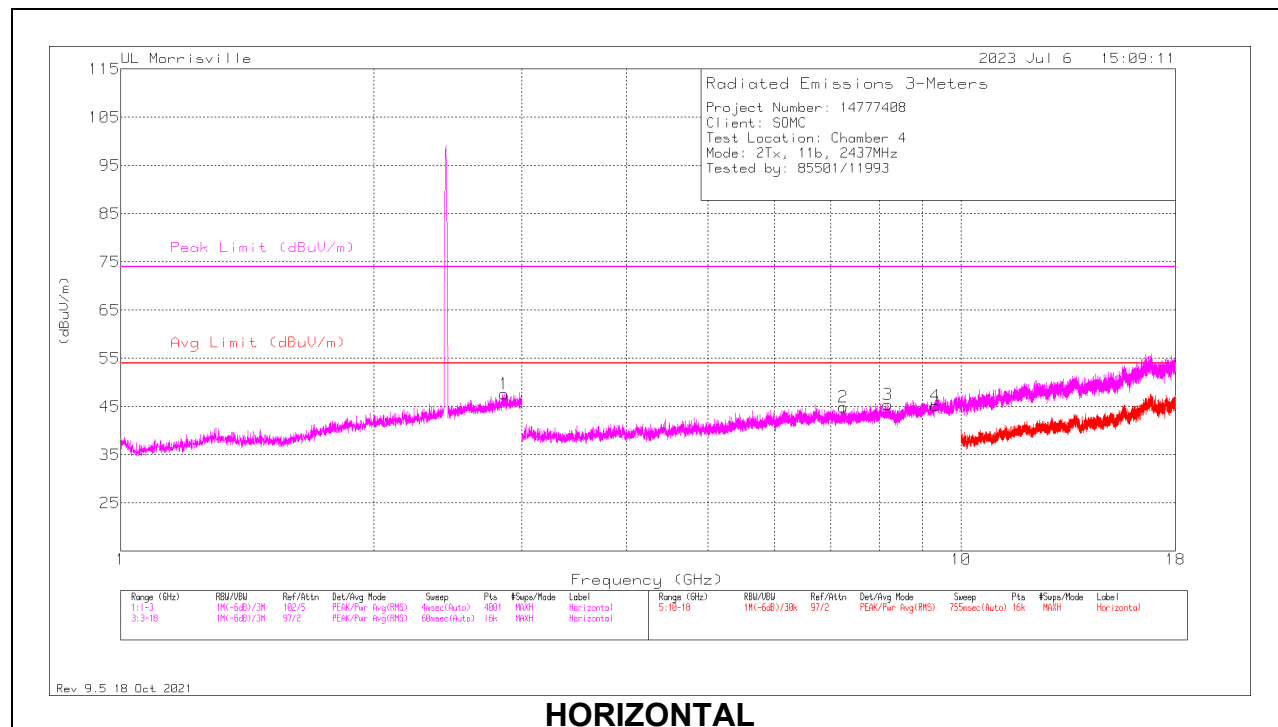
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

10.3.2. 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	*** 2.8615	27.4	Pk	32.4	-12.1	47.7	54	-6.3	74	-26.3	0-360	100	H
5	*** 2.759	26.76	Pk	32.5	-12.5	46.76	54	-7.24	74	-27.24	0-360	200	V
3	*** 8.17688	36.49	Pk	35.8	-26.8	45.49	54	-8.51	74	-28.51	0-360	100	H
4	*** 9.31722	36.09	PK2	36.4	-25.1	47.39	-	-	74	-26.61	271	344	H
	*** 9.3175	23.8	ADV	36.4	-25.1	35.1	54	-18.9	-	-	271	344	H
6	*** 7.33594	37.16	Pk	35.6	-27.7	45.06	54	-8.94	74	-28.94	0-360	200	V
7	*** 8.325	36.47	Pk	35.8	-26.8	45.47	54	-8.53	74	-28.53	0-360	200	V
8	*** 9.31556	36.57	PK2	36.4	-25.1	47.87	-	-	74	-26.13	60	326	V
	*** 9.31847	23.84	ADV	36.4	-25.1	35.14	54	-18.86	-	-	60	326	V
2	7.23938	37.11	Pk	35.6	-27.8	44.91	54	-9.09	74	-29.09	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

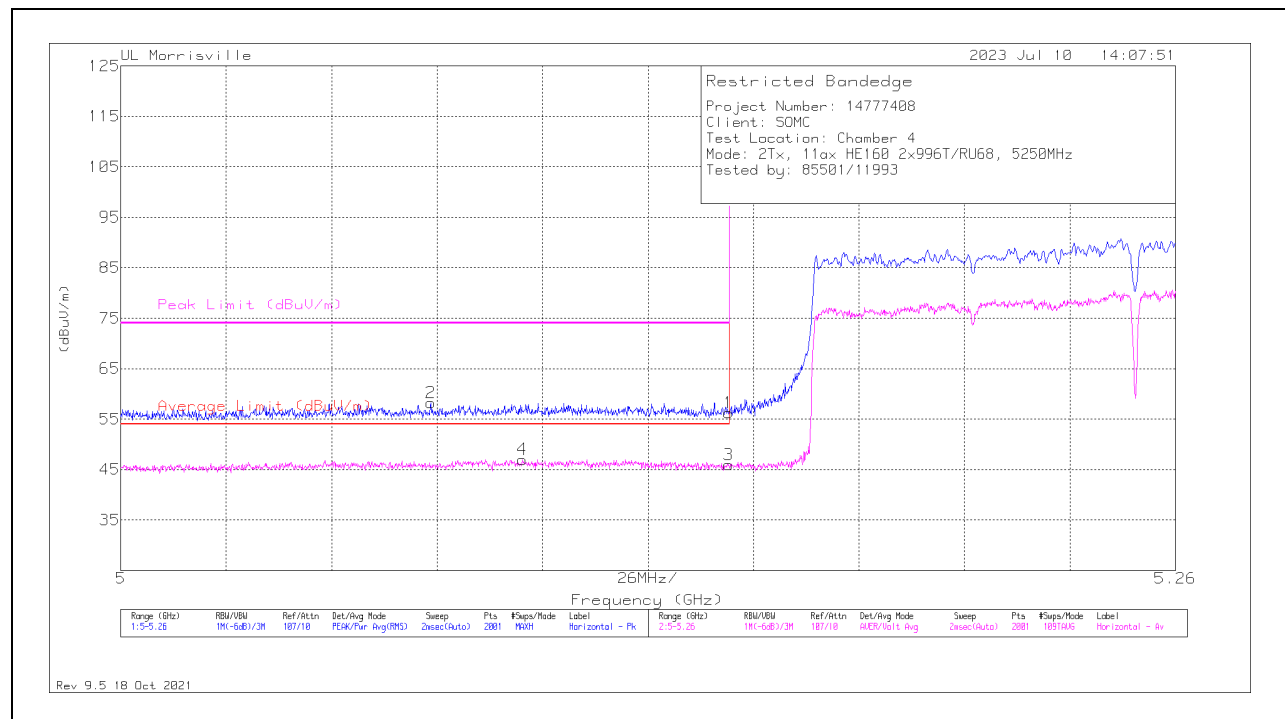
PK2 - Maximum Peak

ADV - Linear Voltage Average

10.4. 5GHz WLAN

10.4.1. 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	31.53	Pk	34.2	-9.5	0	56.23	-	-	74	-17.77	325	107	H
2	*** 5.07644	34.02	Pk	34.1	-9.9	0	58.22	-	-	74	-15.78	325	107	H
3	*** 5.14989	20.48	ADV	34.2	-9.5	.79	45.97	54	-8.03	-	-	325	107	H
4	*** 5.09906	21.5	ADV	34.1	-9.4	.79	46.99	54	-7.01	-	-	325	107	H

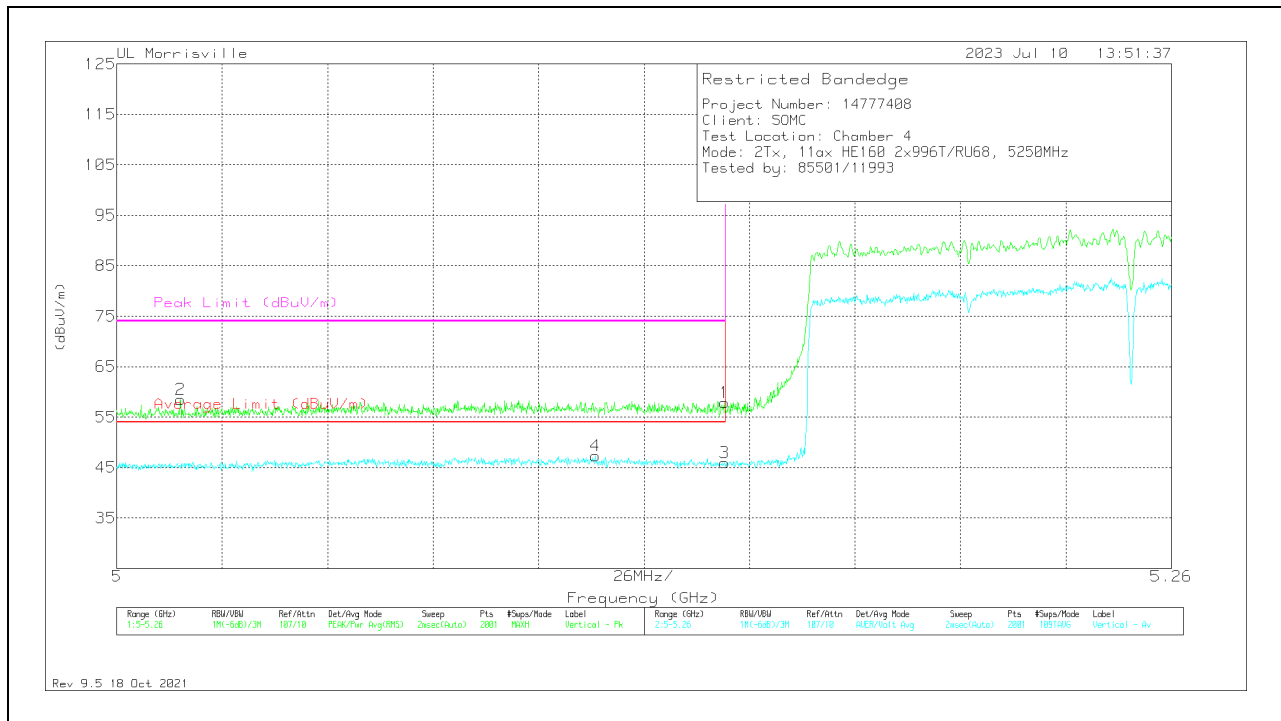
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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)	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	33.15	Pk	34.2	-9.5	0	57.85	-	-	74	-16.15	304	131	V
2	* ** 5.01573	33.9	Pk	34.1	-9.5	0	58.5	-	-	74	-15.5	304	131	V
3	* ** 5.14989	20.42	ADV	34.2	-9.5	.79	45.91	54	-8.09	-	-	304	131	V
4	* ** 5.11804	21.77	ADV	34.1	-9.4	.79	47.26	54	-6.74	-	-	304	131	V

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

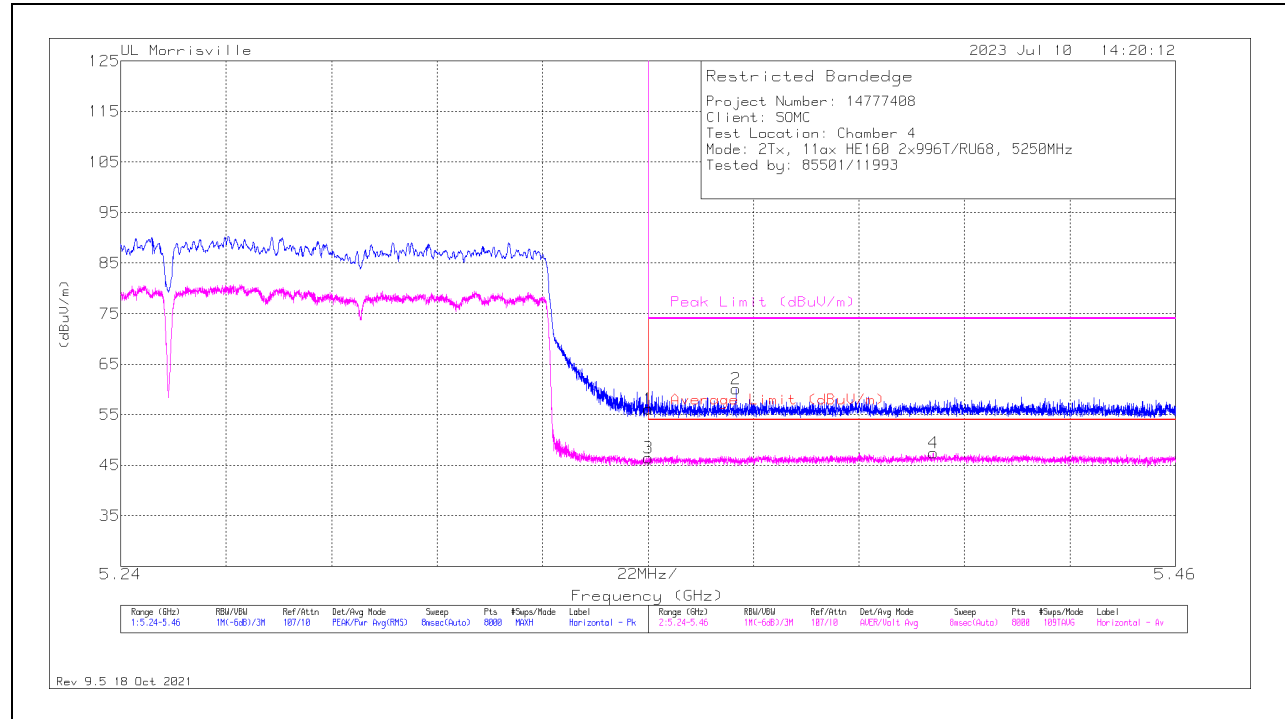
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

10.4.2. 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	30.98	Pk	34.4	-9.3	0	56.08	-	-	74	-17.92	333	152	H
2	*** 5.3683	34.88	Pk	34.5	-9.3	0	60.08	-	-	74	-13.92	333	152	H
3	*** 5.35001	20.55	ADV	34.4	-9.3	.79	46.44	54	-7.56	-	-	333	152	H
4	*** 5.40947	20.89	ADV	34.6	-8.8	.79	47.48	54	-6.52	-	-	333	152	H

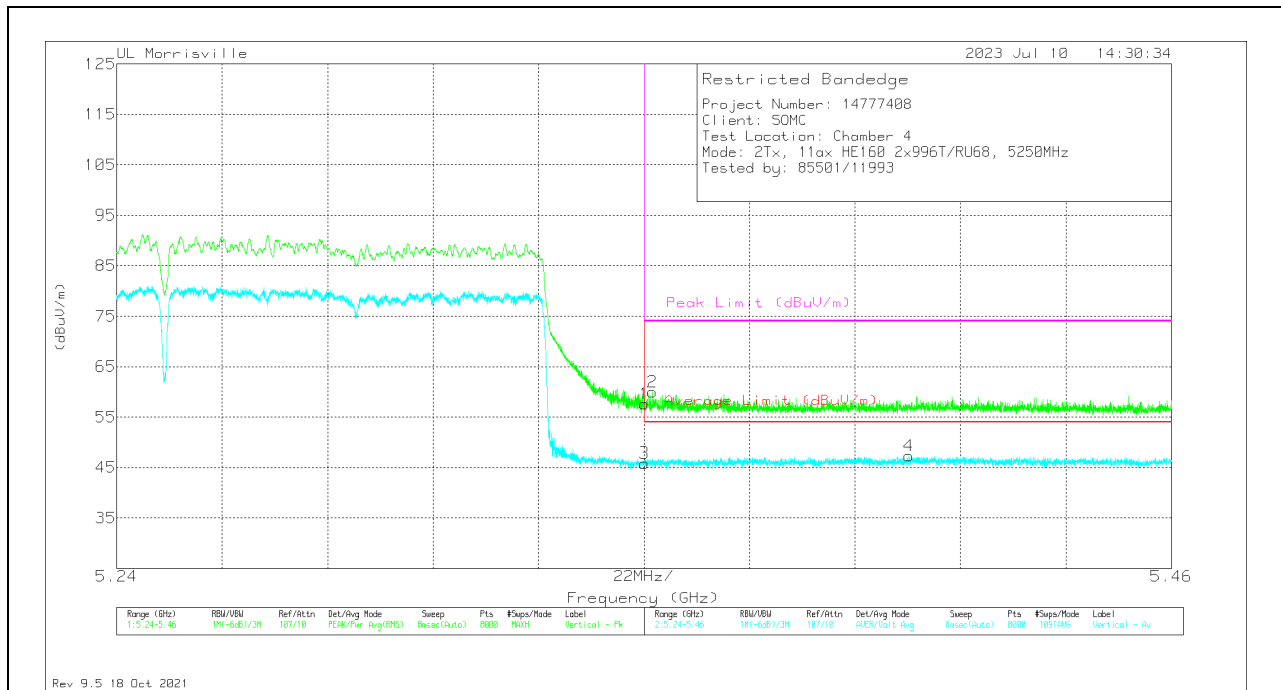
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	32.46	Pk	34.4	-9.3	0	57.56	-	-	74	-16.44	317	153	V
2	*** 5.35174	34.75	Pk	34.4	-9.2	0	59.95	-	-	74	-14.05	317	153	V
3	*** 5.35001	19.98	ADV	34.4	-9.3	.79	45.87	54	-8.13	-	-	317	153	V
4	*** 5.40527	20.88	ADV	34.6	-9	.79	47.27	54	-6.73	-	-	317	153	V

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

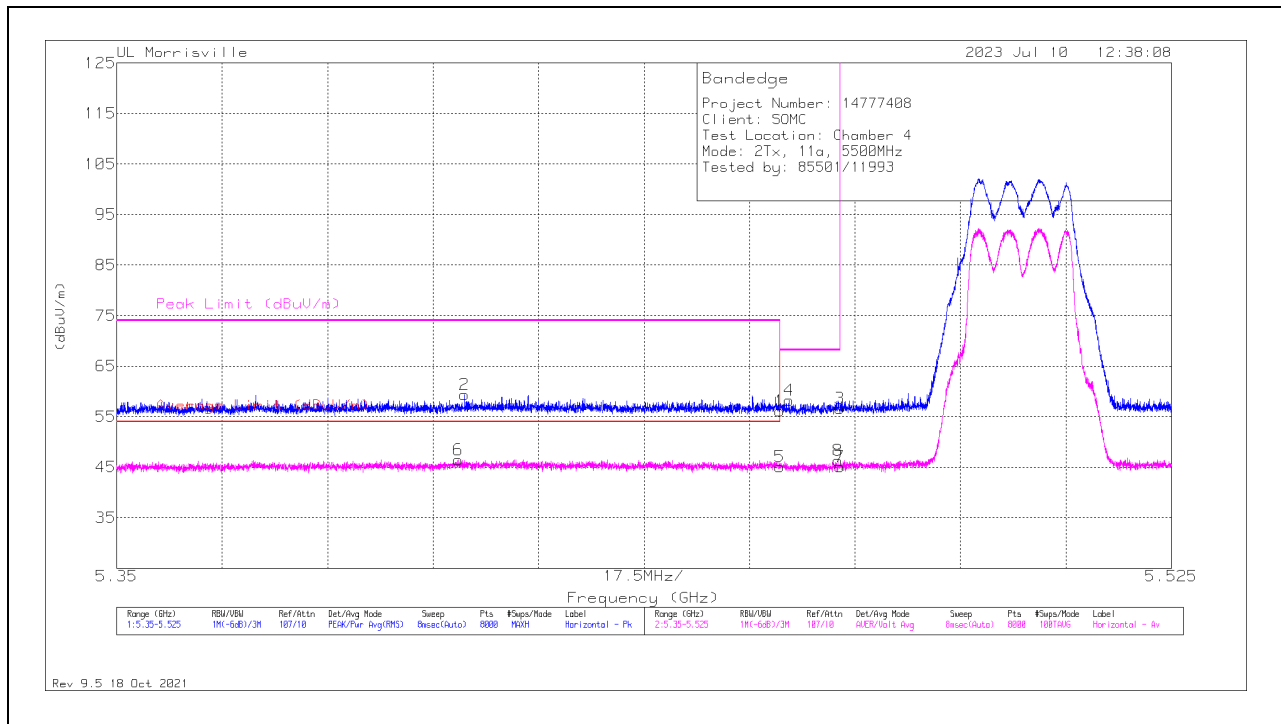
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

10.4.3. BANEDGE (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	30.37	Pk	34.6	-8.9	56.07	-	-	74	-17.93	100	137	H
2	* ** 5.40769	33.53	Pk	34.6	-8.8	59.33	-	-	74	-14.67	100	137	H
5	* ** 5.45998	19.35	ADV	34.6	-8.9	45.05	54	-8.95	-	-	100	137	H
6	* ** 5.40666	20.79	ADV	34.6	-8.9	46.49	54	-7.51	-	-	100	137	H
4	5.46156	32.78	Pk	34.6	-9.1	58.28	-	-	68.2	-9.92	100	137	H
8	5.46967	20.63	ADV	34.6	-8.9	46.33	-	-	-	-	100	137	H
3	5.46998	30.86	Pk	34.6	-8.8	56.66	-	-	68.2	-11.54	100	137	H
7	5.46998	19.27	ADV	34.6	-8.8	45.07	-	-	-	-	100	137	H

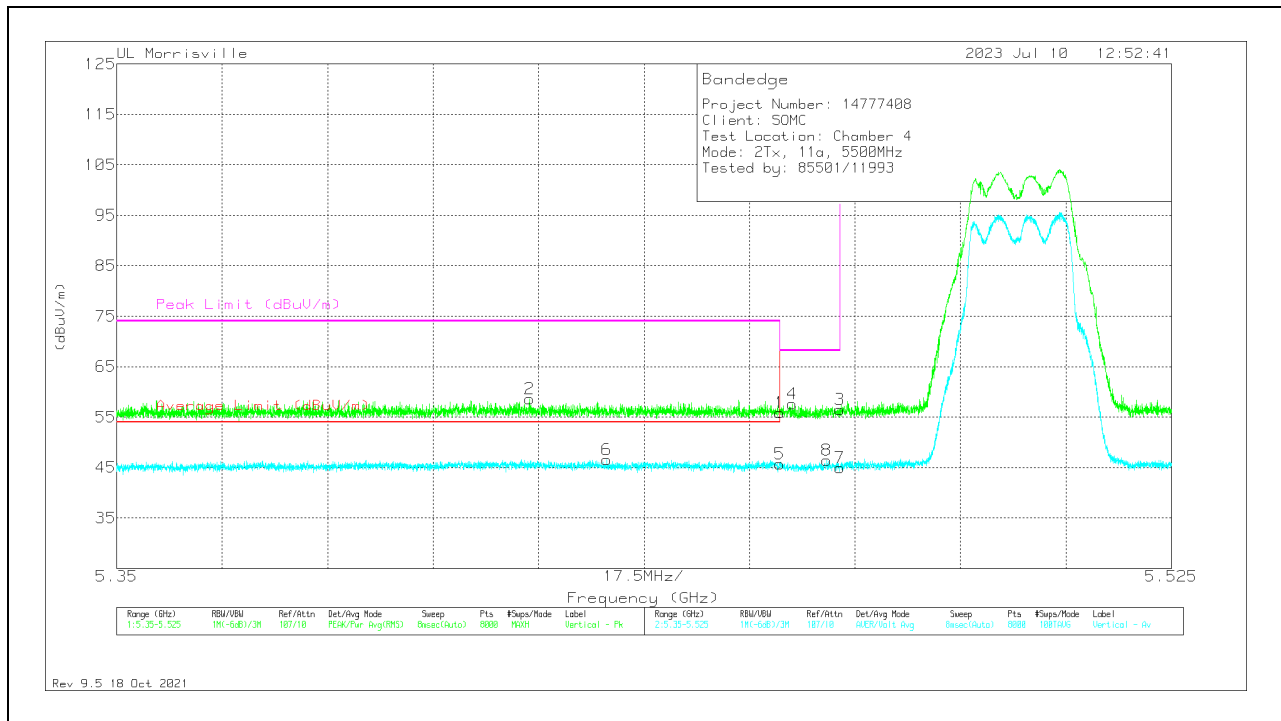
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	30.14	Pk	34.6	-8.9	55.84	-	-	74	-18.16	306	112	V
2	* ** 5.4185	32.86	Pk	34.6	-8.9	58.56	-	-	74	-15.44	306	112	V
5	* ** 5.45998	20.01	ADV	34.6	-8.9	45.71	54	-8.29	-	-	306	112	V
6	* ** 5.43128	20.93	ADV	34.6	-9	46.53	54	-7.47	-	-	306	112	V
4	5.46206	32.19	Pk	34.6	-9.2	57.59	-	-	68.2	-10.61	306	112	V
8	5.46783	20.79	ADV	34.6	-9	46.39	-	-	-	-	306	112	V
3	5.46998	30.71	Pk	34.6	-8.8	56.51	-	-	68.2	-11.69	306	112	V
7	5.46998	19.1	ADV	34.6	-8.8	44.9	-	-	-	-	306	112	V

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

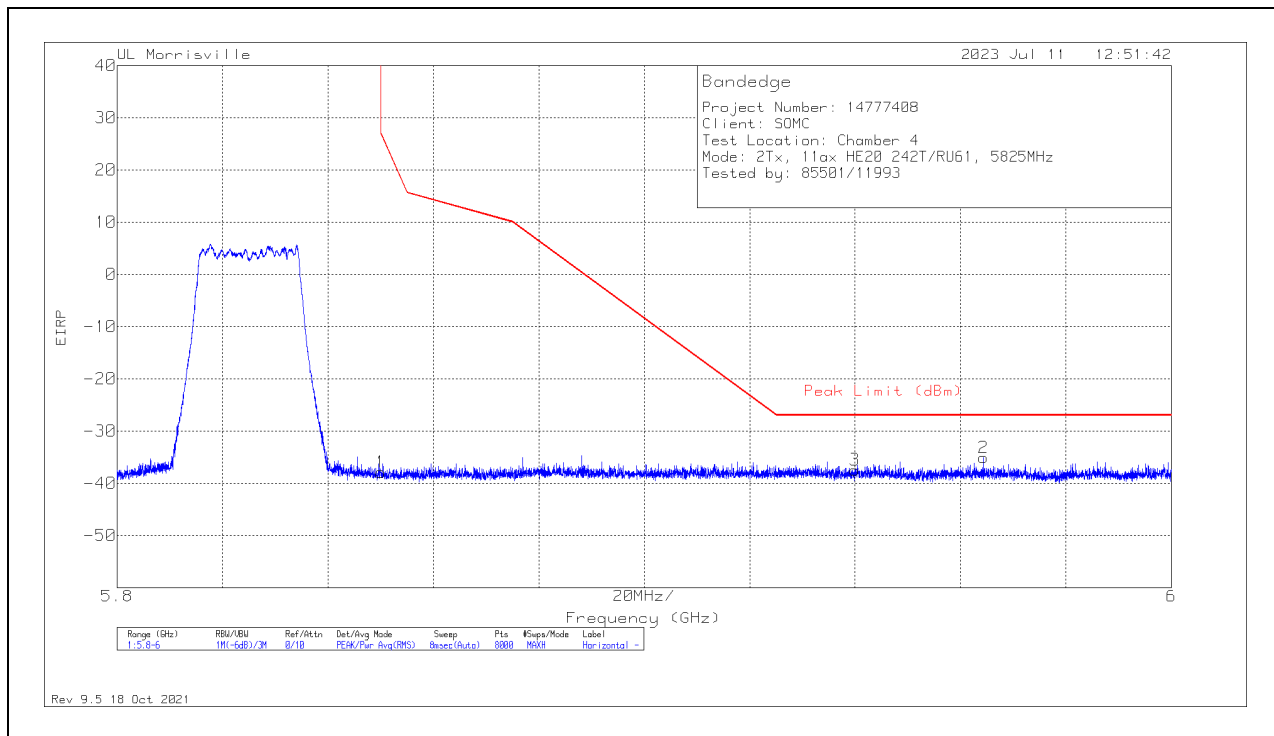
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

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

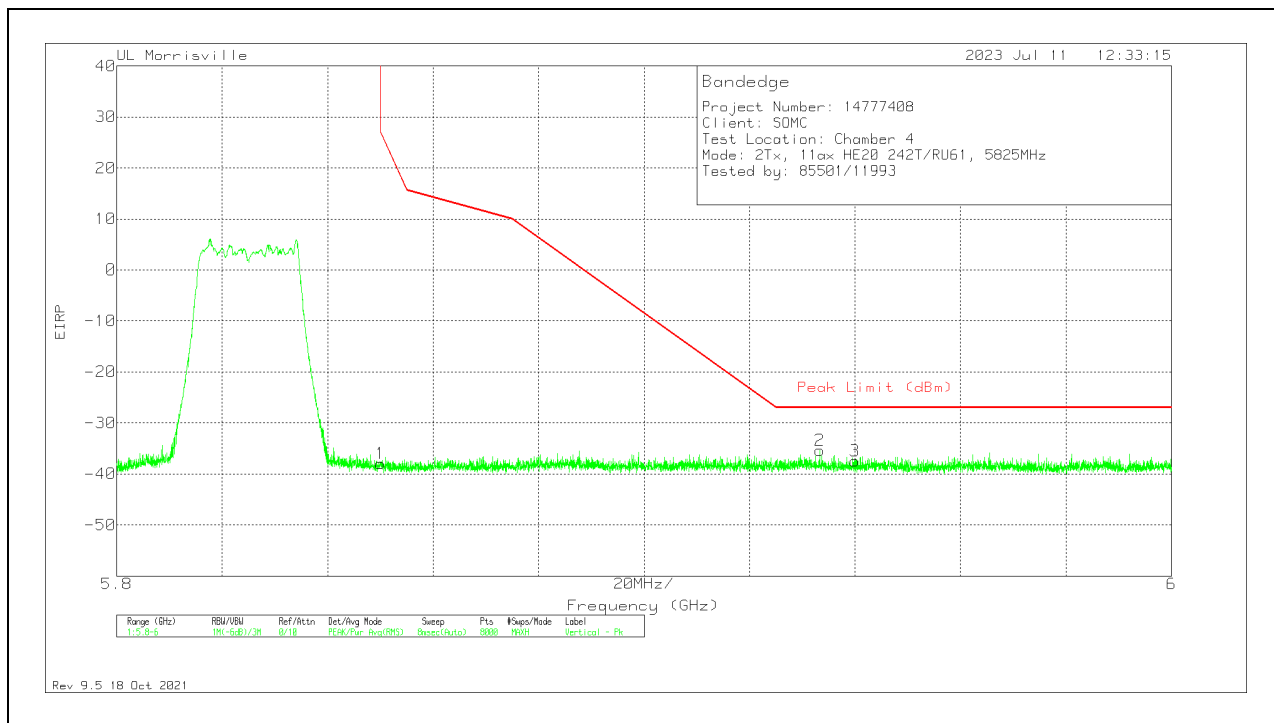
HORIZONTAL RESULT



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	-76.1	Pk	34.8	-8.4	11.8	0	-37.9	26.99	-64.89	345	200	H
3	5.93994	-75.85	Pk	35	-8.4	11.8	0	-37.45	-27	-10.45	345	200	H
2	5.96439	-73.58	Pk	35	-8.3	11.8	0	-35.08	-27	-8.08	345	200	H

Pk - Peak detector

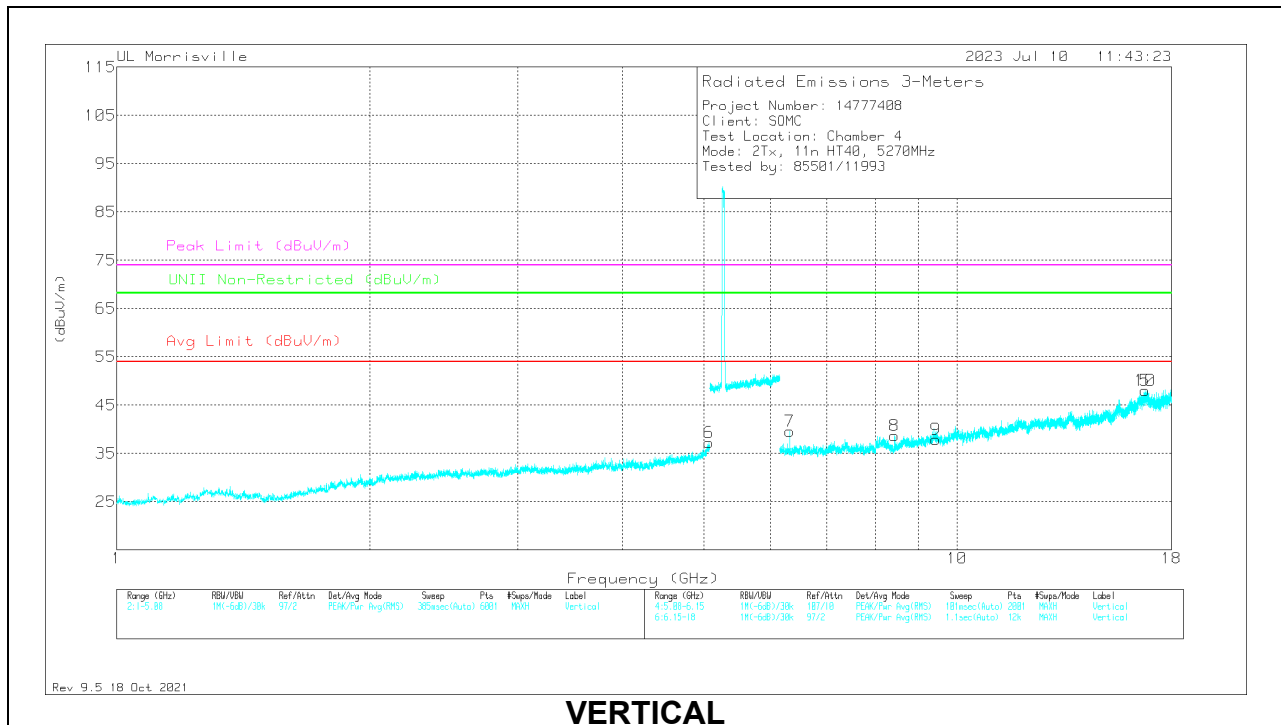
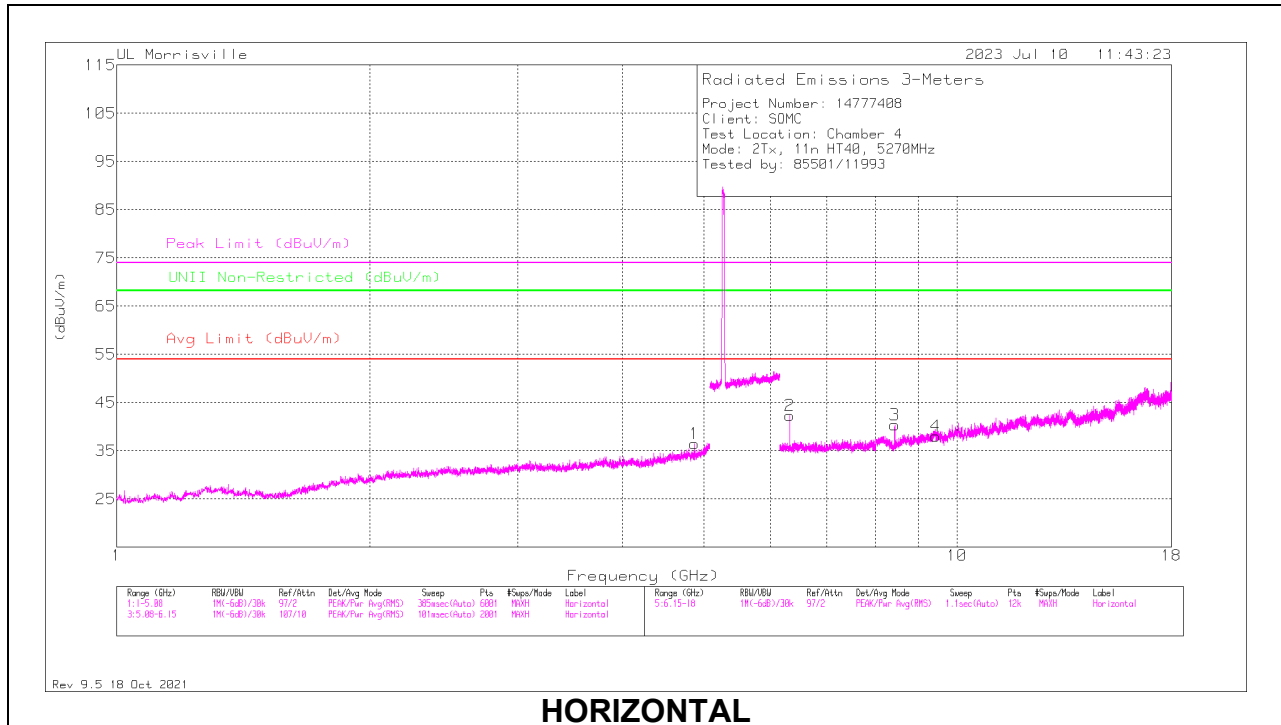
VERTICAL RESULT



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	-76.19	Pk	34.8	-8.4	11.8	0	-37.99	26.99	-64.98	124	326	V
2	5.93329	-73.99	Pk	35	-8.2	11.8	0	-35.39	-27	-8.39	124	326	V
3	5.93999	-75.91	Pk	35	-8.4	11.8	0	-37.51	-27	-10.51	124	326	V

Pk - Peak detector

10.4.5. 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	*** 4.87056	33.54	Pk	34.1	-31.2	36.44	-	-	74	-37.56	-	-	0-360	100	H
6	*** 5.06368	31.97	Pk	34.1	-28.8	37.27	-	-	74	-36.73	-	-	0-360	200	V
3	*** 8.43211	31.12	Pk	35.8	-26.5	40.42	-	-	74	-33.58	-	-	0-360	100	H
4	*** 9.44202	36.86	PK2	36.7	-25.2	48.36	-	-	74	-25.64	-	-	315	110	H
	*** 9.44364	24.36	ADV	36.7	-25.4	35.66	54	-18.34	-	-	-	-	315	110	H
8	*** 8.43113	29.34	Pk	35.8	-26.4	38.74	-	-	74	-35.26	-	-	0-360	200	V
9	*** 9.44416	36.93	PK2	36.7	-25.5	48.13	-	-	74	-25.87	-	-	165	140	V
	*** 9.44424	24.37	ADV	36.7	-25.5	35.57	54	-18.43	-	-	-	-	165	140	V
2	6.3238	35.67	Pk	35.4	-28.8	42.27	-	-	74	-31.73	68.2	-25.93	0-360	100	H
7	6.3238	32.94	Pk	35.4	-28.8	39.54	-	-	74	-34.46	68.2	-28.66	0-360	200	V
5	16.73798	25.59	Pk	41.9	-19.5	47.99	-	-	74	-26.01	68.2	-20.21	0-360	200	V
10	16.73798	25.59	Pk	41.9	-19.5	47.99	-	-	74	-26.01	68.2	-20.21	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

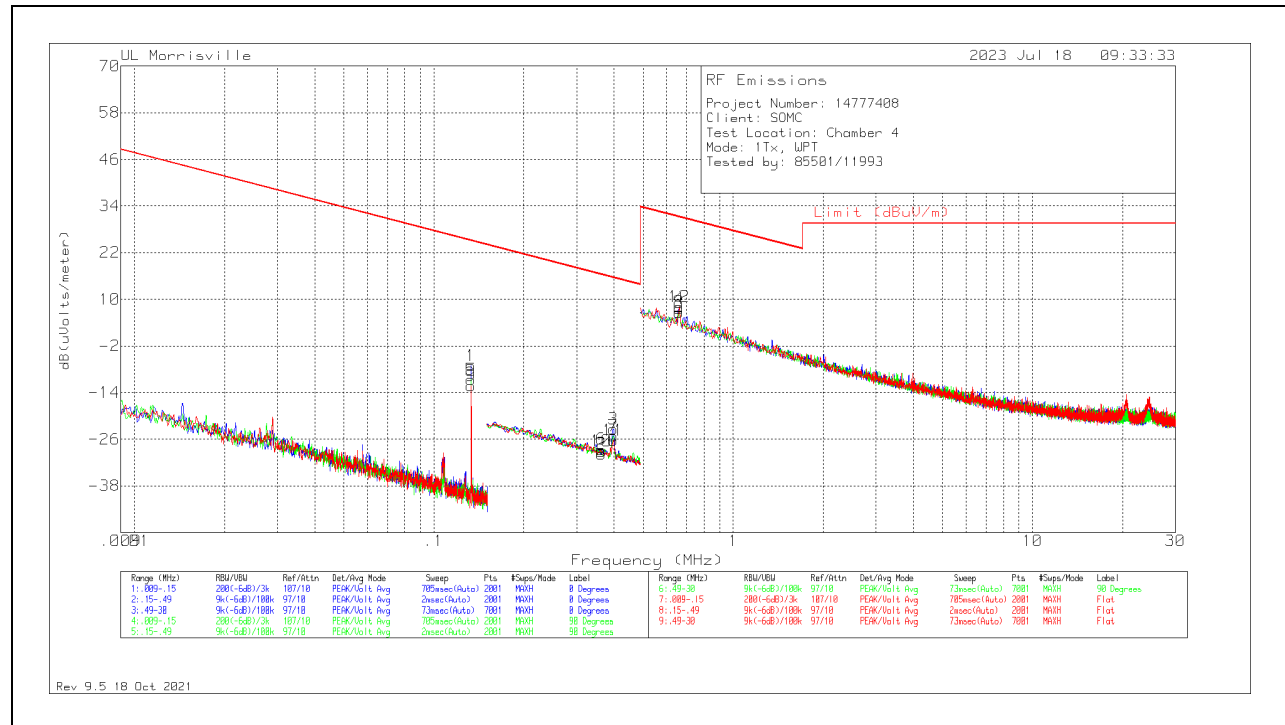
ADV - Linear Voltage Average

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

10.5.1. HARMONICS AND SPURIOUS EMISSIONS – CONFIG 1

0.009 to 30MHz



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	.13318	60.61	Pk	12.2	.1	-80	-7.09	25.12	45.12	-32.21	0-360	0 degs
5	.13318	57.02	Pk	12.2	.1	-80	-10.68	25.12	45.12	-35.8	0-360	90 degs
9	.13325	55.52	Pk	12.2	.1	-80	-12.18	25.11	45.11	-37.29	0-360	Flat
2	.36199	37.95	Pk	12.2	.1	-80	-29.75	16.43	36.43	-46.18	0-360	0 degs
6	.36199	39.08	Pk	12.2	.1	-80	-28.62	16.43	36.43	-45.05	0-360	90 degs
10	.36199	38.6	Pk	12.2	.1	-80	-29.1	16.43	36.43	-45.53	0-360	Flat
7	.39727	42.56	Pk	12.2	.1	-80	-25.14	15.62	35.62	-40.76	0-360	90 degs
3	.39761	44.35	Pk	12.2	.1	-80	-23.35	15.61	35.61	-38.96	0-360	0 degs
11	.39803	41.45	Pk	12.2	.1	-80	-26.25	15.61	35.61	-41.86	0-360	Flat
4	.65864	35.25	Pk	12.2	.2	-40	7.65	31.23	-	-23.58	0-360	0 degs
12	.65864	35.73	Pk	12.2	.2	-40	8.13	31.23	-	-23.1	0-360	Flat
8	.66075	34.31	Pk	12.2	.2	-40	6.71	31.2	-	-24.49	0-360	90 degs

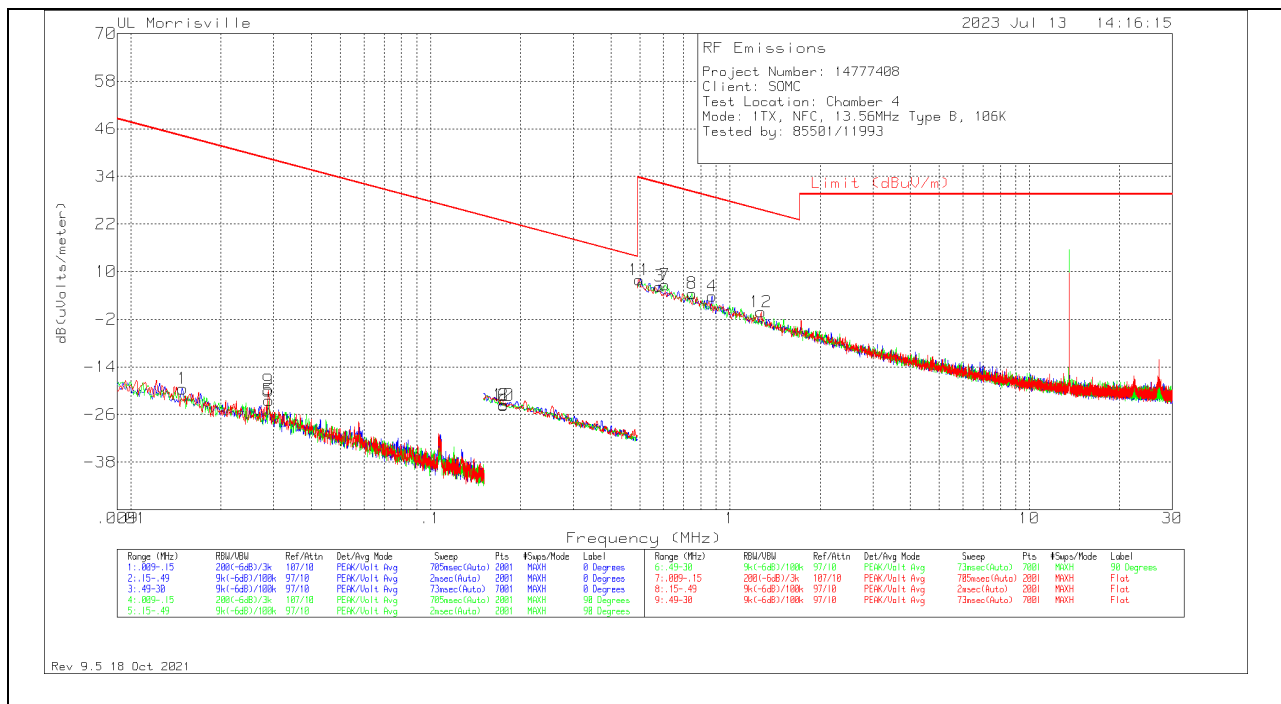
Pk - Peak detector

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*Log (test distance / specification distance).

10.6.1. HARMONICS AND SPURIOUS EMISSIONS – TYPE B, 106Kbps

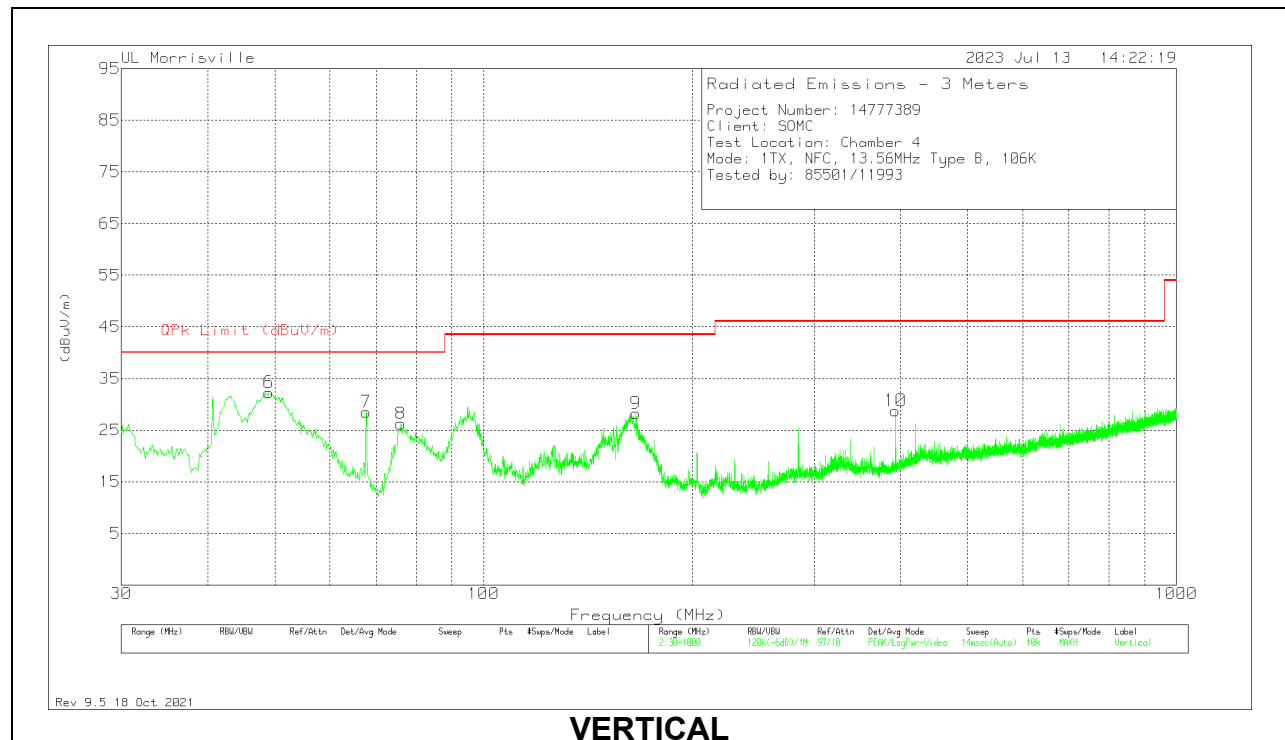
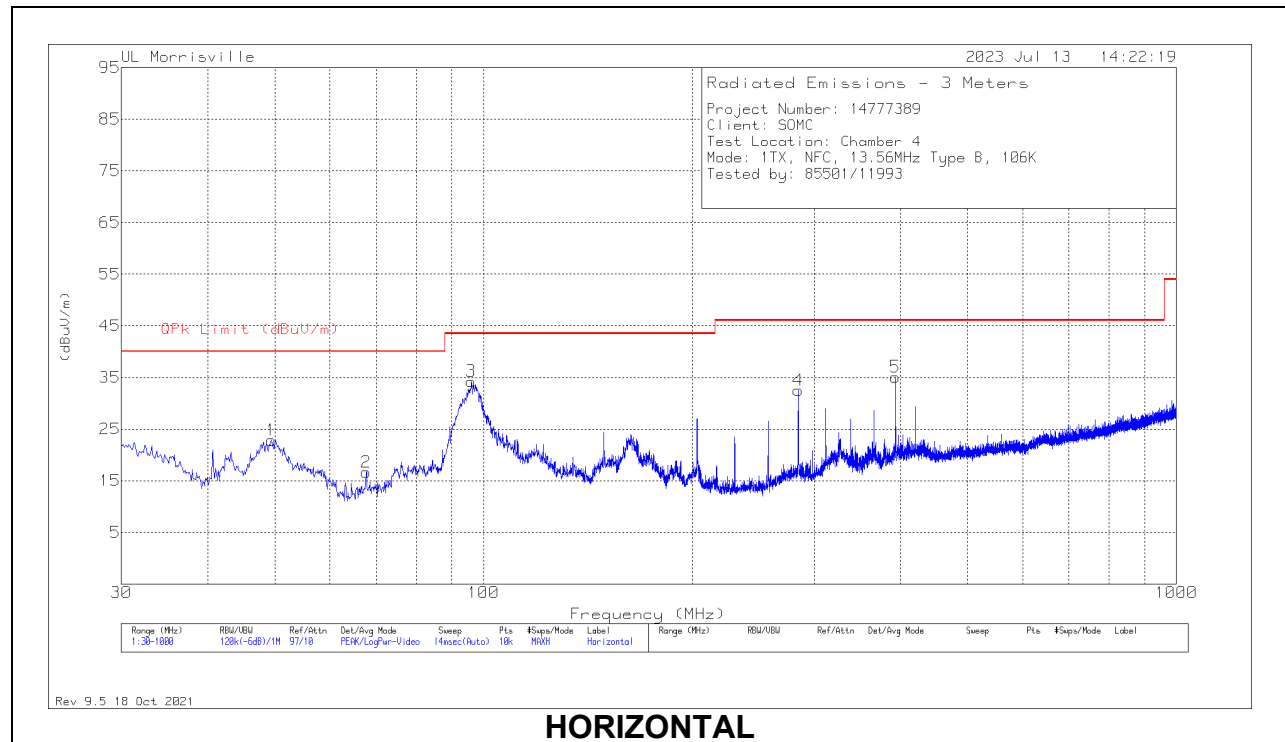
0.009 to 30MHz



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	.01489	43.31	Pk	17.1	.1	-80	-19.49	44.15	64.15	-63.64	0-360	0 degs
9	.02874	45.73	Pk	14.2	.1	-80	-19.97	38.44	58.44	-58.41	0-360	Flat
5	.02888	43.31	Pk	14.2	.1	-80	-22.39	38.39	58.39	-60.78	0-360	90 degs
2	.1755	44.14	Pk	12.2	.1	-80	-23.56	22.72	42.72	-46.28	0-360	0 degs
6	.1755	44.01	Pk	12.2	.1	-80	-23.69	22.72	42.72	-46.41	0-360	90 degs
10	.1755	44	Pk	12.2	.1	-80	-23.7	22.72	42.72	-46.42	0-360	Flat
11	.49843	35.54	Pk	12.2	.2	-40	7.94	33.65	-	-25.71	0-360	Flat
3	.58275	33.86	Pk	12.2	.2	-40	6.26	32.29	-	-26.03	0-360	0 degs
7	.60805	34.26	Pk	12.2	.2	-40	6.66	31.93	-	-25.27	0-360	90 degs
8	.74718	32.11	Pk	12.2	.2	-40	4.51	30.14	-	-25.63	0-360	90 degs
4	.87366	31.4	Pk	12.2	.2	-40	3.8	28.78	-	-24.98	0-360	0 degs
12	1.26996	27.43	Pk	12.2	.2	-40	-.17	25.53	-	-25.7	0-360	Flat

Pk - Peak detector

30 to 1000MHz



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
6	49.012	49.39	Pk	14.4	-31.5	32.29	40	-7.71	0-360	100	V
1	49.4	39.94	Pk	14.3	-31.4	22.84	40	-17.16	0-360	300	H
2	67.799	30.67	Qp	14.3	-31.1	13.87	40	-26.13	257	281	H
7	67.799	44.04	Qp	14.3	-31.1	27.24	40	-12.76	354	107	V
8	75.978	43.05	Pk	14.3	-31.1	26.25	40	-13.75	0-360	100	V
3	96.057	49.05	Pk	16	-30.8	34.25	43.52	-9.27	0-360	200	H
9	165.897	40.26	Pk	18.2	-30.2	28.26	43.52	-15.26	0-360	100	V
4	284.722	42.2	Pk	19.4	-29.1	32.5	46.02	-13.52	0-360	100	H
5	393.265	42.37	Pk	21.3	-28.6	35.07	46.02	-10.95	0-360	100	H
10	393.265	36.05	Pk	21.3	-28.6	28.75	46.02	-17.27	0-360	100	V

Pk - Peak detector

Qp - Quasi-Peak detector

11. SETUP PHOTOS

Refer to R14777408-EP2 for setup photos.

END OF REPORT