

# **TEST REPORT**

**Report Number:** NBK15728020A.V1

**Applicant :** SharkNinja Operating LLC  
89 A Street, Suite 100  
Needham, MA 02494, US

**Model :** MW101

**FCC ID :** 2ASV9-MW10

**EUT Description :** Ninja VersaWave, Combination Microwave and Air Fryer Oven

**Test Standard(s) :** 47 CFR PART 18

**Date Of Issue:** 2025-06-26

**Prepared by:**  
UL LLC  
333 Pfingsten Road  
Northbrook, IL 60062 US  
847-272-8800



REPORT REVISION HISTORY

| Rev. | Issue Date | Revisions     | Revised By |
|------|------------|---------------|------------|
| V1   | 2025-06-26 | Initial Issue | BM         |

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** SharkNinja Operating LLC  
**EUT DESCRIPTION:** Ninja VersaWave, Combination Microwave and Air Fryer Oven  
**MODEL:** MW101  
**SERIAL NUMBER:** H20ZTO01Z2U3  
**SAMPLE RECEIPT DATE:** 2025-05-05  
**DATE TESTED:** 2025-05-08 to 2025-06-26

| APPLICABLE STANDARDS |              |
|----------------------|--------------|
| STANDARD             | TEST RESULTS |
| 47 CFR Part 18:2025  | Complies     |
| FCC/OST MP5:1986     |              |

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

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released For UL LLC  
By: Michael Antola

Prepared By: Bart Mucha



Senior Staff Engineer  
CMIT  
UL LLC



Test Engineer  
CMIT  
UL LLC

## 2. TEST RESULTS SUMMARY

## 3. TEST METHODOLOGY

FCC/OST MP-5:1986

## 4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, Laboratory Code 0751.07, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

|                                     | Address                                                 | FCC Registration |
|-------------------------------------|---------------------------------------------------------|------------------|
| <input checked="" type="checkbox"/> | Building:<br>333 Pfingsten Road<br>Northbrook, IL 60062 | 943565           |

## 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 <sub>Lab</sub> |
|-----------------------------------------------------|------------------|
| Worst Case Conducted Disturbance, 9KHz to 0.15 MHz  | 3.78 dB          |
| Worst Case Conducted Disturbance, 0.15 to 30 MHz    | 3.40 dB          |
| Worst Case Radiated Disturbance, 9KHz to 30 MHz     | 2.87 dB          |
| Worst Case Radiated Disturbance, 30 to 1000 MHz     | 4.66 dB          |
| Worst Case Radiated Disturbance, 1000 to 18000 MHz  | 4.73 dB          |
| Worst Case Radiated Disturbance, 18000 to 26000 MHz | 4.51 dB          |

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

### 5.4. SAMPLE CALCULATION

#### RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)  
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

#### MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.  
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

## 6. EQUIPMENT UNDER TEST

### 6.1. EUT DESCRIPTION

The Equipment Under Test (EUT) is an Air Fryer oven with microwave (ISM Band 2400MHz-2500MHz).

### 6.2. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing: will be provided by applicant in certification documents.

### 6.3. DESCRIPTION OF TEST SETUP

#### EQUIPMENT USED DURING TESTING

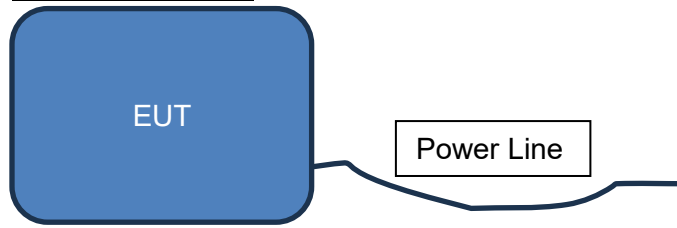
| Support Equipment List |                    |       |               |        |
|------------------------|--------------------|-------|---------------|--------|
| Description            | Manufacturer/Brand | Model | Serial Number | FCC ID |
| Glass Water Beaker     | -                  | -     | n/a           | n/a    |

#### I/O CABLES

| I/O Cable List |      |                      |                |            |                  |         |
|----------------|------|----------------------|----------------|------------|------------------|---------|
| Cable No       | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1              | AC   | 1                    | US AC Plug     | 3 wire     | .5m              | none    |

#### TEST SETUP

EUT tested with load specified in MP5.

**SETUP DIAGRAMS****DEVIATION FROM STANDARD TEST METHODS**

None

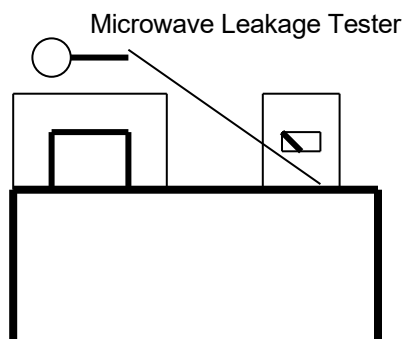


## 7. Test Results

### 7.1. RADIATION HAZARD MEASUREMENT

#### TEST PROCEDURE

A 700-ml water load was placed in the center of the oven. The power setting was set to 10 (100) maximum power. While the oven was operating, the STE probe was moved slowly around the door seams to check for leakage.



#### LIMIT

FCC / OST MP-5: SECTION 3.1 ( $< 1.0\text{mW/cm}^2$ ) per 21 CFR Part 1030(c)(1)

|                                                       | Maximum Leakage<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) |
|-------------------------------------------------------|------------------------------------------|--------------------------------|
| Photo shown below for the location of maximum leakage | 0.09                                     | 1.00                           |

Tested By: BM06740  
Tested On: 2025-06-26

| Test Equipment List          |              |         |                        |            |            |
|------------------------------|--------------|---------|------------------------|------------|------------|
| Description                  | Manufacturer | Model   | Equipment ID           | Cal Date   | Cal Due    |
| Microwave Measurement System | Holaday      | HI-1710 | s/n: 0388019:<br>51759 | 2025-02-04 | 2026-02-28 |

## 7.2. INPUT POWER

### TEST PROCEDURE

Input power and current were measured using a wattmeter and an amp-meter. A 700 ml water load was placed in the center of the oven and the oven was set to maximum power. A 700-ml water load was chosen for its compatibility.

### LIMIT

FCC / OST MP-5: SECTION 4.3 – reporting purpose only

Reporting: Input Power = Input Voltage \* input current

### RESULTS

| (Vac)   | (Amps) | (Watts)     |
|---------|--------|-------------|
| 118.3   | 14.2   | 1673.95     |
| 118.6   | 13.6   | 1612.96     |
| 118.6   | 13.3   | 1577.38     |
| Average |        | 1621.428333 |

Testing conducted on 2025-05-08 by BM

| Test Equipment List |              |       |              |            |            |
|---------------------|--------------|-------|--------------|------------|------------|
| Description         | Manufacturer | Model | Equipment ID | Cal Date   | Cal Due    |
| Voltage             | Fluke        | 87    | 137671       | 2024-12-03 | 2025-12-31 |
| Temperature         | Fluke        | 87    | 44028        | 2024-12-04 | 2025-12-31 |
| Current             | Fluke        | 322   | 70018        | 2024-12-04 | 2025-12-31 |

### 7.3. OUTPUT POWER

#### TEST PROCEDURE

The Caloric Method was used to determine maximum output power. The initial temperature of a 1000-ml water load was measured for ovens rated at 1000 watts or less power output. For ovens more than 1000 watts output, additional beakers by fraction thereof are used if necessary.

The water load was placed in the center of the oven. The oven was operated at maximum output power for 120 seconds. Then the temperature of the water was re-measured.

#### LIMIT

FCC / OST MP-5: SECTION 4.3 - reporting purpose only and required per FCC Part 18 in order to determine the limit.

Reporting: Output power should be applied to the out-of-band emissions limit with the formula of  $25\sqrt{\text{Power}/500}$  @ 300m.

#### RESULTS

##### Output Power

| Start Temperature (°C) | Final Temperature (°C) | Elapsed Time (120 Sec) | Water Volume (ml) | RF Power (Watts) |
|------------------------|------------------------|------------------------|-------------------|------------------|
| 13.6                   | 35.3                   | 120.00                 | 1000.00           | 759.50           |
| 15.8                   | 38.1                   | 120.00                 | 1000.00           | 780.50           |
| 15.9                   | 37.8                   | 120.00                 | 1000.00           | 766.50           |
|                        |                        | Average                |                   | 768.83           |

Testing conducted on 2025-05-08 by BM

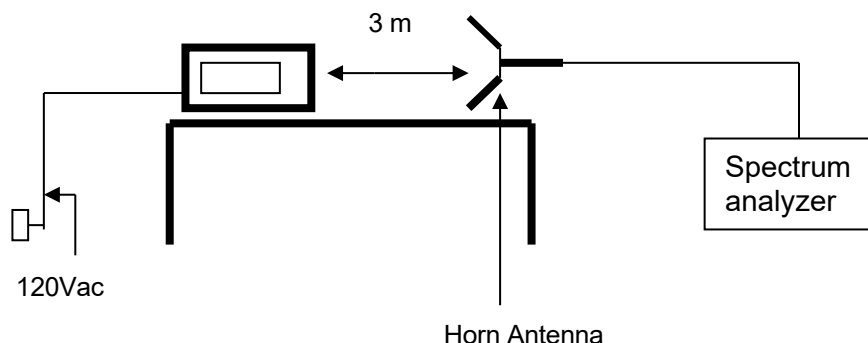
Output Power =  $((4.2 \text{ Joules/Cal}) \times (\text{Volume in ml}) \times (\text{Temp. Rise})) / \text{Time in Seconds}$

| Test Equipment List |                            |       |            |            |            |
|---------------------|----------------------------|-------|------------|------------|------------|
| Description         | Manufacturer               | Model | Identifier | Cal Date   | Cal Due    |
| Temperature         | Fluke with JK thermocouple | 87    | 44028      | 2024-12-03 | 2025-12-31 |

## 7.4. OPERATING FREQUENCY WITH TIME

### TEST PROCEDURE

Measurements were conducted in sequence. First 10 minute measurement was conducted with 1L of fresh water cooking for 10 minutes. Following this measurement, water level was reduced to 500mL and 10 minute measurement was conducted. Following that, water was reduced to 200mL and last 10 minute measurement was conducted. Testing was conducted in three steps with short breaks when reducing water level manually. Per MP-5 the quantity of water should be reduced by evaporation. However due to long time necessary for that to occur water was reduced manually with minimum of 15 minute run time each with minimal time to reduce water level.



### LIMIT

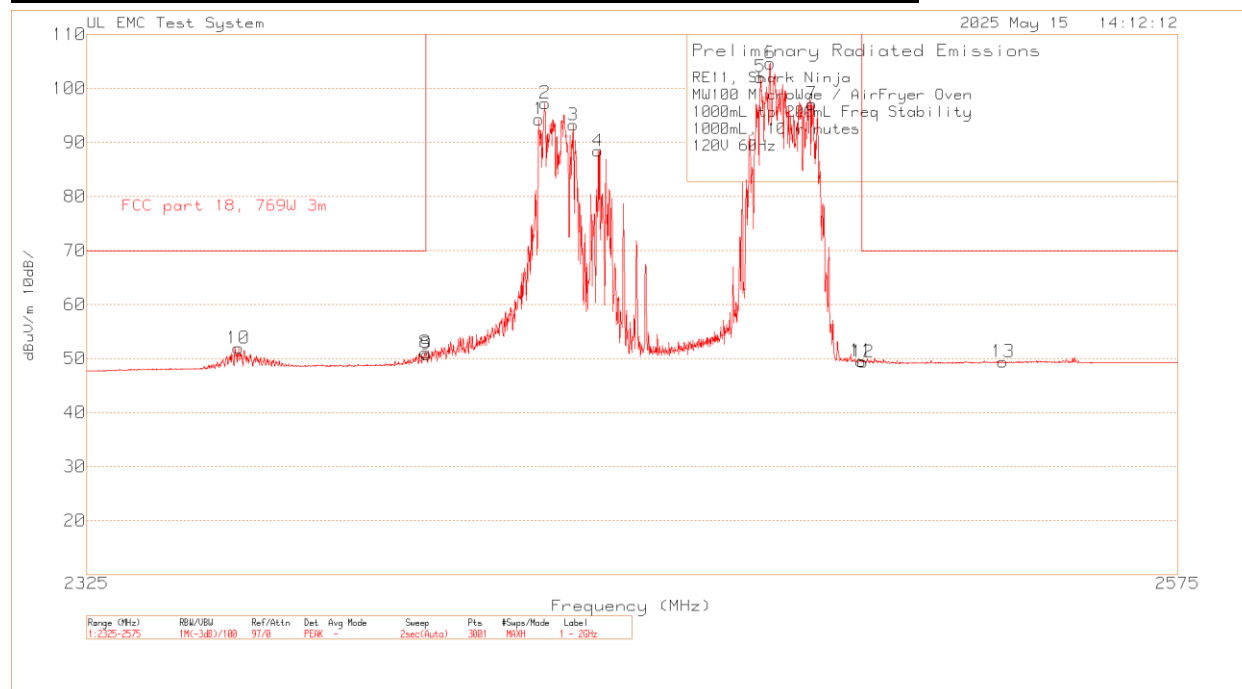
FCC / OST MP-5: SECTION 4.3

The frequency range shall lie within the band 2.4 GHz to 2.5 GHz of -20dBc from the peak / or within the limits calculated in section 7.6 of this report, whichever is lesser of a attenuation.

### RESULTS

The EUT remained within allocated frequency range.

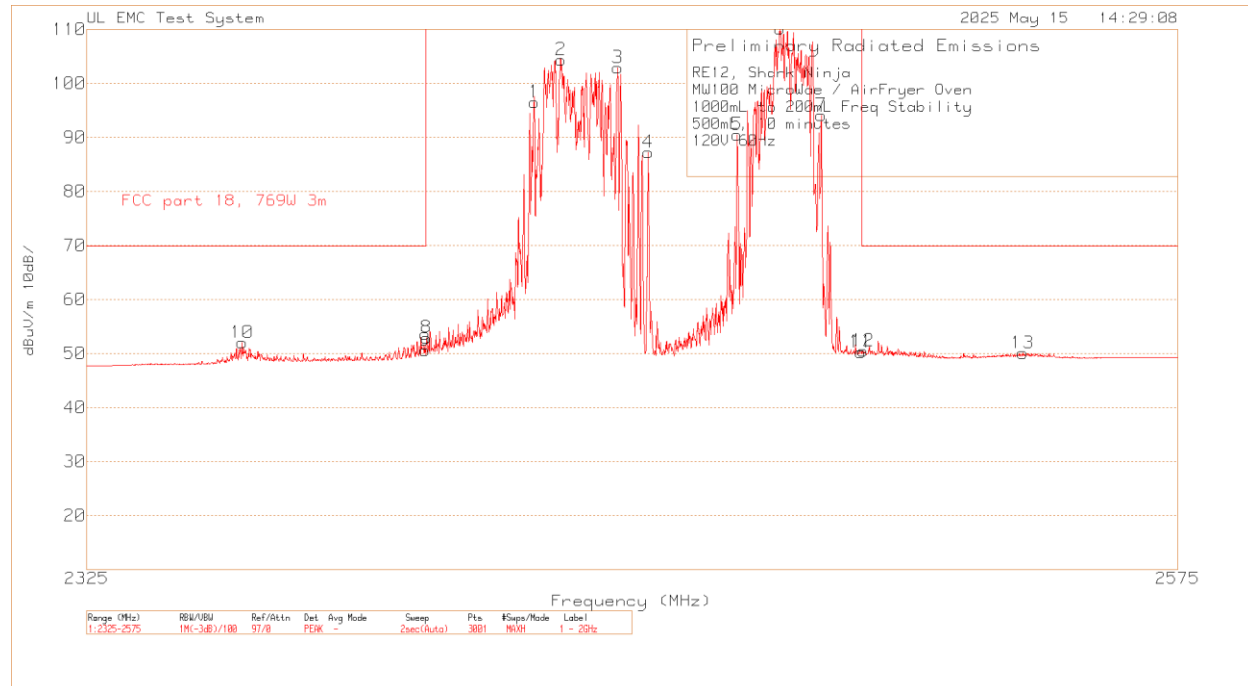
| Test Equipment List   |                 |          |            |            |            |
|-----------------------|-----------------|----------|------------|------------|------------|
| Description           | Manufacturer    | Model    | Identifier | Cal Date   | Cal Due    |
| Antenna Array         | UL              | BOMS     | 36219      | 2024-07-01 | 2025-07-31 |
| EMI Receiver          | Rohde & Schwarz | ESU      | 52994      | 2024-12-08 | 2025-12-31 |
| 90kVA AC Power Source | Teseq           | NSG 1007 | 157977     | 2024-12-04 | 2025-12-31 |

**VARIATION IN OPERATING FREQUENCY WITH TIME – 1000mL of water**

## Trace Markers

| Test No. | Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading dBuV/m | Limit:1 |
|----------|-----------------|---------------|--------------------------|-----------------------|--------------------------|---------|
| 1        | 2425.4996       | 60.75dBuV Avg | 28.8                     | 4.72                  | 94.27                    | -       |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -       |
| 2        | 2426.9163       | 63.72dBuV Avg | 28.8                     | 4.72                  | 97.24                    | -       |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -       |
| 3        | 2433.3329       | 59.69dBuV Avg | 28.8                     | 4.74                  | 93.23                    | -       |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -       |
| 4        | 2438.9995       | 54.85dBuV Avg | 28.8                     | 4.76                  | 88.41                    | -       |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -       |
| 5        | 2476.4161       | 68.62dBuV Avg | 28.7                     | 4.77                  | 102.09                   | -       |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -       |
| 6        | 2478.5827       | 71.16dBuV Avg | 28.7                     | 4.79                  | 104.65                   | -       |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -       |
| 7        | 2488.2494       | 63.65dBuV Avg | 28.7                     | 4.8                   | 97.15                    | -       |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -       |
| 8        | 2399.9164       | 17.82dBuV Avg | 28.6                     | 4.69                  | 51.11                    | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -18.72  |
| 9        | 2400.083        | 17.47dBuV Avg | 28.6                     | 4.69                  | 50.76                    | -       |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -       |
| 10       | 2358.2499       | 18.94dBuV Avg | 28.3                     | 4.65                  | 51.89                    | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -17.94  |
| 11       | 2499.8326       | 16.06dBuV Avg | 28.6                     | 4.87                  | 49.53                    | -       |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -       |
| 12       | 2500.2493       | 15.88dBuV Avg | 28.6                     | 4.87                  | 49.35                    | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -20.48  |
| 13       | 2533.2492       | 15.8dBuV Avg  | 28.7                     | 4.89                  | 49.39                    | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Vert                  | Margin (dB)              | -20.44  |

LIMIT 1: FCC part 18, 769W 3m

**VARIATION IN OPERATING FREQUENCY WITH TIME – 500mL of water**

## Trace Markers

| Test No. | Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading dBuV/m | Limit:1 |
|----------|-----------------|---------------|--------------------------|-----------------------|--------------------------|---------|
| 1        | 2424.4996       | 62.99dBuV Avg | 28.8                     | 4.72                  | 96.51                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 2        | 2430.4996       | 70.82dBuV Avg | 28.8                     | 4.73                  | 104.35                   | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 3        | 2443.4995       | 69.34dBuV Avg | 28.8                     | 4.76                  | 102.9                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 4        | 2450.4995       | 53.66dBuV Avg | 28.8                     | 4.76                  | 87.22                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 5        | 2470.9994       | 57.06dBuV Avg | 28.7                     | 4.75                  | 90.51                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 6        | 2480.8327       | 76.67dBuV Avg | 28.7                     | 4.8                   | 110.17                   | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 7        | 2490.4993       | 60.7dBuV Avg  | 28.6                     | 4.81                  | 94.11                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 8        | 2400.1664       | 19.64dBuV Avg | 28.6                     | 4.69                  | 52.93                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 9        | 2399.833        | 17.33dBuV Avg | 28.6                     | 4.69                  | 50.62                    | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -19.21  |
| 10       | 2359.0832       | 19.05dBuV Avg | 28.3                     | 4.65                  | 52                       | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -17.83  |
| 11       | 2499.7493       | 16.77dBuV Avg | 28.6                     | 4.87                  | 50.24                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 12       | 2500.2493       | 17dBuV Avg    | 28.6                     | 4.87                  | 50.47                    | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -19.36  |
| 13       | 2537.9158       | 16.46dBuV Avg | 28.7                     | 4.91                  | 50.07                    | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -19.76  |

LIMIT 1: FCC part 18, 769W 3m

**VARIATION IN OPERATING FREQUENCY WITH TIME – 200mL of water**

## Trace Markers

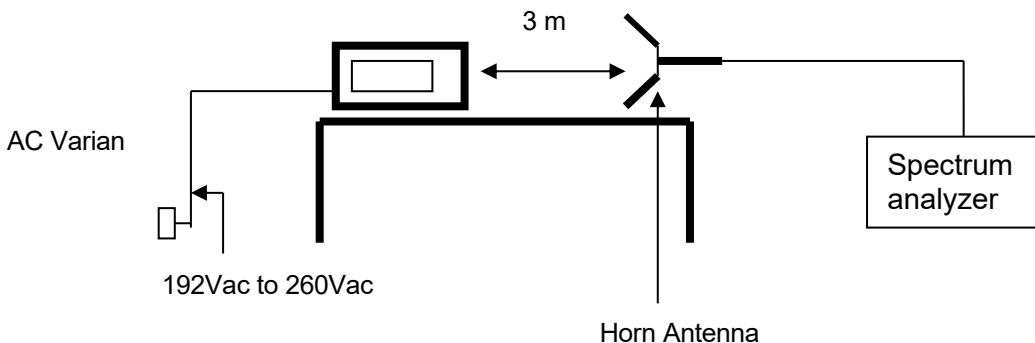
| Test No. | Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading | Limit:1 dBuV/m |
|----------|-----------------|---------------|--------------------------|-----------------------|-------------------|----------------|
| 1        | 2365.4165       | 17.72dBuV Avg | 28.4                     | 4.66                  | 50.78             | 69.83          |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -19.05         |
| 2        | 2410.083        | 35dBuV Avg    | 28.7                     | 4.7                   | 68.4              | -              |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -              |
| 3        | 2400.9997       | 21.06dBuV Avg | 28.6                     | 4.69                  | 54.35             | -              |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -              |
| 4        | 2421.4996       | 56.91dBuV Avg | 28.8                     | 4.71                  | 90.42             | -              |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -              |
| 5        | 2425.7496       | 77.01dBuV Avg | 28.8                     | 4.72                  | 110.53            | -              |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -              |
| 6        | 2430.1663       | 77.44dBuV Avg | 28.8                     | 4.73                  | 110.97            | -              |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -              |
| 7        | 2434.8329       | 74.59dBuV Avg | 28.8                     | 4.74                  | 108.13            | -              |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -              |
| 8        | 2477.0827       | 76.03dBuV Avg | 28.7                     | 4.77                  | 109.5             | -              |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -              |
| 9        | 2487.3327       | 68.25dBuV Avg | 28.7                     | 4.8                   | 101.75            | -              |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -              |
| 10       | 2490.3327       | 67.66dBuV Avg | 28.6                     | 4.81                  | 101.07            | -              |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -              |
| 11       | 2500.5826       | 16.46dBuV Avg | 28.6                     | 4.87                  | 49.93             | 69.83          |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -19.9          |
| 12       | 2533.5825       | 18.33dBuV Avg | 28.7                     | 4.89                  | 51.92             | 69.83          |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)       | -17.91         |

LIMIT 1: FCC part 18, 769W 3m

## 7.5. OPERATING FREQUENCY WITH VOLTAGE

### TEST PROCEDURE

The fundamental frequency was monitored at voltage set to 80% (96V), 100%, to 125% (150V) percent of the nominal rating. 1L load was used for this test.



### LIMIT

FCC / OST MP-5: SECTION 4.3

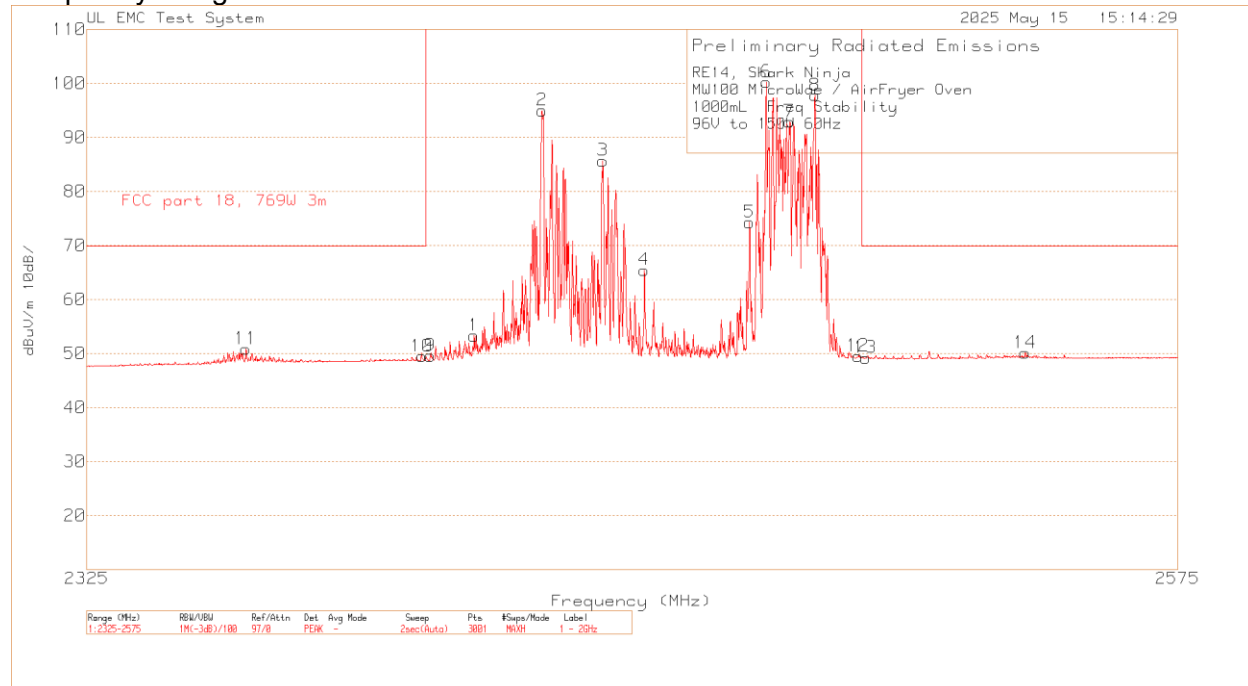
The frequency range shall lie within the band 2.4 GHz to 2.5 GHz of -20dBc from the peak / or within the limits calculated in section 7.6 of this report, whichever is lesser of a attenuation.

### RESULTS

The EUT remained within allocated frequency range.

| Test Equipment List   |                 |          |            |            |            |
|-----------------------|-----------------|----------|------------|------------|------------|
| Description           | Manufacturer    | Model    | Identifier | Cal Date   | Cal Due    |
| Antenna Array         | UL              | BOMS     | 36219      | 2024-07-01 | 2025-07-31 |
| EMI Receiver          | Rohde & Schwarz | ESU      | 52994      | 2024-12-08 | 2025-12-31 |
| 90kVA AC Power Source | Teseq           | NSG 1007 | 157977     | 2024-12-04 | 2025-12-31 |



**VARIATION IN OPERATING FREQUENCY WITH VOLTAGE****Frequency Range Variation – 96VAC to 150VAC**

## Trace Markers

| Test No. | Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading dBuV/m | Limit:1 |
|----------|-----------------|---------------|--------------------------|-----------------------|--------------------------|---------|
| 1        | 2410.833        | 19.91dBuV Avg | 28.7                     | 4.7                   | 53.31                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 2        | 2426.2496       | 61.47dBuV Avg | 28.8                     | 4.72                  | 94.99                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 3        | 2440.0829       | 52.14dBuV Avg | 28.8                     | 4.76                  | 85.7                     | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 4        | 2449.5828       | 31.9dBuV Avg  | 28.8                     | 4.76                  | 65.46                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 5        | 2473.8327       | 40.83dBuV Avg | 28.7                     | 4.75                  | 74.28                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 6        | 2477.6661       | 66.76dBuV Avg | 28.7                     | 4.78                  | 100.24                   | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 7        | 2483.0827       | 59.38dBuV Avg | 28.7                     | 4.81                  | 92.89                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 8        | 2488.9993       | 64.4dBuV Avg  | 28.6                     | 4.8                   | 97.8                     | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 9        | 2400.9997       | 16.28dBuV Avg | 28.6                     | 4.69                  | 49.57                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 10       | 2399.083        | 16.21dBuV Avg | 28.6                     | 4.69                  | 49.5                     | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -20.33  |
| 11       | 2359.9165       | 17.9dBuV Avg  | 28.3                     | 4.65                  | 50.85                    | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -18.98  |
| 12       | 2499.0826       | 16.06dBuV Avg | 28.6                     | 4.87                  | 49.53                    | -       |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -       |
| 13       | 2500.8326       | 15.72dBuV Avg | 28.6                     | 4.87                  | 49.19                    | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -20.64  |
| 14       | 2538.4992       | 16.5dBuV Avg  | 28.7                     | 4.91                  | 50.11                    | 69.83   |
|          |                 | Azimuth:177   | Height:100               | Horz                  | Margin (dB)              | -19.72  |

LIMIT 1: FCC part 18, 769W 3m

## 7.6. RADIATED EMISSIONS

### TEST PROCEDURE

FCC / OST MP-5

The fundamental clock frequency generated or used in the EUT is 2,450 MHz; therefore the frequency range was investigated from 30 MHz to 10<sup>th</sup> harmonic.

Load for measurement of radiation on second and third harmonic: Two loads, one of 700 and other of 300 milliliters of water are used.

### LIMIT

§18.305 (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

| Equipment                                                    | Operating frequency<br>Distance | RF Power generated<br>by equipment<br>(watts) | Field strength limit (uV/m)               | Distance<br>(meters) |
|--------------------------------------------------------------|---------------------------------|-----------------------------------------------|-------------------------------------------|----------------------|
| Any type unless<br>otherwise<br>specified<br>(miscellaneous) | Any ISM<br>frequency            | Below 500                                     | 25                                        | 300                  |
|                                                              | Any ISM<br>frequency            | Above 500                                     | $25 \times \text{SQRT}(\text{power}/500)$ | 300                  |
|                                                              | Any non-ISM<br>frequency        | 500 or more                                   | 15                                        | 300                  |
|                                                              | Any non-ISM<br>frequency        | 500 or more                                   | $15 \times \text{SQRT}(\text{power}/500)$ | 300                  |

Average output power: 769 Watts (based on three measurements)

Limit in uV/m at 300m:  $25 \times \text{SQRT}(769/500) = 31 \text{uV/m}$  (29.83dBuV/m @ 300m)

$20 \times \log(300/10) = 29.54\text{dB}$ ,  $20 \times \log(300/3) = 40$

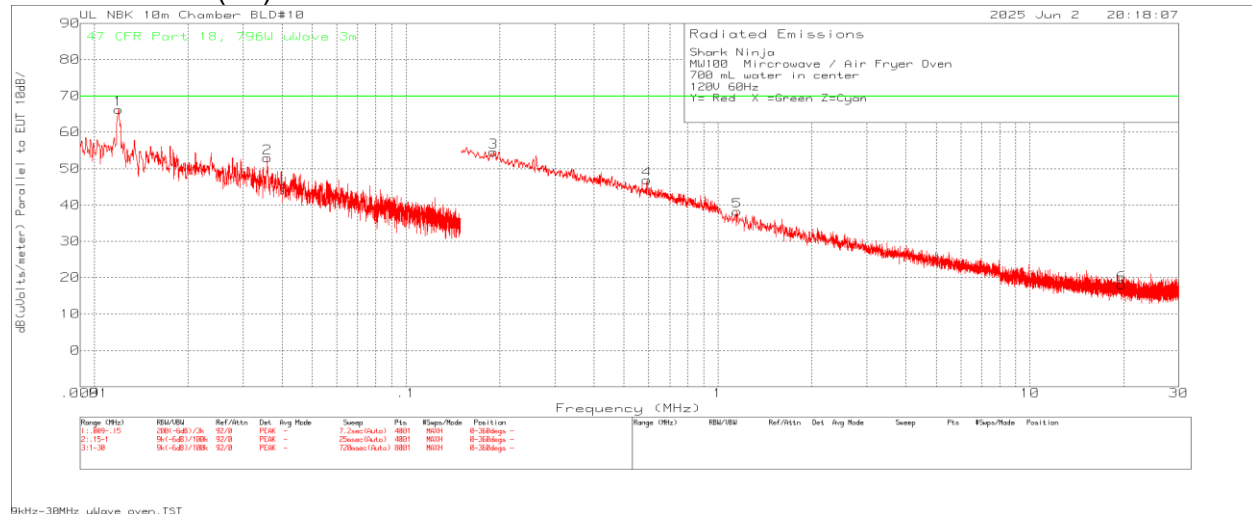
Limit in dBuV/m at 10m: 59.37dBuV/m (30MHz-1GHz)

Limit in dBuV/m at 3m: 69.83dBuV/m (1GHz-25GHz)

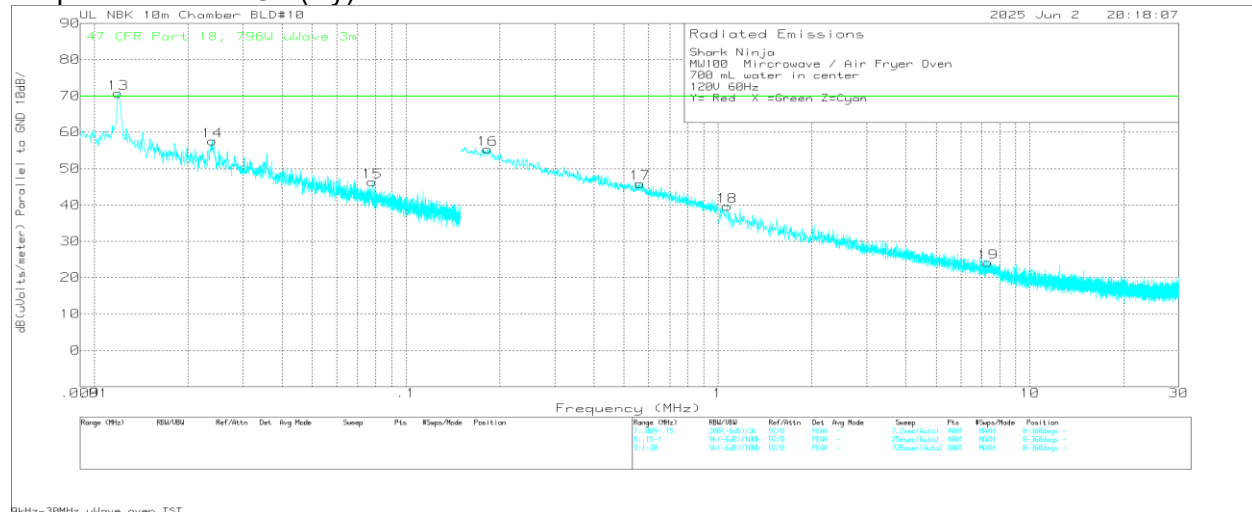
| Test Equipment List |                    |        |            |            |            |
|---------------------|--------------------|--------|------------|------------|------------|
| Description         | Manufacturer       | Model  | Identifier | Cal Date   | Cal Due    |
| Antenna Array       | UL                 | BOMS   | 36219      | 2024-07-01 | 2025-07-31 |
| EMI Receiver        | Rohde & Schwarz    | ESU    | 52994      | 2024-12-08 | 2025-12-31 |
| Hybrid Antenna      | SunAR RF Motion    | JB1-UN | 202902     | 2023-02-03 | 2025-02-28 |
| Loop Antenna        | EMCO               | 6502/1 | 19723      | 2022-12-12 | 2024-12-31 |
| EMI Receiver        | Rohde & Schwarz    | ESU    | 52994      | 2024-12-10 | 2025-12-31 |
| Loop Antenna        | EMCO               | 6502/1 | 19723      | 2024-12-11 | 2025-12-31 |
| Ambient Datalogger  | Extech Instruments | SD700  | 80491      | 2024-12-10 | 2025-12-31 |

## RESULTS

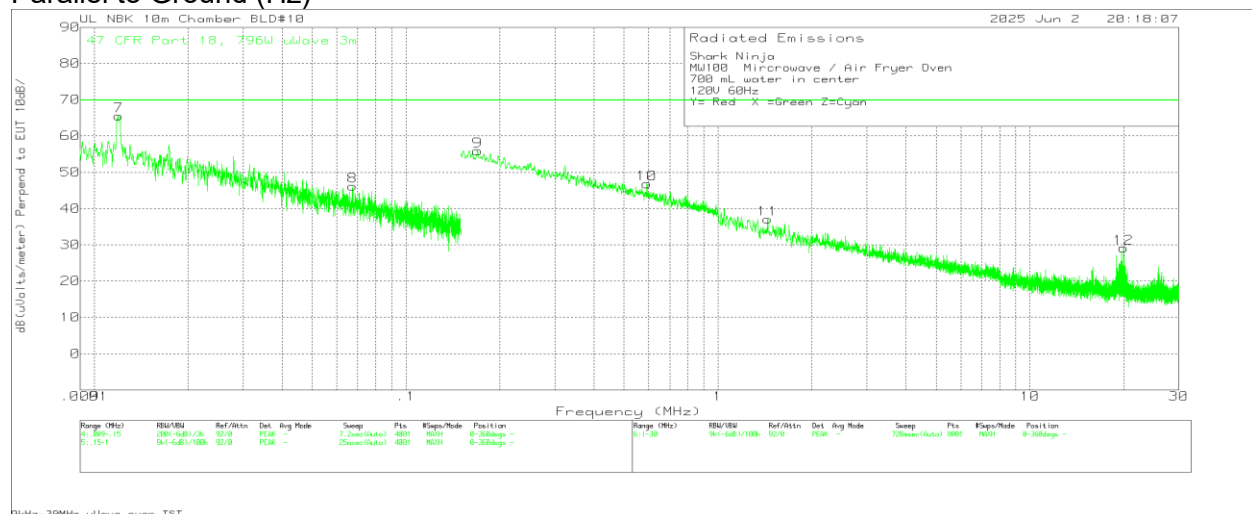
### Parallel to EUT (Hx)



### Perpendicular to EUT (Hy)



### Parallel to Ground (Hz)



Shark Ninja  
MW100 Microwave / Air Fryer Oven  
700 mL water in center  
120V 60Hz  
Y= Red X =Green Z=Cyan

## Trace Markers

| No.                  | Test Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading dB(uVolts/meter) | Limit:1 |
|----------------------|----------------------|---------------|--------------------------|-----------------------|------------------------------------|---------|
| =====                |                      |               |                          |                       |                                    |         |
| Parallel to EUT      |                      |               |                          |                       |                                    |         |
| 1                    | .012                 | 42.16dBuV Pk  | 24.1                     | 0                     | 66.26                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -3.57   |
| 2                    | .0359                | 36.35dBuV Pk  | 16.6                     | 0                     | 52.95                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -16.88  |
| 3                    | .1909                | 42.65dBuV Pk  | 11.9                     | 0                     | 54.55                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -15.28  |
| 4                    | .5924                | 34.88dBuV Pk  | 11.9                     | .1                    | 46.88                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -22.95  |
| 5                    | 1.1523               | 25.95dBuV Pk  | 12.2                     | .1                    | 38.25                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -31.58  |
| 6                    | 19.6978              | 6.99dBuV Pk   | 10.6                     | .5                    | 18.09                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -51.74  |
| Perpendicular to EUT |                      |               |                          |                       |                                    |         |
| 7                    | .012                 | 41.42dBuV Pk  | 24.1                     | 0                     | 65.52                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -4.31   |
| 8                    | .0674                | 32.78dBuV Pk  | 13.4                     | 0                     | 46.18                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -23.65  |
| 9                    | .1695                | 43.92dBuV Pk  | 12                       | 0                     | 55.92                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -13.91  |
| 10                   | .5913                | 34.81dBuV Pk  | 11.9                     | .1                    | 46.81                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -23.02  |
| 11                   | 1.4423               | 24.78dBuV Pk  | 12.2                     | .1                    | 37.08                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -32.75  |
| 12                   | 19.9443              | 18.12dBuV Pk  | 10.5                     | .5                    | 29.12                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -40.71  |
| Parallel to GND      |                      |               |                          |                       |                                    |         |
| 13                   | .0119                | 46.59dBuV Pk  | 24.1                     | 0                     | 70.69                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | .86     |
| 14                   | .0239                | 38.7dBuV Pk   | 18.9                     | 0                     | 57.6                               | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -12.23  |
| 15                   | .0779                | 33.35dBuV Pk  | 13                       | 0                     | 46.35                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -23.48  |
| 16                   | .1826                | 43.35dBuV Pk  | 12                       | 0                     | 55.35                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -14.48  |
| 17                   | .5628                | 33.99dBuV Pk  | 11.8                     | .1                    | 45.89                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -23.94  |
| 18                   | 1.0689               | 27.3dBuV Pk   | 12.2                     | .1                    | 39.6                               | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -30.23  |
| 19                   | 7.3401               | 12.06dBuV Pk  | 11.8                     | .3                    | 24.16                              | 69.83   |
|                      |                      | Azimuth:0-360 |                          |                       | Margin (dB)                        | -45.67  |

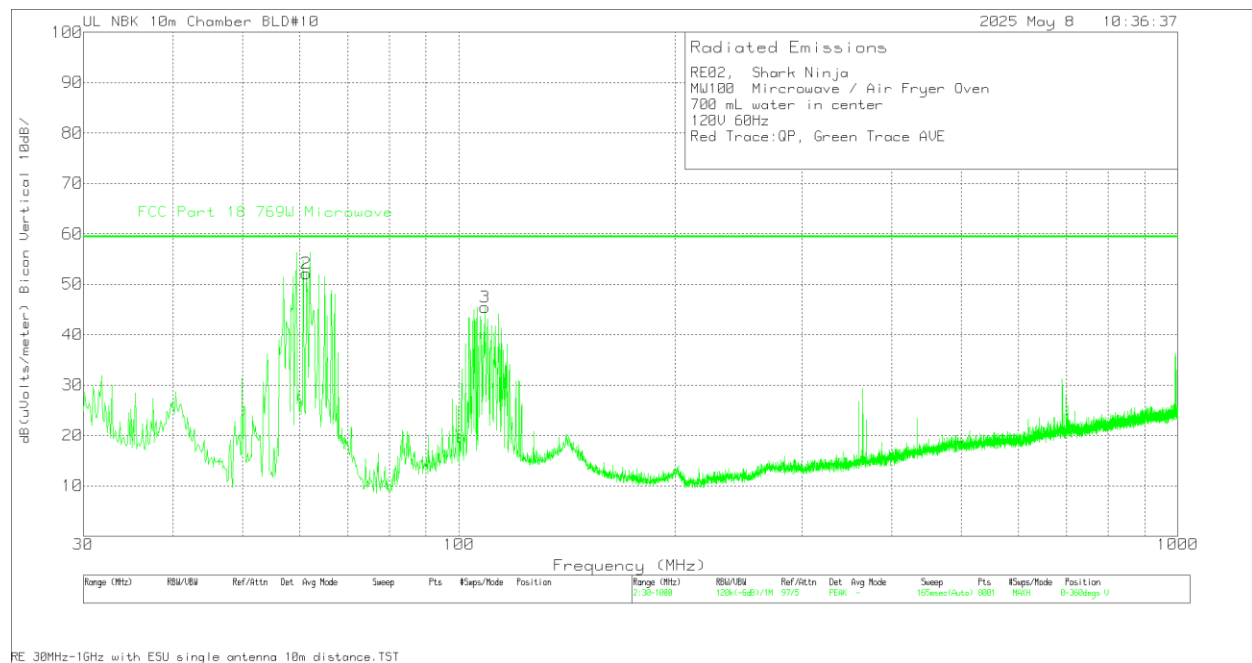
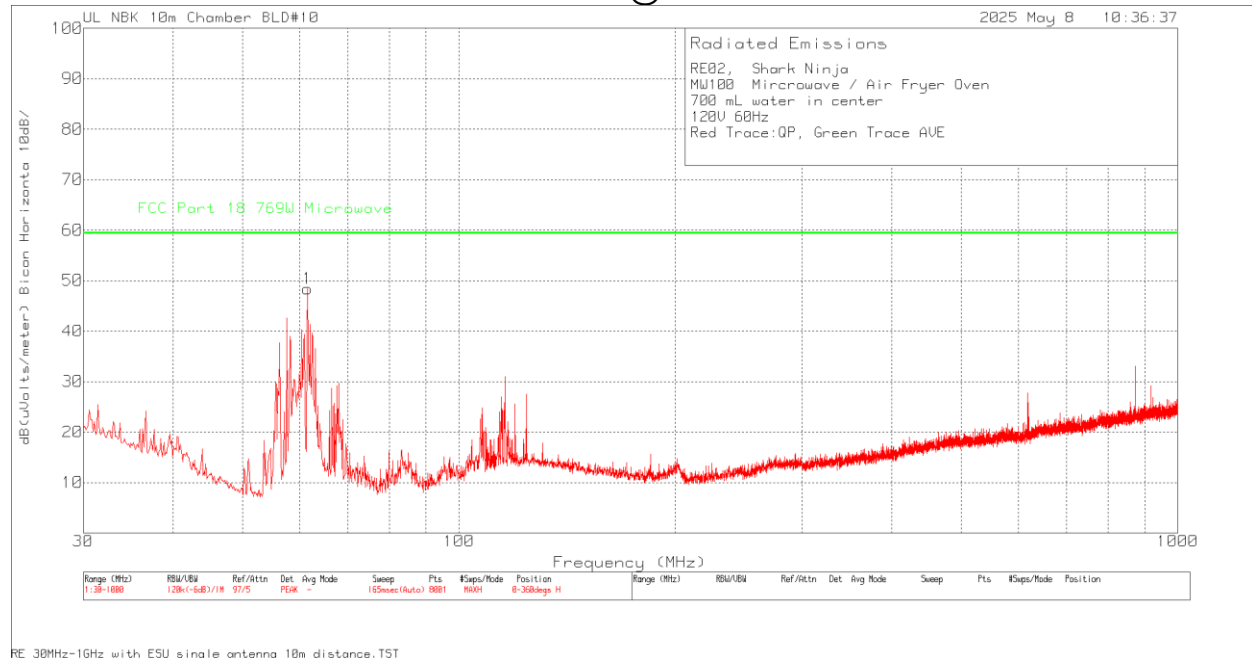
## Radiated Emission Data

| No.   | Test Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading dB(uVolts/meter) | Limit:1 |
|-------|----------------------|---------------|--------------------------|-----------------------|------------------------------------|---------|
| ===== |                      |               |                          |                       |                                    |         |
|       | .012                 | 29.49dBuV Qp  | 24.1                     | 0                     | 53.59                              | 69.83   |
|       | Azimuth: 9           |               |                          |                       | Margin (dB):                       | -16.24  |
|       | .012                 | 26.97dBuV Av  | 24.1                     | 0                     | 51.07                              | 69.83   |
|       | Azimuth: 9           |               |                          |                       | Margin (dB):                       | -18.76  |
|       | .012                 | 30.08dBuV Qp  | 24.1                     | 0                     | 54.18                              | 69.83   |
|       | Azimuth: 1           |               |                          |                       | Margin (dB):                       | -15.65  |
|       | .012                 | 27.47dBuV Av  | 24.1                     | 0                     | 51.57                              | 69.83   |
|       | Azimuth: 1           |               |                          |                       | Margin (dB):                       | -18.26  |
|       | .012                 | 29.59dBuV Qp  | 24.1                     | 0                     | 53.69                              | 69.83   |
|       | Azimuth: 0           |               |                          |                       | Margin (dB):                       | -16.14  |
|       | .012                 | 28.19dBuV Av  | 24.1                     | 0                     | 52.29                              | 69.83   |
|       | Azimuth: 0           |               |                          |                       | Margin (dB):                       | -17.54  |

LIMIT 1: 47 CFR Part 18, 796W uWave 3m

Pk - Peak detector  
Qp - Quasi-Peak detector  
Av - Average detection

## Radiated Emissions Scan from 30MHz – 1GHz @ 10m with 700mL of water in the center



**Radiated Emissions Data from 30MHz – 1GHz @ 10m with 700mL of water in the center**

RE02, Shark Ninja  
 MW100 Microwave / Air Fryer Oven  
 700 mL water in center  
 120V 60Hz  
 Red Trace:QP, Green Trace AVE

## Trace Markers

| No. | Test<br>Frequency<br>(MHz) | Meter<br>Reading              | Transducer<br>Factor<br>(dB/m) | Gain/Loss<br>Factor<br>(dB) | Corrected<br>Reading dB(uVolts/meter) | Limit:1         |
|-----|----------------------------|-------------------------------|--------------------------------|-----------------------------|---------------------------------------|-----------------|
| 1   | 61.525                     | 77.33dBuV Pk<br>Azimuth:0-360 | 13.6<br>Height:198             | -42.5<br>Horz               | 48.43<br>Margin (dB)                  | 59.37<br>-10.94 |
| 2   | 61.2825                    | 81.12dBuV Pk<br>Azimuth:0-360 | 13.5<br>Height:299             | -42.5<br>Vert               | 52.12<br>Margin (dB)                  | 59.37<br>-7.25  |
| 3   | 108.6913                   | 68.94dBuV Pk<br>Azimuth:0-360 | 18.3<br>Height:99              | -41.8<br>Vert               | 45.44<br>Margin (dB)                  | 59.37<br>-13.93 |

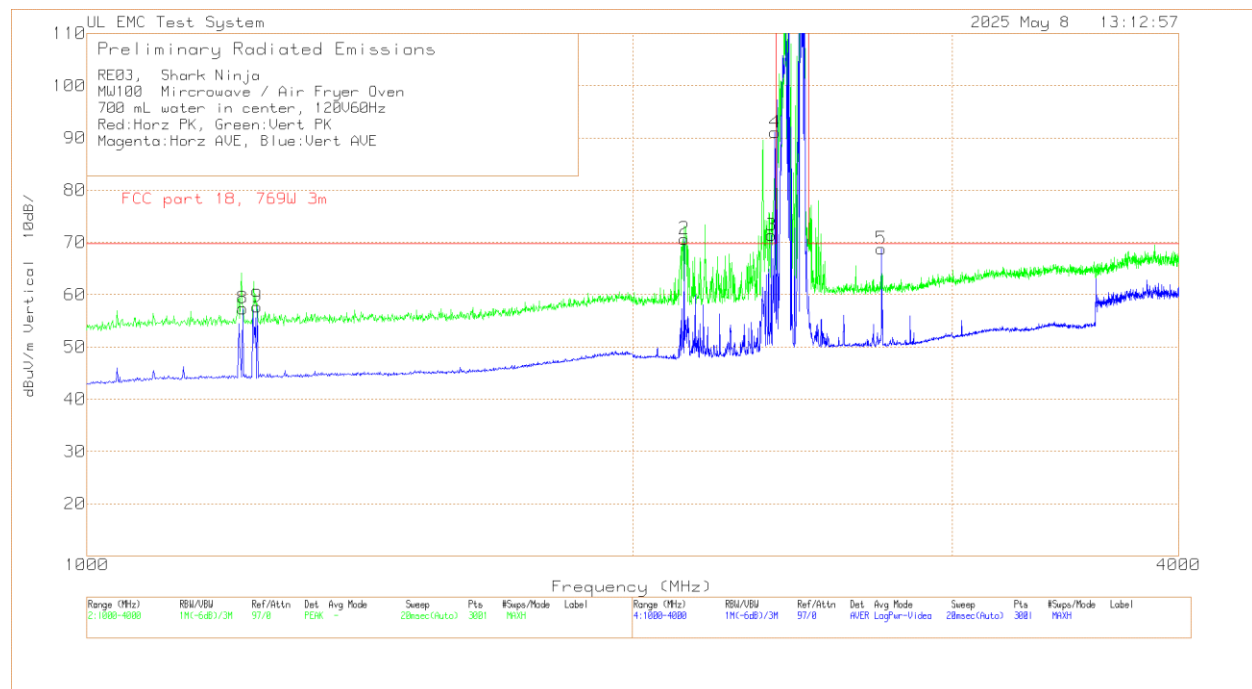
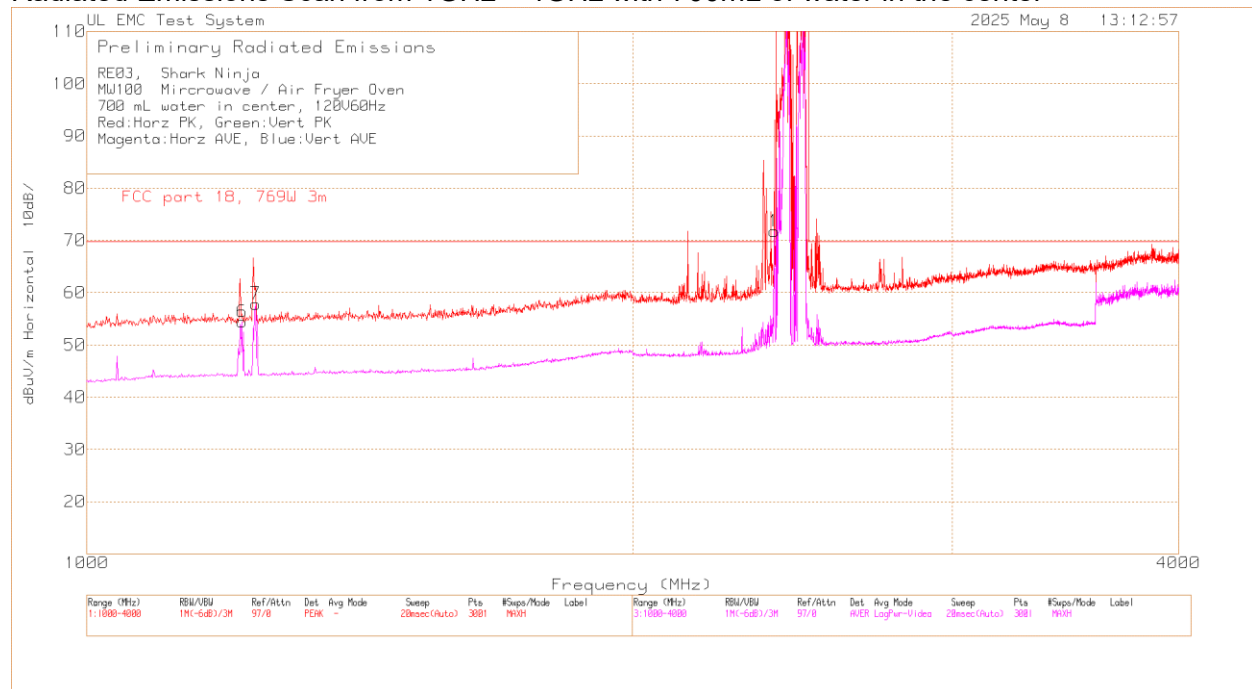
## Radiated Emission Data

| No.    | Test<br>Frequency<br>(MHz)   | Meter<br>Reading | Transducer<br>Factor<br>(dB/m) | Gain/Loss<br>Factor<br>(dB) | Corrected<br>Reading dB(uVolts/meter) | Limit:1        |
|--------|------------------------------|------------------|--------------------------------|-----------------------------|---------------------------------------|----------------|
| 61.283 | 83.21dBuV Qp<br>Azimuth: 184 | Height:301       | 13.5                           | -42.5                       | 54.21<br>Margin (dB):                 | 59.37<br>-5.16 |
| 61.283 | 85.29dBuV Qp<br>Azimuth: 184 | Height:301       | 13.5                           | -42.5                       | 56.29<br>Margin (dB):                 | 59.37<br>-3.08 |

LIMIT 1: FCC Part 18 769W Microwave

Pk - Peak detector  
 Qp - Quasi-Peak detector

## Radiated Emissions Scan from 1GHz – 4GHz with 700mL of water in the center



\* Peak and Average scans were conducted. Markers were placed on peak and/or average trace on interest frequencies. Emissions close to or above the limit when looking at average trace were maximized and measured with average detector using 1Hz VBW. See data below.



RE03, Shark Ninja  
MW100 Microwave / Air Fryer Oven  
700 mL water in center, 120V60Hz  
Red:Horz PK, Green:Vert PK  
Magenta:Horz AVE, Blue:Vert AVE

Trace Markers

| Test No. | Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading | Limit:1 dBuV/m |
|----------|-----------------|---------------|--------------------------|-----------------------|-------------------|----------------|
| 1        | 2394            | 38.45dBuV Avg | 28.6                     | 4.69                  | 71.74             | 69.83          |
|          |                 | Azimuth:0-360 | Height:199               | Horz                  | Margin (dB)       | 1.91           |
| 6        | 1218            | 26.21dBuV Avg | 24.7                     | 3.53                  | 54.44             | 69.83          |
|          |                 | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)       | -15.39         |
| 7        | 1239            | 29.59dBuV Avg | 24.7                     | 3.55                  | 57.84             | 69.83          |
|          |                 | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)       | -11.99         |
| 2        | 2135            | 38.72dBuV Avg | 27.4                     | 4.53                  | 70.65             | 69.83          |
|          |                 | Azimuth:0-360 | Height:151               | Vert                  | Margin (dB)       | .82            |
| 3        | 2385            | 38.17dBuV Avg | 28.5                     | 4.68                  | 71.35             | 69.83          |
|          |                 | Azimuth:0-360 | Height:199               | Vert                  | Margin (dB)       | 1.52           |
| 4        | 2396            | 57.75dBuV Avg | 28.6                     | 4.68                  | 91.03             | 69.83          |
|          |                 | Azimuth:0-360 | Height:151               | Vert                  | Margin (dB)       | 21.2           |
| 5        | 2743            | 34.75dBuV Avg | 28.9                     | 5.14                  | 68.79             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -1.04          |
| 8        | 1219            | 29.15dBuV Avg | 24.7                     | 3.53                  | 57.38             | 69.83          |
|          |                 | Azimuth:0-360 | Height:151               | Vert                  | Margin (dB)       | -12.45         |
| 9        | 1241            | 29.44dBuV Avg | 24.7                     | 3.56                  | 57.7              | 69.83          |
|          |                 | Azimuth:0-360 | Height:151               | Vert                  | Margin (dB)       | -12.13         |

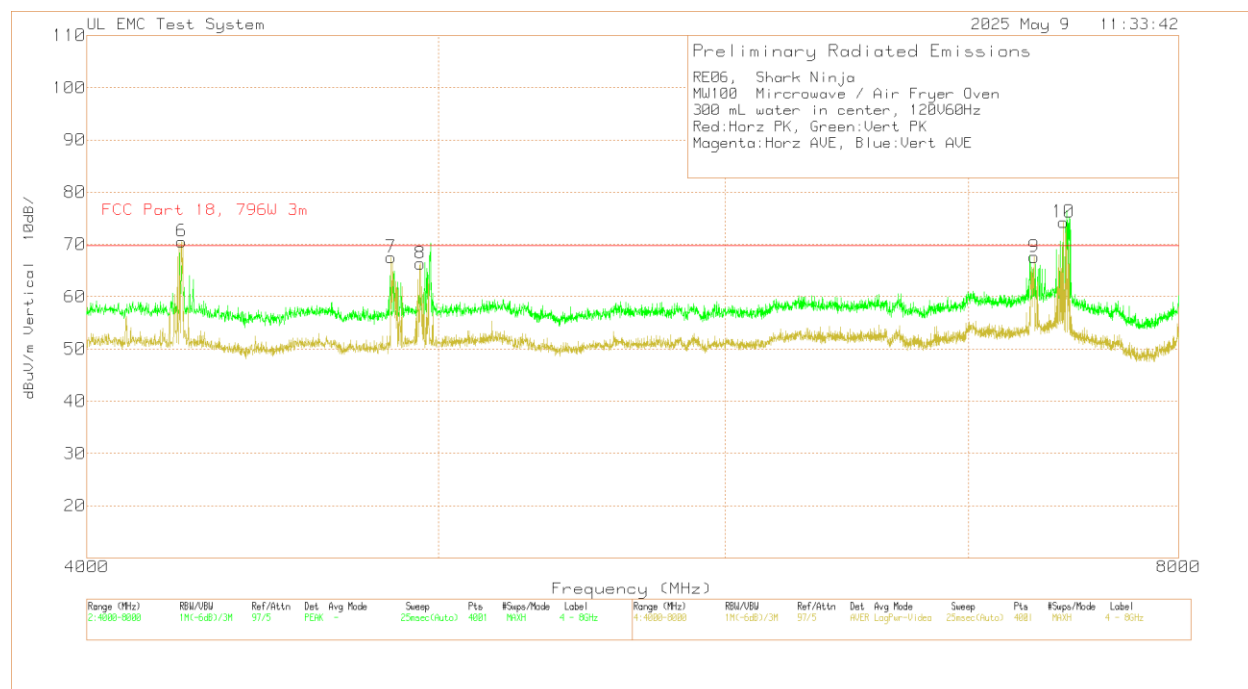
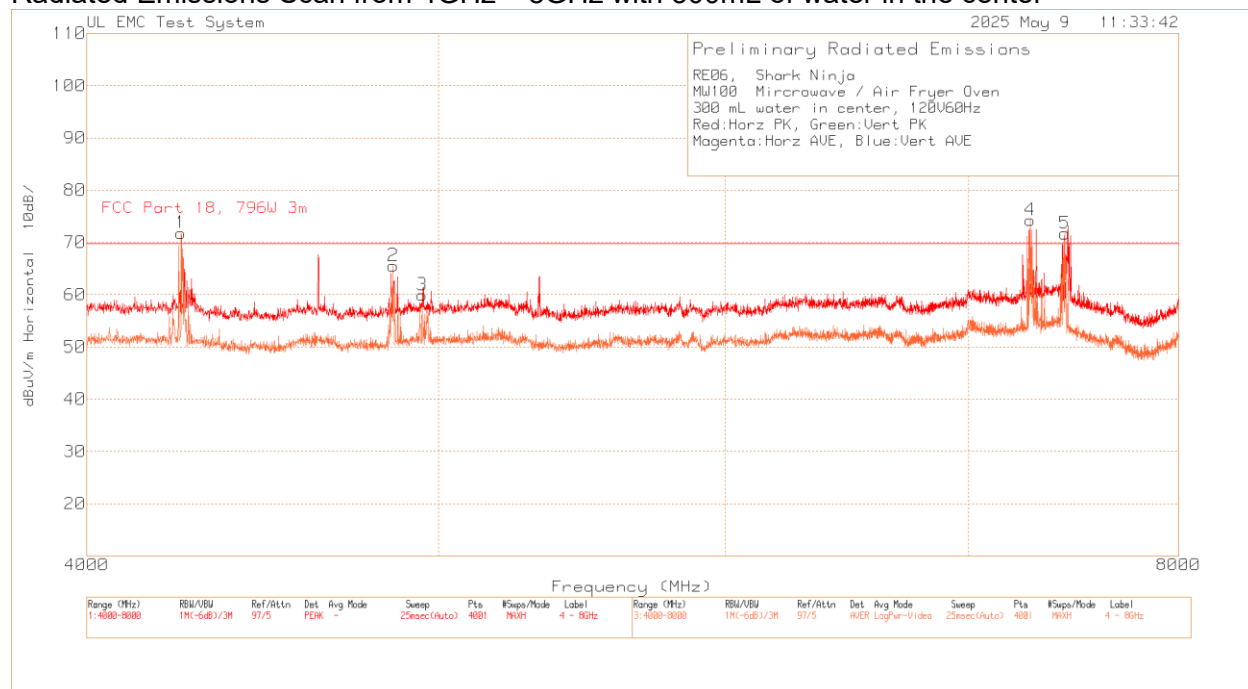
Radiated Emission Data

| Test Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading | Limit:1 dBuV/m |
|----------------------|---------------|--------------------------|-----------------------|-------------------|----------------|
| 2394.396667          | 17.73dBuV Av  | 28.6                     | 4.69                  | 51.02             | 69.83          |
| Azimuth: 351         | Height:110    |                          |                       | Margin (dB):      | -18.81         |
| 2134.514             | 11.24dBuV Av  | 27.4                     | 4.52                  | 43.16             | 69.83          |
| Azimuth: 0           | Height:110    |                          |                       | Margin (dB):      | -26.67         |
| 2385.134667          | 13.36dBuV Av  | 28.5                     | 4.68                  | 46.54             | 69.83          |
| Azimuth: 360         | Height:110    |                          |                       | Margin (dB):      | -23.29         |
| 2398.496667          | 29.42dBuV Av  | 28.6                     | 4.69                  | 62.71             | 69.83          |
| Azimuth: 360         | Height:114    |                          |                       | Margin (dB):      | -7.12          |
| 2739.196667          | 11.1dBuV Av   | 28.9                     | 5.11                  | 45.11             | 69.83          |
| Azimuth: 0           | Height:114    |                          |                       | Margin (dB):      | -24.72         |

LIMIT 1: FCC part 18, 769W 3m

Pk - Peak detector  
Av - Average detection  
Avg - Video < Resolution bandwidth Log IF

## Radiated Emissions Scan from 4GHz – 8GHz with 300mL of water in the center



\* Peak and Average scans were conducted. Markers were placed on peak and/or average trace on interest frequencies. Emissions close to or above the limit when looking at average trace were maximized and measured with average detector using 1Hz VBW. See data below.

RE06, Shark Ninja

MW100 Microwave / Air Fryer Oven

300 mL water in center, 120V60Hz

Red:Horz PK, Green:Vert PK

Magenta:Horz AVE, Blue:Vert AVE

## Trace Markers

| Test No. | Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading dBuV/m | Limit:1 |
|----------|-----------------|---------------|--------------------------|-----------------------|--------------------------|---------|
| 1        | 4247            | 75.23dBuV Avg | 28.2                     | -31.62                | 71.81                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:151               | Horz                  | Margin (dB)              | 1.98    |
| 2        | 4859            | 68.42dBuV Avg | 27.7                     | -30.58                | 65.54                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)              | -4.29   |
| 3        | 4949            | 61.86dBuV Avg | 27.8                     | -29.73                | 59.93                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)              | -9.9    |
| 4        | 7280            | 69.53dBuV Avg | 30.3                     | -25.55                | 74.28                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)              | 4.45    |
| 5        | 7441            | 67.89dBuV Avg | 30.5                     | -26.68                | 71.71                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)              | 1.88    |
| 6        | 4248            | 74dBuV Avg    | 28.2                     | -31.63                | 70.57                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | .74     |
| 7        | 4852            | 70.64dBuV Avg | 27.7                     | -30.79                | 67.55                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:151               | Vert                  | Margin (dB)              | -2.28   |
| 8        | 4943            | 68.3dBuV Avg  | 27.8                     | -29.75                | 66.35                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | -3.48   |
| 9        | 7300            | 62.46dBuV Avg | 30.5                     | -25.35                | 67.61                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | -2.22   |
| 10       | 7436            | 70.5dBuV Avg  | 30.6                     | -26.81                | 74.29                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | 4.46    |

LIMIT 1: FCC Part 18, 796W 3m

Pk - Peak detector

Avg - Video &lt; Resolution bandwidth Log IF

Av - Average detection

RE06, Shark Ninja  
MW100 Microwave / Air Fryer Oven  
300 mL water in center, 120V60Hz  
Red:Horz PK, Green:Vert PK  
Magenta:Horz AVE, Blue:Vert AVE

Radiated Emission Data

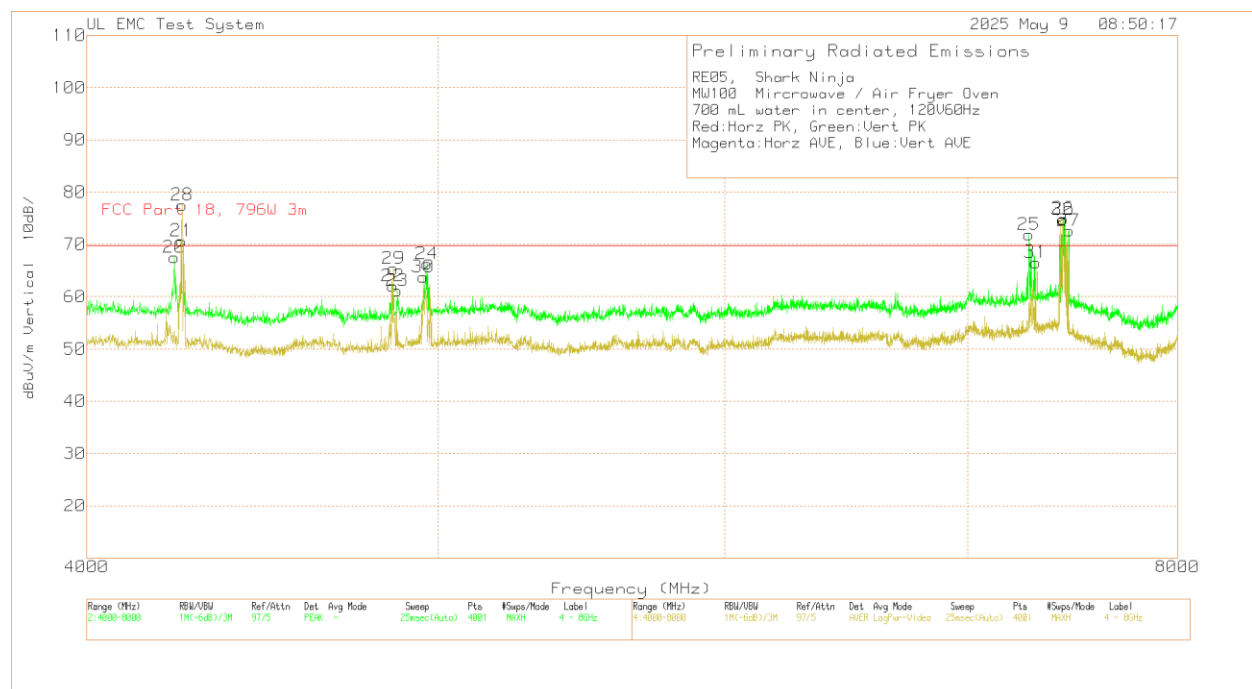
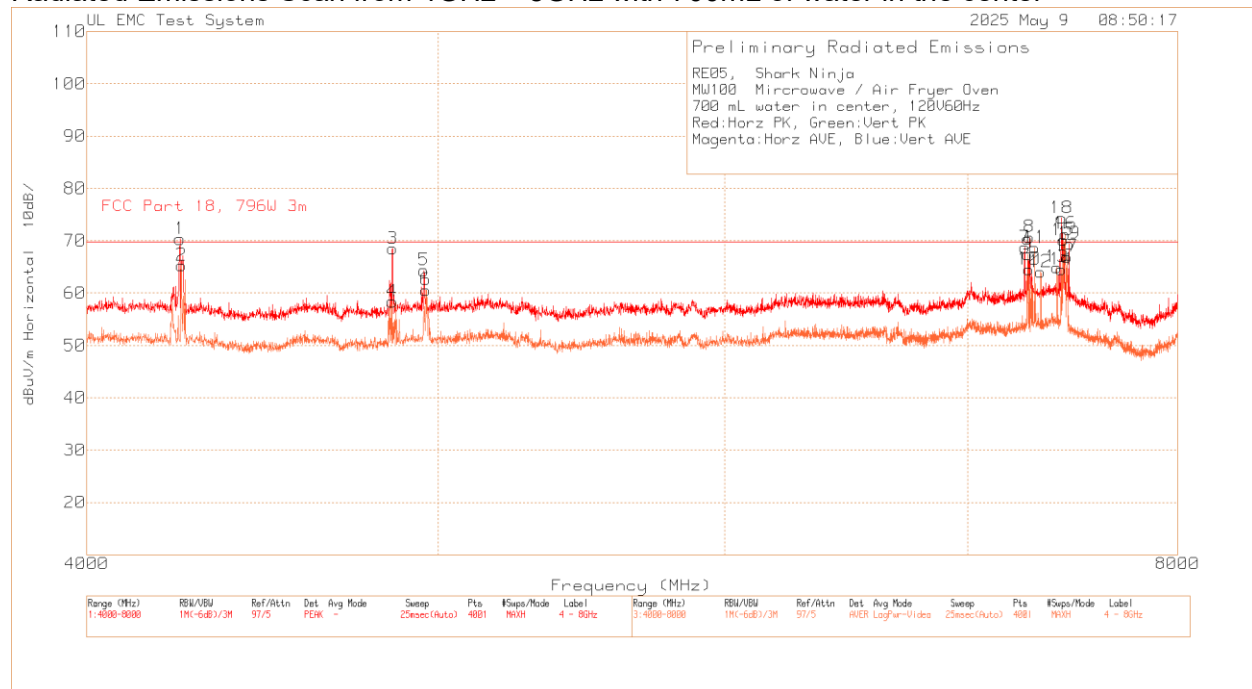
| Test Frequency (MHz) | Meter Reading          | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading dBuV/m   | Limit:1      |
|----------------------|------------------------|--------------------------|-----------------------|----------------------------|--------------|
| 4251.02              | 65.27dBuV Av           | 28.2                     | -31.53                | 61.94                      | 69.83        |
| Azimuth: 113         | Height:101 Vert        |                          |                       | Margin (dB): -7.89         |              |
| 4254.79              | 60.89dBuV Av           | 28.2                     | -31.67                | 57.42                      | 69.83        |
| Azimuth: 138         | Height:101 Horz        |                          |                       | Margin (dB): -12.41        |              |
| 4868.9525            | 57.68dBuV Av           | 27.7                     | -30.46                | 54.92                      | 69.83        |
| Azimuth: 207         | Height:101 Horz        |                          |                       | Margin (dB): -14.91        |              |
| 4871.48              | 50.33dBuV Av           | 27.7                     | -30.5                 | 47.53                      | 69.83        |
| Azimuth: 225         | Height:101 Vert        |                          |                       | Margin (dB): -22.3         |              |
| <b>4967.89</b>       | <b>59.35dBuV Av</b>    | <b>27.8</b>              | <b>-29.71</b>         | <b>57.44</b>               | <b>69.83</b> |
| <b>Azimuth: 199</b>  | <b>Height:101 Horz</b> |                          |                       | <b>Margin (dB): -12.39</b> |              |
| <b>4974.14</b>       | <b>59.59dBuV Av</b>    | <b>27.8</b>              | <b>-29.59</b>         | <b>57.8</b>                | <b>69.83</b> |
| <b>Azimuth: 162</b>  | <b>Height:101 Vert</b> |                          |                       | <b>Margin (dB): -12.03</b> |              |
| 7268.33              | 45.24dBuV Av           | 30.2                     | -25.71                | 49.73                      | 69.83        |
| Azimuth: 115         | Height:101 Horz        |                          |                       | Margin (dB): -20.1         |              |
| <b>7272.2125</b>     | <b>49.52dBuV Av</b>    | <b>30.2</b>              | <b>-25.8</b>          | <b>53.92</b>               | <b>69.83</b> |
| <b>Azimuth: 191</b>  | <b>Height:101 Vert</b> |                          |                       | <b>Margin (dB): -15.91</b> |              |
| <b>7458.12</b>       | <b>49.16dBuV Av</b>    | <b>30.3</b>              | <b>-26.88</b>         | <b>52.58</b>               | <b>69.83</b> |
| <b>Azimuth: 169</b>  | <b>Height:101 Horz</b> |                          |                       | <b>Margin (dB): -17.25</b> |              |
| 7422.64              | 45.72dBuV Av           | 30.8                     | -26.51                | 50.01                      | 69.83        |
| Azimuth: 170         | Height:101 Vert        |                          |                       | Margin (dB): -19.82        |              |

LIMIT 1: FCC Part 18, 796W 3m

Pk - Peak detector  
Avg - Video < Resolution bandwidth Log IF  
Av - Average detection

Data in bold is second and third harmonic highest emissions

## Radiated Emissions Scan from 4GHz – 8GHz with 700mL of water in the center



\* Peak and Average scans were conducted. Markers were placed on peak and/or average trace on interest frequencies. Emissions close to or above the limit when looking at average trace were maximized and measured with average detector using 1Hz VBW. See data below.

RE05, Shark Ninja  
MW100 Microwave / Air Fryer Oven  
700 mL water in center, 120V60Hz  
Red:Horz PK, Green:Vert PK  
Magenta:Horz AVE, Blue:Vert AVE

## Trace Markers

| No. | Test Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading dBuV/m | Limit:1 |
|-----|----------------------|---------------|--------------------------|-----------------------|--------------------------|---------|
| 1   | 4244                 | 73.6dBuV Pk   | 28.2                     | -31.45                | 70.35                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:149               | Horz                  | Margin (dB)              | .52     |
| 3   | 4858                 | 71.41dBuV Pk  | 27.7                     | -30.62                | 68.49                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:99                | Horz                  | Margin (dB)              | -1.34   |
| 5   | 4955                 | 66.17dBuV Pk  | 27.8                     | -29.62                | 64.35                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:99                | Horz                  | Margin (dB)              | -5.48   |
| 7   | 7259                 | 64.33dBuV Pk  | 30.1                     | -25.7                 | 68.73                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:99                | Horz                  | Margin (dB)              | -1.1    |
| 8   | 7282                 | 65.9dBuV Pk   | 30.3                     | -25.5                 | 70.7                     | 69.83   |
|     |                      | Azimuth:0-360 | Height:99                | Horz                  | Margin (dB)              | .87     |
| 18  | 7431                 | 70.38dBuV Pk  | 30.7                     | -26.72                | 74.36                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:99                | Horz                  | Margin (dB)              | 4.53    |
| 19  | 7466                 | 66.34dBuV Pk  | 30.1                     | -26.99                | 69.45                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:99                | Horz                  | Margin (dB)              | -.38    |
| 20  | 4229                 | 70.6dBuV Pk   | 28.3                     | -31.41                | 67.49                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)              | -2.34   |
| 21  | 4248                 | 74.07dBuV Pk  | 28.2                     | -31.63                | 70.64                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)              | .81     |
| 22  | 4859                 | 64.9dBuV Pk   | 27.7                     | -30.58                | 62.02                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:149               | Vert                  | Margin (dB)              | -7.81   |
| 23  | 4872                 | 63.94dBuV Pk  | 27.7                     | -30.48                | 61.16                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)              | -8.67   |
| 24  | 4965                 | 68.13dBuV Pk  | 27.8                     | -29.67                | 66.26                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)              | -3.57   |
| 25  | 7278                 | 66.97dBuV Pk  | 30.3                     | -25.42                | 71.85                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)              | 2.02    |
| 26  | 7439                 | 71.09dBuV Pk  | 30.6                     | -26.79                | 74.9                     | 69.83   |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)              | 5.07    |
| 27  | 7465                 | 69.32dBuV Pk  | 30.2                     | -26.89                | 72.63                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)              | 2.8     |
| 2   | 4248                 | 68.72dBuV Avg | 28.2                     | -31.63                | 65.29                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:151               | Horz                  | Margin (dB)              | -4.54   |
| 4   | 4857                 | 61.39dBuV Avg | 27.7                     | -30.7                 | 58.39                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)              | -11.44  |
| 6   | 4962                 | 62.48dBuV Avg | 27.8                     | -29.67                | 60.61                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)              | -9.22   |
| 9   | 7271                 | 63.01dBuV Avg | 30.2                     | -25.84                | 67.37                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)              | -2.46   |
| 10  | 7279                 | 59.78dBuV Avg | 30.3                     | -25.53                | 64.55                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)              | -5.28   |
| 11  | 7305                 | 63.55dBuV Avg | 30.5                     | -25.37                | 68.68                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)              | -1.15   |
| 12  | 7333                 | 58.91dBuV Avg | 30.7                     | -25.56                | 64.05                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)              | -5.78   |
| 13  | 7409                 | 60.3dBuV Avg  | 31.1                     | -26.43                | 64.97                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)              | -4.86   |
| 14  | 7429                 | 60.65dBuV Avg | 30.7                     | -26.83                | 64.52                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)              | -5.31   |
| 15  | 7438                 | 66.2dBuV Avg  | 30.6                     | -26.67                | 70.13                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)              | .3      |
| 16  | 7449                 | 67.74dBuV Avg | 30.4                     | -26.82                | 71.32                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Horz                  | Margin (dB)              | 1.49    |
| 17  | 7456                 | 63.77dBuV Avg | 30.3                     | -27.12                | 66.95                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:151               | Horz                  | Margin (dB)              | -2.88   |
| 28  | 4250                 | 80.97dBuV Avg | 28.2                     | -31.68                | 77.49                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:151               | Vert                  | Margin (dB)              | 7.66    |
| 29  | 4861                 | 68.2dBuV Avg  | 27.7                     | -30.54                | 65.36                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | -4.47   |
| 30  | 4953                 | 65.55dBuV Avg | 27.8                     | -29.59                | 63.76                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | -6.07   |
| 31  | 7310                 | 61.51dBuV Avg | 30.5                     | -25.46                | 66.55                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | -3.28   |
| 32  | 7436                 | 70.94dBuV Avg | 30.6                     | -26.81                | 74.73                    | 69.83   |
|     |                      | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | 4.9     |

LIMIT 1: FCC Part 18, 796W 3m

Pk - Peak detector  
Avg - Video < Resolution bandwidth Log IF  
Av - Average detection

## Radiated Emission Data

| Test<br>Frequency<br>(MHz) | Meter<br>Reading       | Transducer<br>Factor<br>(dB/m) | Gain/Loss<br>Factor<br>(dB) | Corrected<br>Reading       | Limit:1<br>dBuV/m |
|----------------------------|------------------------|--------------------------------|-----------------------------|----------------------------|-------------------|
| 4251.2                     | 58.77dBuV Av           | 28.2                           | -31.53                      | 55.44                      | 69.83             |
| Azimuth: 236               | Height:111 Horz        |                                |                             | Margin (dB): -14.39        |                   |
| 4254.168205                | 55.32dBuV Av           | 28.2                           | -31.58                      | 51.94                      | 69.83             |
| Azimuth: 345               | Height:102 Vert        |                                |                             | Margin (dB): -17.89        |                   |
| <b>4858.45</b>             | <b>62.35dBuV Av</b>    | <b>27.7</b>                    | <b>-30.56</b>               | <b>59.49</b>               | <b>69.83</b>      |
| <b>Azimuth: 201</b>        | <b>Height:102 Horz</b> |                                |                             | <b>Margin (dB): -10.34</b> |                   |
| <b>4854.735</b>            | <b>58.62dBuV Av</b>    | <b>27.7</b>                    | <b>-30.57</b>               | <b>55.75</b>               | <b>69.83</b>      |
| <b>Azimuth: 237</b>        | <b>Height:102 Vert</b> |                                |                             | <b>Margin (dB): -14.08</b> |                   |
| 4961.01                    | 60dBuV Av              | 27.8                           | -29.64                      | 58.16                      | 69.83             |
| Azimuth: 203               | Height:102 Horz        |                                |                             | Margin (dB): -11.67        |                   |
| 4968.675                   | 56.76dBuV Av           | 27.8                           | -29.74                      | 54.82                      | 69.83             |
| Azimuth: 138               | Height:102 Vert        |                                |                             | Margin (dB): -15.01        |                   |
| <b>7291.95</b>             | <b>58.46dBuV Av</b>    | <b>30.4</b>                    | <b>-25.51</b>               | <b>63.35</b>               | <b>69.83</b>      |
| <b>Azimuth: 107</b>        | <b>Height:102 Horz</b> |                                |                             | <b>Margin (dB): -6.48</b>  |                   |
| <b>7300.99</b>             | <b>57.35dBuV Av</b>    | <b>30.5</b>                    | <b>-25.35</b>               | <b>62.5</b>                | <b>69.83</b>      |
| <b>Azimuth: 204</b>        | <b>Height:100 Vert</b> |                                |                             | <b>Margin (dB): -7.33</b>  |                   |
| 7443.59                    | 45.59dBuV Av           | 30.5                           | -26.61                      | 49.48                      | 69.83             |
| Azimuth: 225               | Height:100 Horz        |                                |                             | Margin (dB): -20.35        |                   |
| 7426.09                    | 48.84dBuV Av           | 30.8                           | -26.63                      | 53.01                      | 69.83             |
| Azimuth: 215               | Height:100 Vert        |                                |                             | Margin (dB): -16.82        |                   |

LIMIT 1: FCC Part 18, 796W 3m

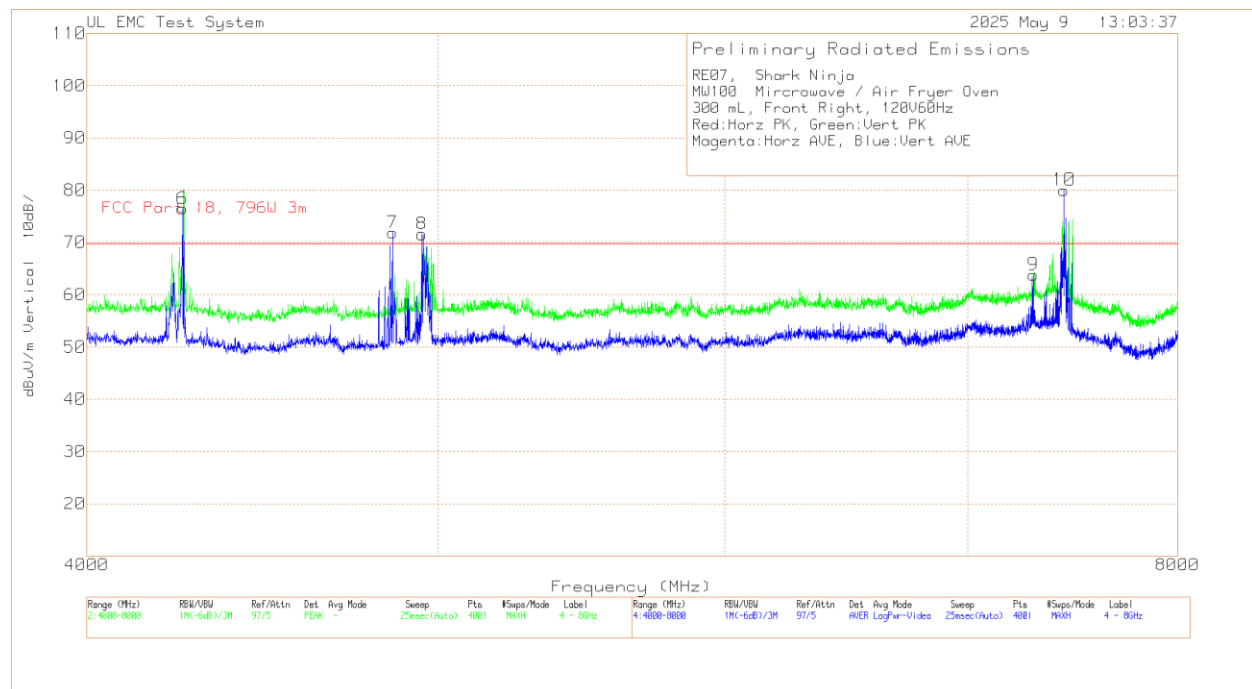
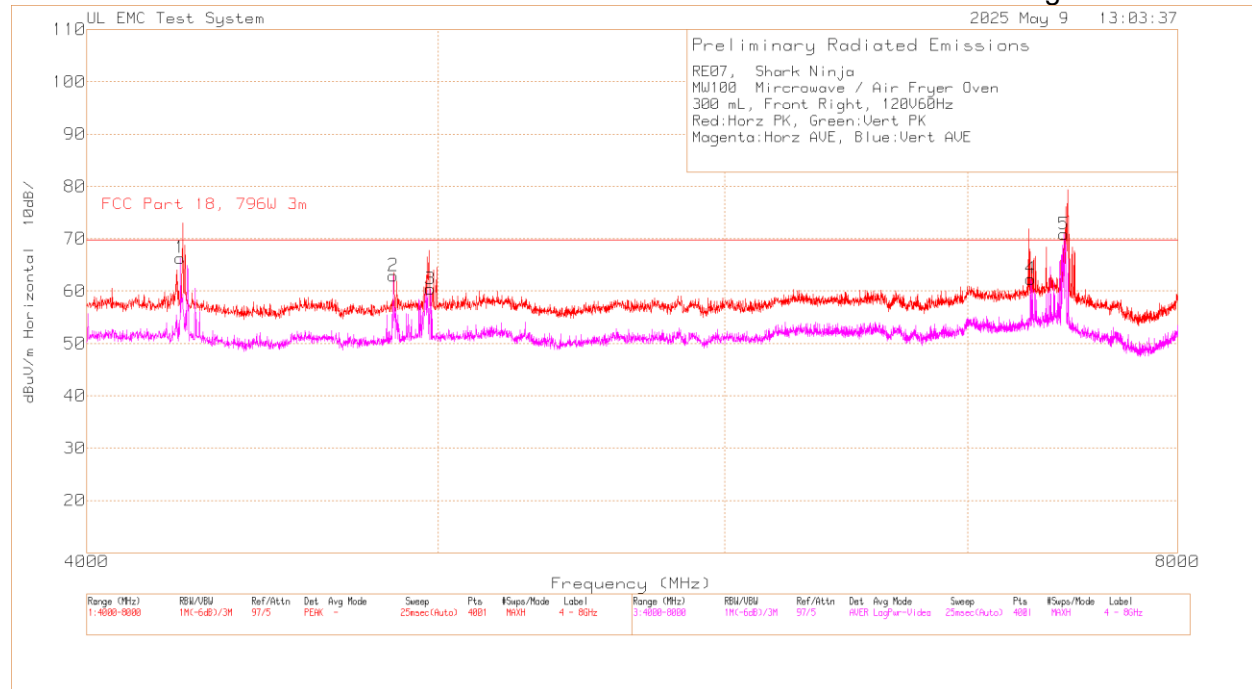
Pk - Peak detector

Avg - Video &lt; Resolution bandwidth Log IF

Av - Average detection

Data in bold is second and third harmonic highest emissions

## Radiated Emissions Scan from 4GHz – 8GHz with 300mL of water in the front right corner



\* Peak and Average scans were conducted. Markers were placed on peak and/or average trace on interest frequencies. Emissions close to or above the limit when looking at average trace were maximized and measured with average detector using 1Hz VBW. See data below.



RE07, Shark Ninja  
MW100 Microwave / Air Fryer Oven  
300 mL, Front Right, 120V60Hz  
Red:Horz PK, Green:Vert PK  
Magenta:Horz AVE, Blue:Vert AVE

Trace Markers

| Test No. | Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading dBuV/m | Limit:1 |
|----------|-----------------|---------------|--------------------------|-----------------------|--------------------------|---------|
| 1        | 4245            | 69.55dBuV Avg | 28.2                     | -31.41                | 66.34                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)              | -3.49   |
| 2        | 4860            | 65.8dBuV Avg  | 27.7                     | -30.57                | 62.93                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)              | -6.9    |
| 3        | 4976            | 62.25dBuV Avg | 27.8                     | -29.63                | 60.42                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)              | -9.41   |
| 4        | 7288            | 57.45dBuV Avg | 30.4                     | -25.5                 | 62.35                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)              | -7.48   |
| 5        | 7443            | 67.15dBuV Avg | 30.5                     | -26.78                | 70.87                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)              | 1.04    |
| 6        | 4251            | 79.8dBuV Avg  | 28.2                     | -31.53                | 76.47                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | 6.64    |
| 7        | 4858            | 74.77dBuV Avg | 27.7                     | -30.62                | 71.85                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | 2.02    |
| 8        | 4949            | 73.52dBuV Avg | 27.8                     | -29.73                | 71.59                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | 1.76    |
| 9        | 7299            | 58.82dBuV Avg | 30.4                     | -25.41                | 63.81                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | -6.02   |
| 10       | 7443            | 76.29dBuV Avg | 30.5                     | -26.78                | 80.01                    | 69.83   |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)              | 10.18   |

LIMIT 1: FCC Part 18, 796W 3m

Pk - Peak detector  
Avg - Video < Resolution bandwidth Log IF  
Av - Average detection

## Radiated Emission Data

| Test<br>Frequency<br>(MHz) | Meter<br>Reading       | Transducer<br>Factor<br>(dB/m) | Gain/Loss<br>Factor<br>(dB) | Corrected<br>Reading dBuV/m | Limit:1      |
|----------------------------|------------------------|--------------------------------|-----------------------------|-----------------------------|--------------|
| 4255.67                    | 64.58dBuV Av           | 28.2                           | -31.66                      | 61.12                       | 69.83        |
| Azimuth: 150               | Height:100 Horz        |                                |                             | Margin (dB): -8.71          |              |
| 4255.67                    | 65.29dBuV Av           | 28.2                           | -31.66                      | 61.83                       | 69.83        |
| Azimuth: 202               | Height:100 Vert        |                                |                             | Margin (dB): -8             |              |
| 4866.99                    | 55.78dBuV Av           | 27.7                           | -30.45                      | 53.03                       | 69.83        |
| Azimuth: 174               | Height:100 Horz        |                                |                             | Margin (dB): -16.8          |              |
| 4871.84                    | 51.22dBuV Av           | 27.7                           | -30.48                      | 48.44                       | 69.83        |
| Azimuth: 233               | Height:100 Vert        |                                |                             | Margin (dB): -21.39         |              |
| <b>4962.69</b>             | <b>60.63dBuV Av</b>    | <b>27.8</b>                    | <b>-29.63</b>               | <b>58.8</b>                 | <b>69.83</b> |
| <b>Azimuth: 176</b>        | <b>Height:100 Vert</b> |                                |                             | <b>Margin (dB): -11.03</b>  |              |
| <b>4950.05</b>             | <b>56.68dBuV Av</b>    | <b>27.8</b>                    | <b>-29.62</b>               | <b>54.86</b>                | <b>69.83</b> |
| <b>Azimuth: 205</b>        | <b>Height:100 Horz</b> |                                |                             | <b>Margin (dB): -14.97</b>  |              |
| 7298.97                    | 45.34dBuV Av           | 30.4                           | -25.41                      | 50.33                       | 69.83        |
| Azimuth: 151               | Height:100 Horz        |                                |                             | Margin (dB): -19.5          |              |
| 7294.8075                  | 46.94dBuV Av           | 30.4                           | -25.47                      | 51.87                       | 69.83        |
| Azimuth: 209               | Height:100 Vert        |                                |                             | Margin (dB): -17.96         |              |
| <b>7422.11</b>             | <b>48.85dBuV Av</b>    | <b>30.8</b>                    | <b>-26.46</b>               | <b>53.19</b>                | <b>69.83</b> |
| <b>Azimuth: 208</b>        | <b>Height:100 Horz</b> |                                |                             | <b>Margin (dB): -16.64</b>  |              |
| <b>7441.38</b>             | <b>52.07dBuV Av</b>    | <b>30.5</b>                    | <b>-26.68</b>               | <b>55.89</b>                | <b>69.83</b> |
| <b>Azimuth: 220</b>        | <b>Height:100 Vert</b> |                                |                             | <b>Margin (dB): -13.94</b>  |              |

LIMIT 1: FCC Part 18, 796W 3m

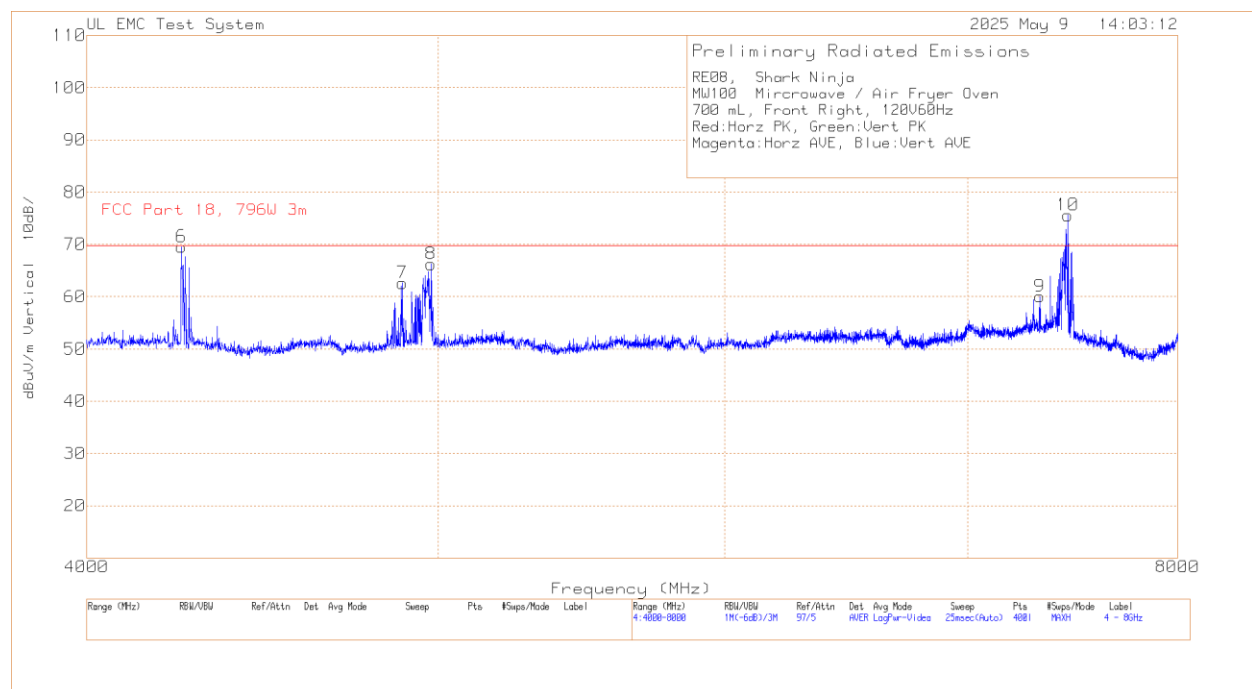
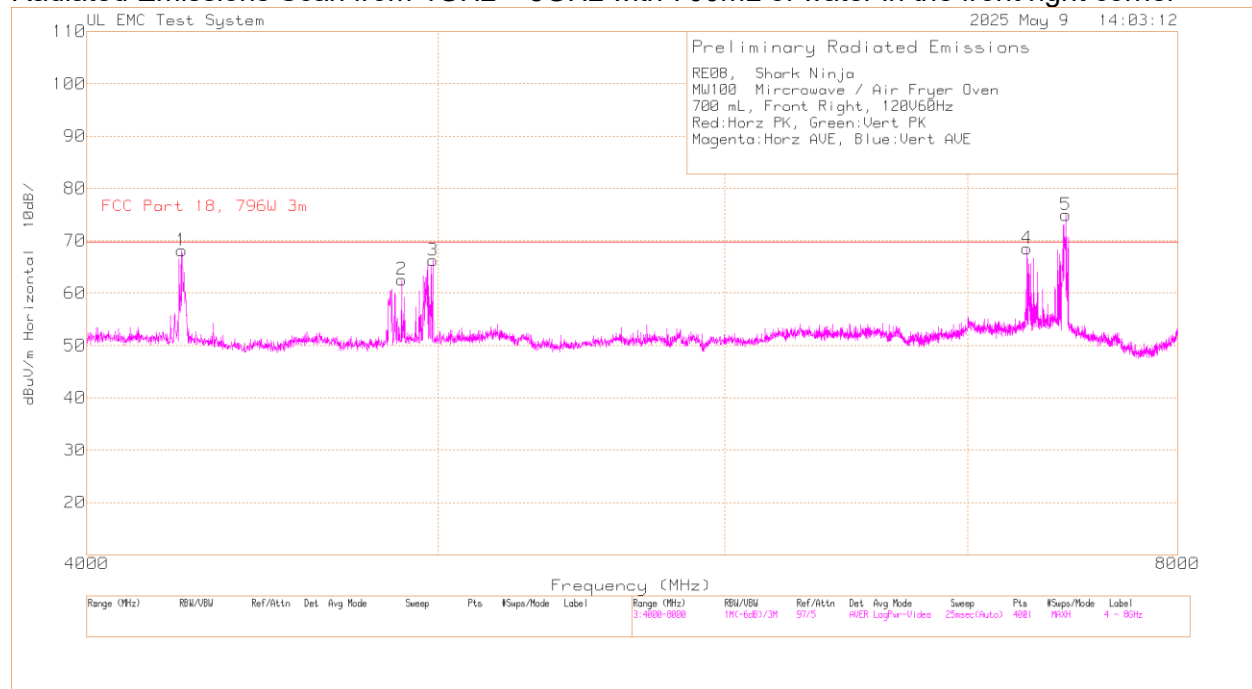
Pk - Peak detector

Avg - Video &lt; Resolution bandwidth Log IF

Av - Average detection

Data in bold is second and third harmonic highest emissions

## Radiated Emissions Scan from 4GHz – 8GHz with 700mL of water in the front right corner



RE08, Shark Ninja

MW100 Microwave / Air Fryer Oven

700 mL, Front Right, 120V60Hz

Red:Horz PK, Green:Vert PK

Magenta:Horz AVE, Blue:Vert AVE

## Trace Markers

| Test No. | Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading | Limit:1 dBuV/m |
|----------|-----------------|---------------|--------------------------|-----------------------|-------------------|----------------|
| 1        | 4249            | 71.66dBuV Avg | 28.2                     | -31.71                | 68.15             | 69.83          |
|          |                 | Azimuth:0-360 | Height:199               | Horz                  | Margin (dB)       | -1.68          |
| 2        | 4886            | 65.15dBuV Avg | 27.7                     | -30.25                | 62.6              | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -7.23          |
| 3        | 4984            | 68.23dBuV Avg | 27.8                     | -29.76                | 66.27             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -3.56          |
| 4        | 7270            | 64.03dBuV Avg | 30.2                     | -25.69                | 68.54             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -1.29          |
| 5        | 7451            | 71.35dBuV Avg | 30.4                     | -26.8                 | 74.95             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | 5.12           |
| 6        | 4248            | 72.95dBuV Avg | 28.2                     | -31.63                | 69.52             | 69.83          |
|          |                 | Azimuth:0-360 | Height:199               | Vert                  | Margin (dB)       | -.31           |
| 7        | 4888            | 64.94dBuV Avg | 27.7                     | -30.02                | 62.62             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -7.21          |
| 8        | 4978            | 68.14dBuV Avg | 27.8                     | -29.7                 | 66.24             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -3.59          |
| 9        | 7330            | 54.78dBuV Avg | 30.7                     | -25.46                | 60.02             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -9.81          |
| 10       | 7460            | 72.31dBuV Avg | 30.2                     | -26.93                | 75.58             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | 5.75           |

LIMIT 1: FCC Part 18, 796W 3m

Pk - Peak detector

Avg - Video &lt; Resolution bandwidth Log IF

Av - Average detection

## Radiated Emission Data

| Test<br>Frequency<br>(MHz) | Meter<br>Reading       | Transducer<br>Factor<br>(dB/m) | Gain/Loss<br>Factor<br>(dB) | Corrected<br>Reading dBuV/m | Limit:1      |
|----------------------------|------------------------|--------------------------------|-----------------------------|-----------------------------|--------------|
| 4257.87                    | 60.51dBuV Av           | 28.2                           | -31.63                      | 57.08                       | 69.83        |
| Azimuth: 193               | Height:100 Horz        |                                |                             | Margin (dB): -12.75         |              |
| 4253.11                    | 59.75dBuV Av           | 28.2                           | -31.69                      | 56.26                       | 69.83        |
| Azimuth: 119               | Height:100 Vert        |                                |                             | Margin (dB): -13.57         |              |
| <b>4870.1125</b>           | <b>59.01dBuV Av</b>    | <b>27.7</b>                    | <b>-30.5</b>                | <b>56.21</b>                | <b>69.83</b> |
| <b>Azimuth: 194</b>        | <b>Height:100 Horz</b> |                                |                             | <b>Margin (dB): -13.62</b>  |              |
| <b>4895.15</b>             | <b>62.33dBuV Av</b>    | <b>27.7</b>                    | <b>-30.07</b>               | <b>59.96</b>                | <b>69.83</b> |
| <b>Azimuth: 116</b>        | <b>Height:100 Vert</b> |                                |                             | <b>Margin (dB): -9.87</b>   |              |
| 4965.56                    | 52.1dBuV Av            | 27.8                           | -29.59                      | 50.31                       | 69.83        |
| Azimuth: 142               | Height:100 Horz        |                                |                             | Margin (dB): -19.52         |              |
| 4956.19                    | 58.28dBuV Av           | 27.8                           | -29.63                      | 56.45                       | 69.83        |
| Azimuth: 121               | Height:100 Vert        |                                |                             | Margin (dB): -13.38         |              |
| 7257.0375                  | 45.11dBuV Av           | 30.1                           | -25.75                      | 49.46                       | 69.83        |
| Azimuth: 183               | Height:100 Vert        |                                |                             | Margin (dB): -20.37         |              |
| 7275.1                     | 45.13dBuV Av           | 30.3                           | -25.68                      | 49.75                       | 69.83        |
| Azimuth: 146               | Height:100 Horz        |                                |                             | Margin (dB): -20.08         |              |
| <b>7444.98</b>             | <b>54.54dBuV Av</b>    | <b>30.5</b>                    | <b>-26.7</b>                | <b>58.34</b>                | <b>69.83</b> |
| <b>Azimuth: 146</b>        | <b>Height:100 Horz</b> |                                |                             | <b>Margin (dB): -11.49</b>  |              |
| <b>7442.94</b>             | <b>57.62dBuV Av</b>    | <b>30.5</b>                    | <b>-26.78</b>               | <b>61.34</b>                | <b>69.83</b> |
| <b>Azimuth: 162</b>        | <b>Height:100 Vert</b> |                                |                             | <b>Margin (dB): -8.49</b>   |              |

LIMIT 1: FCC Part 18, 796W 3m

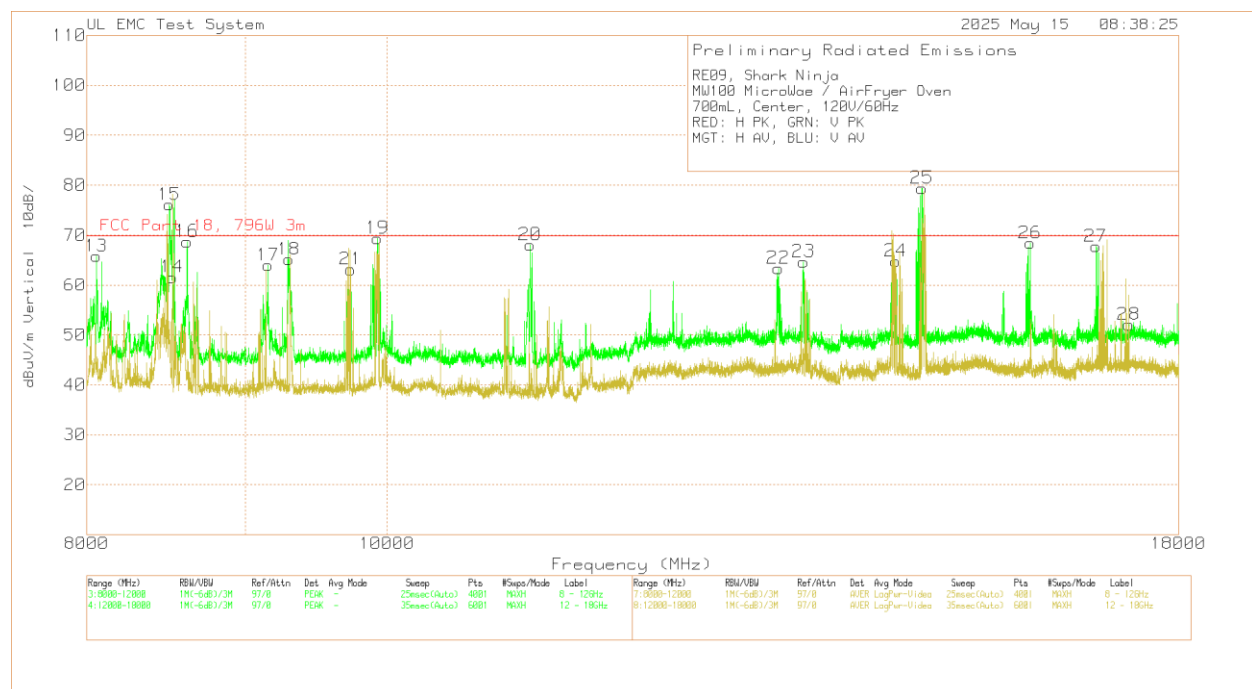
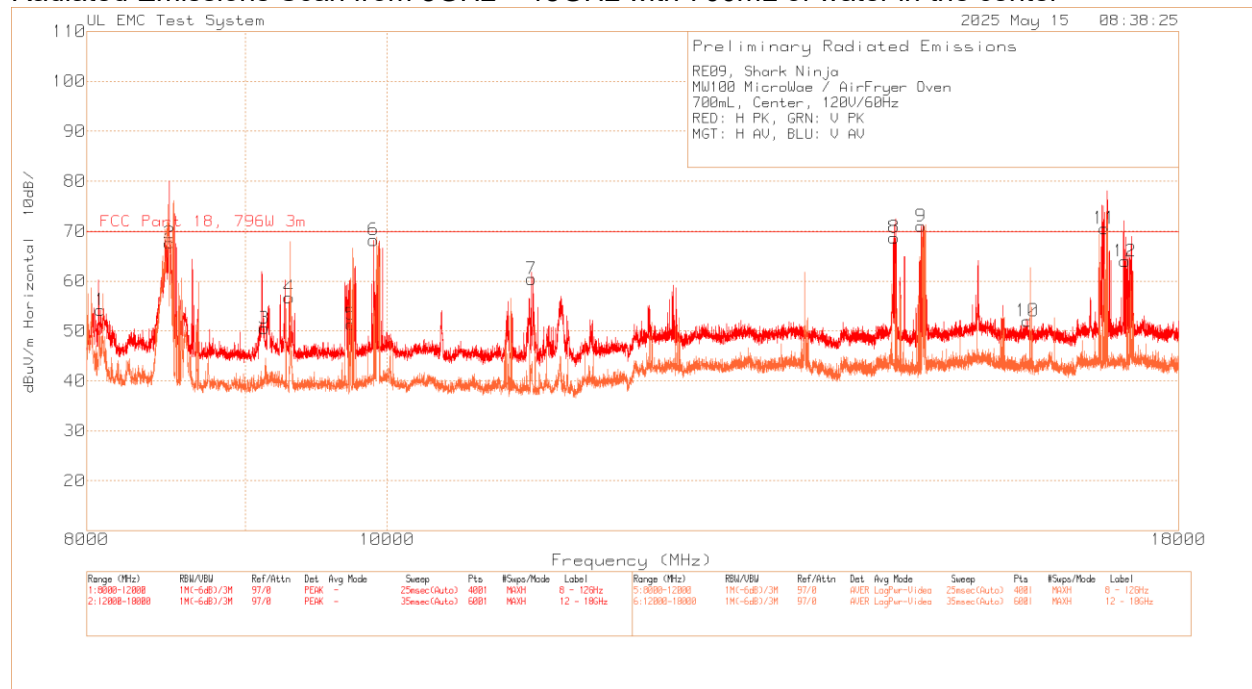
Pk - Peak detector

Avg - Video &lt; Resolution bandwidth Log IF

Av - Average detection

Data in bold is second and third harmonic highest emissions

## Radiated Emissions Scan from 8GHz – 18GHz with 700mL of water in the center



\* Peak and Average scans were conducted. Markers were placed on peak and/or average trace on interest frequencies. Emissions close to or above the limit when looking at average trace were maximized and measured with average detector using 1Hz VBW. See data below.

RE09, Shark Ninja  
 MW100 MicroWae / AirFryer Oven  
 700mL, Center, 120V/60Hz  
 RED: H PK, GRN: V PK  
 MGT: H AV, BLU: V AV

## Trace Markers

| No. | Test Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading | Limit:1 dBuV/m |
|-----|----------------------|---------------|--------------------------|-----------------------|-------------------|----------------|
| 1   | 8082                 | 65.23dBuV Pk  | 36.2                     | -47.25                | 54.18             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -15.65         |
| 2   | 8507                 | 80.5dBuV Pk   | 36.7                     | -49.6                 | 67.6              | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -2.23          |
| 3   | 9127                 | 62.7dBuV Pk   | 36.3                     | -48.46                | 50.54             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -19.29         |
| 4   | 9298                 | 69.61dBuV Pk  | 36.4                     | -49.33                | 56.68             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -13.15         |
| 5   | 9736                 | 65.06dBuV Pk  | 36.4                     | -50.15                | 51.31             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -18.52         |
| 6   | 9899                 | 79.97dBuV Pk  | 36.4                     | -48.16                | 68.21             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -1.62          |
| 7   | 11130                | 70.93dBuV Pk  | 36.6                     | -47.12                | 60.41             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -9.42          |
| 8   | 14571                | 69.86dBuV Pk  | 39.8                     | -40.95                | 68.71             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -1.12          |
| 9   | 14864                | 72.2dBuV Pk   | 39.8                     | -40.99                | 71.01             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | 1.18           |
| 10  | 16088                | 52.54dBuV Pk  | 39.9                     | -40.45                | 51.99             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -17.84         |
| 11  | 17033                | 70.86dBuV Pk  | 40.4                     | -40.74                | 70.52             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | .69            |
| 12  | 17296                | 63.86dBuV Pk  | 40.2                     | -40.11                | 63.95             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -5.88          |
| 13  | 8058                 | 76.21dBuV Pk  | 36.2                     | -46.65                | 65.76             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -4.07          |
| 14  | 8524                 | 74.37dBuV Pk  | 36.7                     | -49.52                | 61.55             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -8.28          |
| 15  | 8506                 | 89.01dBuV Pk  | 36.7                     | -49.62                | 76.09             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | 6.26           |
| 16  | 8619                 | 81.75dBuV Pk  | 36.5                     | -49.56                | 68.69             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -1.14          |
| 17  | 9153                 | 75.96dBuV Pk  | 36.3                     | -48.29                | 63.97             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -5.86          |
| 18  | 9296                 | 77.93dBuV Pk  | 36.4                     | -49.22                | 65.11             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -4.72          |
| 19  | 9928                 | 81.38dBuV Pk  | 36.4                     | -48.43                | 69.35             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -.48           |
| 20  | 11119                | 78.82dBuV Pk  | 36.5                     | -47.26                | 68.06             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -1.77          |
| 21  | 9733                 | 76.69dBuV Pk  | 36.4                     | -49.96                | 63.13             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -6.7           |
| 22  | 13371                | 67.9dBuV Pk   | 39.8                     | -44.34                | 63.36             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -6.47          |
| 23  | 13624                | 68.23dBuV Pk  | 39.8                     | -43.36                | 64.67             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -5.16          |
| 24  | 14588                | 65.95dBuV Pk  | 39.8                     | -40.98                | 64.77             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -5.06          |
| 25  | 14876                | 80.73dBuV Pk  | 39.8                     | -41.14                | 79.39             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | 9.56           |
| 26  | 16120                | 68.88dBuV Pk  | 39.9                     | -40.4                 | 68.38             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -1.45          |
| 27  | 16926                | 68.13dBuV Pk  | 40.3                     | -40.69                | 67.74             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -2.09          |
| 28  | 17346                | 52.1dBuV Pk   | 40.1                     | -40.13                | 52.07             | 69.83          |
|     |                      | Azimuth:0-360 | Height:100               | Vert                  | Margin (dB)       | -17.76         |

LIMIT 1: FCC Part 18, 796W 3m  
 Pk - Peak detector

RE09, Shark Ninja  
 MW100 MicroWave / AirFryer Oven  
 700mL, Center, 120V/60Hz  
 RED: H PK, GRN: V PK  
 MGT: H AV, BLU: V AV

## Radiated Emission Data

| Test<br>Frequency<br>(MHz)  | Meter<br>Reading                | Transducer<br>Factor<br>(dB/m) | Gain/Loss<br>Factor<br>(dB) | Corrected<br>Reading dBuV/m  | Limit:1 |
|-----------------------------|---------------------------------|--------------------------------|-----------------------------|------------------------------|---------|
| 8064.35<br>Azimuth: 0       | 72.48dBuV Av<br>Height:100 Horz | 36.2                           | -46.87                      | 61.81<br>Margin (dB): -8.02  | 69.83   |
| 8045.1<br>Azimuth: 360      | 72.52dBuV Av<br>Height:100 Vert | 36.2                           | -46.7                       | 62.02<br>Margin (dB): -7.81  | 69.83   |
| 8501.25<br>Azimuth: 144     | 70.42dBuV Av<br>Height:100 Horz | 36.7                           | -49.61                      | 57.51<br>Margin (dB): -12.32 | 69.83   |
| 8494.46<br>Azimuth: 167     | 63.83dBuV Av<br>Height:100 Vert | 36.7                           | -49.61                      | 50.92<br>Margin (dB): -18.91 | 69.83   |
| 9146.95<br>Azimuth: 360     | 56.78dBuV Av<br>Height:100 Horz | 36.3                           | -48.38                      | 44.7<br>Margin (dB): -25.13  | 69.83   |
| 9270.8<br>Azimuth: 0        | 59.29dBuV Av<br>Height:100 Horz | 36.4                           | -48.94                      | 46.75<br>Margin (dB): -23.08 | 69.83   |
| 9717.15<br>Azimuth: 360     | 76.03dBuV Av<br>Height:100 Horz | 36.4                           | -49.94                      | 62.49<br>Margin (dB): -7.34  | 69.83   |
| 9921<br>Azimuth: 360        | 72.5dBuV Av<br>Height:100 Horz  | 36.4                           | -48.4                       | 60.5<br>Margin (dB): -9.33   | 69.83   |
| 9931.65<br>Azimuth: 0       | 74.21dBuV Av<br>Height:100 Horz | 36.4                           | -48.54                      | 62.07<br>Margin (dB): -7.76  | 69.83   |
| 11129.8<br>Azimuth: 0       | 63.65dBuV Av<br>Height:100 Horz | 36.6                           | -47.15                      | 53.1<br>Margin (dB): -16.73  | 69.83   |
| 8665.525<br>Azimuth: 360    | 63.53dBuV Av<br>Height:100 Vert | 36.4                           | -49.84                      | 50.09<br>Margin (dB): -19.74 | 69.83   |
| 9133.15<br>Azimuth: 0       | 59.66dBuV Av<br>Height:100 Vert | 36.3                           | -48.42                      | 47.54<br>Margin (dB): -22.29 | 69.83   |
| 9308.6<br>Azimuth: 360      | 65.85dBuV Av<br>Height:100 Vert | 36.4                           | -49.33                      | 52.92<br>Margin (dB): -16.91 | 69.83   |
| 9935.595<br>Azimuth: 0      | 79.82dBuV Av<br>Height:100 Vert | 36.4                           | -48.56                      | 67.66<br>Margin (dB): -2.17  | 69.83   |
| 14583.66667<br>Azimuth: 360 | 63.97dBuV Av<br>Height:100 Horz | 39.8                           | -40.76                      | 63.01<br>Margin (dB): -6.82  | 69.83   |
| 14887.5<br>Azimuth: 360     | 67.79dBuV Av<br>Height:100 Horz | 39.8                           | -41.13                      | 66.46<br>Margin (dB): -3.37  | 69.83   |



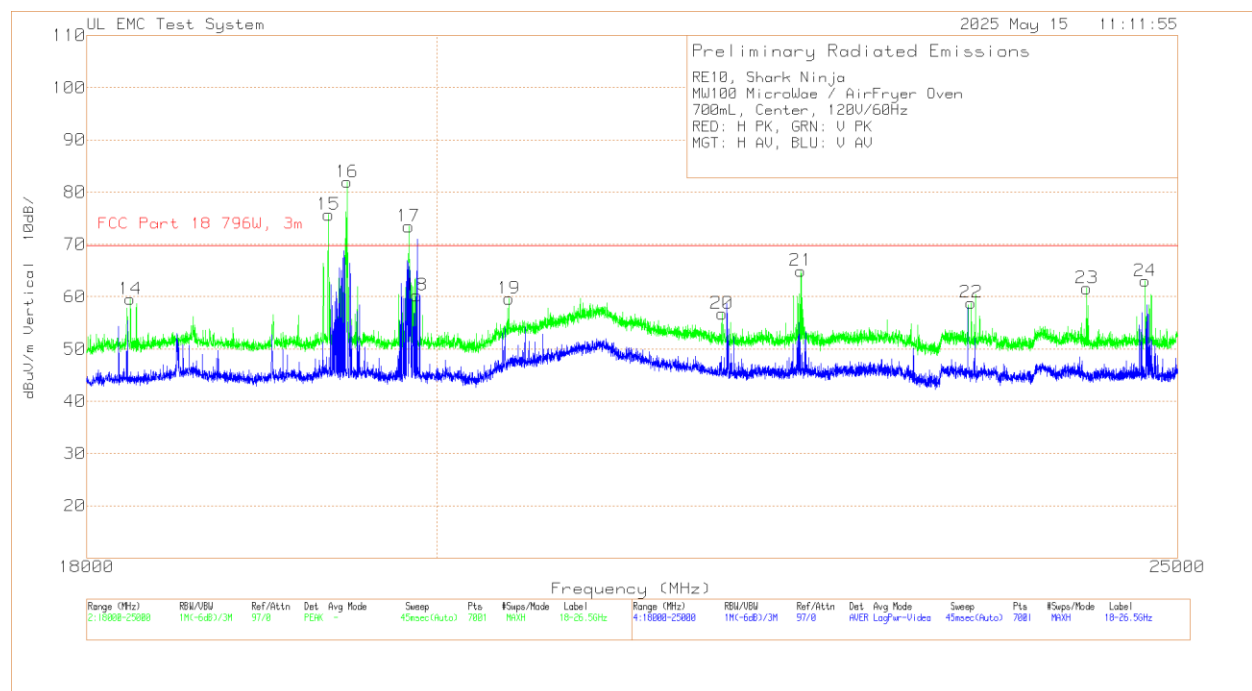
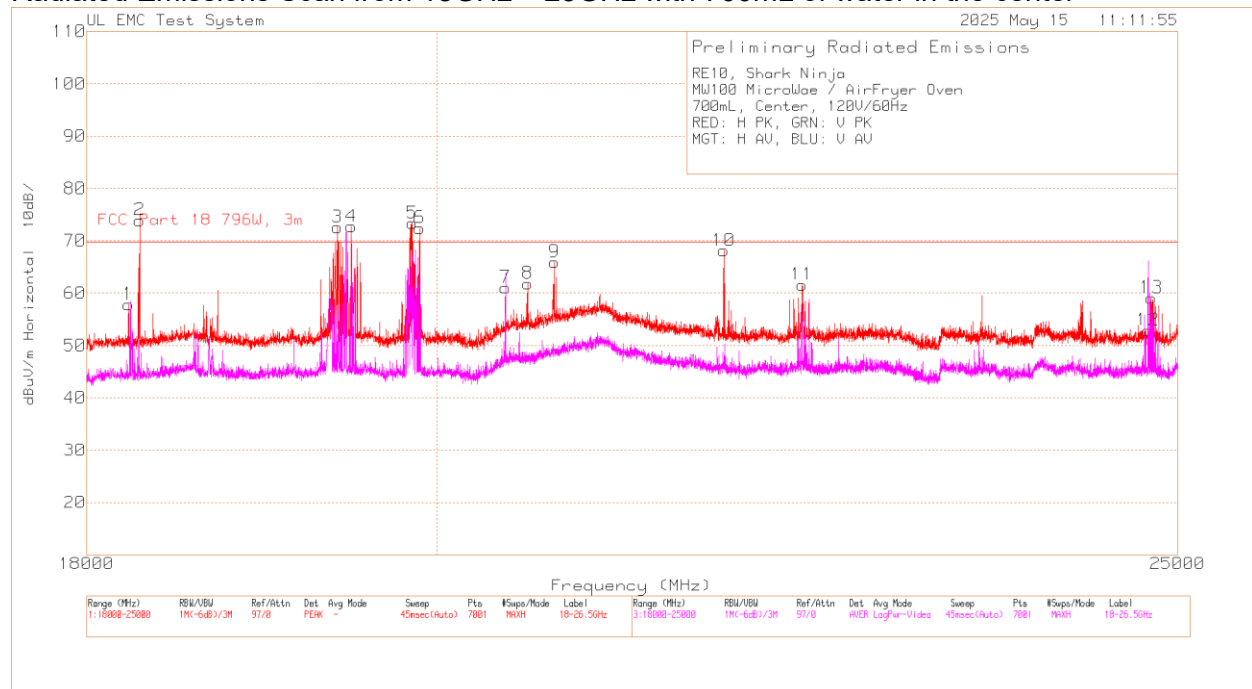
RE09, Shark Ninja  
 MW100 MicroWae / AirFryer Oven  
 700mL, Center, 120V/60Hz  
 RED: H PK, GRN: V PK  
 MGT: H AV, BLU: V AV

## Radiated Emission Data - cont.

| Test Frequency (MHz) | Meter Reading   | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading dBuV/m | Limit:1 |
|----------------------|-----------------|--------------------------|-----------------------|--------------------------|---------|
| 16136.95             | 55.44dBuV Av    | 39.8                     | -40.43                | 54.81                    | 69.83   |
| Azimuth: 0           | Height:100 Horz |                          |                       | Margin (dB): -15.02      |         |
| 17061.99333          | 67.34dBuV Av    | 40.4                     | -40.82                | 66.92                    | 69.83   |
| Azimuth: 174         | Height:100 Horz |                          |                       | Margin (dB): -2.91       |         |
| 13367.5              | 54.93dBuV Av    | 39.8                     | -44.37                | 50.36                    | 69.83   |
| Azimuth: 360         | Height:100 Horz |                          |                       | Margin (dB): -19.47      |         |
| 13616.41667          | 54.86dBuV Av    | 39.8                     | -43.44                | 51.22                    | 69.83   |
| Azimuth: 0           | Height:100 Horz |                          |                       | Margin (dB): -18.61      |         |
| 14584.46667          | 56.45dBuV Av    | 39.8                     | -40.78                | 55.47                    | 69.83   |
| Azimuth: 149         | Height:100 Horz |                          |                       | Margin (dB): -14.36      |         |
| 14884.80833          | 66.32dBuV Av    | 39.8                     | -41.01                | 65.11                    | 69.83   |
| Azimuth: 133         | Height:100 Horz |                          |                       | Margin (dB): -4.72       |         |
| 16134.2              | 57.17dBuV Av    | 39.8                     | -40.3                 | 56.67                    | 69.83   |
| Azimuth: 360         | Height:100 Horz |                          |                       | Margin (dB): -13.16      |         |
| 13371.00002          | 58.97dBuV Av    | 39.8                     | -44.34                | 54.43                    | 69.83   |
| Azimuth: 360         | Height:100 Vert |                          |                       | Margin (dB): -15.4       |         |
| 13639.25             | 59.42dBuV Av    | 39.8                     | -43.59                | 55.63                    | 69.83   |
| Azimuth: 0           | Height:100 Vert |                          |                       | Margin (dB): -14.2       |         |
| 14578.975            | 62.86dBuV Av    | 39.8                     | -40.59                | 62.07                    | 69.83   |
| Azimuth: 228         | Height:100 Vert |                          |                       | Margin (dB): -7.76       |         |
| 14878.85             | 63.84dBuV Av    | 39.8                     | -41                   | 62.64                    | 69.83   |
| Azimuth: 161         | Height:100 Vert |                          |                       | Margin (dB): -7.19       |         |
| 16126.71667          | 56.93dBuV Av    | 39.8                     | -40.55                | 56.18                    | 69.83   |
| Azimuth: 360         | Height:100 Vert |                          |                       | Margin (dB): -13.65      |         |
| 16976                | 60.95dBuV Av    | 40.4                     | -40.8                 | 60.55                    | 69.83   |
| Azimuth: 0           | Height:100 Vert |                          |                       | Margin (dB): -9.28       |         |

LIMIT 1: FCC Part 18, 796W 3m  
 Av - Average detection

## Radiated Emissions Scan from 18GHz – 25GHz with 700mL of water in the center



\* Peak and Average scans were conducted. Markers were placed on peak and/or average trace on interest frequencies. Emissions close to or above the limit when looking at average trace were maximized and measured with average detector using 1Hz VBW. See data below.

RE10, Shark Ninja  
 MW100 MicroWae / AirFryer Oven  
 700mL, Center, 120V/60Hz  
 RED: H PK, GRN: V PK  
 MGT: H AV, BLU: V AV

## Trace Markers

| Test No. | Frequency (MHz) | Meter Reading | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading | Limit:1 dBuV/m |
|----------|-----------------|---------------|--------------------------|-----------------------|-------------------|----------------|
| =====    |                 |               |                          |                       |                   |                |
| 1        | 18228           | 68.74dBuV Pk  | 40                       | -50.9                 | 57.84             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -11.99         |
| 2        | 18289           | 84.87dBuV Pk  | 40                       | -50.94                | 73.93             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | 4.1            |
| 3        | 19411           | 83.38dBuV Pk  | 40.3                     | -51.1                 | 72.58             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | 2.75           |
| 4        | 19493           | 83.38dBuV Pk  | 40.3                     | -50.93                | 72.75             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | 2.92           |
| 5        | 19852           | 83.15dBuV Pk  | 40.3                     | -50.1                 | 73.35             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | 3.52           |
| 6        | 19898           | 82.25dBuV Pk  | 40.2                     | -50.02                | 72.43             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | 2.6            |
| 7        | 20419           | 67.5dBuV Pk   | 40.3                     | -46.75                | 61.05             | 69.83          |
|          |                 | Azimuth:0-360 | Height:199               | Horz                  | Margin (dB)       | -8.78          |
| 8        | 20556           | 67.43dBuV Pk  | 40.3                     | -45.89                | 61.84             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -7.99          |
| 9        | 20722           | 69.58dBuV Pk  | 40.2                     | -43.85                | 65.93             | 69.83          |
|          |                 | Azimuth:0-360 | Height:149               | Horz                  | Margin (dB)       | -3.9           |
| 10       | 21806           | 73.36dBuV Pk  | 40.4                     | -45.63                | 68.13             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -1.7           |
| 11       | 22326           | 67.01dBuV Pk  | 40.5                     | -45.9                 | 61.61             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -8.22          |
| 12       | 24778           | 58.52dBuV Pk  | 40.3                     | -45.94                | 52.88             | 69.83          |
|          |                 | Azimuth:0-360 | Height:199               | Horz                  | Margin (dB)       | -16.95         |
| 13       | 24802           | 64.81dBuV Pk  | 40.3                     | -46.03                | 59.08             | 69.83          |
|          |                 | Azimuth:0-360 | Height:100               | Horz                  | Margin (dB)       | -10.75         |
| 14       | 18238           | 70.62dBuV Pk  | 40                       | -51.1                 | 59.52             | 69.83          |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)       | -10.31         |
| 15       | 19360           | 86.41dBuV Pk  | 40.3                     | -51.01                | 75.7              | 69.83          |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)       | 5.87           |
| 16       | 19468           | 92.55dBuV Pk  | 40.3                     | -50.88                | 81.97             | 69.83          |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)       | 12.14          |
| 17       | 19832           | 83.27dBuV Pk  | 40.3                     | -50.12                | 73.45             | 69.83          |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)       | 3.62           |
| 18       | 19881           | 70.13dBuV Pk  | 40.2                     | -50.07                | 60.26             | 69.83          |
|          |                 | Azimuth:0-360 | Height:151               | Vert                  | Margin (dB)       | -9.57          |
| 19       | 20441           | 65.6dBuV Pk   | 40.3                     | -46.26                | 59.64             | 69.83          |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)       | -10.19         |
| 20       | 21794           | 61.91dBuV Pk  | 40.4                     | -45.55                | 56.76             | 69.83          |
|          |                 | Azimuth:0-360 | Height:151               | Vert                  | Margin (dB)       | -13.07         |
| 21       | 22319           | 70.39dBuV Pk  | 40.5                     | -45.92                | 64.97             | 69.83          |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)       | -4.86          |
| 22       | 23493           | 64.7dBuV Pk   | 40.3                     | -46.13                | 58.87             | 69.83          |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)       | -10.96         |
| 23       | 24325           | 67.69dBuV Pk  | 40.3                     | -46.37                | 61.62             | 69.83          |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)       | -8.21          |
| 24       | 24756           | 68.88dBuV Pk  | 40.3                     | -46.14                | 63.04             | 69.83          |
|          |                 | Azimuth:0-360 | Height:101               | Vert                  | Margin (dB)       | -6.79          |

LIMIT 1: FCC Part 18 796W, 3m  
 Pk - Peak detector  
 Av - Average detection

## Radiated Emission Data

| Test Frequency (MHz)        | Meter Reading                   | Transducer Factor (dB/m) | Gain/Loss Factor (dB) | Corrected Reading            | Limit:1 dBuV/m |
|-----------------------------|---------------------------------|--------------------------|-----------------------|------------------------------|----------------|
| =====                       |                                 |                          |                       |                              |                |
| 18275.84286<br>Azimuth: 0   | 67.38dBuV Av<br>Height:100 Vert | 40                       | -51.08                | 56.3<br>Margin (dB): -13.53  | 69.83          |
| 19457.87143<br>Azimuth: 360 | 71.75dBuV Av<br>Height:100 Vert | 40.3                     | -51.2                 | 60.85<br>Margin (dB): -8.98  | 69.83          |
| 19833.01429<br>Azimuth: 173 | 73.76dBuV Av<br>Height:100 Vert | 40.3                     | -50.14                | 63.92<br>Margin (dB): -5.91  | 69.83          |
| 19879.61429<br>Azimuth: 360 | 75.02dBuV Av<br>Height:100 Vert | 40.2                     | -50.02                | 65.2<br>Margin (dB): -4.63   | 69.83          |
| 19890<br>Azimuth: 0         | 63.44dBuV Av<br>Height:100 Vert | 40.2                     | -50.14                | 53.5<br>Margin (dB): -16.33  | 69.83          |
| 20425.28571<br>Azimuth: 360 | 62.96dBuV Av<br>Height:100 Vert | 40.3                     | -47.06                | 56.2<br>Margin (dB): -13.63  | 69.83          |
| 20540.75714<br>Azimuth: 0   | 62.75dBuV Av<br>Height:100 Vert | 40.3                     | -46.79                | 56.26<br>Margin (dB): -13.57 | 69.83          |
| 18226.72857<br>Azimuth: 360 | 65.56dBuV Av<br>Height:100 Horz | 40                       | -50.99                | 54.57<br>Margin (dB): -15.26 | 69.83          |
| 18264.30714<br>Azimuth: 0   | 67.87dBuV Av<br>Height:100 Horz | 40                       | -51.01                | 56.86<br>Margin (dB): -12.97 | 69.83          |
| 19398.01429<br>Azimuth: 291 | 69.03dBuV Av<br>Height:100 Horz | 40.3                     | -51                   | 58.33<br>Margin (dB): -11.5  | 69.83          |
| 19863.31429<br>Azimuth: 291 | 75.33dBuV Av<br>Height:100 Horz | 40.3                     | -50.19                | 65.44<br>Margin (dB): -4.39  | 69.83          |
| 19896.62857<br>Azimuth: 291 | 74.85dBuV Av<br>Height:100 Horz | 40.2                     | -50.04                | 65.01<br>Margin (dB): -4.82  | 69.83          |
| 20402.92857<br>Azimuth: 360 | 72.31dBuV Av<br>Height:100 Horz | 40.3                     | -47.02                | 65.59<br>Margin (dB): -4.24  | 69.83          |
| 20532.84286<br>Azimuth: 360 | 61.02dBuV Av<br>Height:100 Horz | 40.3                     | -46.71                | 54.61<br>Margin (dB): -15.22 | 69.83          |
| 20690.52857<br>Azimuth: 0   | 57.73dBuV Av<br>Height:100 Horz | 40.2                     | -44.26                | 53.67<br>Margin (dB): -16.16 | 69.83          |
| 21824.81429<br>Azimuth: 360 | 58.77dBuV Av<br>Height:100 Horz | 40.4                     | -45.85                | 53.32<br>Margin (dB): -16.51 | 69.83          |
| 22332.5<br>Azimuth: 0       | 60.85dBuV Av<br>Height:100 Horz | 40.5                     | -45.89                | 55.46<br>Margin (dB): -14.37 | 69.83          |
| 24767.37143<br>Azimuth: 360 | 63.81dBuV Av<br>Height:100 Horz | 40.3                     | -46.47                | 57.64<br>Margin (dB): -12.19 | 69.83          |
| 24799.58571<br>Azimuth: 0   | 65.58dBuV Av<br>Height:100 Horz | 40.3                     | -46.02                | 59.86<br>Margin (dB): -9.97  | 69.83          |
| 19399.91429<br>Azimuth: 360 | 63.55dBuV Av<br>Height:100 Vert | 40.3                     | -50.96                | 52.89<br>Margin (dB): -16.94 | 69.83          |
| 21808.64286<br>Azimuth: 0   | 51.16dBuV Av<br>Height:100 Vert | 40.4                     | -45.57                | 45.99<br>Margin (dB): -23.84 | 69.83          |
| 22283.18571<br>Azimuth: 360 | 62.75dBuV Av<br>Height:100 Vert | 40.5                     | -46.62                | 56.63<br>Margin (dB): -13.2  | 69.83          |
| 23482.22857<br>Azimuth: 0   | 58.05dBuV Av<br>Height:100 Vert | 40.3                     | -46.1                 | 52.25<br>Margin (dB): -17.58 | 69.83          |
| 24300.84286<br>Azimuth: 360 | 58.62dBuV Av<br>Height:100 Vert | 40.3                     | -46.12                | 52.8<br>Margin (dB): -17.03  | 69.83          |
| 24757.9<br>Azimuth: 0       | 63.68dBuV Av<br>Height:100 Vert | 40.3                     | -46                   | 57.98<br>Margin (dB): -11.85 | 69.83          |
| 19504.5<br>Azimuth: 0       | 74.48dBuV Av<br>Height:100 Horz | 40.3                     | -51.03                | 63.75<br>Margin (dB): -6.08  | 69.83          |

LIMIT 1: FCC Part 18 796W, 3m  
Pk - Peak detector  
Av - Average detection

## 7.7. AC MAINS LINE CONDUCTED EMISSIONS

### TEST PROCEDURE

FCC / OST MP-5

### LIMIT

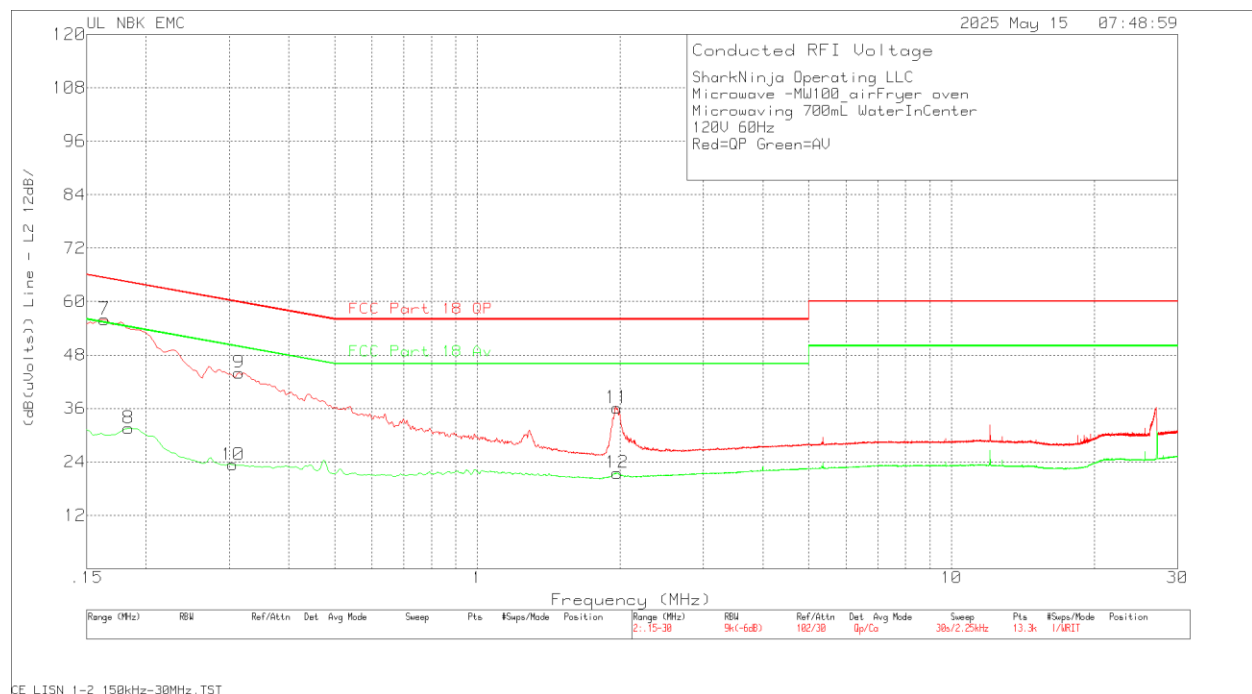
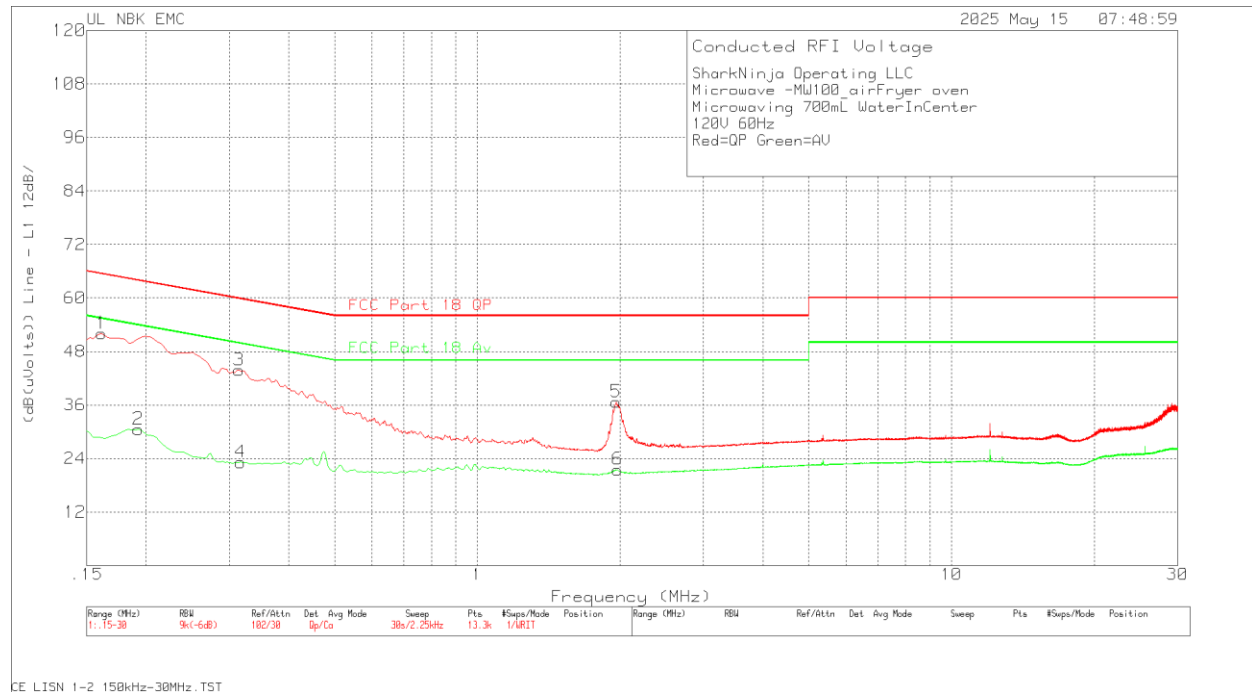
§ FCC 18.307 (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges. 700mL of water in the center was used.

| Frequency range<br>(MHz) | Limits (dB $\mu$ V) |          |
|--------------------------|---------------------|----------|
|                          | Quasi-peak          | Average  |
| 0.15 to 0.50             | 66 to 56            | 56 to 46 |
| 0.50 to 5                | 56                  | 46       |
| 5 to 30                  | 60                  | 50       |

Notes:  
1. The lower limit shall apply at the transition frequencies  
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

| Test Equipment List |                    |                 |            |            |            |
|---------------------|--------------------|-----------------|------------|------------|------------|
| Description         | Manufacturer       | Model           | Identifier | Cal Date   | Cal Due    |
| EMI Test Receiver   | Rohde & Schwarz    | ESR             | 86711      | 2024-12-05 | 2025-12-31 |
| Transient Limiter   | Electro-Metrics    | EM-7600-2       | 19866      | 2024-12-05 | 2025-12-31 |
| High-Pass Filter    | Solar Electronics  | 2803-150        | 53775      | 2024-12-05 | 2025-12-31 |
| LISN - L1           | Solar Electronics  | 8602-50-TS-50-N | 19808      | 2024-12-03 | 2025-12-31 |
| LISN - L2           | Solar Electronics  | 8602-50-TS-50-N | 19806      | 2024-12-03 | 2025-12-31 |
| Ambient Datalogger  | Extech Instruments | SD700           | 80491      | 2024-12-10 | 2025-12-31 |

## RESULTS Plots



Results - Tabular Data  
 SharkNinja Operating LLC  
 Microwave -MW100\_airFryer oven  
 Microwaving 700mL WaterInCenter  
 120V 60Hz  
 Red=QP Green=AV

## Trace Markers

| No.     | Test<br>Frequency<br>(MHz) | Meter<br>Reading | Transducer<br>Factor<br>(dB) | Gain/Loss<br>Factor<br>(dB) | Corrected<br>Reading (dB(uVolts)) | Limit:1 | 2 | 3      | 4      | 5 | 6 |
|---------|----------------------------|------------------|------------------------------|-----------------------------|-----------------------------------|---------|---|--------|--------|---|---|
| =====   |                            |                  |                              |                             |                                   |         |   |        |        |   |   |
| Line    |                            |                  |                              |                             |                                   |         |   |        |        |   |   |
| 1       | .1613                      | 39.13dBuV Qp     | 0                            | 12.9                        | 52.03                             | -       | - | 65.4   | -      | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -13.37 | -      | - | - |
| 2       | .1928                      | 18.85dBuV Ca     | 0                            | 11.7                        | 30.55                             | -       | - | -      | 53.92  | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -      | -23.37 | - | - |
| 3       | .3143                      | 32.83dBuV Qp     | 0                            | 11                          | 43.83                             | -       | - | 59.86  | -      | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -16.03 | -      | - | - |
| 4       | .3165                      | 12.16dBuV Ca     | 0                            | 11                          | 23.16                             | -       | - | -      | 49.8   | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -      | -26.64 | - | - |
| 5       | 1.9613                     | 25.98dBuV Qp     | 0                            | 10.7                        | 36.68                             | -       | - | 56     | -      | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -19.32 | -      | - | - |
| 6       | 1.9748                     | 10.84dBuV Ca     | 0                            | 10.7                        | 21.54                             | -       | - | -      | 46     | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -      | -24.46 | - | - |
| Neutral |                            |                  |                              |                             |                                   |         |   |        |        |   |   |
| 7       | .1635                      | 43.4dBuV Qp      | 0                            | 12.6                        | 56                                | -       | - | 65.28  | -      | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -9.28  | -      | - | - |
| 8       | .1838                      | 19.97dBuV Ca     | 0                            | 11.6                        | 31.57                             | -       | - | -      | 54.31  | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -      | -22.74 | - | - |
| 9       | .3143                      | 33.24dBuV Qp     | 0                            | 10.8                        | 44.04                             | -       | - | 59.86  | -      | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -15.82 | -      | - | - |
| 10      | .3053                      | 12.54dBuV Ca     | 0                            | 10.8                        | 23.34                             | -       | - | -      | 50.1   | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -      | -26.76 | - | - |
| 11      | 1.9703                     | 25.52dBuV Qp     | 0                            | 10.6                        | 36.12                             | -       | - | 56     | -      | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -19.88 | -      | - | - |
| 12      | 1.9725                     | 10.94dBuV Ca     | 0                            | 10.6                        | 21.54                             | -       | - | -      | 46     | - | - |
|         |                            |                  |                              |                             | Margin (dB)                       | -       | - | -      | -24.46 | - | - |

LIMIT 3: FCC Part 18 QP

LIMIT 4: FCC Part 18 Av

Qp - Quasi-Peak detector

Ca - CISPR Average detection