



ELEMENT WASHINGTON DC LLC

7185 Oakland Mills Road, Columbia, MD 21046 USA
Tel. 410.290.6652 / Fax 410.290.6654
<http://www.element.com>

RF EXPOSURE EVALUATION Maximum Permissible Exposure (MPE)

Applicant Name:

SetPoint Medical
25101 Rye Canyon Loop
Valencia, CA 91355

Date of Testing:

6/28/2024

Test Report Issue Date:

09/12/2024

Test Site/Location:

Element lab., Columbia, MD, USA

Test Report Serial No.:

1M2407150058-02-R2.2BG3Y

FCC ID:

2BG3YC01

APPLICANT:

SetPoint Medical

Application Type:

Certification

Model:

20087-03

EUT Type:

Docking Station

FCC Classification:

Mobile Device

FCC Rule Part:

FCC Part 1 (§1.1310) and Part 2 (§2.1091)

Test Procedure(s):

KDB 447498 D01 v06

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC KDB 447498 D01. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M2407150058-02-R2.2BG3Y) supersedes and replaces the previously issued test report (S/N: 1M2407150058-02-R1.2BG3Y) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez
Executive Vice President



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1.0 RF EXPOSURE EVALUATION – MAXIMUM PERMISSIBLE EXPOSURE (MPE)

1.1 Introduction

This document is prepared to show compliance with the RF Exposure requirements as required in §1.1310 of the FCC Rules and Regulations. The limit for Maximum Permissible Exposure (MPE), specified in FCC §1.1310(e)(1), is listed in Table 1-1. According to FCC §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b) under the mobile use condition.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30

Table 1-1. Limits for Maximum Permissible Exposure (MPE)

1.2 EUT Description

The **SetPoint Medical FCC ID: 2BG3YC01** is a Docking Station containing wireless power transfer circuitry. The EUT delivers power wirelessly to a load or a Charger (filed under FCC ID: 2BG3YE04) in the frequency range of 110 – 205kHz.

The following devices were used for this test:

Docking station S/N:C01-002781
Charger S/N: E04-001217

1.3 Procedure

The procedure to determine the RF power density was based upon E-field and H-field measurements using a field probe. The measurements are recorded using a Narda EHP-200A probe using Narda measurement software.

The data shown in this report includes the plots from the probe software and the measurement data tables showing the highest E- and H-field measurements from each of 5 sides of the docking station device. Since the docking station will typically sit on top of a surface, measurements are performed at 20cm distance from the left, right, front, back and top of the docking station. The 20cm distance is measured from the outermost edge of the EUT to the measurement plane of the probe.

1.4 Test Equipment Calibration Data

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Narda	EHP-200A	Electric and Magnetic Field Analyzer	10/21/2022	Biennial	10/21/2024	170WX50922
TEM Consulting, LP	N/A	Near Field Scanner	N/A			N/A

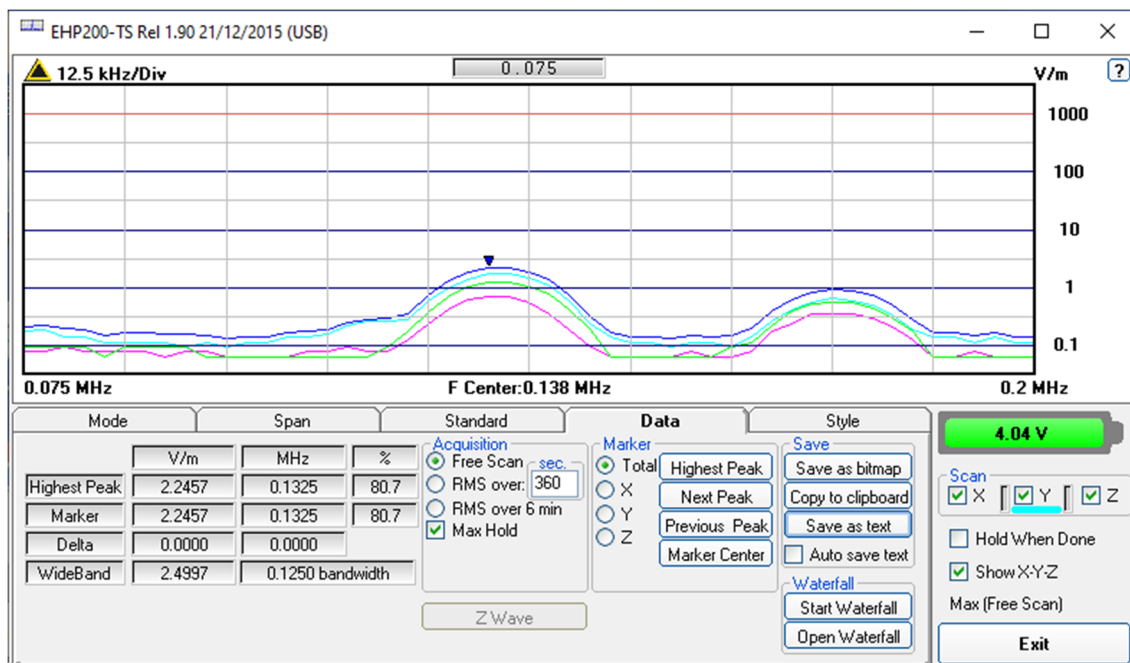
Table 1-2. Test Equipment List

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Measured E-Field MPE

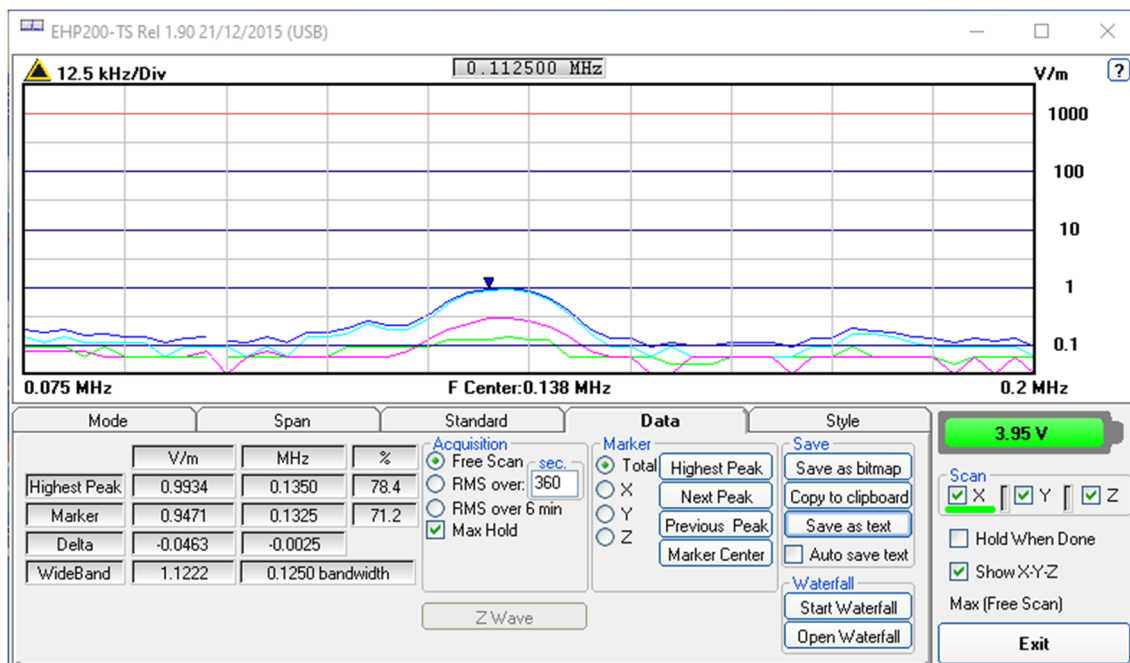
Electric field strength V/m			measurement	Limit V/m	Margin V/m
top			2.2457	614	611.75
front			0.9934	614	613.01
rear			1.8842	614	612.12
left side			0.7444	614	613.26
right side			1.4074	614	612.59

Table 1-3. E-Field Measurements (20cm distance)

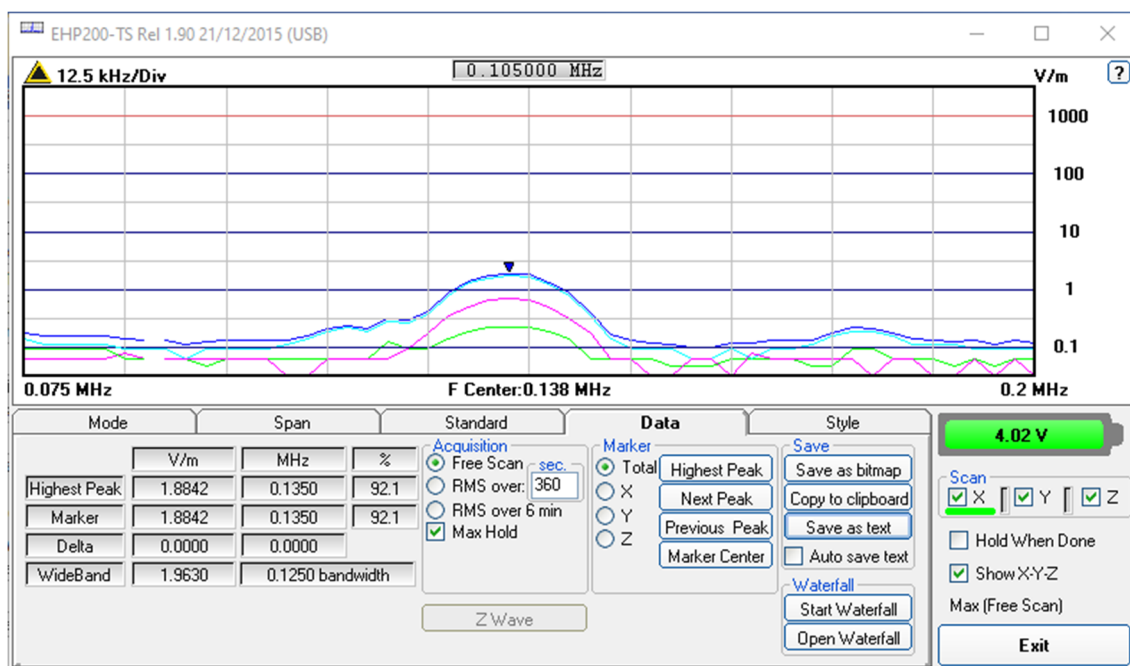


Plot 1-1. E-field Measurement Top

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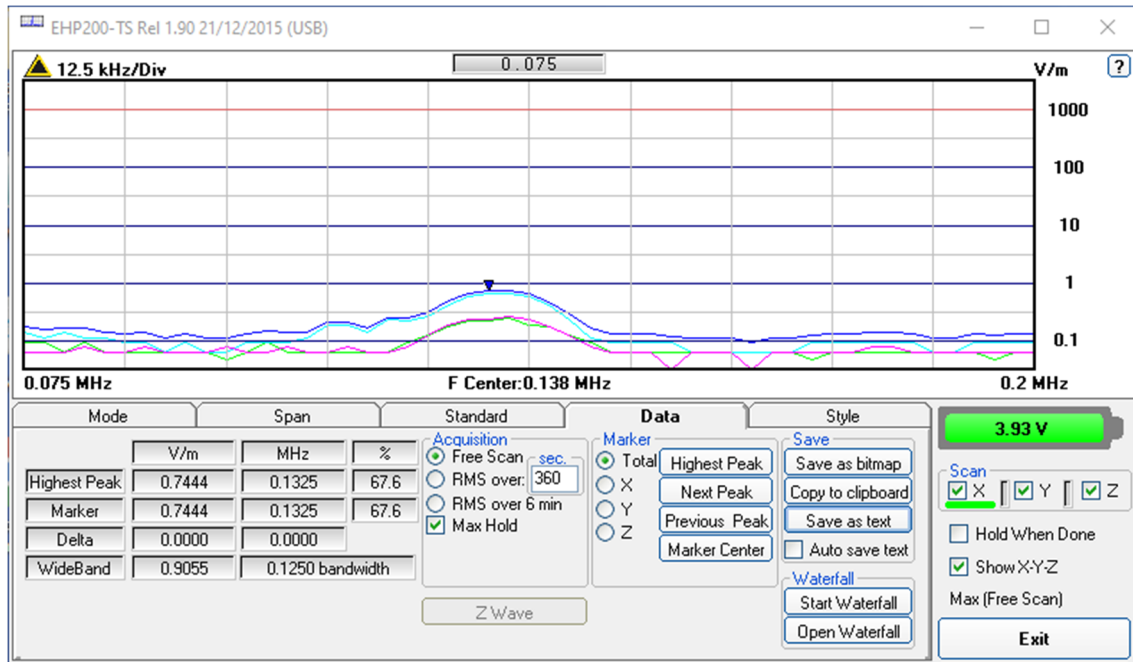


Plot 1-2. E-field Measurement Front

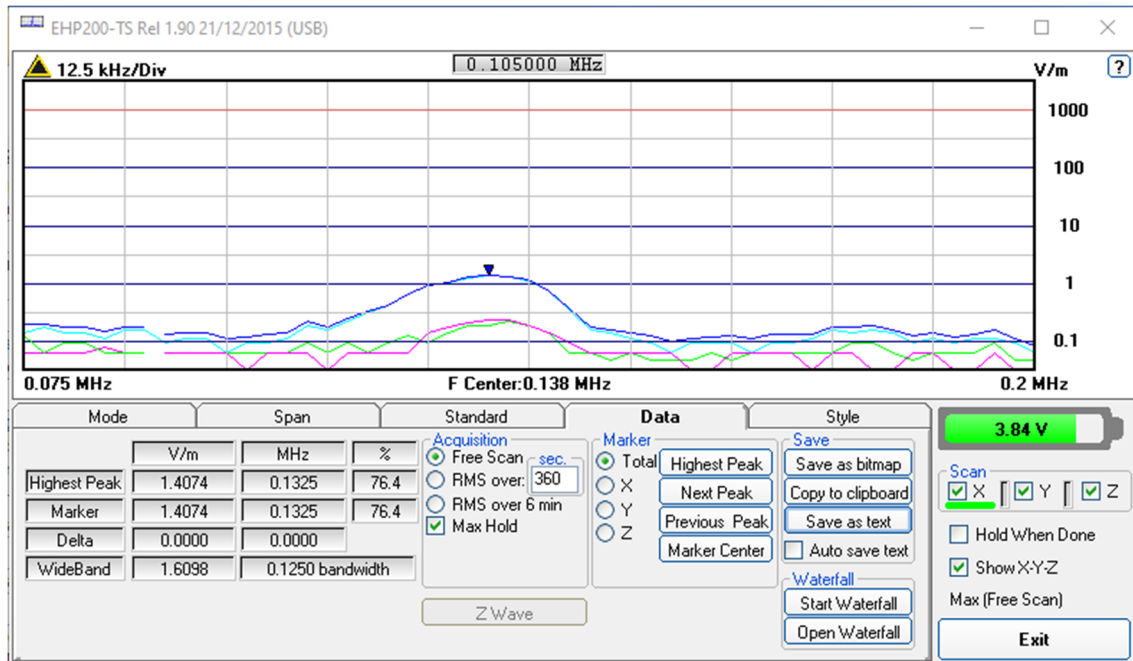


Plot 1-3. E-field Measurement Rear

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Plot 1-4. E-field Measurement Left side



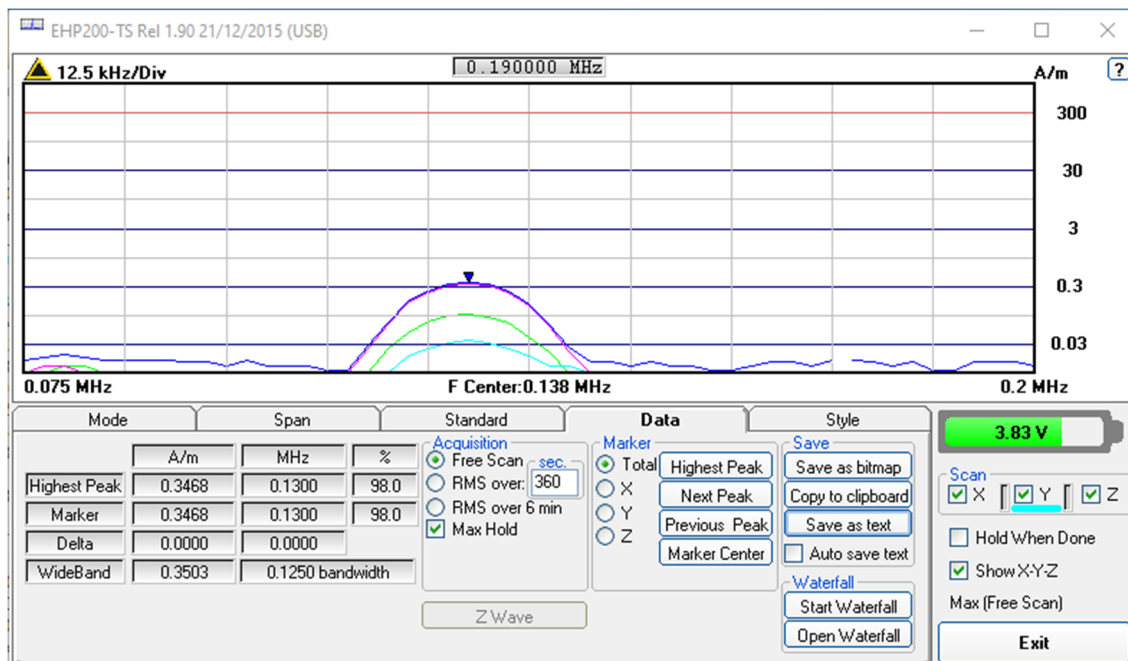
Plot 1-5. E-field Measurement Right side

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Measured H-Field MPE

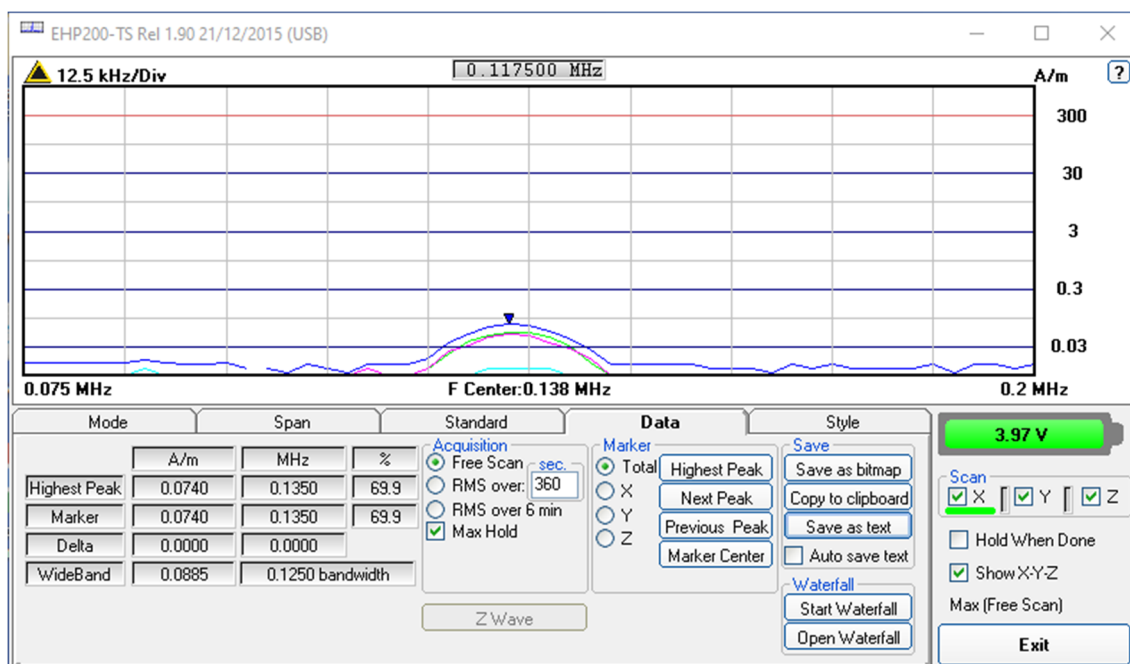
Magnetic field strength A/m			measurement	Limit A/m	Margin A/m
top			0.3468	1.63	1.283
front			0.074	1.63	1.556
rear			0.1008	1.63	1.529
left side			0.0716	1.63	1.558
right side			0.098	1.63	1.532

Table 1-4. H-Field Measurements (20cm distance)

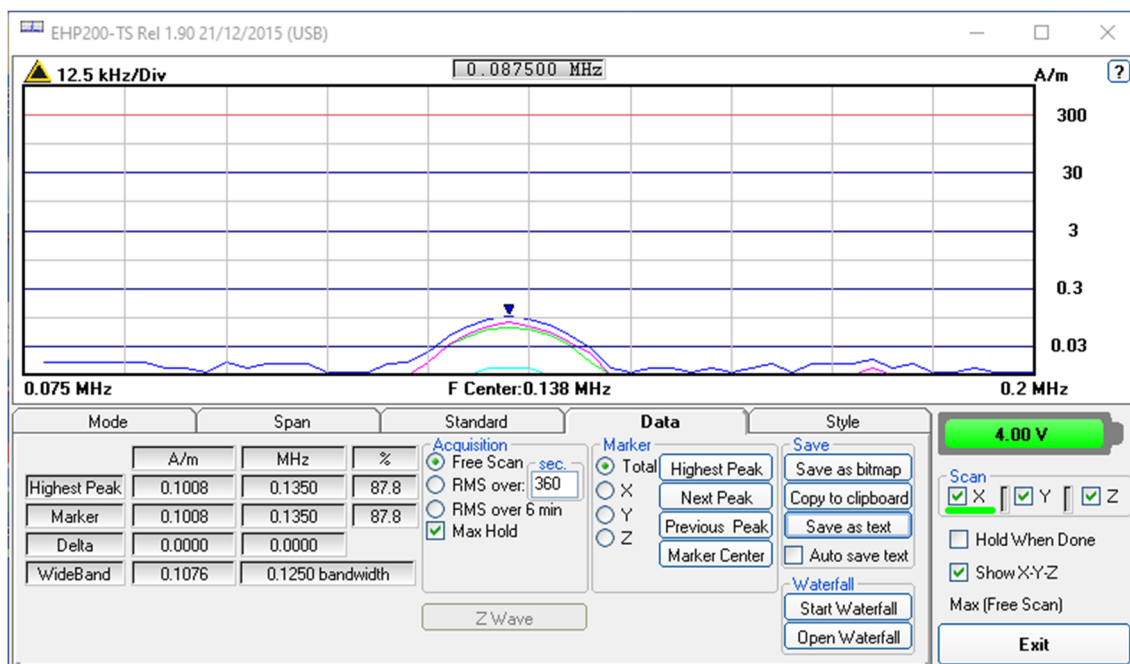


Plot 1-6. H-field Measurement Top

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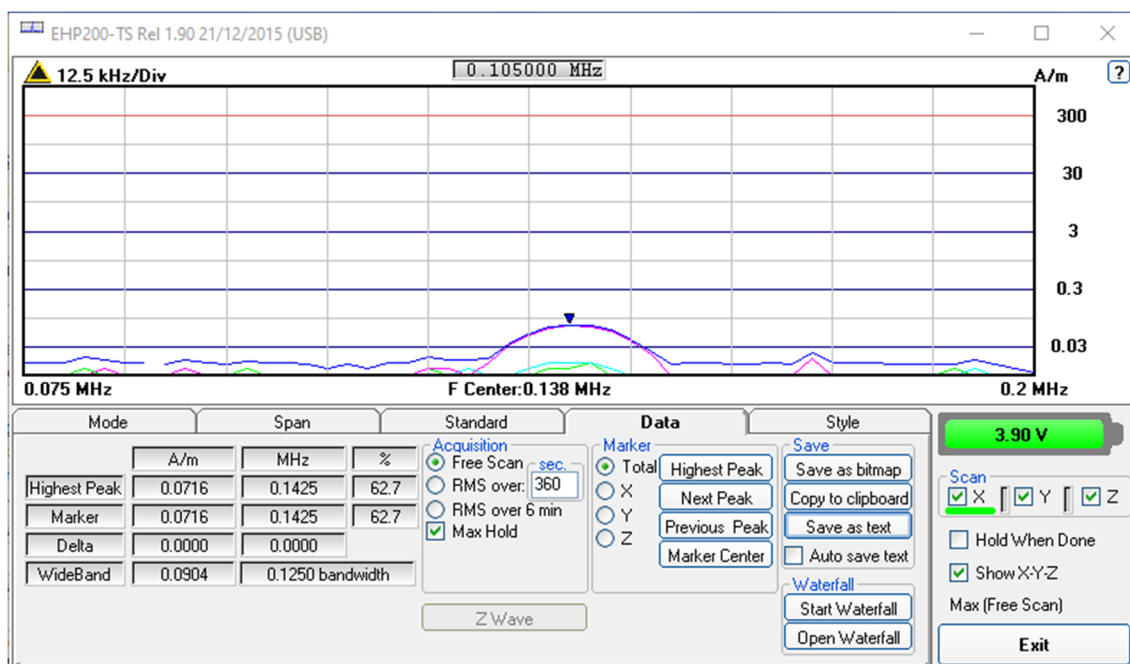


Plot 1-7. H-field Measurement Front

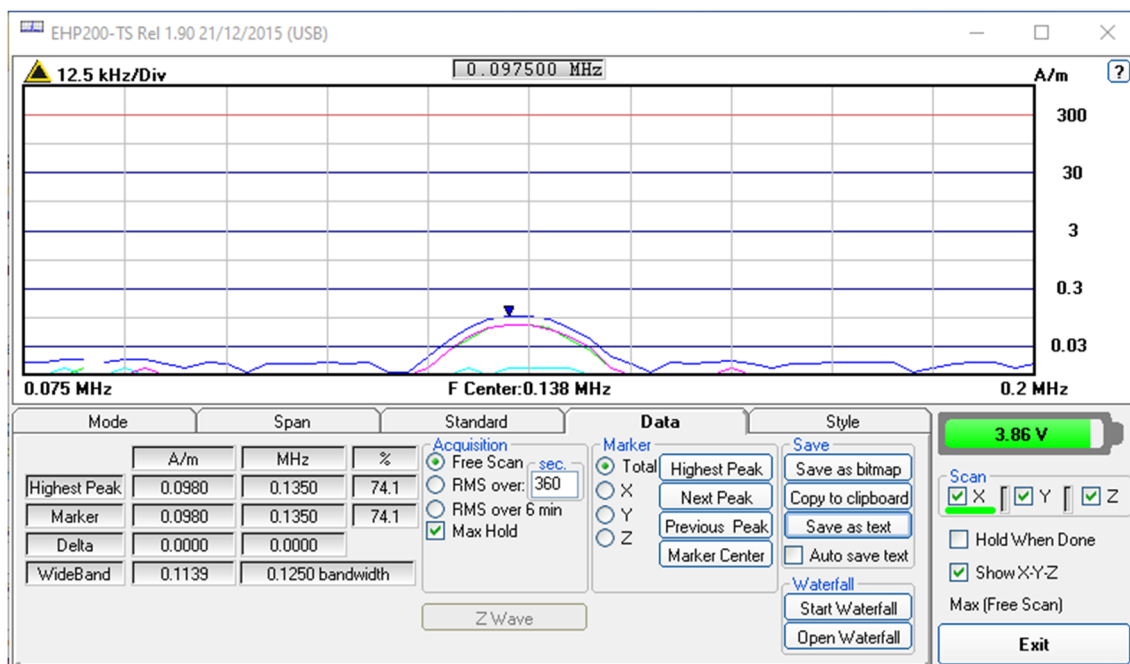


Plot 1-8. H-field Measurement Rear

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Plot 1-9. H-field Measurement Left side



Plot 1-10. H-field Measurement Right side

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2.0 CONCLUSION

The device meets the mobile RF exposure limit at a 20cm separation distance as specified in §2.1091 of the FCC Rules and Regulations. An appropriate RF exposure compliance statement will be placed in the user's manual.

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