TEST REPORT

Report Number: R15374786-E7

Applicant	:	Microsoft Corporation 1 Microsoft Way Redmond, WA 98052-8300, USA
Model	:	HWB-Q93
FCC ID	:	C3K00002101
IC	:	3048A-00002101
EUT Description	:	Wireless Module
Test Standard(s)	:	FCC 47 CFR PART 15 SUBPART C: 2024 FCC 47 CFR PART 15 SUBPART E: 2024 ISED RSS-247 ISSUE 3: 2023 ISED RSS-248 ISSUE 2: 2022 ISED RSS-GEN ISSUE 5 + A1 + A2: 2021

Date Of Issue:
2025-01-08

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ACCREDITED
CERT #0751.06

REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2025-01-08	Initial Review	Charles Moody

UL LLC.
12 Laboratory Dr., RTP, NC 27709; USA TEL: (919) 549-1400

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UL LLC.
12 Laboratory Dr., RTP, NC 27709; USA TEL: (919) 549-1400

1. ATTESTATION OF TEST RESULTS

COMPANY NAME:	Microsoft Corporation 1 Microsoft Way Redmond, WA 98052-8300, USA
EUT DESCRIPTION:	Wireless Module
MODEL:	HWB-Q93
SERIAL NUMBER:	Q93_R03_M2_R04 (13)
SAMPLE RECEIPT DATE:	2024-06-20 TO 2024-12-17
DATE TESTED:	2024-07-05 TO 2025-01-07

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart C: 2024	See Section 2
CFR 47 Part 15 Subpart E: 2024	See Section 2
ISED RSS-247 Issue 3: 2023	See Section 2
ISED RSS-248 Issue 2: 2022	See Section 2
ISED RSS-GEN Issue 5 + A1 + A2: 2021	See 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.

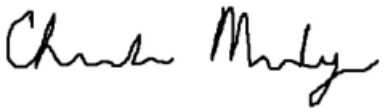
The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. 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
Senior Staff Engineer
Consumer, Medical and IT Segment
UL LLC

Prepared By:



Charles Moody
Senior Project Engineer
Consumer, Medical and IT Segment
UL LLC

2. TEST RESULTS SUMMARY

This report contains data 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 provided by the customer:

1. Antenna gain and type (see section 6.3)

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	ANSI C63.10 Section 11.6.
15.209, 15.205, 15.407 (b)	RSS-GEN 8.9, 8.10, RSS-247 6.2, RSS-248 4.6	Radiated Emissions	See Comment	Refer to Note.

Note: The purpose of this report is to show compliance of radios while simultaneously transmitting. These scans were found to be compliant.

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 v05r02, KDB 662911 D01 v02r01, KDB 789033 D02 v02r01, RSS-GEN Issue 5 + A1 + A2, RSS-247 Issue 3, RSS-248 Issue 2.

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	UNCERTAINTY
Radio Frequency (Spectrum Analyzer)	141.2 Hz
All emissions, radiated	6.01 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:
Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a Radio Module with BT, BLE, 2.4 GHz WLAN, 5 GHz WLAN, and 6 GHz WLAN. This report covers the simultaneous transmission of these various radios.

6.2. MAXIMUM OUTPUT POWER

The purpose of this report is to show compliance of radios while simultaneously transmitting. Therefore, power measurements are not covered in this report. For the samples used for this test program, it's the responsibility of the applicant to ensure that the EUT yields the same power levels as recorded in the certification reports of each radio. The power levels of the BT, BLE, 2.4/5/6 WLAN radios were measured by the lab and maximum power levels can be found in the following UL reports:

- R15374786-E1 FCC ISED 2.4 WLAN REPORT
- R15374786-E2 FCC ISED BLE REPORT
- R15374786-E3 FCC ISED BT REPORT
- R15374786-E4 FCC ISED 6GHz REPORT
- R15374786-E5 FCC ISED 5.2-5.9 WLAN REPORT

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna(s) gain and type, as provided by the manufacturer' are as follows:

Low Gain Antenna:

Chain	Frequency (MHz)	Gain (dBi)	Type
BT/BLE/2.4 WLAN C0	2400-2483.5	3.6	PIFA
BT/BLE/2.4 WLAN C1		3.6	
BT/BLE/2.4 WLAN (Uncorrelated)		3.6	
BT/BLE/2.4 WLAN (Correlated)		6.61	
5 WLAN C0	5150-5895	5.2	
5 WLAN C1		5.2	
5 WLAN (Uncorrelated)		5.2	
5 WLAN (Correlated)		8.21	
6 WLAN C0	5925-7125	5.2	
6 WLAN C1		5.2	
6 WLAN (Uncorrelated)		5.2	
6 WLAN (Correlated)		8.21	

Mid Gain Antenna:

Chain	Frequency (MHz)	Gain (dBi)	Type
BT/BLE/2.4 WLAN C0	2400-2483.5	4.4	PIFA
BT/BLE/2.4 WLAN C1		4.4	
BT/BLE/2.4 WLAN (Uncorrelated)		4.4	
BT/BLE/2.4 WLAN (Correlated)		7.41	
5 WLAN C0	5150-5895	7.3	
5 WLAN C1		7.3	
5 WLAN (Uncorrelated)		7.3	
5 WLAN (Correlated)		10.31	
6 WLAN C0	5925-7125	7.3	
6 WLAN C1		7.3	
6 WLAN (Uncorrelated)		7.3	
6 WLAN (Correlated)		10.31	

High Gain Antenna:

Chain	Frequency (MHz)	Gain (dBi)	Type
BT/BLE/2.4 WLAN C0	2400-2483.5	6.1	PIFA
BT/BLE/2.4 WLAN C1		6.1	
BT/BLE/2.4 WLAN (Uncorrelated)		6.1	
BT/BLE/2.4 WLAN (Correlated)		9.11	
5 WLAN C0	5150-5895	8.66	
5 WLAN C1		8.66	
5 WLAN (Uncorrelated)		8.66	
5 WLAN (Correlated)		11.67	
6 WLAN C0	5925-6525	8.6	
6 WLAN C1		8.6	
6 WLAN (Uncorrelated)		8.6	
6 WLAN (Correlated)		11.61	
6 WLAN C0	6525-7125	8.2	
6 WLAN C1		8.2	
6 WLAN (Uncorrelated)		8.2	
6 WLAN (Correlated)		11.21	

For this report, correlated gain was used in the bandedge calculations. The correlated and uncorrelated gains were calculated using the following example for 2.4 GHz High Gain:

When two antenna gains are equal in the same band, the uncorrelated gain is equal to the per chain gain (6.1 dBi). The correlated gain is calculated using Ant Gain + 10log(number of antennas) = 6.1 + 10log(2) = 9.11 dBi.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was 10.0.22621.1.
The test utility software used during testing was Qualcomm Radio Control Toolkit Version 4.0.118.1.

6.5. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated in all three orthogonal orientations for each of the individual radios. It was found for the 2.4 GHz radios, the worst-case orientation was Z. The 5 GHz WLAN radio was found to be worst-case in Y-orientation. The worst-case orientation for the 6GHz WLAN radio was found to be in X-orientation. For testing, the antenna that was set to transmit each radio, was configured to its corresponding radio's worst-case orientation.

All of the 1-18 GHz harmonic and spurious emissions testing was performed using the high gain antennas at low gain power setting as a worst-case test configuration.

The following scans were performed for simultaneous transmission based on the worst-case data from the manufacturer's report:

1-18 GHz Harmonics and Spurious Emissions:

Chain 0 Mode	Chain 1 Mode	Scan Number
BLE 1Mbps, 2478 MHz, PL11, SISO C0	2.4 WLAN, EHT20 26T RU8, 2472 MHz, Pset18.5, SISO C1	1
2.4 WLAN, EHT20 26T RU8, 2472 MHz, Pset18.5, SISO C0	BT Classic, GFSK, 2478 MHz, Pset11, SISO C1	2
2.4 WLAN, EHT20 242T, 2462 MHz, Pset18.5, SISO C0	5 WLAN, 11a, 5745 MHz, Pset21, SISO C1	3
5 WLAN, 11a, 5745 MHz, Pset21, SISO C0	2.4 WLAN, EHT20 242T, 2462 MHz, Pset18.5, SISO C1	4
2.4 WLAN, EHT20 242T, 2437 MHz, Pset18.5, SISO C0	6 WLAN, EHT20 242T, 6095 MHz, Pset12, SISO C1	5
6 WLAN, EHT20 242T, 6095 MHz, Pset12, SISO C0	2.4 WLAN, EHT20 242T, 2437 MHz, Pset18.5, SISO C1	6
BT Classic, GFSK, 2462 MHz, Pset11, SISO C0	5 WLAN, 11a, 5745 MHz, Pset21, SISO C1	7
5 WLAN, 11a, 5745 MHz, Pset21, SISO C0	BT Classic, GFSK, 2462 MHz, Pset11, SISO C1	8
BLE, 1Mbps, 2438 MHz, PL11, SISO C0	6 WLAN, EHT20 52T RU37, 6095 MHz, Pset12, SISO C1	9
6 WLAN, EHT20 52T RU37, 6095 MHz, Pset12, SISO C0	BLE, 2Mbps, 2438 MHz, PL11, SISO C1	10

Band Edge:

Chain 0 Mode	Chain 1 Mode	Scan Number
2.4 WLAN, EHT20 242T, 2457 MHz, Pset14.5, SISO C0	BT Classic, GFSK, 2478 MHz, Pset11, SISO C1	11
BT Classic, GFSK, 2478 MHz, Pset11, SISO C0	2.4 WLAN, EHT20 242T, 2457 MHz, Pset14.5, SISO C1	12

6.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
NUC	Intel	NuC	XXXX	N/A
Intel NUC Charger	Chicony Power Technology	A17-120P2A	0432-05LT1002333012523	NA

I/O CABLES

I/O Cable List						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	Ribbon	1	Ribbon	Unshielded	<3m	Connects EUT to NUC
2	DC Mains	1	Barrel	Unshielded	<3m	Connects NUC to DC Adaptor

TEST SETUP

Test software exercised the radio card.

SETUP DIAGRAMS

For all setup diagrams and setup photos, refer to UL report R15374786-EP1

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:
Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 1)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
135143	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2024-02-07	2026-02-07
91979	Gain-loss string: 1-18GHz	Various	Various	2024-05-08	2025-05-08
	Receiver & Software				
206496	Spectrum Analyzer	Rohde & Schwarz	ESW44	2024-08-29	2025-08-29
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241205	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05
88777 (HPF010)	3GHz high-pass filter, 2W, Fhigh =18GHz	Micro-Tronics	HPM17543	2024-03-01	2025-03-01
216159 (HPF019)	7GHz high-pass filter, 2W, Fhigh =18GHz	Micro-Tronics	HPM50107	2024-03-01	2025-03-01

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

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	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				
207640	Gain-loss string: 1-18GHz	Various	Various	2024-05-22	2025-05-22
	Receiver & Software				
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2024-04-16	2025-04-16
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241204	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05
241848	10dB Pad, DC-18GHz, 5W	Mini-Circuits	BW-N10W5+	2023-11-09	2025-11-09

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	Conducted Room 1				
90416	Spectrum Analyzer	Keysight Technologies	N9030A	2024-09-23	2025-09-23
90411	Spectrum Analyzer	Keysight Technologies	N9030A	2024-08-01	2025-08-01
179892	Environmental Meter	Fisher Scientific	15-077-963	2024-08-12	2025-08-12
SOFTEMI	Antenna Port Software	UL	Version 2024.2.23	NA	NA
	Conducted Room 2				
90410	Spectrum Analyzer	Keysight Technologies	N9030A	2024-06-14	2025-06-14
248881	Environmental Meter	Control Company	06-662-4	2024-04-10	2026-04-10
214284	Spectrum Analyzer	Rohde & Schwarz	FSW	2024-02-04	2025-02-04
SOFTEMI	Antenna Port Software	UL	Version 2024.2.23	NA	NA

8. DUTY CYCLE

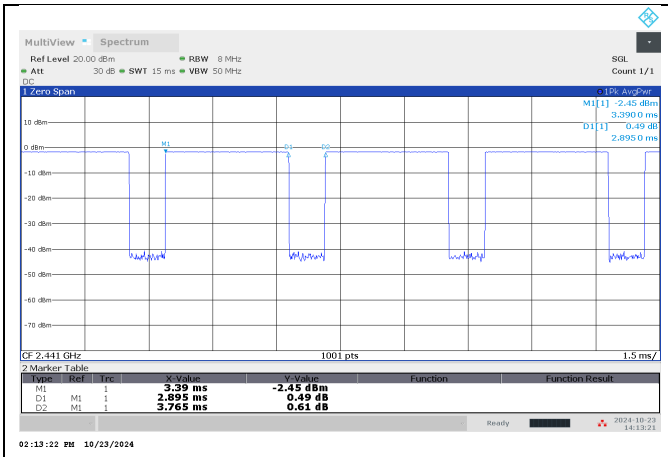
LIMITS

None; for reporting purposes only.

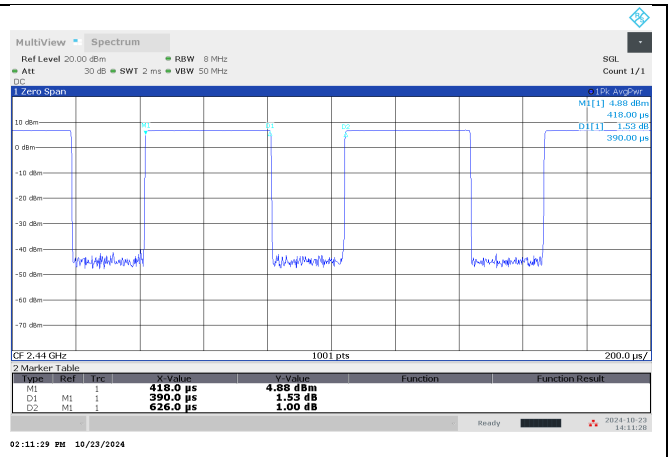
PROCEDURE

ANSI C63.10 Section 11.6

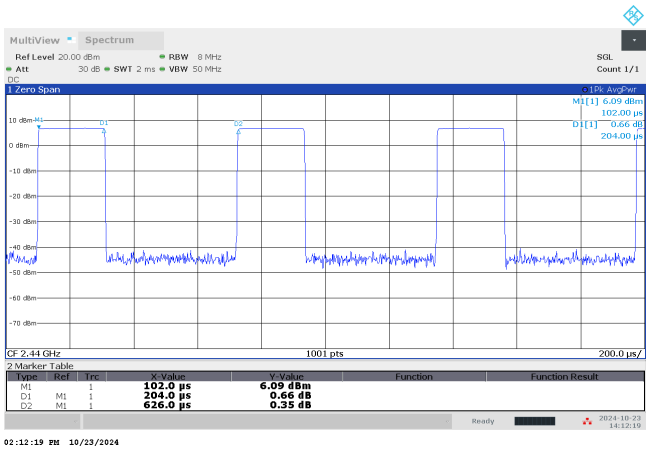
Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor RMS (dB)	Duty Cycle Correction Factor Linear (dB)	1/B Minimum VBW (kHz)
BT, GFSK	2.895	3.765	0.7689	76.89%	2.28	2.28	0.345
BLE 1Mbps	0.390	0.626	0.6230	62.30%	2.06	4.11	2.564
BLE 2Mbps	0.204	0.626	0.3259	32.59%	4.87	9.74	4.902
2.4 WLAN EHT20 26T	5.087	5.112	0.9951	99.51%	0.00	0.00	0.010
2.4 WLAN EHT20 242T	4.669	4.694	0.9947	99.47%	0.00	0.00	0.010
5 WLAN 11a	2.096	2.115	0.9910	99.10%	0.00	0.00	0.010
6 WLAN EHT20 52T	5.075	5.095	0.9961	99.61%	0.00	0.00	0.010
6 WLAN EHT20 242T	4.667	4.685	0.9962	99.62%	0.00	0.00	0.010



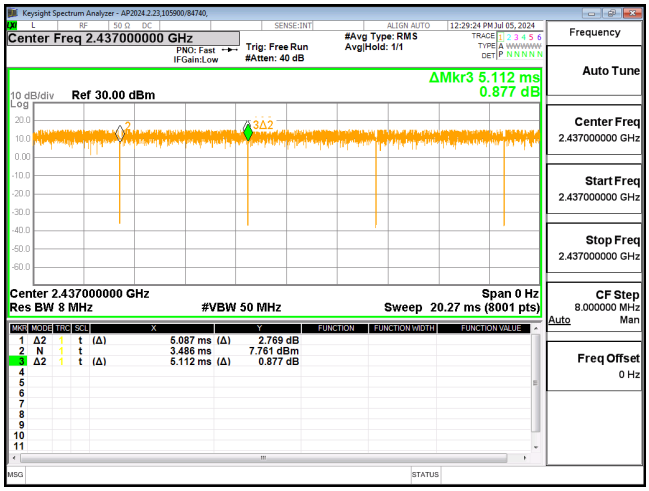
DUTY CYCLE, BT, GFSK



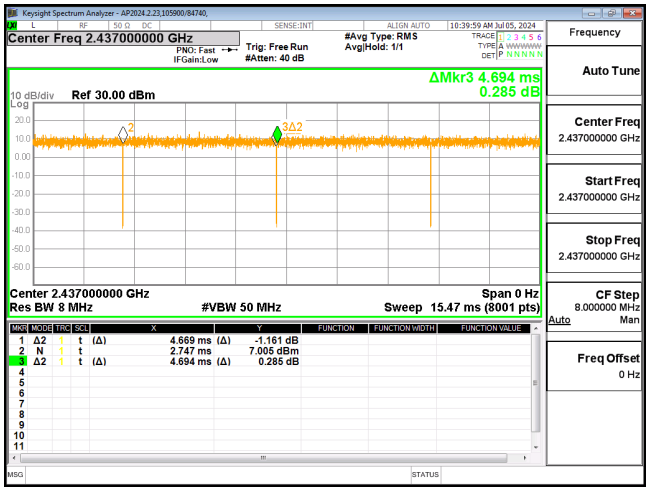
DUTY CYCLE, BLE, 1Mbps



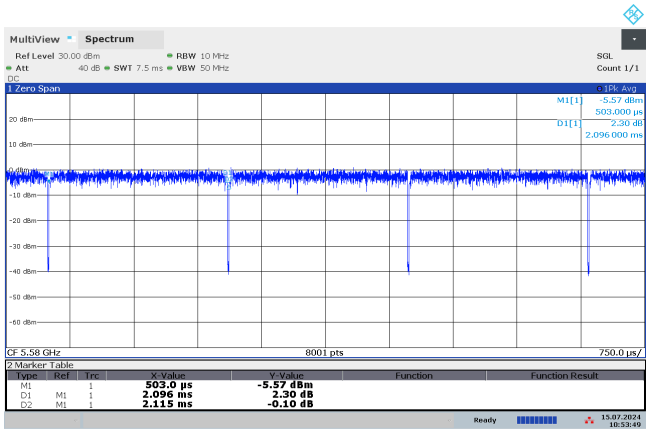
DUTY CYCLE, BLE, 2Mbps



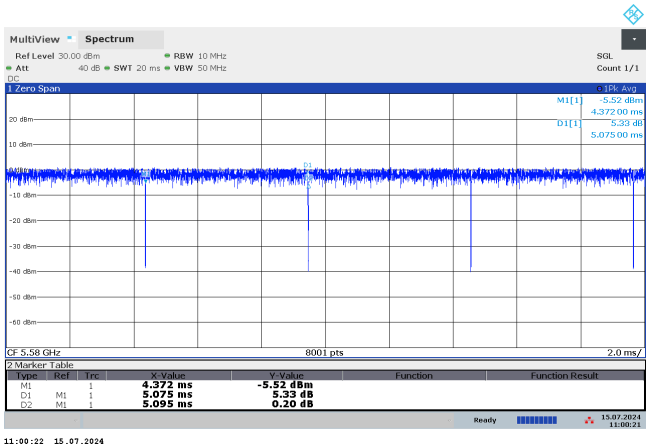
DUTY CYCLE, 2.4 WLAN, 26T



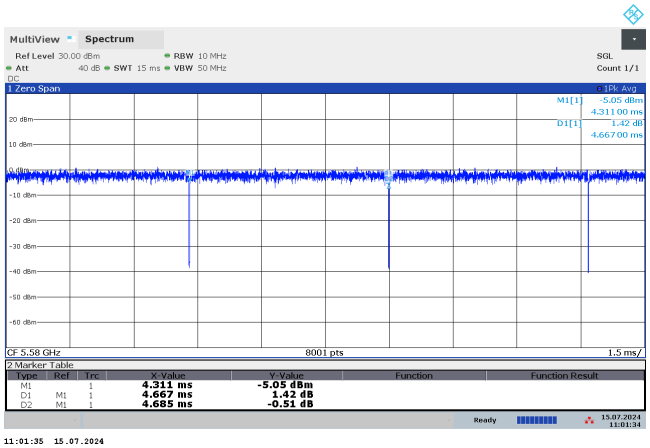
DUTY CYCLE, 2.4 WLAN, 242T



DUTY CYCLE, 5 WLAN, 11a



DUTY CYCLE, 6 WLAN, EHT20 52T



DUTY CYCLE, 6 WLAN, EHT20 242T

9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209
FCC §15.407 (b)(1-6)
RSS-GEN, Section 8.9 and 8.10
RSS-248 4.6.2 (a)
RSS-247 Issue 3 Sections:
6.2.1.2 (for 5150-5250 MHz band)
6.2.2.2 (for 5250-5350 MHz band)
6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)
6.2.4.2 (for 5725-5850 MHz bands)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
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. 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 pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements.

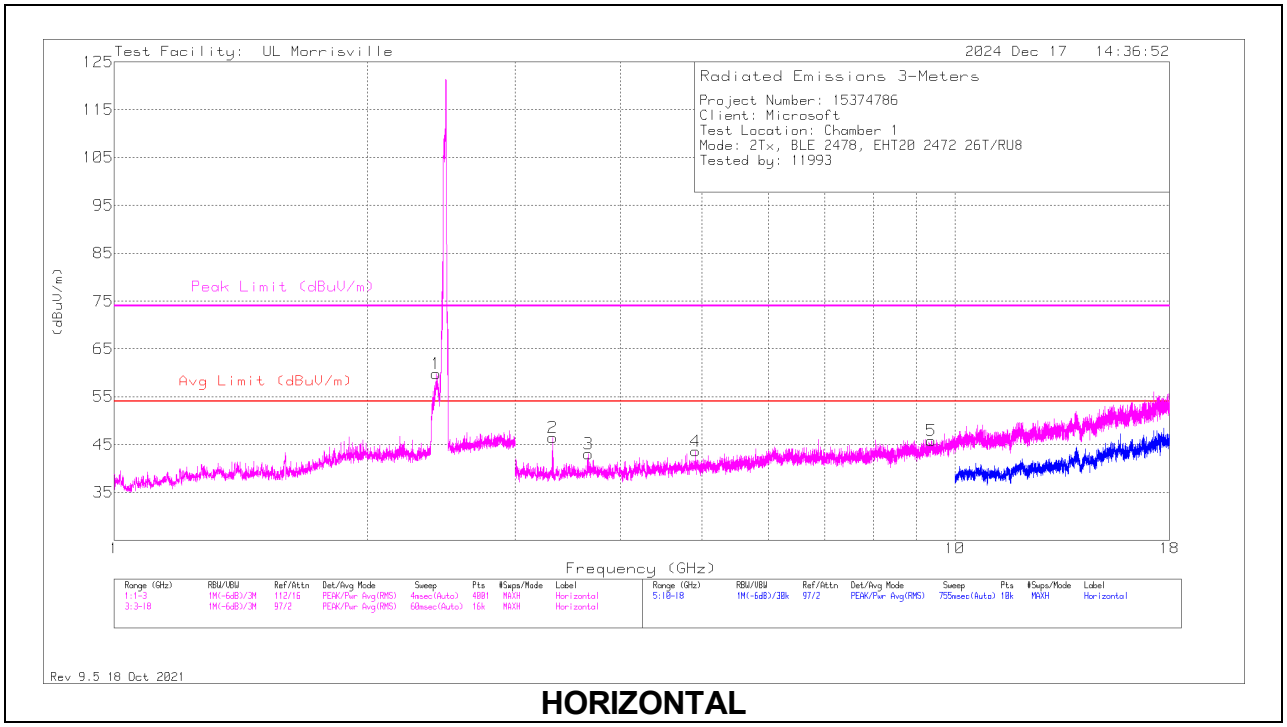
For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements. Linear voltage averaging was used.

The spectrum from 1 GHz to 18 GHz is investigated with the various radios set to their worst-case operational modes. The scans performed were detailed in section 6.5.

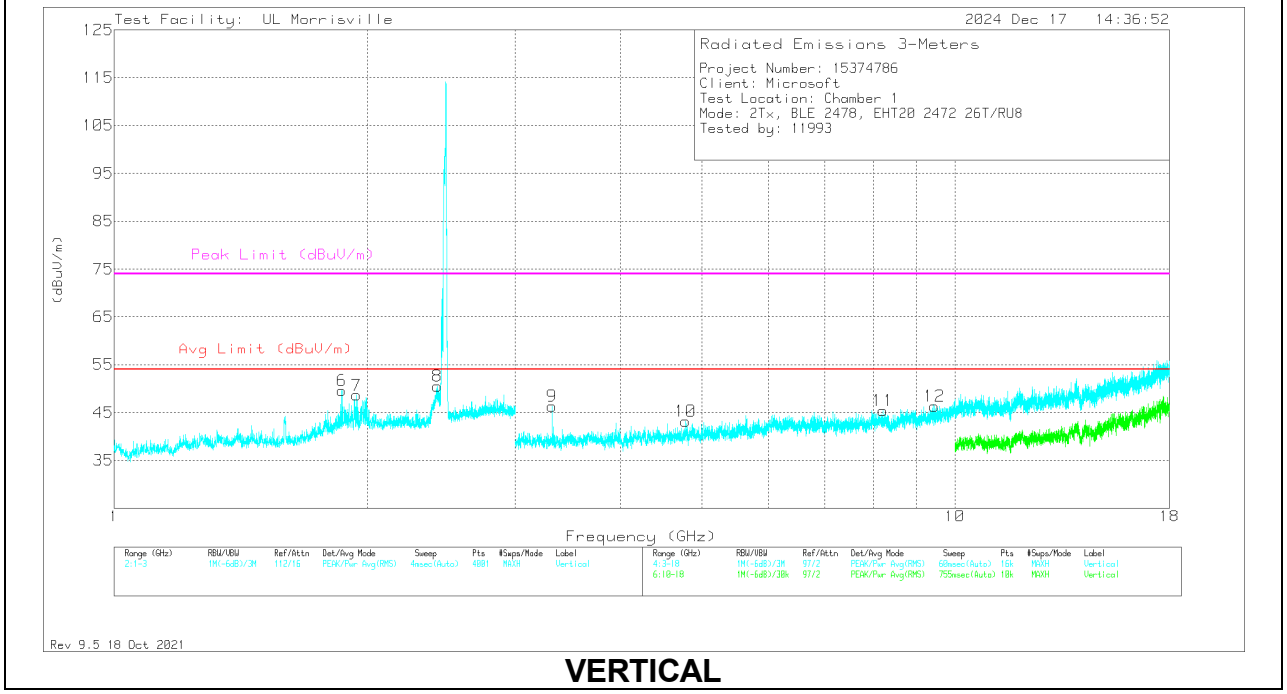
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. HARMONICS AND SPURIOUS EMISSIONS (Scan 1)



HORIZONTAL



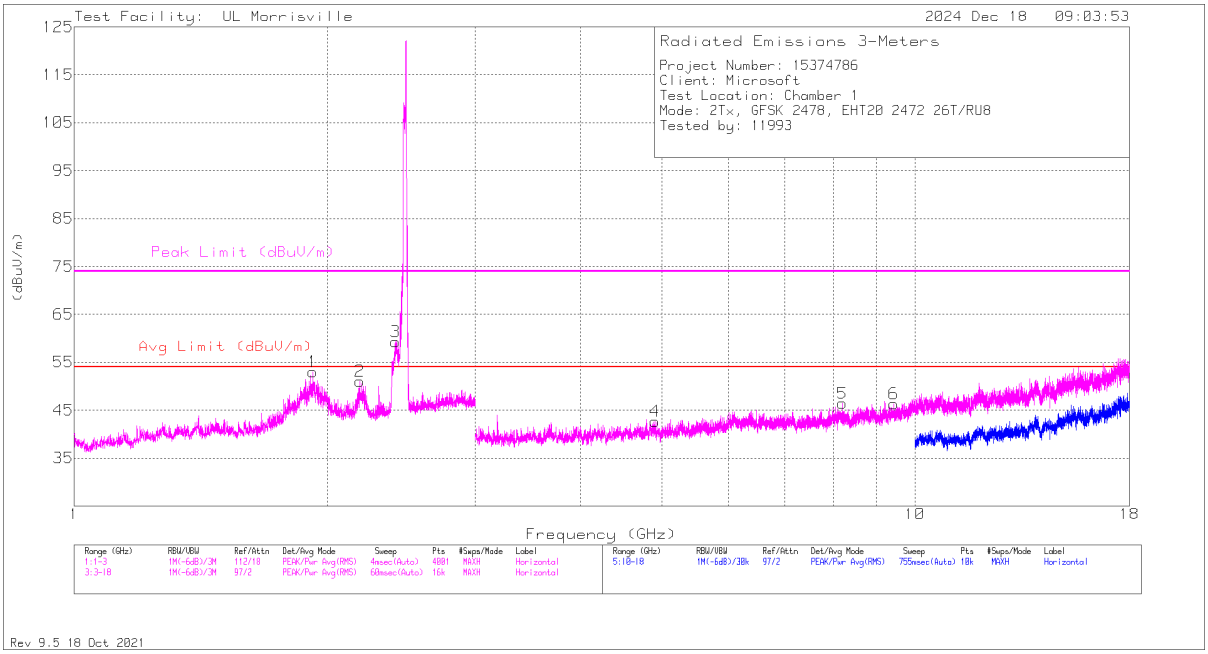
VERTICAL

RADIATED EMISSIONS

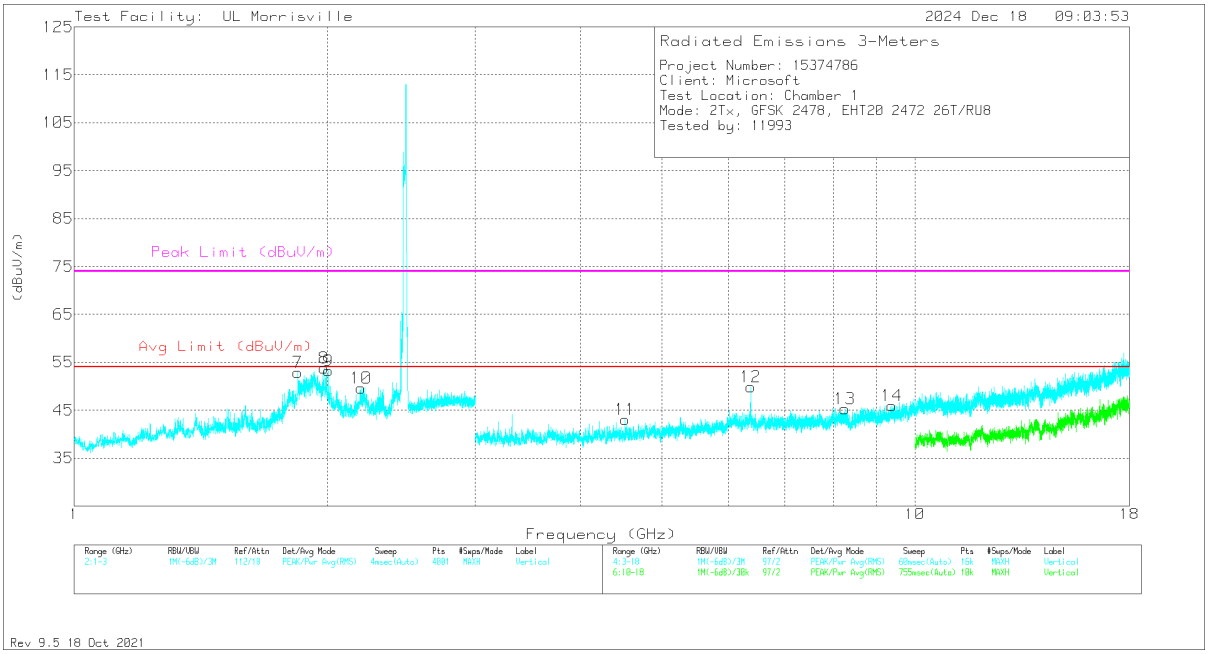
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	** 1.8663	50.62	PK2	31.1	-24.3	0	57.42	-	-	74	-16.58	245	227	V
	** 1.86748	26.2	ADV	31.1	-24.3	4.11	37.11	54	-16.89	-	-	245	227	V
7	** 1.93974	46.67	PK2	31.4	-24.2	0	53.87	-	-	74	-20.13	9	336	V
	** 1.94076	26.15	ADV	31.4	-24.3	4.11	37.36	54	-16.64	-	-	9	336	V
3	* ** 3.66281	53.7	Pk	33.1	-43.7	0	43.1	54	-10.9	74	-30.9	0-360	101	H
4	* ** 4.91344	54.64	Pk	34.1	-45.1	0	43.64	54	-10.36	74	-30.36	0-360	200	H
5	* ** 9.37594	49.95	Pk	36.2	-40.3	0	45.85	54	-8.15	74	-28.15	0-360	200	H
10	* ** 4.785	54.33	Pk	33.8	-44.9	0	43.23	54	-10.77	74	-30.77	0-360	200	V
11	* ** 8.21344	50.41	Pk	35.9	-40.9	0	45.41	54	-8.59	74	-28.59	0-360	200	V
12	* ** 9.45844	50.71	Pk	36.4	-40.8	0	46.31	54	-7.69	74	-27.69	0-360	101	V
1	2.415	52.01	Pk	32	-24.2	0	59.81	-	-	-	-	0-360	101	H
8	2.4225	42.59	Pk	32	-24.1	0	50.49	-	-	-	-	0-360	101	V
9	3.31781	57.5	Pk	32.8	-44	0	46.3	-	-	-	-	0-360	101	V
2	3.32531	57.75	Pk	32.8	-44.1	0	46.45	-	-	-	-	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

9.1.2. HARMONICS AND SPURIOUS EMISSIONS (Scan 2)



HORIZONTAL



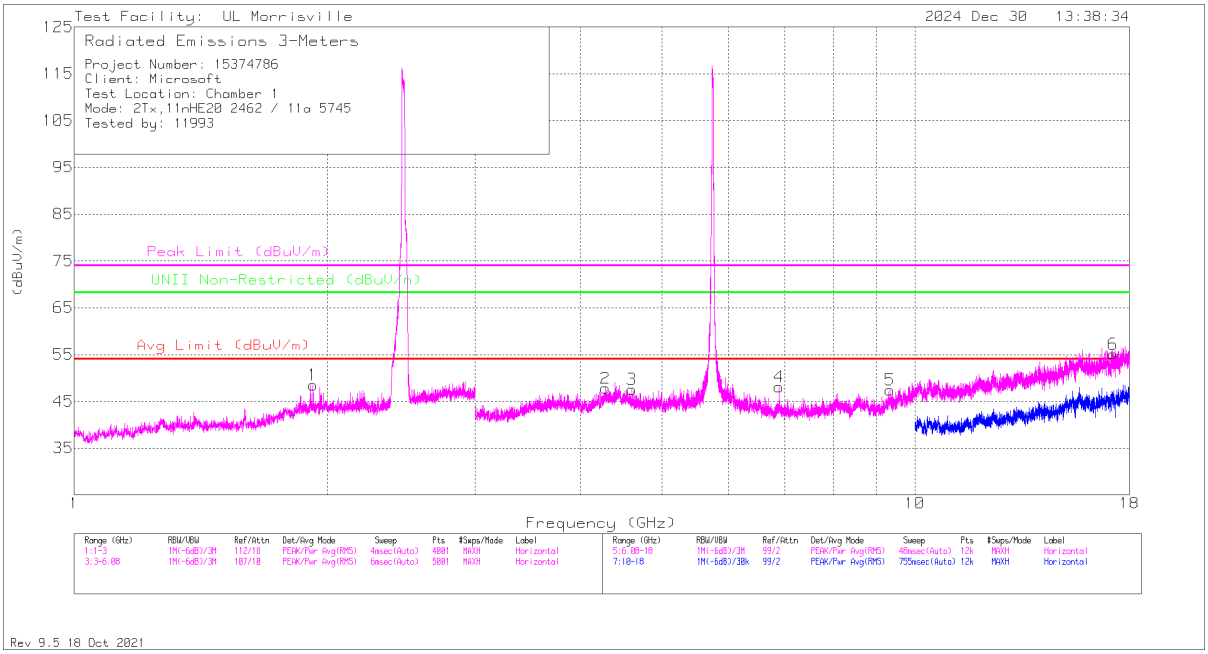
VERTICAL

RADIATED EMISSIONS

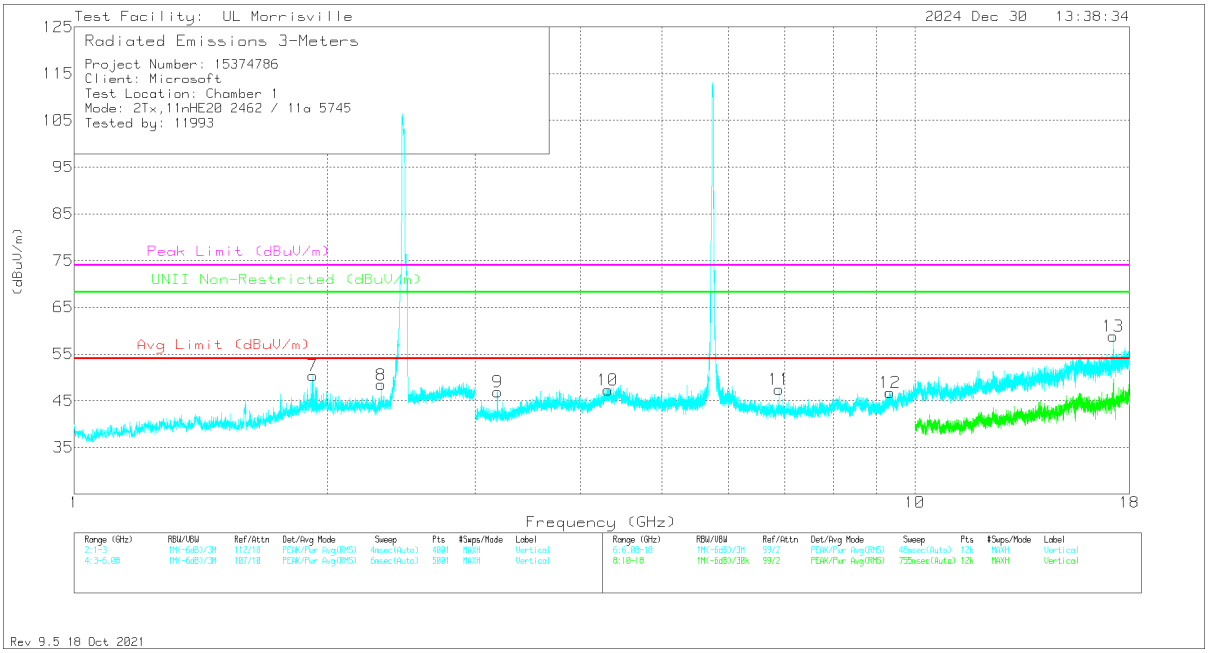
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 1.92395	46.81	PK2	31.4	-24.4	53.81	-	-	74	-20.19	112	108	H
	** 1.92429	29.14	V1TV	31.4	-24.4	36.14	54	-17.86	-	-	112	108	H
7	** 1.84511	45.15	PK2	30.8	-24	51.95	-	-	74	-22.05	225	199	V
	** 1.84333	27.35	V1TV	30.8	-24	34.15	54	-19.85	-	-	225	199	V
8	** 1.98375	46.69	PK2	31.7	-24.2	54.19	-	-	74	-19.81	219	232	V
	** 1.983	28.77	V1TV	31.7	-24.2	36.27	54	-17.73	-	-	219	232	V
4	* ** 4.90781	53.53	Pk	34.1	-45	42.63	54	-11.37	74	-31.37	0-360	101	H
5	* ** 8.19563	51.3	Pk	35.9	-40.8	46.4	54	-7.6	74	-27.6	0-360	101	H
6	* ** 9.44063	50.48	Pk	36.3	-40.4	46.38	54	-7.62	74	-27.62	0-360	101	H
11	* ** 4.52344	55.17	Pk	33.9	-46	43.07	54	-10.93	74	-30.93	0-360	200	V
13	* ** 8.25375	50.23	Pk	35.9	-40.8	45.33	54	-8.67	74	-28.67	0-360	200	V
14	* ** 9.39375	49.68	Pk	36.3	-40	45.98	54	-8.02	74	-28.02	0-360	200	V
9	2.0075	46.01	Pk	31.7	-24.5	53.21	-	-	-	-	0-360	200	V
2	2.1875	43.61	Pk	31.5	-24.1	51.01	-	-	-	-	0-360	101	H
10	2.1935	42.06	Pk	31.5	-24	49.56	-	-	-	-	0-360	200	V
3	2.4095	51.83	Pk	32	-24.5	59.33	-	-	-	-	0-360	101	H
12	6.37688	56.75	Pk	35.7	-42.6	49.85	-	-	-	-	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

9.1.3. HARMONICS AND SPURIOUS EMISSIONS (Scan 3)



HORIZONTAL



VERTICAL

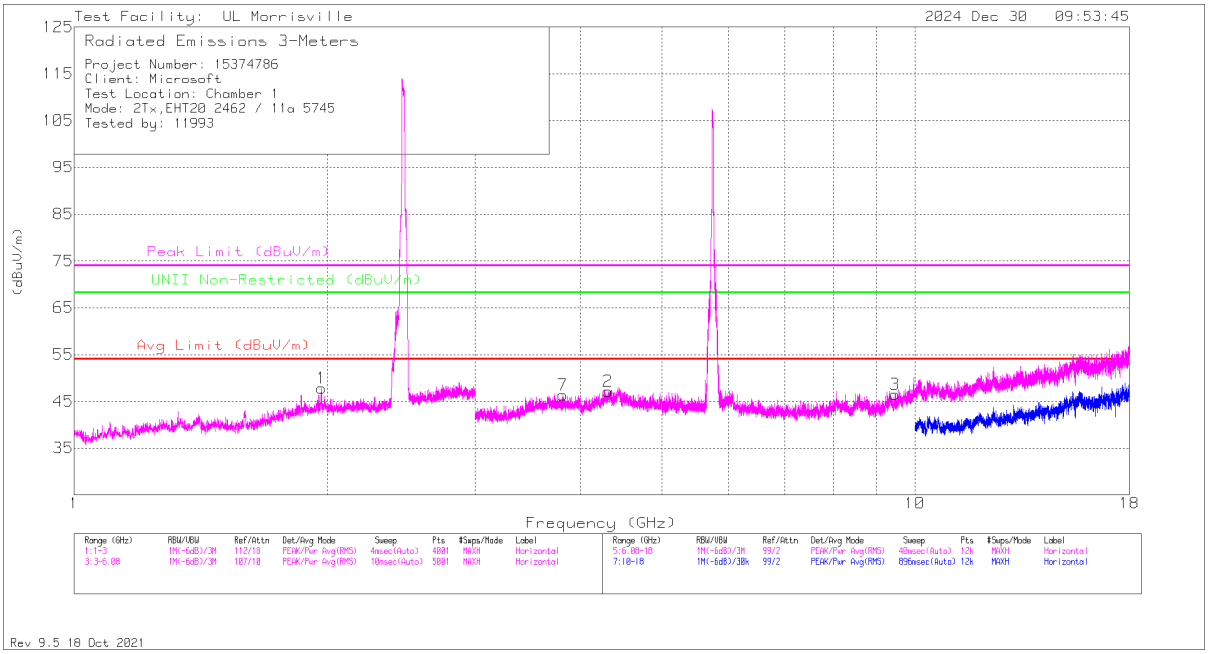
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Filter (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	** 1.92475	42.3	PK-U	31.4	-24.4	0	49.3	-	-	74	-24.7	68.2	-18.9	324	346	H
	** 1.92526	27.21	ADV	31.4	-24.4	0	34.21	54	-19.79	-	-	-	-	324	346	H
7	** 1.92527	45.3	PK-U	31.4	-24.4	0	52.3	-	-	74	-21.7	68.2	-15.9	235	197	V
	** 1.92539	26.8	ADV	31.4	-24.4	0	33.8	54	-20.2	-	-	-	-	235	197	V
8	* ** 2.31791	43.26	PK-U	31.7	-24.3	0	50.66	-	-	74	-23.34	68.2	-17.54	125	159	V
	* ** 2.31987	27.41	ADV	31.7	-24.3	0	34.81	54	-19.19	-	-	-	-	125	159	V
2	* ** 4.28313	33.48	Pk	33.7	-20.3	.9	47.78	54	-6.22	74	-26.22	68.2	-20.42	0-360	101	H
3	* ** 4.60406	34.23	Pk	33.9	-21.2	.6	47.53	54	-6.47	74	-26.47	68.2	-20.67	0-360	199	H
10	* ** 4.31146	33.42	Pk	33.7	-20.7	.9	47.32	54	-6.68	74	-26.68	68.2	-20.88	0-360	101	V
5	* ** 9.34906	50.49	Pk	36.2	-39.8	.5	47.39	54	-6.61	74	-26.61	68.2	-20.81	0-360	101	H
12	* ** 9.34111	49.65	Pk	36.2	-39.7	.6	46.75	54	-7.25	74	-27.25	68.2	-21.45	0-360	200	V
9	3.18726	35.84	Pk	32.6	-22.4	.9	46.94	-	-	-	-	68.2	-21.26	0-360	200	V
4	6.89354	54.72	Pk	35.5	-42.6	.5	48.12	-	-	-	-	68.2	-20.08	0-360	101	H
11	6.89354	54.04	Pk	35.5	-42.6	.5	47.44	-	-	-	-	68.2	-20.76	0-360	101	V
6	17.2242	48.23	Pk	41.2	-35.2	.9	55.13	-	-	-	-	68.2	-13.07	0-360	101	H
13	17.2242	51.95	Pk	41.2	-35.2	.9	58.85	-	-	-	-	68.2	-9.35	0-360	200	V

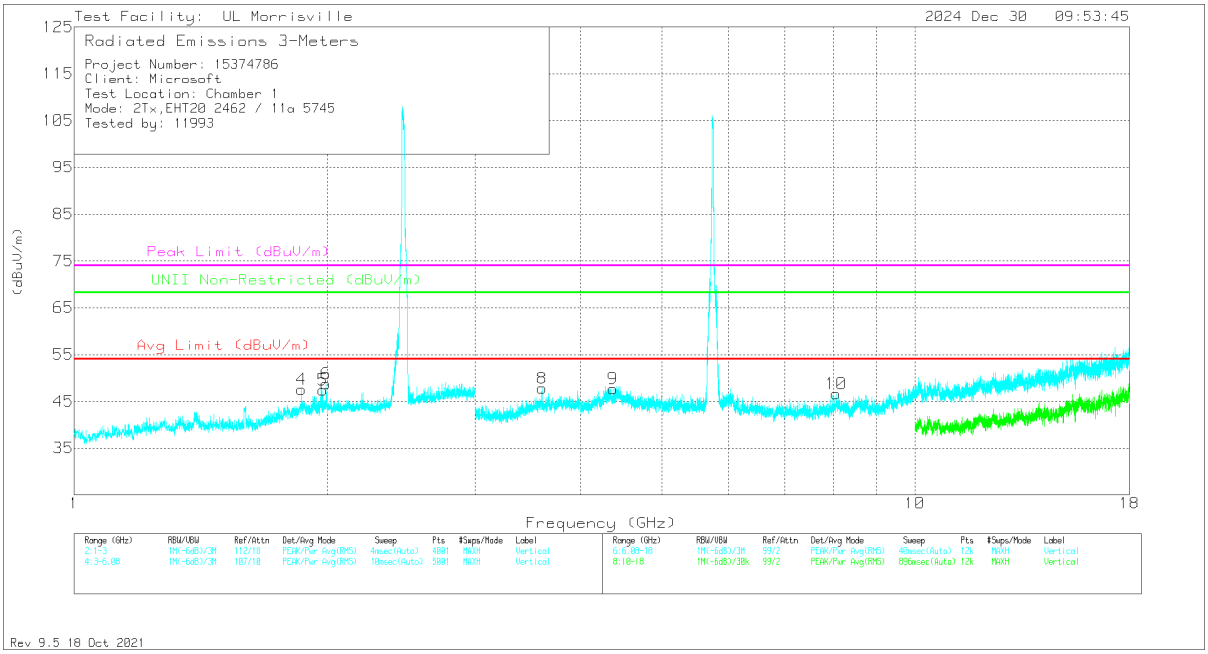
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
PK-U - Maximum Peak
ADV - Linear Voltage Average

NOTE: This mode was 11be not 11ax. This is incorrect in the title block.

9.1.4. HARMONICS AND SPURIOUS EMISSIONS (Scan 4)



HORIZONTAL



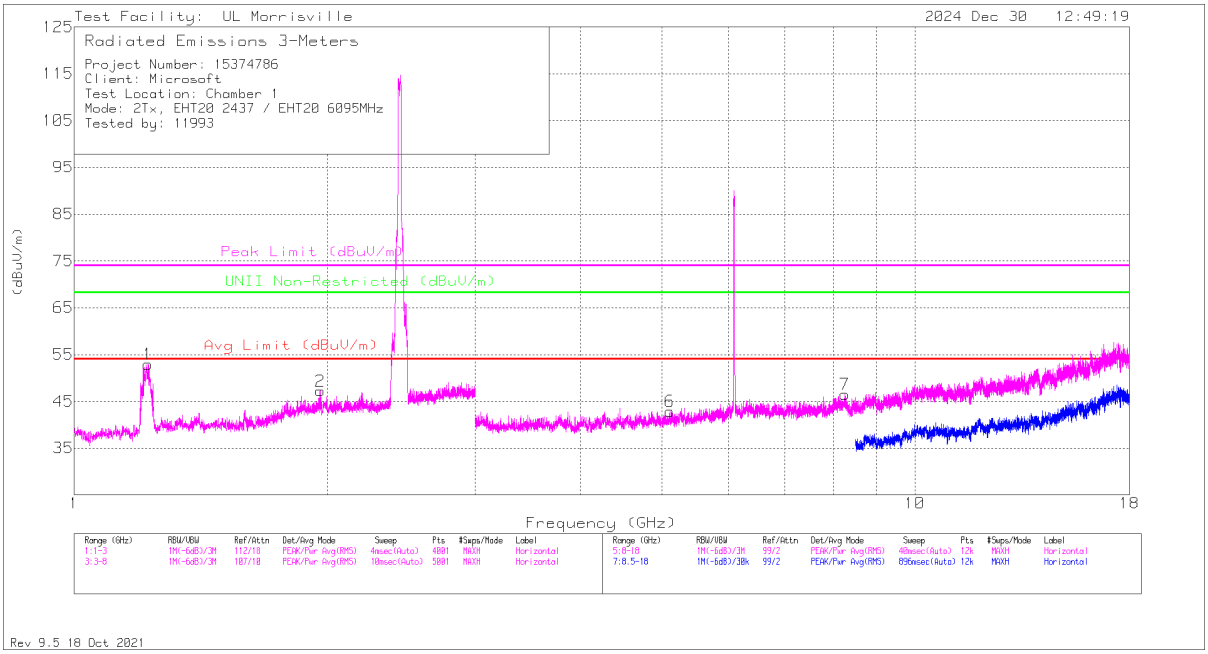
VERTICAL

RADIATED EMISSIONS

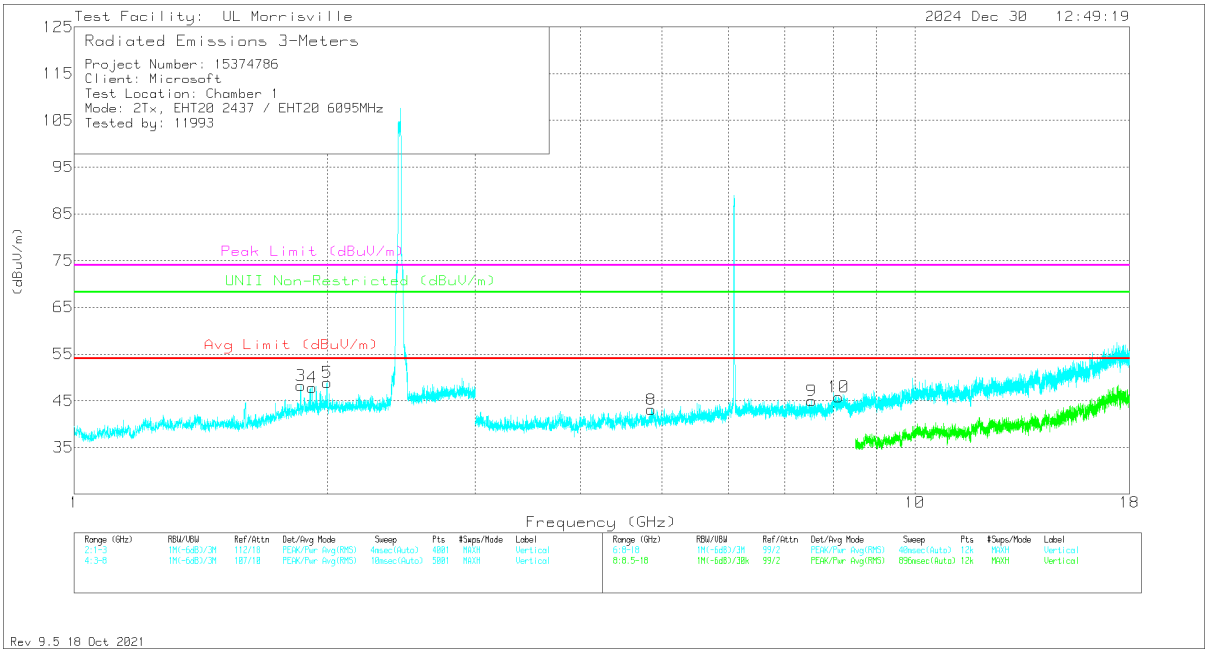
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 1.9685	40.72	Pk	31.6	-24.5	0	47.82	54	-6.18	74	-26.18	68.2	-20.38	0-360	199	H
4	** 1.8635	40.92	Pk	31	-24.3	0	47.62	54	-6.38	74	-26.38	68.2	-20.58	0-360	200	V
5	** 1.9745	40.39	Pk	31.6	-24.5	0	47.49	54	-6.51	74	-26.51	68.2	-20.71	0-360	200	V
2	* ** 4.31331	33.29	Pk	33.7	-20.7	.9	47.19	54	-6.81	74	-26.81	68.2	-21.01	0-360	101	H
7	* ** 3.81127	32.72	Pk	33.1	-20.1	.6	46.32	54	-7.68	74	-27.68	68.2	-21.88	0-360	101	H
8	* ** 3.6006	34.68	Pk	33.1	-20.8	.8	47.78	54	-6.22	74	-26.22	68.2	-20.42	0-360	101	V
9	* ** 4.3743	33.87	Pk	33.8	-20.4	.4	47.67	54	-6.33	74	-26.33	68.2	-20.53	0-360	101	V
3	* ** 9.47025	50.74	Pk	36.4	-41.3	.7	46.54	54	-7.46	74	-27.46	68.2	-21.66	0-360	199	H
10	* ** 8.05971	50.28	Pk	35.9	-40.3	.7	46.58	54	-7.42	74	-27.42	68.2	-21.62	0-360	200	V
6	1.994	41.18	Pk	31.7	-24.1	0	48.78	-	-	-	-	68.2	-19.42	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

9.1.5. HARMONICS AND SPURIOUS EMISSIONS (Scan 5)



HORIZONTAL



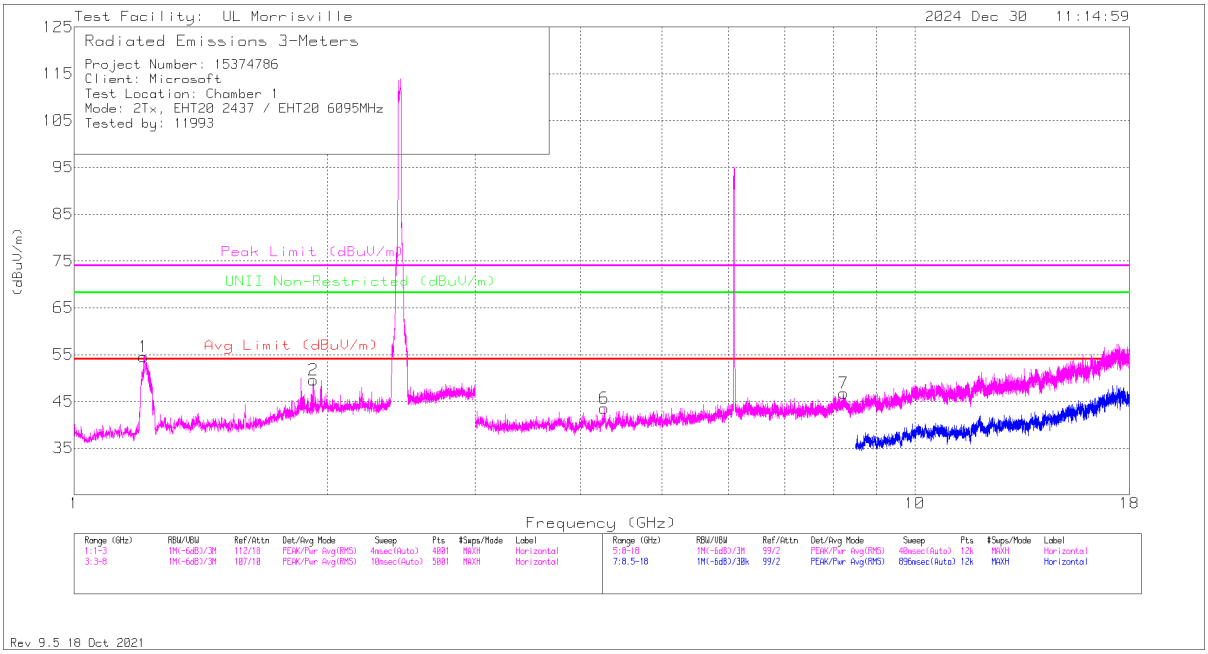
VERTICAL

RADIATED EMISSIONS

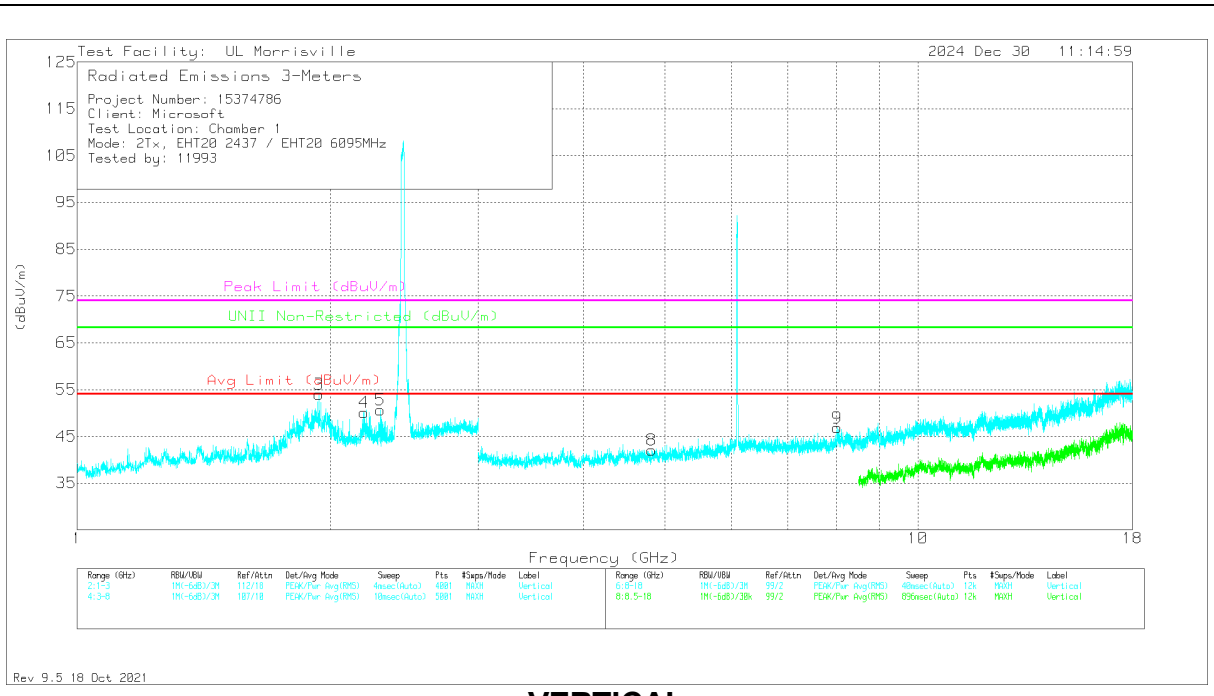
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Filter (dB)	Filter (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 1.22104	55.7	PK-U	28.9	-25.8	0	0	58.8	-	-	74	-15.2	68.2	-9.4	33	107	H
	* ** 1.22292	41.15	ADV	28.9	-25.8	0	0	44.25	54	-9.75	-	-	-	-	33	107	H
2	** 1.961	40.23	Pk	31.5	-24.5	0	0	47.23	54	-6.77	74	-26.77	68.2	-20.97	0-360	200	H
3	** 1.86205	51.38	PK-U	31	-24.3	0	0	58.08	-	-	74	-15.92	68.2	-10.12	283	374	V
	** 1.86296	27.25	ADV	31	-24.3	0	0	33.95	54	-20.05	-	-	-	-	283	374	V
4	** 1.919	40.96	Pk	31.3	-24.4	0	0	47.86	54	-6.14	74	-26.14	68.2	-20.34	0-360	101	V
6	* ** 5.11	52.13	Pk	34.3	-44.3	.7	0	42.83	54	-11.17	74	-31.17	68.2	-25.37	0-360	200	H
8	* ** 4.8545	53.79	Pk	33.9	-45.3	.7	0	43.09	54	-10.91	74	-30.91	68.2	-25.11	0-360	200	V
9	* ** 7.544	49.67	Pk	35.5	-40.8	.6	0	44.97	54	-9.03	74	-29.03	68.2	-23.23	0-360	200	V
7	* ** 8.25083	50.66	Pk	35.9	-40.8	0	.7	46.46	54	-7.54	74	-27.54	68.2	-21.74	0-360	101	H
10	* ** 8.12083	50.31	Pk	35.9	-41.3	0	.9	45.81	54	-8.19	74	-28.19	68.2	-22.39	0-360	101	V
5	1.9985	41.56	Pk	31.7	-24.4	0	0	48.86	-	-	-	-	68.2	-19.34	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
PK-U - Maximum Peak
ADV - Linear Voltage Average

9.1.6. HARMONICS AND SPURIOUS EMISSIONS (Scan 6)



HORIZONTAL



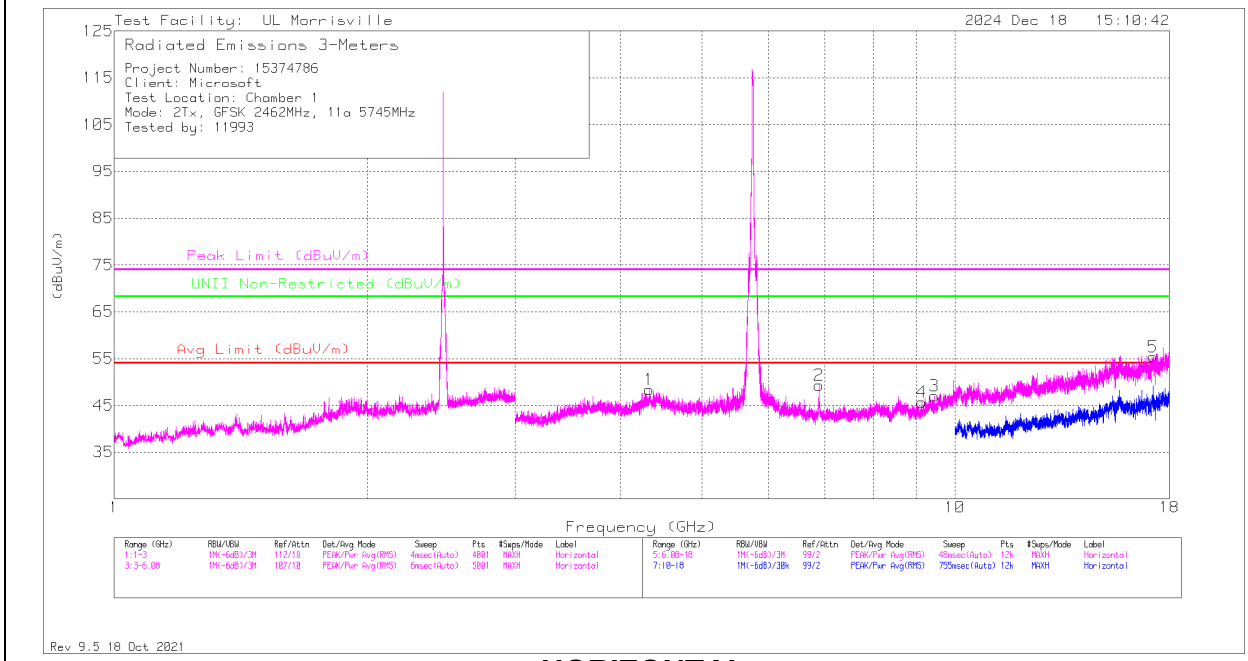
VERTICAL

RADIATED EMISSIONS

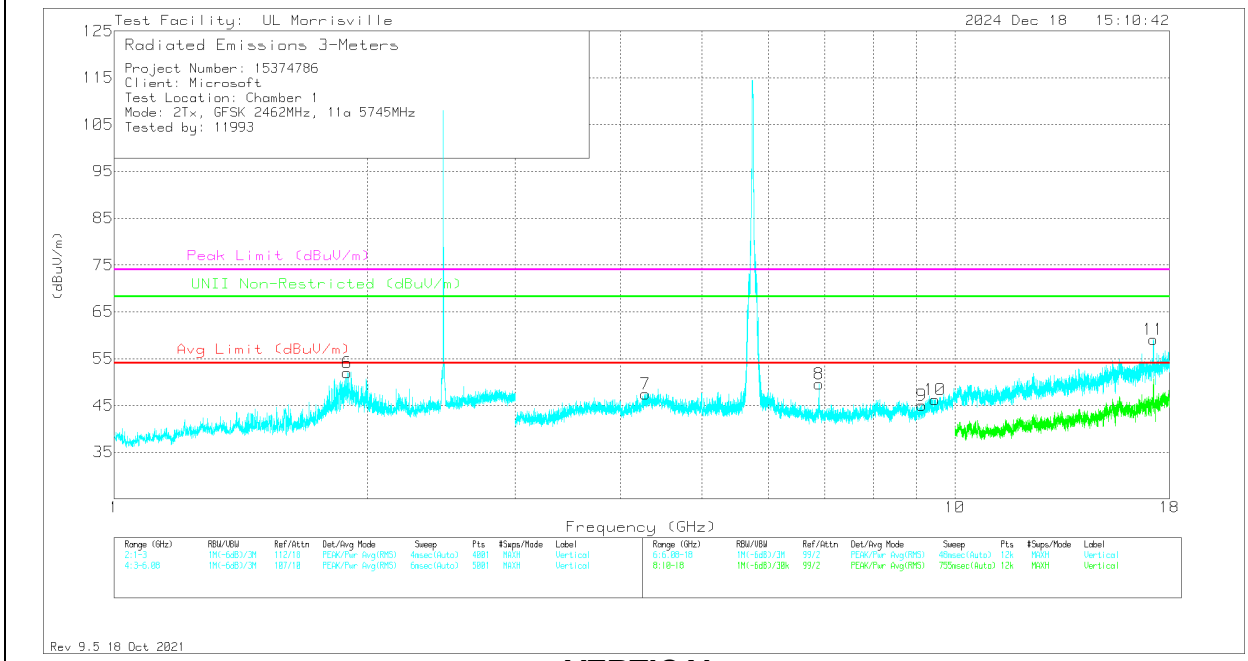
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Filter (dB)	Filter (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 1.20664	58.73	PK-U	28.8	-26	0	0	61.53	-	-	74	-12.47	68.2	-6.67	290	221	H
	* ** 1.20958	42.77	ADV	28.8	-25.9	0	0	45.67	54	-8.33	-	-	-	-	290	221	H
2	** 1.92564	44.42	PK-U	31.4	-24.4	0	0	51.42	-	-	74	-22.58	68.2	-16.78	17	400	H
	** 1.924	26.85	ADV	31.4	-24.4	0	0	33.85	54	-20.15	-	-	-	-	17	400	H
3	** 1.94049	44.61	PK-U	31.4	-24.3	0	0	51.71	-	-	74	-22.29	68.2	-16.49	357	287	V
	** 1.93955	27.29	ADV	31.4	-24.2	0	0	34.49	54	-19.51	-	-	-	-	357	287	V
5	* ** 2.21022	43.36	PK-U	31.6	-24	0	0	50.96	-	-	74	-23.04	68.2	-17.24	145	237	V
	* ** 2.20867	27.13	ADV	31.6	-24	0	0	34.73	54	-19.27	-	-	-	-	145	237	V
6	* ** 4.271	53.32	Pk	33.7	-44.3	.8	0	43.52	54	-10.48	74	-30.48	68.2	-24.68	0-360	199	H
8	* ** 4.822	52.9	Pk	33.9	-45.4	.7	0	42.1	54	-11.9	74	-31.9	68.2	-26.1	0-360	101	V
7	* ** 8.2325	50.93	Pk	35.9	-40.9	0	.8	46.73	54	-7.27	74	-27.27	68.2	-21.47	0-360	200	H
4	2.1925	42.64	Pk	31.5	-24	0	0	50.14	-	-	-	-	68.2	-18.06	0-360	200	V
9	8.0225	51.63	Pk	35.9	-41.5	0	.8	46.83	-	-	-	-	68.2	-21.37	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
PK-U - Maximum Peak
ADV - Linear Voltage Average

9.1.7. HARMONICS AND SPURIOUS EMISSIONS (Scan 7)



HORIZONTAL



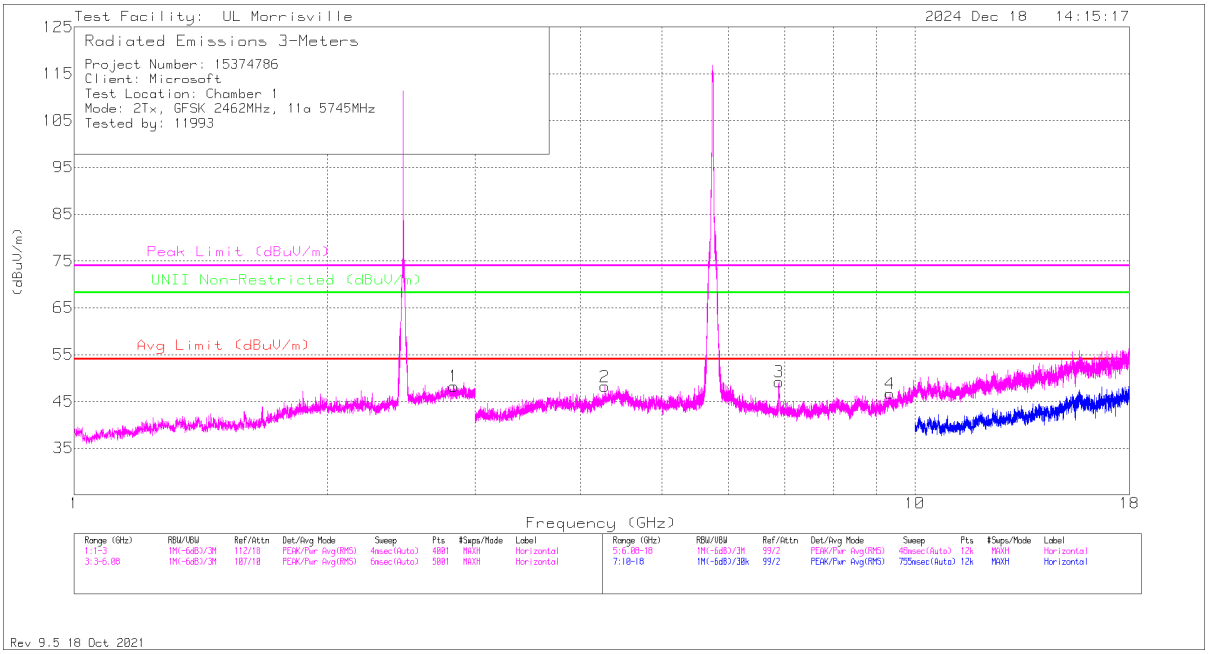
VERTICAL

RADIATED EMISSIONS

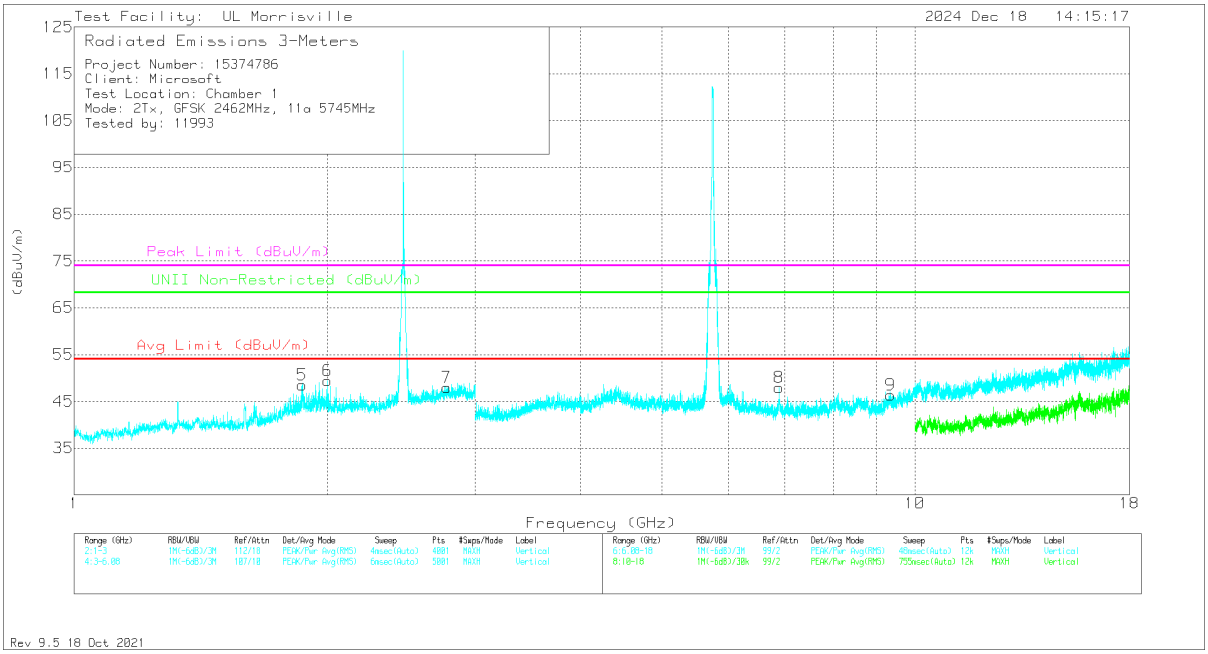
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	** 1.89175	43.95	PK2	31.3	-24.1	0	51.15	-	-	74	-22.85	-	-	106	112	V
	** 1.8943	27.78	V1TV	31.3	-24.2	0	34.88	54	-19.12	-	-	-	-	106	112	V
7	* ** 4.28867	33.21	Pk	33.7	-20.5	1	47.41	54	-6.59	74	-26.59	68.2	-20.79	0-360	101	V
1	* ** 4.33497	34.36	PK2	33.7	-20.3	.6	48.36	-	-	74	-25.64	-	-	150	321	H
	* ** 4.33433	20.44	V1TV	33.7	-20.3	.6	34.44	54	-19.56	-	-	-	-	150	321	H
9	* ** 9.13152	49.37	Pk	35.9	-40.9	.7	45.07	54	-8.93	74	-28.93	68.2	-23.13	0-360	101	V
4	* ** 9.14046	50.24	Pk	35.9	-41.1	.7	45.74	54	-8.26	74	-28.26	68.2	-22.46	0-360	200	H
3	* ** 9.45733	51.07	Pk	36.4	-41.3	.9	47.07	54	-6.93	74	-26.93	68.2	-21.13	0-360	200	H
10	* ** 9.47025	50.42	Pk	36.4	-41.3	.7	46.22	54	-7.78	74	-27.78	68.2	-21.98	0-360	200	V
5	17.22321	48.4	Pk	41.2	-35.1	.9	55.4	-	-	-	-	68.2	-12.8	0-360	200	H
11	17.22718	52.61	Pk	41.2	-35.6	.9	59.11	-	-	-	-	68.2	-9.09	0-360	200	V
2	6.89354	55.87	Pk	35.5	-42.6	.5	49.27	-	-	-	-	68.2	-18.93	0-360	101	H
8	6.89354	56.17	Pk	35.5	-42.6	.5	49.57	-	-	-	-	68.2	-18.63	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
V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

9.1.8. HARMONICS AND SPURIOUS EMISSIONS (Scan 8)



HORIZONTAL



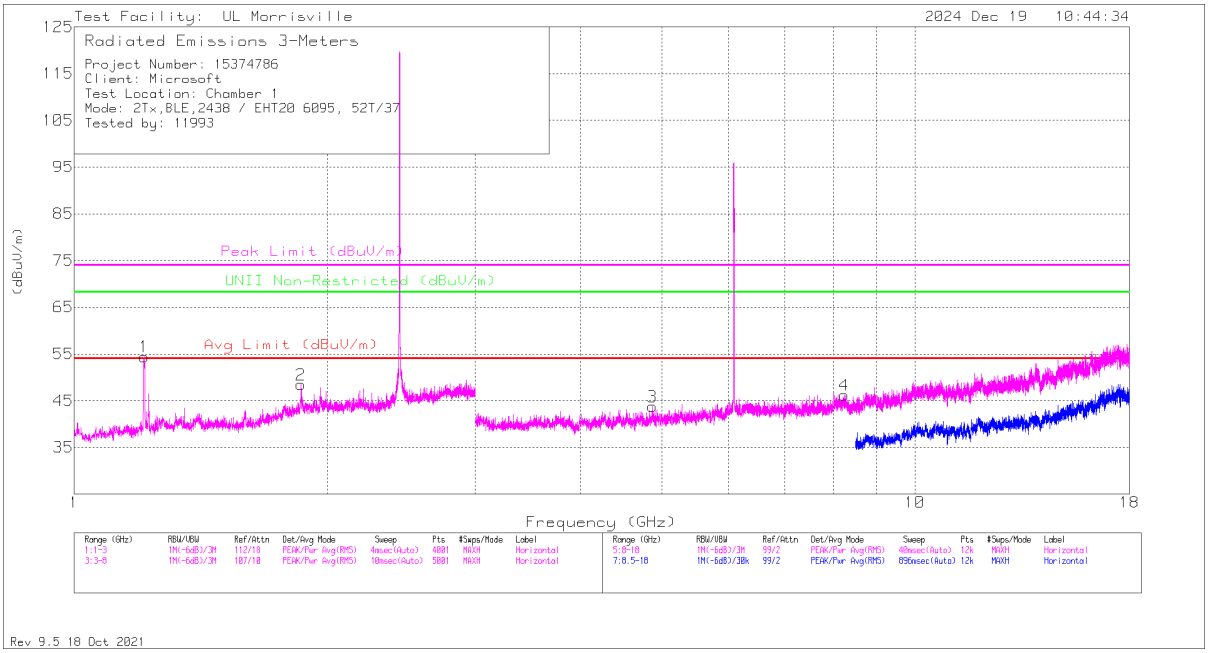
VERTICAL

RADIATED EMISSIONS

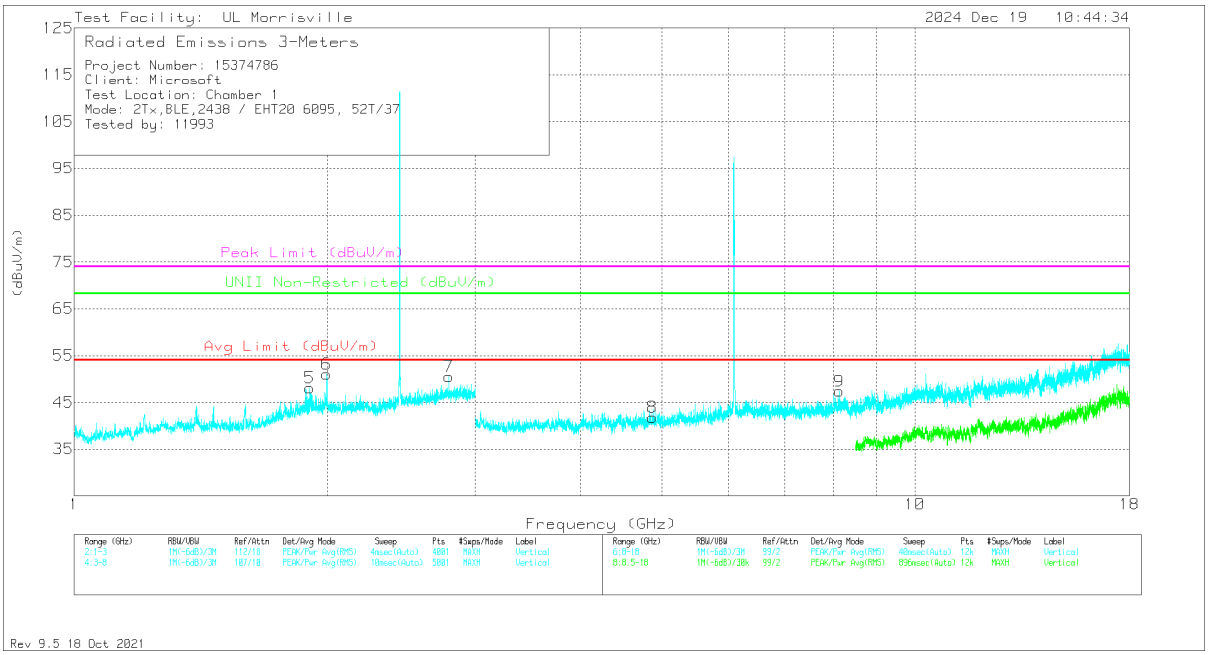
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.83103	40.29	PK2	32.5	-23.5	0	49.29	-	-	74	-24.71	-	-	72	105	H
	* ** 2.83008	26.59	V1TV	32.5	-23.5	0	35.59	54	-18.41	-	-	-	-	72	105	H
5	** 1.86631	49.01	PK2	31.1	-24.3	0	55.81	-	-	74	-18.19	-	-	108	103	V
	** 1.86541	28.76	V1TV	31.1	-24.3	0	35.56	54	-18.44	-	-	-	-	108	103	V
7	* ** 2.7735	38.96	Pk	32.6	-23.6	0	47.96	54	-6.04	74	-26.04	68.2	-20.24	0-360	101	V
6	2.0015	42.33	Pk	31.7	-24.6	0	49.43	-	-	-	-	68.2	-18.77	0-360	200	V
2	* ** 4.27485	34.19	PK2	33.7	-20	.8	48.69	-	-	74	-25.31	-	-	177	274	H
	* ** 4.2761	20.04	V1TV	33.7	-20	.9	34.64	54	-19.36	-	-	-	-	177	274	H
4	* ** 9.33515	49.49	Pk	36.2	-39.6	.6	46.69	54	-7.31	74	-27.31	68.2	-21.51	0-360	101	H
9	* ** 9.36197	49.89	Pk	36.2	-40.1	.4	46.39	54	-7.61	74	-27.61	68.2	-21.81	0-360	101	V
3	6.89056	55.73	Pk	35.5	-42.5	.5	49.23	-	-	-	-	68.2	-18.97	0-360	200	H
8	6.89354	54.58	Pk	35.5	-42.6	.5	47.98	-	-	-	-	68.2	-20.22	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

9.1.9. HARMONICS AND SPURIOUS EMISSIONS (Scan 9)



HORIZONTAL



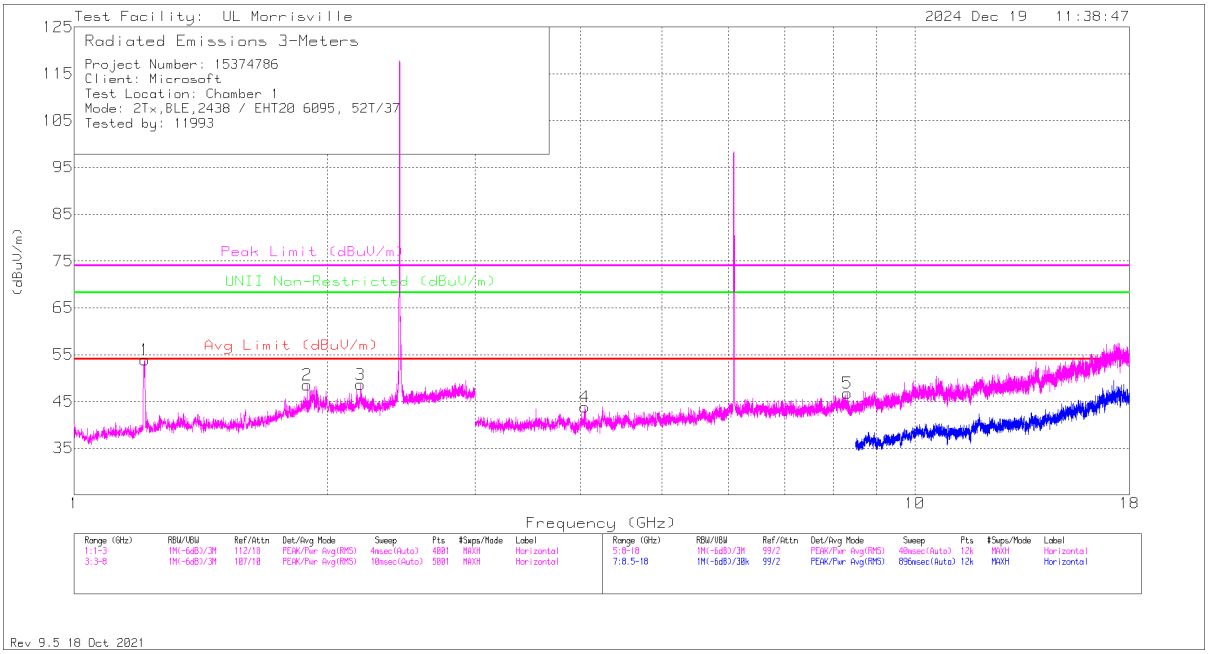
VERTICAL

RADIATED EMISSIONS

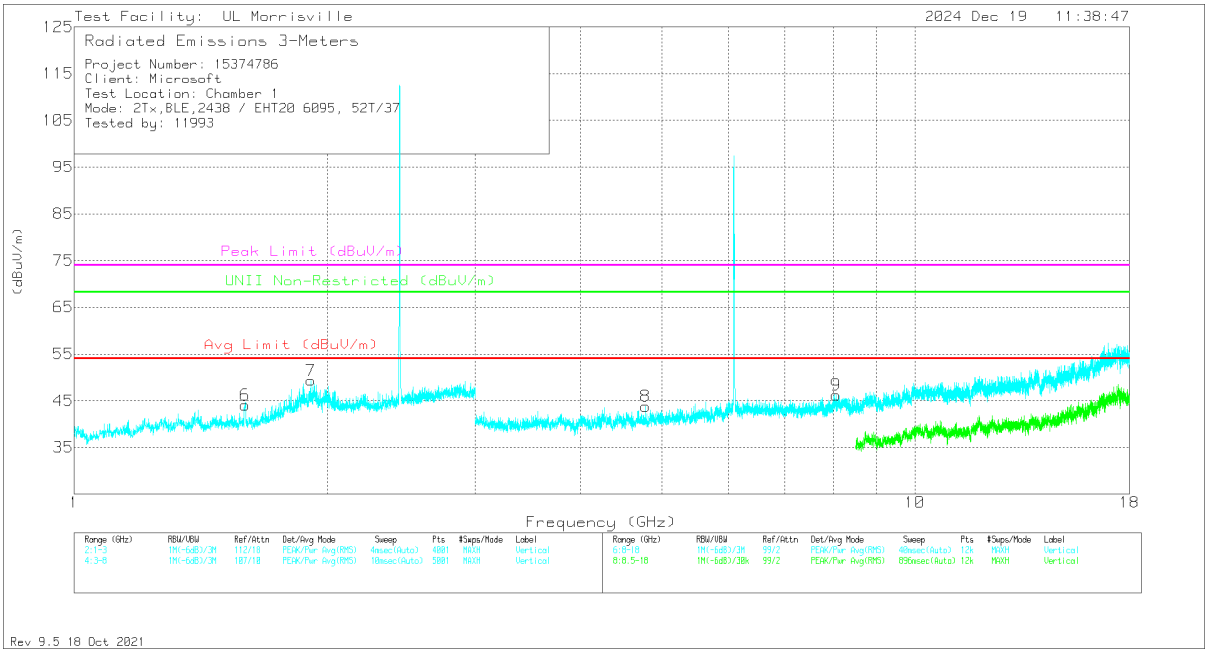
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Filter (dB)	Filter (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 1.21228	57.94	PK2	28.8	-25.9	0	0	0	60.84	-	-	74	-13.16	-	-	98	150	H
	* ** 1.21084	42.73	ADV	28.8	-25.9	0	0	4.11	49.74	54	-4.26	-	-	-	-	98	150	H
2	** 1.86164	49.09	PK2	31	-24.2	0	0	0	55.89	-	-	74	-18.11	-	-	318	215	H
	** 1.86068	27.29	ADV	31	-24.2	0	0	4.11	38.20	54	-15.79	-	-	-	-	318	215	H
5	** 1.90791	46.28	PK2	31.3	-24	0	0	0	53.58	-	-	74	-20.42	-	-	279	340	V
	** 1.90774	26.81	ADV	31.3	-24	0	0	4.11	38.22	54	-15.78	-	-	-	-	279	340	V
7	* ** 2.78717	40.43	PK2	32.5	-23.6	0	0	0	49.33	-	-	74	-24.67	-	-	203	250	V
	* ** 2.78884	28.08	ADV	32.5	-23.6	0	0	4.11	41.09	54	-12.91	-	-	-	-	203	250	V
3	* ** 4.873	53.95	Pk	34	-44.8	.6	0	0	43.75	54	-10.25	74	-30.25	68.2	-24.45	0-360	200	H
8	* ** 4.878	51.91	Pk	34	-44.7	.6	0	0	41.81	54	-12.19	74	-32.19	68.2	-26.39	0-360	200	V
4	* ** 8.23667	50.37	Pk	35.9	-40.9	0	.8	0	46.17	54	-7.83	74	-27.83	68.2	-22.03	0-360	101	H
9	* ** 8.1325	51.77	Pk	35.9	-41.1	0	.8	0	47.37	54	-6.63	74	-26.63	68.2	-20.83	0-360	200	V
6	1.998	43.69	Pk	31.7	-24.3	0	0	0	51.09	-	-	-	-	68.2	-17.11	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

9.1.10. HARMONICS AND SPURIOUS EMISSIONS (Scan 10)



HORIZONTAL



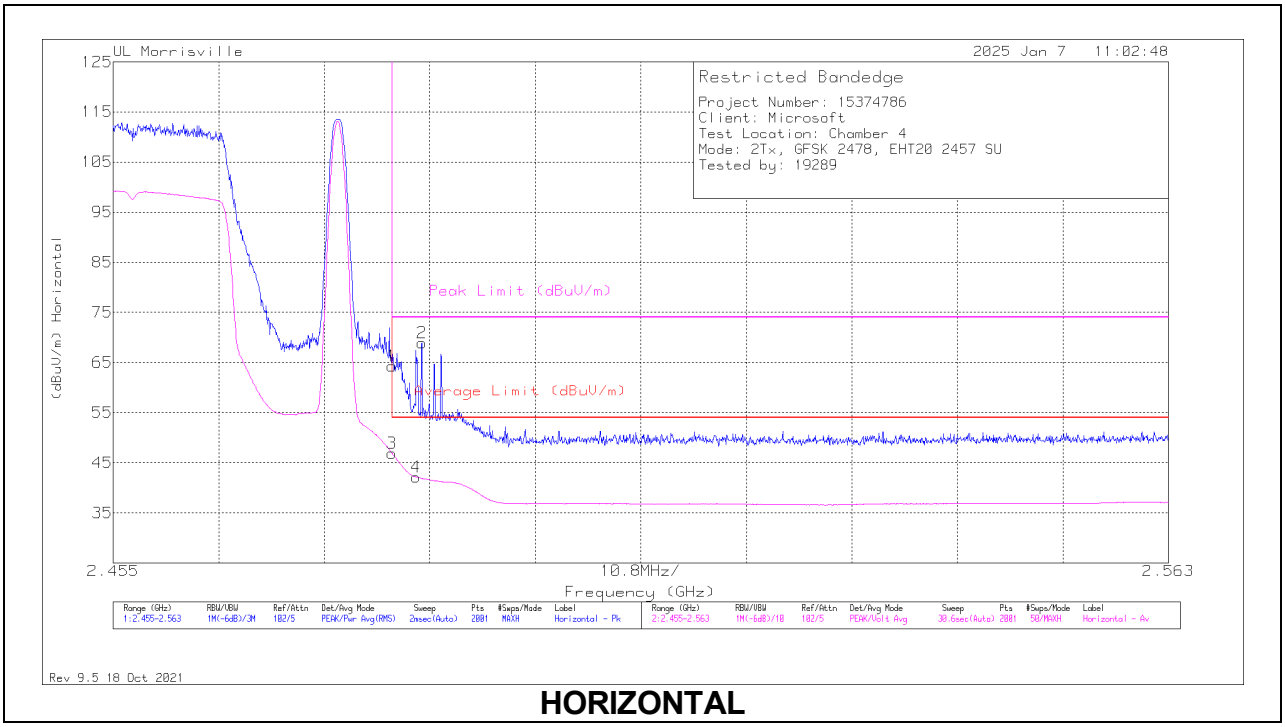
VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Filter (dB)	Filter (dB)	DC Corr (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	* ** 1.21192	56.91	PK2	28.8	-25.9	0	0	0	59.81	-	-	74	-14.19	68.2	-8.39	196	105	H
	* ** 1.21189	39.59	ADV	28.8	-25.9	0	0	9.74	52.23	54	-1.77	-	-	-	-	196	105	H
2	** 1.89173	43.28	PK2	31.3	-24.1	0	0	0	50.48	-	-	74	-23.52	68.2	-17.72	327	329	H
	** 1.89064	26.85	ADV	31.3	-24.1	0	0	9.74	43.79	54	-11.21	-	-	-	-	327	329	H
6	* ** 1.597	40.34	Pk	28.1	-24.3	0	0	0	44.14	54	-9.86	74	-29.86	68.2	-24.06	0-360	200	V
7	** 1.91067	43.37	PK2	31.3	-24.1	0	0	0	50.57	-	-	74	-23.43	68.2	-17.63	155	163	V
	** 1.91133	27.07	ADV	31.3	-24.2	0	0	9.74	43.91	54	-10.09	-	-	-	-	155	163	V
4	* ** 4.052	54.21	Pk	33.1	-44.3	.8	0	0	43.81	54	-10.19	74	-30.19	68.2	-24.39	0-360	199	H
8	* ** 4.783	54.5	Pk	33.8	-44.9	.4	0	0	43.8	54	-10.2	74	-30.2	68.2	-24.4	0-360	200	V
5	* ** 8.31333	51.05	Pk	35.8	-40.7	0	.6	0	46.75	54	-7.25	74	-27.25	68.2	-21.45	0-360	200	H
9	* ** 8.055	50.09	Pk	35.9	-40.7	0	.9	0	46.19	54	-7.81	74	-27.81	68.2	-22.01	0-360	200	V
3	2.191	41.18	Pk	31.5	-24.1	0	0	0	48.58	-	-	-	-	68.2	-19.62	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

9.1.11. BAND EDGE EMISSIONS (Scan 11)

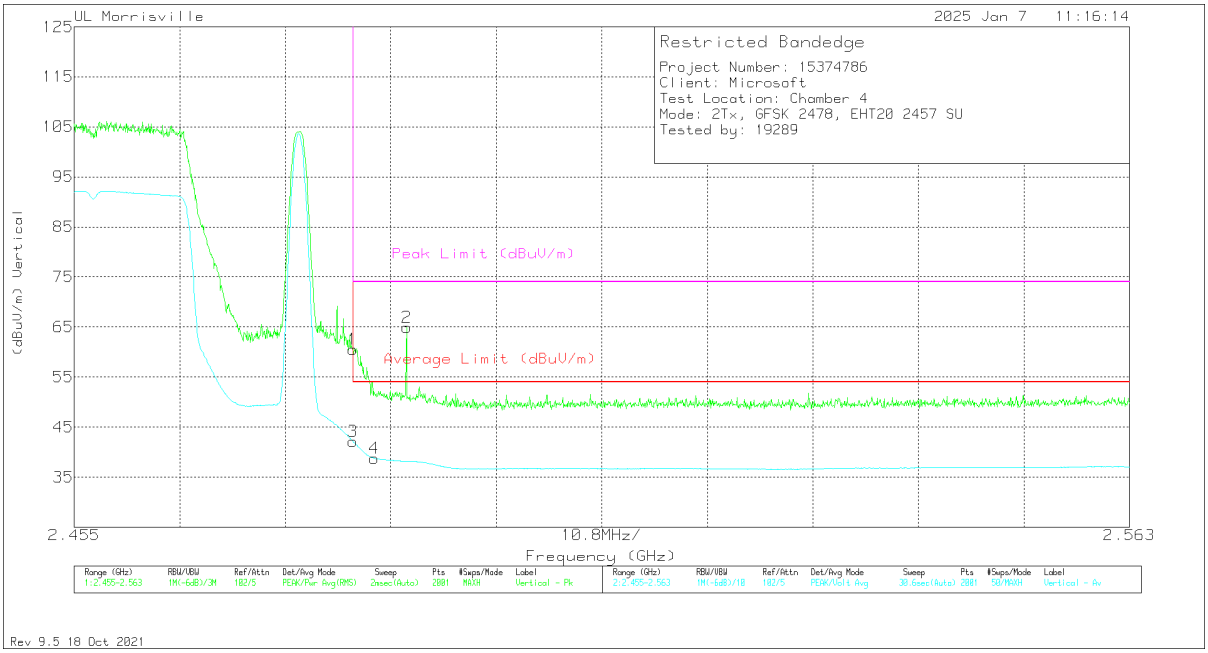


HORIZONTAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48351	44.79	Pk	32.3	-22.8	10	64.29	-	-	74	-9.71	244	204	H
2	* ** 2.48659	49.45	Pk	32.3	-22.8	10	68.95	-	-	74	-5.05	244	204	H
3	* ** 2.48351	27.45	V1TV	32.3	-22.8	10	46.95	54	-7.05	-	-	244	204	H
4	* ** 2.486	22.68	V1TV	32.3	-22.8	10	42.18	54	-11.82	-	-	244	204	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

Note: This was tested at EHT20 242T, not SU, as dictated by worst-case power.



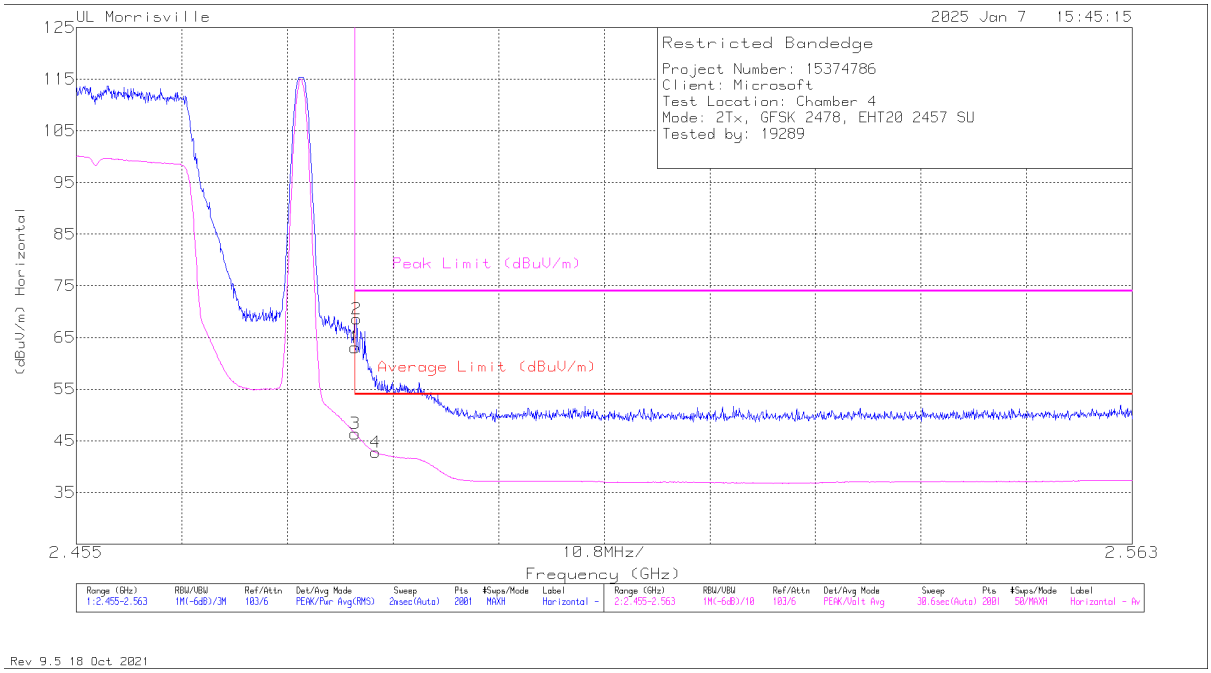
VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48351	41.07	Pk	32.3	-22.8	10	60.57	-	-	74	-13.43	289	237	V
2	* ** 2.48902	45.41	Pk	32.3	-22.8	10	64.91	-	-	74	-9.09	289	237	V
3	* ** 2.48351	22.68	V1TV	32.3	-22.8	10	42.18	54	-11.82	-	-	289	237	V
4	* ** 2.48573	19.26	V1TV	32.3	-22.8	10	38.76	54	-15.24	-	-	289	237	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

Note: This was tested at EHT20 242T, not SU, as dictated by worst-case power.

9.1.12. BAND EDGE EMISSIONS (Scan 12)

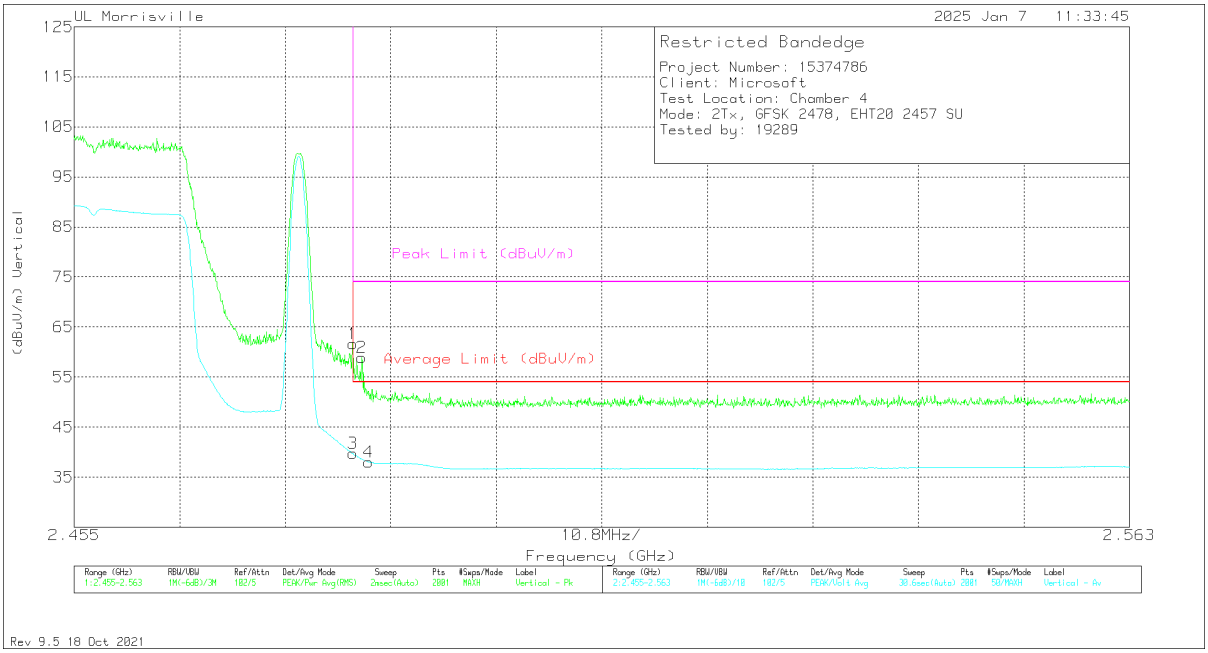


HORIZONTAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48351	43.57	Pk	32.3	-22.8	10	63.07	-	-	74	-10.93	71	186	H
2	* ** 2.48367	49.08	Pk	32.3	-22.8	10	68.58	-	-	74	-5.42	71	186	H
3	* ** 2.48351	26.88	V1TV	32.3	-22.8	10	46.38	54	-7.62	-	-	71	186	H
4	* ** 2.48562	23.27	V1TV	32.3	-22.8	10	42.77	54	-11.23	-	-	71	186	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

Note: This was tested at EHT20 242T, not SU, as dictated by worst-case power.



VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48351	42.17	Pk	32.3	-22.8	10	61.67	-	-	74	-12.33	134	202	V
2	* ** 2.48443	39.46	Pk	32.3	-22.8	10	58.96	-	-	74	-15.04	134	202	V
3	* ** 2.48351	20.22	V1TV	32.3	-22.8	10	39.72	54	-14.28	-	-	134	202	V
4	* ** 2.48513	18.56	V1TV	32.3	-22.8	10	38.06	54	-15.94	-	-	134	202	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

Note: This was tested at EHT20 242T, not SU, as dictated by worst-case power.

10. SETUP PHOTOS

For all setup diagrams and setup photos, refer to UL report R15374786-EP1

END OF REPORT

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