

## RF EXPOSURE REPORT



**Applicant:** NSE Products, Inc.  
75 West Center Street Provo Utah United States 84601

**FCC Product Name:** RenuSpa iO

**FCC Brand Name:** Nu Skin

**FCC Model No.:** BS2RCA, BS2RCC

**FCC Model Difference:** BS2RCA with USB-A charger  
BS2RCC with USB-C charger

**IC Product Name:** WellSpa iO

**IC Brand Name:** Nu Skin

**IC Model No.:** BS2RCA, BS2RCC

**IC Model Difference:** BS2RCA with USB-A charger  
BS2RCC with USB-C charger

**Report Number:** TESA2305000294E5

**FCC ID** 2AZ3A-BS2RCCA

**IC:** 26225-BS2RCCA

**Issue Date:** Sep. 23, 2023

**Date of Test:** Jun. 08, 2023 ~ Jun. 29, 2023

**Date of EUT Received:** Jun. 08, 2023

Approved By

John Yeh

**We hereby certify that:**

The above equipment was verified by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC KDB 680106 D01v03r01 and RSS 102 Issue 5.

The results of this report relate only to the sample identified in this report.

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2305000294E5	00	Original.	Jun. 30, 2023	Cindy Chou	
TESA2305000294E5	01	Add Series Model	Aug. 01, 2023	Cindy Chou	*
TESA2305000294E5	02	Update applicant	Aug. 22, 2023	Cindy Chou	*
TESA2305000294E5	03	Modify comment	Aug. 24, 2023	Cindy Chou	*
TESA2305000294E5	04	Modify comment	Sep. 11, 2023	Cindy Chou	*
TESA2305000294E5	05	Modify comment	Sep. 21, 2023	Cindy Chou	*
TESA2305000294E5	06	Modify comment	Sep. 22, 2023	Cindy Chou	*
TESA2305000294E5	07	Modify comment	Sep. 23, 2023	Cindy Chou	*

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## 1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

### 1.1 Product Description

FCC Product Name:	RenuSpa iO
FCC Brand Name:	Nu Skin
FCC Model No.:	BS2RCA, BS2RCC
FCC Model Difference:	BS2RCA with USB-A charger BS2RCC with USB-C charger
IC Product Name:	WellSpa iO
IC Brand Name:	Nu Skin
IC Model No.:	BS2RCA, BS2RCC
IC Model Difference:	BS2RCA with USB-A charger BS2RCC with USB-C charger
Sample Serial Number	14E20001051

### 1.2 Test Facility

Laboratory	Test Site Address		FCC Designation number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	<input type="checkbox"/>	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	TW0027
	<input checked="" type="checkbox"/>	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	TW0028
	<input type="checkbox"/>	1F, No.8, Alley 15, Lane 120, Sec. 1, Nei Hu Road	TW0029

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## 2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 2.1 Standard Applicable

According to KDB 680106 D01 RF Exposure Wireless Charging App v03r01

RF exposure potential to users and bystanders is expected to vary according to factors inherent to the design of individual systems, which generally requires different evaluation considerations to show compliance.

When exposure concerns arise; for example, due to evolving products and operations, RF exposure evaluation may be requested under the provisions of Sections 1.1307 (c) and (d) to determine compliance. Because of significant variations in design and operating characteristics, the procedures required to evaluate RF exposure compliance for wireless power transfer are considered according to the exposure potentials of individual implementations

The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Sections 2.1091 and 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to Sections 1.1307 (c) and (d) of the FCC rules.

### 2.2 Limits for Maximum Permissible Exposure (MPE)

Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz \* = Plane-wave equivalent power density

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### 2.3 The Worst Charging Condition:

Ancillary Equipment	Charging Condition	Verdict
Load	Full Loading	PASS
Load	99% Loading	PASS
Load	50% Loading	PASS
Load	1% Loading	PASS
Note: For Wireless Power Consortium Qi specification, a lower operating frequency or high duty cycle result in the transfer of a higher amount of power and charging current.		

### 2.4 Measurement Procedure:

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with proper distances measured from the center of the probe(s) to the edge of the device as per KDB 680106 D01.

### 2.5 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Probe-Analyzer	Narda	EHP 200AC	180ZX00635	Apr.07.2023	Apr.06.2024
3m Site NSA	SGS	966 chamber D	N/A	Apr.30.2023	Apr.29.2024

Manufacturer	Device	Type	Serial number	Calibration Authority	Date of last calibration	Date of next calibration
Narda	EHP-200AC	3 kHz~30 MHz	180ZX00635	Narda	Apr.07.2023	Apr.06.2024
Narda	Software	EHP200-TS Rel 1.95 17/01/2022	N/A	Narda	Calibration not required	Calibration not required

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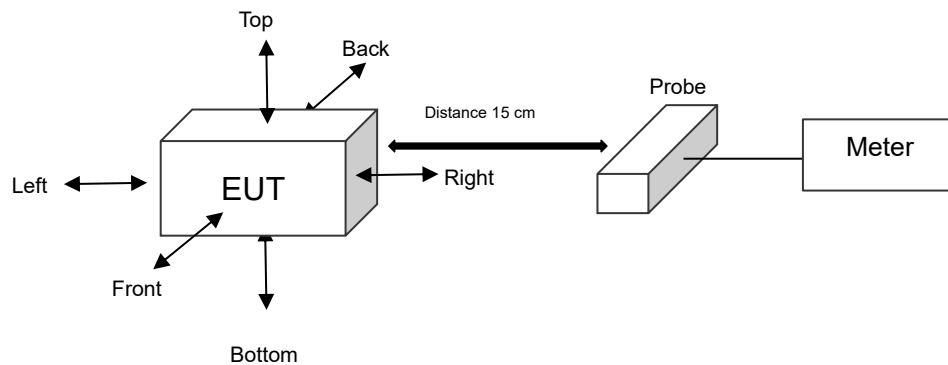
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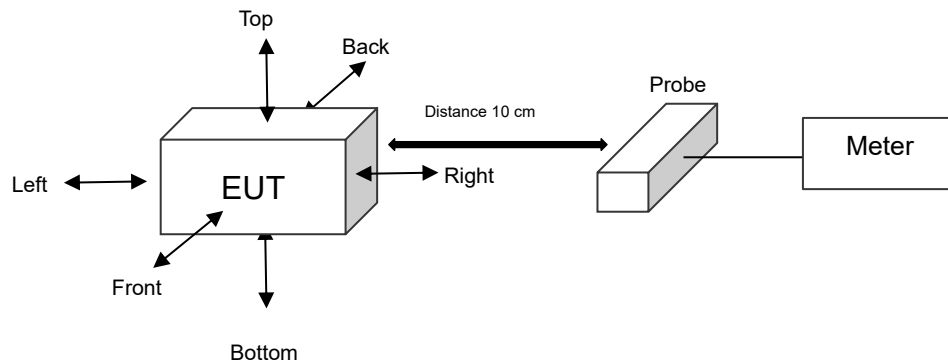
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## 2.6 Test Set-up: FCC



## IC



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## 2.7 Maximum Permissible Exposure (MPE) Evaluation:

### FCC

Maximum Permissible Exposure								
E-Field Strength (V/m)								
Loading %	Test position	Test Distance	E-Field Strength (V/m)	E-Field Strength Limit (V/m)	Pass / Fail	H-Field Strength (A/m)	H-Field Strength Limit (A/m)	Pass / Fail
Full	Front	15 cm	0.3175	614	Pass	0.0441	1.63	Pass
	Back	15 cm	0.3149	614	Pass	0.0437	1.63	Pass
	Left	15 cm	0.3161	614	Pass	0.0439	1.63	Pass
	Left_1	15 cm	0.3144	614	Pass	0.0437	1.63	Pass
	Left_2	15 cm	0.3167	614	Pass	0.044	1.63	Pass
	Right	15 cm	0.3123	614	Pass	0.0434	1.63	Pass
	Right_1	15 cm	0.3119	614	Pass	0.0433	1.63	Pass
	Right_2	15 cm	0.3154	614	Pass	0.0438	1.63	Pass
	Top	15 cm	0.3115	614	Pass	0.0433	1.63	Pass
99	Front	15 cm	0.2815	614	Pass	0.0427	1.63	Pass
	Back	15 cm	0.3104	614	Pass	0.0396	1.63	Pass
	Left	15 cm	0.3072	614	Pass	0.0390	1.63	Pass
	Left_1	15 cm	0.2654	614	Pass	0.0371	1.63	Pass
	Left_2	15 cm	0.2774	614	Pass	0.0404	1.63	Pass
	Right	15 cm	0.286	614	Pass	0.0394	1.63	Pass
	Right_1	15 cm	0.2711	614	Pass	0.0387	1.63	Pass
	Right_2	15 cm	0.2861	614	Pass	0.0402	1.63	Pass
	Top	15 cm	0.2663	614	Pass	0.0369	1.63	Pass
50	Front	15 cm	0.3079	614	Pass	0.0394	1.63	Pass
	Back	15 cm	0.2657	614	Pass	0.0350	1.63	Pass
	Left	15 cm	0.2721	614	Pass	0.0424	1.63	Pass
	Left_1	15 cm	0.2602	614	Pass	0.0360	1.63	Pass
	Left_2	15 cm	0.2679	614	Pass	0.0435	1.63	Pass
	Right	15 cm	0.2886	614	Pass	0.0420	1.63	Pass
	Right_1	15 cm	0.273	614	Pass	0.0352	1.63	Pass
	Right_2	15 cm	0.264	614	Pass	0.0418	1.63	Pass
	Top	15 cm	0.2707	614	Pass	0.0360	1.63	Pass
1	Front	15 cm	0.2882	614	Pass	0.0428	1.63	Pass
	Back	15 cm	0.2884	614	Pass	0.0356	1.63	Pass
	Left	15 cm	0.2854	614	Pass	0.0402	1.63	Pass
	Left_1	15 cm	0.267	614	Pass	0.0434	1.63	Pass
	Left_2	15 cm	0.2971	614	Pass	0.0402	1.63	Pass
	Right	15 cm	0.3019	614	Pass	0.0374	1.63	Pass
	Right_1	15 cm	0.311	614	Pass	0.0412	1.63	Pass
	Right_2	15 cm	0.2597	614	Pass	0.0416	1.63	Pass
	Top	15 cm	0.2502	614	Pass	0.0375	1.63	Pass

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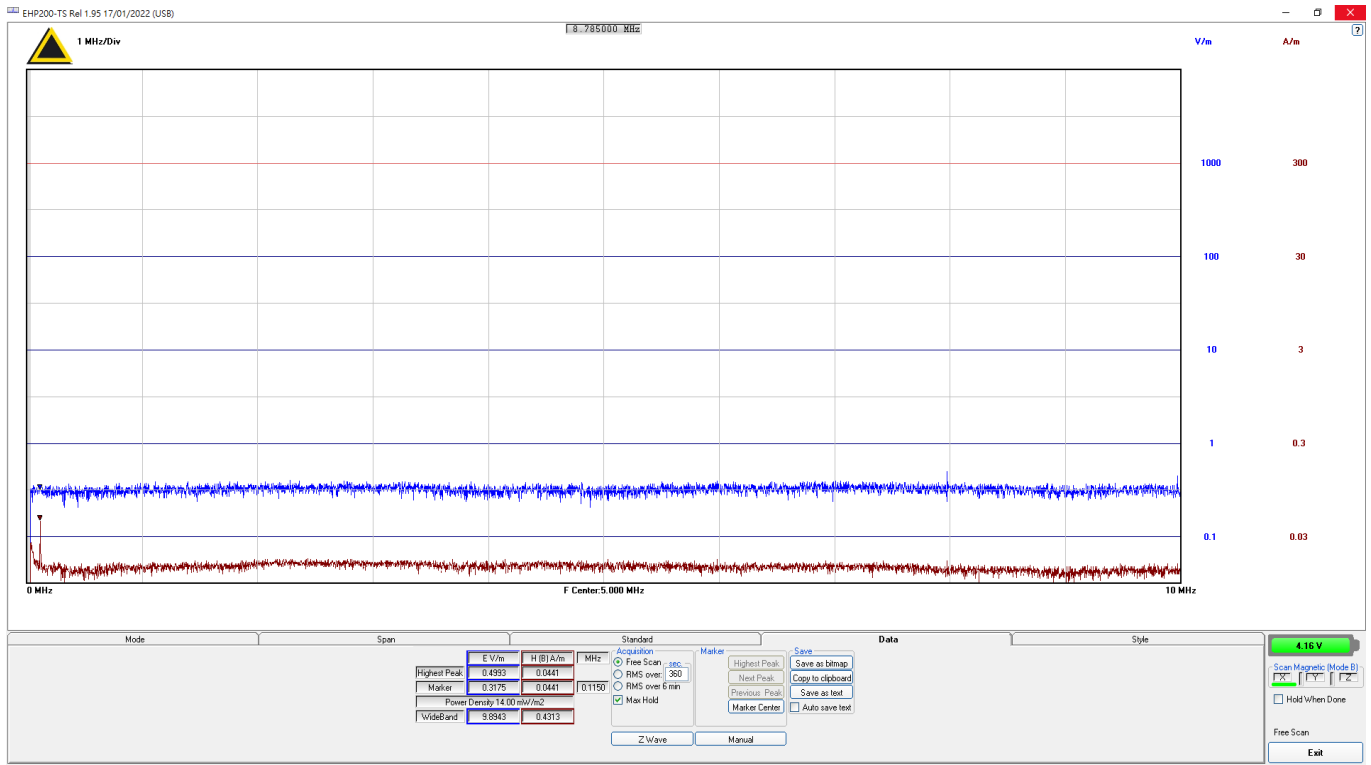
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### 3 NERVE STIMULATION

#### 3.1 RF Field Strength Limits for General Public (Uncontrolled Environment)

Transmitters operating between 0.003-10 MHz, shall demonstrate compliance to the instantaneous limits in RSS 102 Issue 5 section 4.

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field Strength (A/m rms)	Power Density (W/m <sup>2</sup> )	Reference Period (minutes)
0.003-10	83	90	-	Instantaneous*
0.1-10	-	$0.73/f$	-	6**
1.1-10	$87/f^{0.5}$	-	-	6**
10-20	27.46	0.0728	2	6
20-48	$58.07/f^{0.25}$	$0.1540/f^{0.25}$	$8.944/f^{0.5}$	6
48-300	22.06	0.05852	1.291	6
300-6000	$3.142 f^{0.3417}$	$0.008335 f^{0.3417}$	$0.02619 f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000/f^{1.2}$
150000-300000	$0.158 f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	$616000/f^{1.2}$

F = frequency in MHz  
 \* = Based on nerve stimulation (NS).  
 \*\* = Based on specific absorption rate (SAR).

#### 3.2 SPR-002 Issue 1 / Notice 2020 - DRS0012 / RSS 216 Issue 2

##### 3.2.1 SPR-002 Issue 1

RSS-102 Supplementary Procedure (SPR-002) sets out the general test methods applicable to performing assessments on the nerve stimulation exposure limits on a radio apparatus that operates between 3 kHz and 10 MHz. Based on SPR-002 Issue 1, 6.1.1.1, direct measurement at a defined separation distance for comparison to the nerve stimulation RLs is the simplest of all measurements. The maximum measured field strength is located and compared to the RLs outlined in RSS-102. The measurement distance shall be measured as the distance from the edge of the device to the edge of the measurement probe. The separation distance must be a logical distance based on normal usage conditions. Measurements must be taken for both the E-field and H-field, since the measurement distance will be in the near field where the relationship between the E- and H-fields is unknown.

##### 6.6.1.1 Measurement Method When the RBW of the Measurement Probe is Greater Than the 99% OBW or When Using a Broadband Probe

When the RBW of the measurement probe is greater than the 99% OBW, or when using a broadband probe, use the following measurement method:

- Set the measurement frequency of the measurement probe to the fundamental frequency of the device under test.
- Set the span to encompass the entire emission bandwidth.
- Set the RBW greater than the 99% OBW of the fundamental emission. Note: This step is not required for a broadband measurement probe that integrates the entire frequency range.

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- (d) Set the detector to Peak and trace display to Max-Hold.
- (e) Allow the spectrum to fill; for pulsing devices this may require an increased monitoring period.
- (f) Using a marker, set it to the maximum level of the spectral envelope.
- (g) Repeat steps (b) to (f) while scanning a parallel plane at the measurement distance on each side of the device to find the peak level.
- (h) Repeat steps (b) to (g) for any frequencies where the field value is greater than -20 dBc below the maximum level identified.
- (i) If there are multiple frequencies transmitted by the device under test, use equations (2) and (3) to determine compliance. Note: When scanning around the entire device, the location found to be the maximum for the E- or H-field may not be the same location as the opposite field.

### 3.2.2 Notice 2020 - DRS0012

The characterization is an analysis of the radiated emissions from the DUT over the entire frequency range from 3 kHz to 10 MHz. To ensure proper frequency range reduction, the applicant shall provide spectrum plot(s) over the entire frequency range of 3 kHz to 10 MHz demonstrating that there are no emissions outside the investigated or reduced frequency range. All frequencies in the range of 3 kHz to 10 MHz shall be included in the assessment provided the field value is within 20 dB of the maximum level identified as stated in sections 6.6.1.1 (h) and 6.6.1.2 (h) of SPR-002. Devices with multiple frequency components and/or multiple antennas co-located in the measurement space with emissions that are less than 20 dB below the maximum level identified (-20dBc) over the frequency range of 3 kHz to 10 MHz may be omitted from the assessment as stated in section 6.3 of SPR-002. To justify the exclusion of a frequency, the applicant shall provide spectrum plot(s) over the entire frequency range of 3 kHz to 10 MHz demonstrating that emissions are less than 20 dB below the maximum level identified (-20dBc).

### 3.2.3 RSS-216 Issue 2

RF exposure shall be evaluated with the client devices charged/powered by the source device at maximum output power. Additionally, all transmitters, including those not used for wireless power transfer, must be active simultaneously and at maximum power. For WPT devices designed for desktop applications (e.g. wireless charging pads), RF exposure shall be evaluated at 10 cm away from all sides and from the top of the WPT device / system.

## 3.3 Measurements for Sources With Multiple Frequencies

The RLs for nerve stimulation are based on the total r.m.s. level. This requires that all frequency components from the apparatus be integrated together using equation (2) or (3) of SPR-002, depending on the measurement performed. The sum of the ratios must be less than or equal to 1. Multiple frequency components may be harmonic emissions of the fundamental or multiple transmitters and their harmonics within a single device. Harmonic emissions that are less than 20 dBc may be omitted from the assessment.

#### Multiple Frequency Summation of SPR-002

$$\sum (E_m / E_{RL}) \leq 1 \quad (2)$$

where:

$E_m$  = Measured electric field at a specific frequency

$E_{RL}$  = Reference level limit for the electric field at the measurement frequency

$$\sum (H_m / H_{RL}) \leq 1 \quad (3)$$

where:

$H_m$  = Measured magnetic field at a specific frequency

$H_{RL}$  = Reference level limit for the magnetic field at the measurement frequency

#### Summation of measurements from multiple frequencies

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To determine compliance with nerve stimulation limits:

- the contributions from multiple frequencies transmitted by the DUT must be combined using equations (2) and (3) as instructed in sections 6.6.1.1 (i) and 6.6.1.2 (i) of SPR-002
- the user shall provide evidence of the measurement summation and the results obtained shall be less than or equal to unity as indicated in section 6.2.2 of SPR-002.

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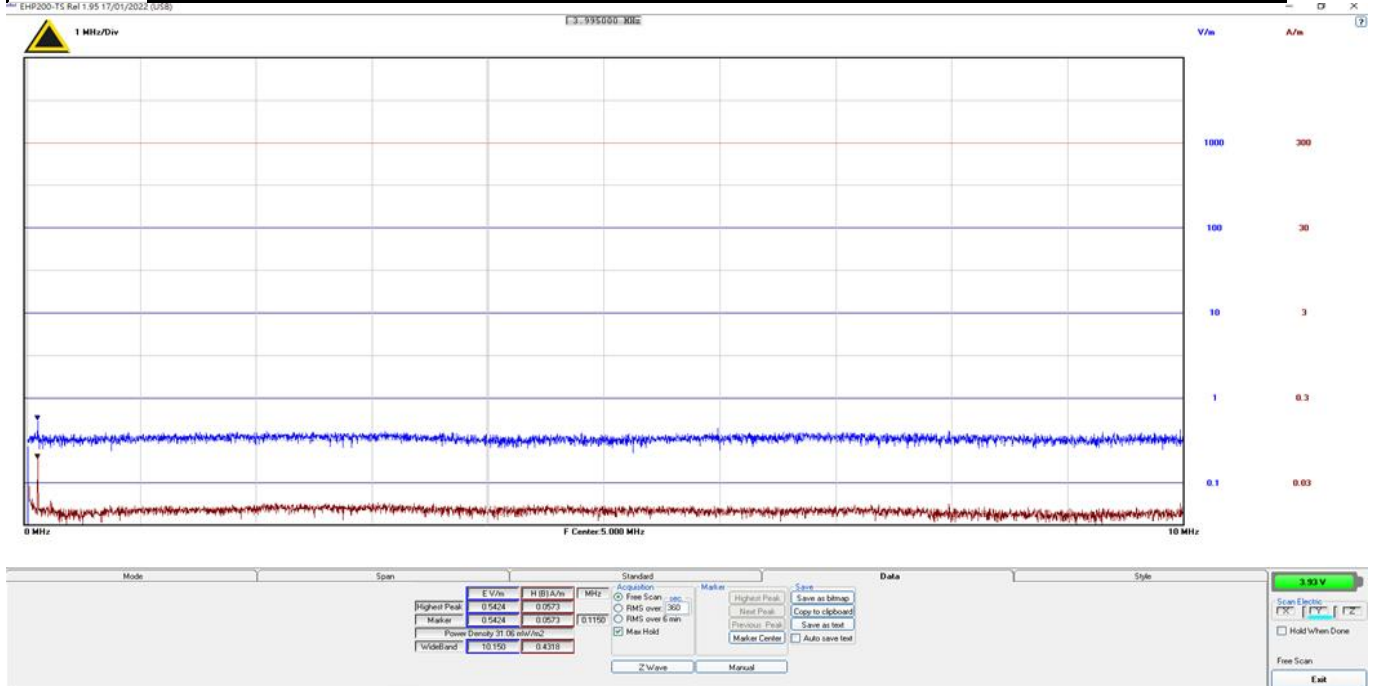
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### 3.4 Maximum Permissible Exposure (MPE) Evaluation:

IC

Maximum Permissible Exposure								
Loading %	Test position _0mm	Test Distance	E-Field Strength (V/m)	E-Field Strength Limit (V/m)	Pass / Fail	H-Field Strength (A/m)	H-Field Strength Limit (A/m)	Pass / Fail
Full	Front	10 cm	0.5424	83	Pass	0.0573	90	Pass
	Back	10 cm	0.5412	83	Pass	0.0572	90	Pass
	Left	10 cm	0.5417	83	Pass	0.0571	90	Pass
	Left1	10 cm	0.5410	83	Pass	0.0572	90	Pass
	Left2	10 cm	0.5421	83	Pass	0.0563	90	Pass
	Right	10 cm	0.5394	83	Pass	0.057	90	Pass
	Right1	10 cm	0.5397	83	Pass	0.0571	90	Pass
	Right2	10 cm	0.5414	83	Pass	0.0572	90	Pass
	Top	10 cm	0.5386	83	Pass	0.0569	90	Pass



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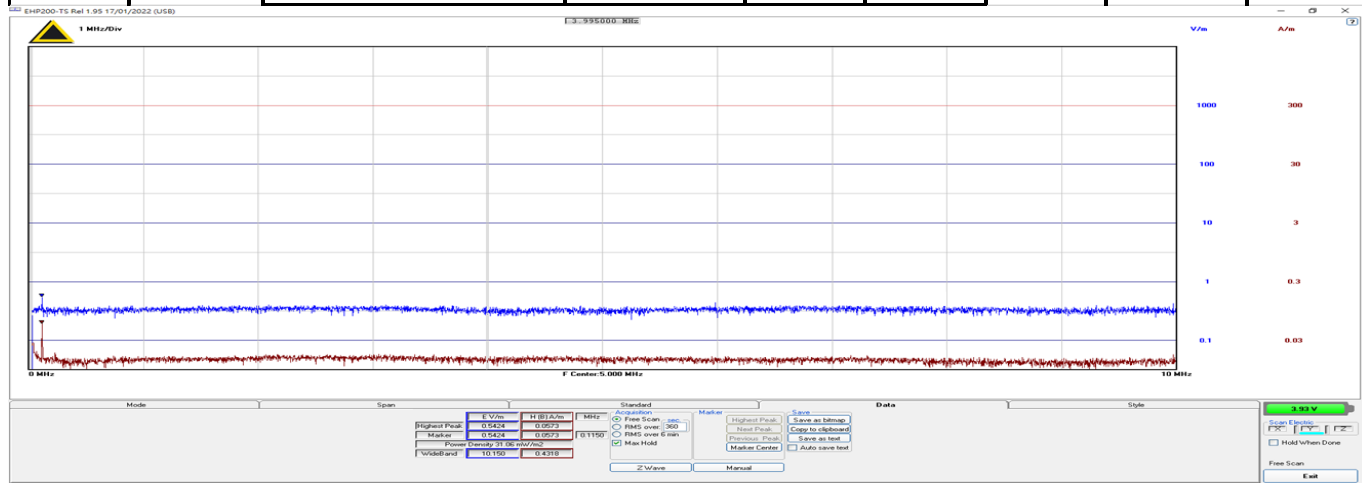
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### 3.5 Summation of measurements from multiple frequencies for E/H-Field

Position	Distance (cm)	Measured Frequency (MHz)	MAX Electric Field level(V/m)	RL (V/m)	Ratios	Sum of Ratios	Threshold	Result
Front	10	0.115	0.5424	83	0.00653	0.0255	1	Pass
		3.9875	0.4846	83	0.00584			
		5.9825	0.4419	83	0.00532			
		0.2325	0.334	83	0.00402			
		7.8675	0.3133	83	0.00377			
Position	Distance (cm)	Measured Frequency (MHz)	MAX H Field level(A/m)	RL (A/m)	Ratios	Sum of Ratios	Threshold	Result
Front	10	0.115	0.0573	90	0.00064	0.00126	1	Pass
		3.9875	0.0133	90	0.00015			
		5.9825	0.0156	90	0.00017			
		0.2325	0.0144	90	0.00016			
		7.8675	0.0131	90	0.00015			



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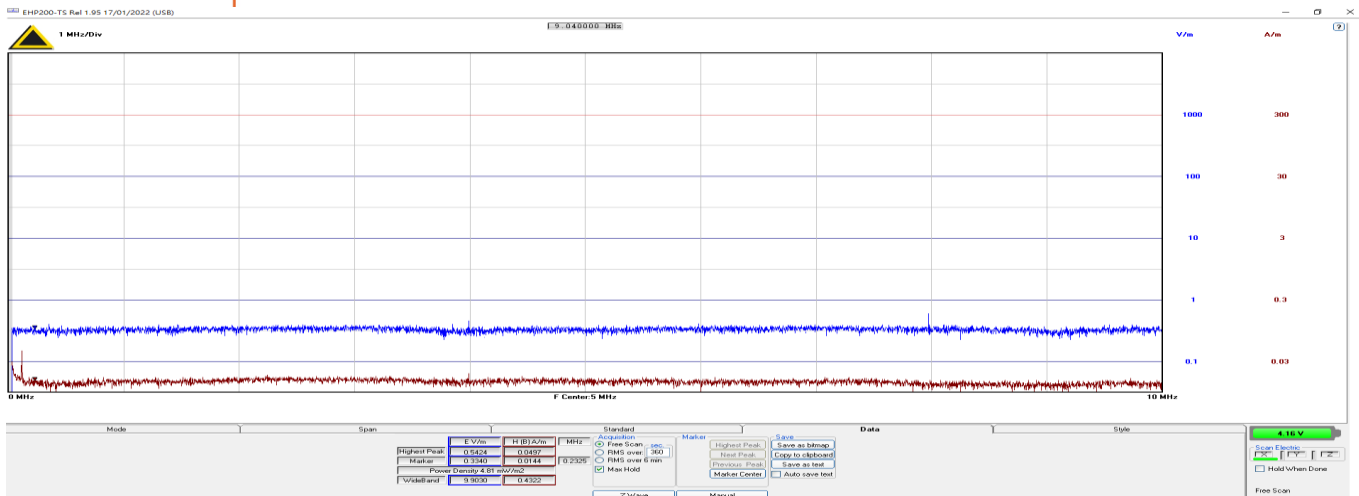
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