



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

## Code of Federal Regulations Title 47 Part 15 – Radio Frequency Devices

Subpart C – Intentional Radiators – Section 15.247  
Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz,  
5725 - 5875 MHz, and 24.0 - 24.25 GHz.

**THE FOLLOWING MEETS THE ABOVE TEST SPECIFICATION**

for

**LIMITED SINGLE MODULAR APPROVAL**

(No RF Shield. Three input power configurations)

**FCC ID: 2AHXD-5267706**

Formal Name:	BBT
Kind of Equipment:	Bluetooth Low Energy (BLE) Transceiver
Frequency Range(s):	2402 – 2480 MHz
Test Configuration:	Table top, Stand-alone With 3 different input power configurations
Model Number(s):	BBT v2
Model(s) Tested:	BBT v2
Serial Number(s):	N/A
Date of Tests:	March 16 <sup>th</sup> through April 15 <sup>th</sup> , and September 27 - 28, 2021
Test Conducted For:	BCycle, LLC 801 W. Madison Street Waterloo, WI 53594, USA

**NOTICE:** The test report contains test data, equipment lists, photographs and/or other information regarding only the sample provided by the client for testing. This test report shall not be used to claim product approval or endorsement by any governmental, regulatory, or accrediting agency. Please see the "Description of Test Sample" page listed inside of this report.

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## Signature Page

Report By:

Craig Brandt  
Test Engineer

Reviewed By:

William Stumpf  
Technical Manager

Approved By:

Brian Mattson  
General Manager



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## CERTIFICATE OF ACCREDITATION

### The ANSI National Accreditation Board

Hereby attests that

**DLS Electronic Systems, Inc.**  
1250 Peterson Drive  
Wheeling, IL 60090  
(and satellite locations as shown on the scope)

Fulfills the requirements of

### ISO/IEC 17025:2017

and

U.S. Federal Communication Commission (FCC) EMC and Telecommunications (EC&T)  
Testing Designation Program

and

Recognition of Telecommunications Testing - Innovation, Science, and Economic Development  
(ISED) Canada

and

FDA Accreditation Scheme for Conformity Assessment (ASCA) Pilot Program - Basic Safety  
and Essential Performance of Medical Electrical Equipment, Medical Electrical Systems, and  
Laboratory Medical Equipment

In the field of

### TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.  
The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).

R. Douglas Leonard Jr., VP, PILLR SBU  
Expiry Date: 23 April 2024  
Certificate Number: AT-1859



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory  
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

### SATELLITE SITE

**DLS Electronic Systems, Inc. (Oats site)**  
166 South Carter  
Genoa City, Wisconsin 53128  
[www.dlsemc.com](http://www.dlsemc.com)



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## 1.0 Summary of Test Report

It was determined that the BBT, model BBT v2, with three different input power configurations, complies with the requirements of Title 47 CFR Part 15, Subpart C, Section 15.247.

### Subpart C Applicable Technical Requirements Tested:

Section	Description	Procedure	Note	Compliant?
15.31(e)	Supply Voltage Statement	N/A		Yes
15.203	Antenna Requirement Statement	N/A		Yes
Informative	Duty Cycle of Test Unit	ANSI C63.10-2013 Section 11.6(b)	1	Yes
15.247(a)(2)	DTS Bandwidth (6 dB Bandwidth)	ANSI C63.10-2013 Sections 6.9.2 & 11.8.2	1	Yes
15.247(b)(3)	Peak Output Power	ANSI C63.10-2013 Section 11.9.1.1	1	Yes
15.247(e)	Peak Power Spectral Density	ANSI C63.10-2013 Section 11.10.2	1	Yes
15.247(d)	Emissions in Non-Restricted Frequency Bands	ANSI C63.10-2013 Sections 11.11.1(a), 11.11.2, & 11.11.3	1	Yes
15.247(d) 15.205(b) 15.209(a)	Emissions in Restricted Frequency Bands	ANSI C63.10-2013 Section 11.12.1	2	Yes
15.247(d)	Authorized Band Edge	ANSI C63.10-2013 Sections 6.10.4 & 11.11.1(a)	1	Yes
15.247(d) 15.205(b) 15.209(a)	Restricted Band Edge	ANSI C63.10-2013 Section 6.10.5.2	2	Yes
15.207	AC Line Conducted Emissions	ANSI C63.10-2013 Section 6.2	3	Yes

Note 1: RF Conducted measurement.

Note 2: Radiated Emission measurement; tested in 3 orthogonal axes.

Note 3: AC Line Conducted measurement.



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## 2.0 Introduction

During March 16<sup>th</sup> through April 15<sup>th</sup>, and September 27 - 28, 2021 the BBT, model BBT v2, with three different input power configurations, as provided by BCycle, LLC was tested to the requirements of Title 47 CFR Part 15, Subpart C, Section 15.247. To meet these requirements, the procedures contained within this report were performed by personnel of D.L.S. Electronic Systems, Inc.

## 3.0 Test Facilities

D.L.S. Electronic Systems, Inc. is a full-service EMC/Safety Testing Laboratory accredited to ISO 17025. ANAB Certificate and Scope can be viewed at <http://www.dlsemc.com/certificate>. Our facilities are registered with the FCC, ISED Canada, and VCCI.

### Wisconsin Test Facility:

D.L.S. Electronic Systems, Inc.  
166 S. Carter Street  
Genoa City, Wisconsin 53128

### Wheeling Test Facility:

D.L.S. Electronic Systems, Inc.  
1250 Peterson Drive  
Wheeling, IL 60090

**FCC Registration #90531**

## 4.0 Description of Test Sample

### Description:

This module is part of a "kiosk" assembly located outdoors. The BLE module is connected to a PC through a USB cable. The PC is located inside the metal kiosk box, with the module mounted to the outside in a weathertight enclosure. The module scans for BLE devices with a particular service ID, connects to them and downloads a small amount of data, disconnects and then sends the data to the PC when requested. It is continuously scanning for BLE devices with which to connect.

### Type of Equipment / Frequency Range:

DTS – BLE module / 2402 – 2480 MHz

### Physical Dimensions of Equipment Under Test:

Length: 3 in x Width: 1 in x Height: 0.25 in



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#### 4.0 Description of Test Sample – continued

##### Power Source:

Three different configurations:

5273581 Bike Side Module: **12 Volts DC** (from a cable harness on an eBike; through a short 4 inch cable soldered to the circuit board)

5273582 3.0 Dock Module: **3.8 Volts DC** (from a BCycle motherboard; through feather interface pins)

5273583 Kiosk Module: **5 Volts DC** (from a PC running a BCycle application; through a 1-meter USB cable soldered to the circuit board)

##### Internal Frequencies:

Switching power supply, clock, timing signal, & microprocessor operating frequencies:

32 MHz, 32.768 kHz

##### Transmit Frequencies Used For Test Purpose:

2402 MHz, 2440 MHz, 2480 MHz

##### Type of Modulation(s) / Antenna Type:

GFSK, data rate 1 Mbps, BLE V5.0 /

L-shape PCB trace antenna, (3.64 dBd Peak Gain)





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## 5.0 Test Equipment

A list of the equipment used can be found in the table below. All primary equipment was calibrated against known reference standards with a verified traceable path to NIST.

### D.L.S. Wisconsin – RF Conducted – Site G1 – Test Equipment:

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Dates	Cal Due Dates
Receiver	Rohde & Schwarz	ESI 40	837808/005	20 Hz-40 GHz	1-29-21	1-29-22
Cable	Micro-Coax	UFC142A	CBL-101	30 MHz – 40 GHz	5-12-20	5-12-21
Test Software	Rohde & Schwarz	ESK1	V1.7.1	N/A	N/A	N/A

### D.L.S. Wisconsin – Radiated Emissions 30-1000 MHz – Site G1 – Test Equipment: (Pre-scan search: No Radiated Emissions detected from 30 to 1000 MHz)

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Dates	Cal Due Dates
Receiver	Rohde & Schwarz	ESI 40	837808/005	20 Hz-40 GHz	1-29-21	1-29-22
Antenna	EMCO	3104C	9701-4785	20 MHz-200 MHz	4-15-20	4-15-22
Antenna	Electro-Metrics	LPA-25	1205	200 MHz-1 GHz	4-15-20	4-15-22
Cable	Micro-Coax	UFB311A	CBL-100	30 MHz-18 GHz	5-5-20	5-5-21
Test Software	Rohde & Schwarz	ESK1	V1.7.1	N/A	N/A	N/A

### D.L.S. Wisconsin – Radiated Emissions 1-4.2 GHz – Site G1 – Test Equipment:

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Dates	Cal Due Dates
Receiver	Rohde & Schwarz	ESI 40	837808/005	20 Hz-40 GHz	1-29-21	1-29-22
Horn Antenna	EMCO	3115	9903-5731	1 GHz-18 GHz	1-16-20	1-16-22
Cable	Micro-Coax	UFB311A	CBL-100	30 MHz-18 GHz	5-5-20	5-5-21
Cable	Micro-Coax	UFB311A	CBL-100	30 MHz-18 GHz	4-7-21	4-7-22
Test Software	Rohde & Schwarz	ESK1	V1.7.1	N/A	N/A	N/A





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**5.0 Test Equipment – continued**

**D.L.S. Wisconsin – Radiated Emissions 4.2-18 GHz – Site G1 – Test Equipment:**

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Dates	Cal Due Dates
Receiver	Rohde & Schwarz	ESI 40	837808/005	20 Hz-40 GHz	1-29-21	1-29-22
Horn Antenna	EMCO	3115	9903-5731	1 GHz-18 GHz	1-16-20	1-16-22
Cable	Micro-Coax	UFB311A	CBL-100	30 MHz-18 GHz	5-5-20	5-5-21
Cable	Micro-Coax	UFB311A	CBL-100	30 MHz-18 GHz	4-7-21	4-7-22
Test Software	Rohde & Schwarz	ESK1	V1.7.1	N/A	N/A	N/A
High Pass Filter	Q Microwave	100462	1	4.2 GHz - 18 GHz	11-6-20	11-6-21
Preamplifier	Miteq	AMF-7D-01001800-22-10P	1777990	1 GHz-18 GHz	1-5-21	1-5-22

**D.L.S. Wisconsin – Radiated Emissions 18-25 GHz – Site G1 – Test Equipment:**

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Dates	Cal Due Dates
Receiver	Rohde & Schwarz	ESI 40	837808/005	20 Hz-40 GHz	1-29-21	1-29-22
Horn Antenna	EMCO	3116	2549	18 GHz-40 GHz	1-28-21	1-28-23
Cable	Teledyne	096-0004-036	CBL-091	30 MHz-40 GHz	5-12-20	5-12-21
Cable	Micro-Coax	UFC142A	CBL-102	30 MHz-40 GHz	5-12-20	5-12-21
High Pass Filter	K & L	50140 11SH10-18000/T40 000-K-K	8	18 GHz-40 GHz	5-5-20	5-5-21
Preamplifier	Miteq	AMF-8B-180265-40-10P-H/S	438727	18 GHz-26 GHz	5-5-20	5-5-21
Test Software	Rohde & Schwarz	ESK1	V1.7.1	N/A	N/A	N/A



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## 5.0 Test Equipment – continued

### D.L.S. Wisconsin – AC Line Conducted (Screen Room)

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Dates	Cal Due Dates
Receiver	Narda PMM	9010F	020WW40 102	10 Hz – 50 MHz	4-29-20	4-29-21
Cable	Beldin	9914	CBL-043	9 kHz – 30 MHz	3-30-21	3-30-22
Cable	Manhattan/CDT	RG-223/U	CBL-045	9 kHz – 30 MHz	3-30-21	3-30-22
LISN	ComPower	LI-220A	192036	9 kHz – 30 MHz	8-25-20	8-25-21
Filter- High-Pass	Solar Electronics	7930-120	090702	120 kHz – 30 MHz	10-13-20	10-13-21
Limiter	Electro-Metrics	EM-7600	705	9 kHz – 30 MHz	10-13-20	10-13-21
Test Software	Narda PMM	Emission Suite	V2.22	N/A	N/A	N/A

## 6.0 Test Arrangements

### Measurement Arrangement:

All measurements were performed at D.L.S. Electronic Systems, Inc. and set up according to ANSI C63.10-2013, unless otherwise noted. Description of procedures and measurements can be found in Section A – Measurement Data. See separate exhibit for photos of the test set up. See Section B for measurement uncertainty.

Unless otherwise noted, the bandwidth of the measuring receiver / analyzer used during testing is shown below.

Frequency Range	Bandwidth (-6 dB)
10 to 150 kHz	200 Hz
150 kHz to 30 MHz	9 kHz
30 MHz to 1 GHz	120 kHz
Above 1 GHz	1 MHz



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## 7.0 Test Conditions

### Temperature and Humidity:

70 °F at 27% RH

### Supply Voltage:

Radiated Emission measurements:

5273581 Bike Side Module: **12 Volts DC** (from a linear DC bench supply; through a short 4 inch cable soldered to the circuit board)

5273582 3.0 Dock Module: **3.8 Volts DC** (from a linear DC bench supply; through feather interface pins)

5273583 Kiosk Module: **5 Volts DC** (from an off-the-shelf 120V, 60Hz to 5 VDC USB power adapter; through a 1-meter USB cable soldered to the circuit board)

Power adapter used: Intertek NeverBlock Wall Charger, Model 1310806TG, SN: 2634103975

RF Conducted measurements:

RF conducted radio test unit: **5 Volts DC** (from an off-the-shelf 120V, 60Hz to 5 VDC USB power adapter; through a micro USB connector soldered on the circuit board at the location where a USB cable is normally soldered to the circuit board in the Kiosk Module configuration)

Power adapter used: Tech & Go! NeverBlock Wall Charger, Model 1310806TG, SN: 2634103975

## 8.0 Modifications Made to EUT For Compliance

None noted at time of test.



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## 9.0 Additional Descriptions

In following FCC Part 15 and ANSI C63.10 requirements, the EUT was programmed for continuous transmit, modulated, with a 100% duty cycle.

For RF Conducted measurements, a temporary SMA connector was soldered in place of the antenna. An RF cable was connected to the SMA connector and directly to the input of the spectrum analyzer. The output power of the EUT is low enough that no external attenuators were needed. Correction factors for the loss of the RF cable were downloaded into the spectrum analyzer so that the values displayed on the spectrum analyzer are already corrected for cable loss, and no further corrections are needed.

For Radiated Emission measurements, the EUT was tested while transmitting from the on-board trace antenna. The device was set up on a non-conductive table for testing purposes. All three module configurations (see section 4.0 Description of Test Sample) were tested for all radiated measurements. The data contained in this report represents the worst-case configuration for each test. For radiated emission testing purposes, each configuration was tested as stand-alone (outside the various enclosures) and powered as stated in section 7.0 (Test Conditions, Supply Voltage).

The EUT was programmed for continuous transmission (100% duty cycle) on the lowest, middle, and highest channels of operation in the 2.4 GHz BLE frequency band. The EUT's were rotated through three orthogonal axes to find worst-case emission levels. These worst-case levels and input power configurations are recorded in this test report.

See Section A for operation and setup specific to the FCC Rule part and ANSI C63.10 guidance reference for each test performed. See the separate Setup Photos exhibit for test setup photos of the RF Conducted measurements and each of the three configurations tested for Radiated Emission measurements.



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## 10.0 FCC 15.31(e) Supply Voltage Requirement statement

FCC 15.31(e) - For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

**Compliance Statement:** This device complies with the requirements of Part 15.31(e):

- This device is battery operated. All tests were performed using a new (or fully charged) battery.
- This device provides a constant regulated voltage to the RF circuitry regardless of supply voltage (see schematic diagrams).
- This device does not provide a constant regulated voltage to the RF circuitry regardless of supply voltage. Data has been supplied in this test report that supports compliance. Details:

## 11.0 FCC 15.203 Antenna Requirement statement

### SECTION 15.203 ANTENNA REQUIREMENT

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.... This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221.

**Statement:** This wireless device (Intentional Radiator) meets the requirements of FCC Part 15.203:

- The antenna is permanently attached
- The antenna has a unique coupling to the intentional radiator.  
Description of coupling:
- This intentional radiator is professionally installed
- This intentional radiator, in accordance with Section 15.31(d), must be measured at the installation site.



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## 12.0 Results

Measurements were performed in accordance with ANSI C63.10-2013. Graphical and tabular data can be found in Section A at the end of this report.

## 13.0 Conclusion

The BBT, model BBT v2, with three different input power configurations, as provided by BCycle, LLC, tested during March 16<sup>th</sup> through April 15<sup>th</sup>, and September 27 - 28, 2021 **meets** the requirements of Title 47 CFR Part 15, Subpart C, Section 15.247, for a Limited Single Modular Approval.



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## Section A – Measurement Data

### A1.0 Duty Cycle of Test Unit

#### Rule Part:

Informative

#### Test Procedure:

ANSI C63.10-2013, Section 11.6(b)  
Zero-span mode on a spectrum analyzer

#### Limit:

Informative

#### Results:

Duty Cycle Correction Factor: **None.** EUT in test mode is transmitting continuously with a duty cycle of 100%.

#### Notes:

This test was performed using the RF Conducted test configuration. The test software was set to transmit a modulated signal at 100% duty cycle with an output power setting of 0. These same software settings were used for all RF Conducted and Radiated Emission testing.





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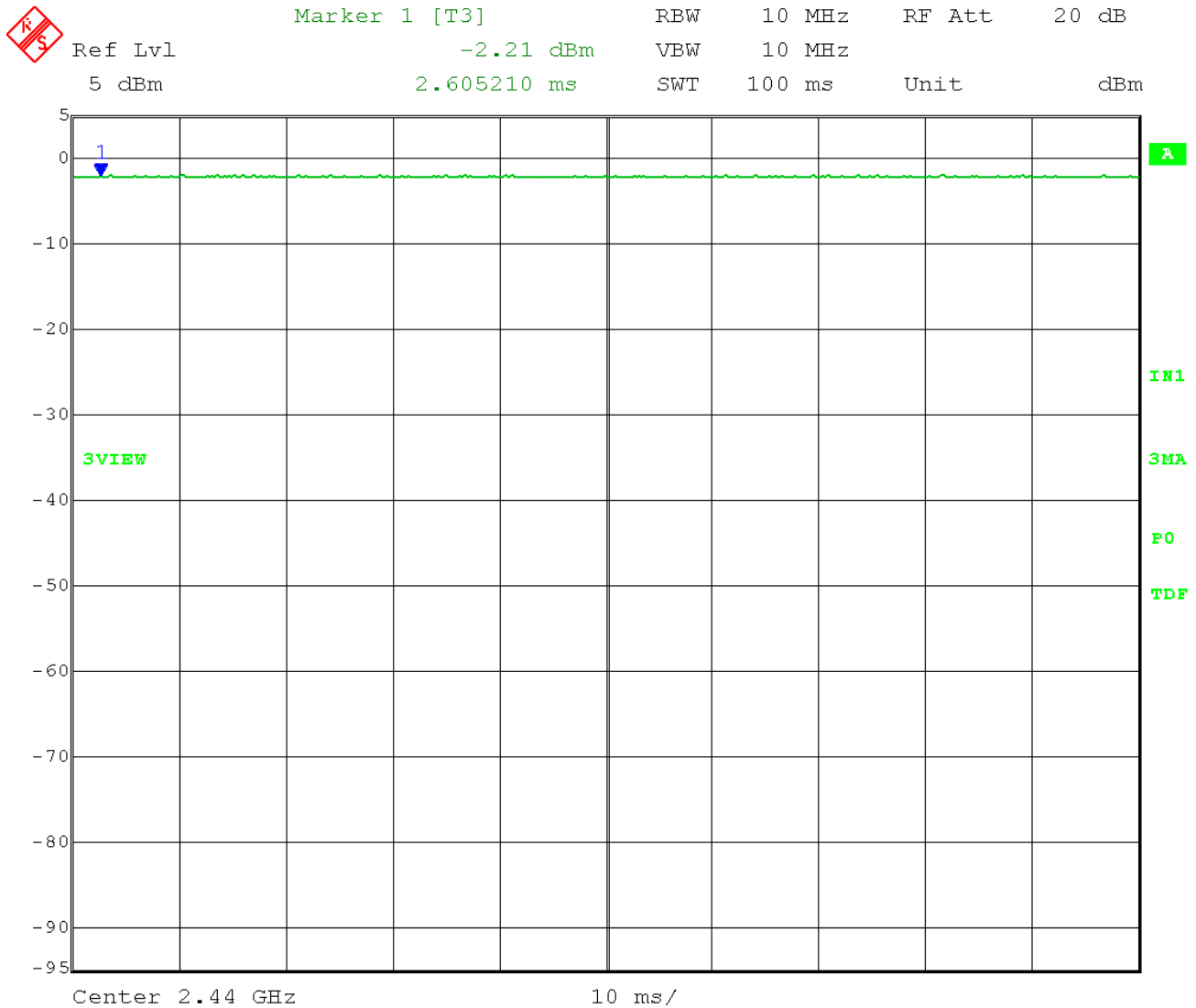
Company: BCycle, LLC  
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### Section A

Test Date: 02-16-2021  
Company: BCycle  
EUT: BBT  
Test: Duty Cycle of Test Unit – RF Conducted  
Operator: cbrandt

Comment: Mid Channel: 2440 MHz  
**Duty Cycle = 100%**

100 ms sweep:



Date: 16.MAR.2021 12:39:38



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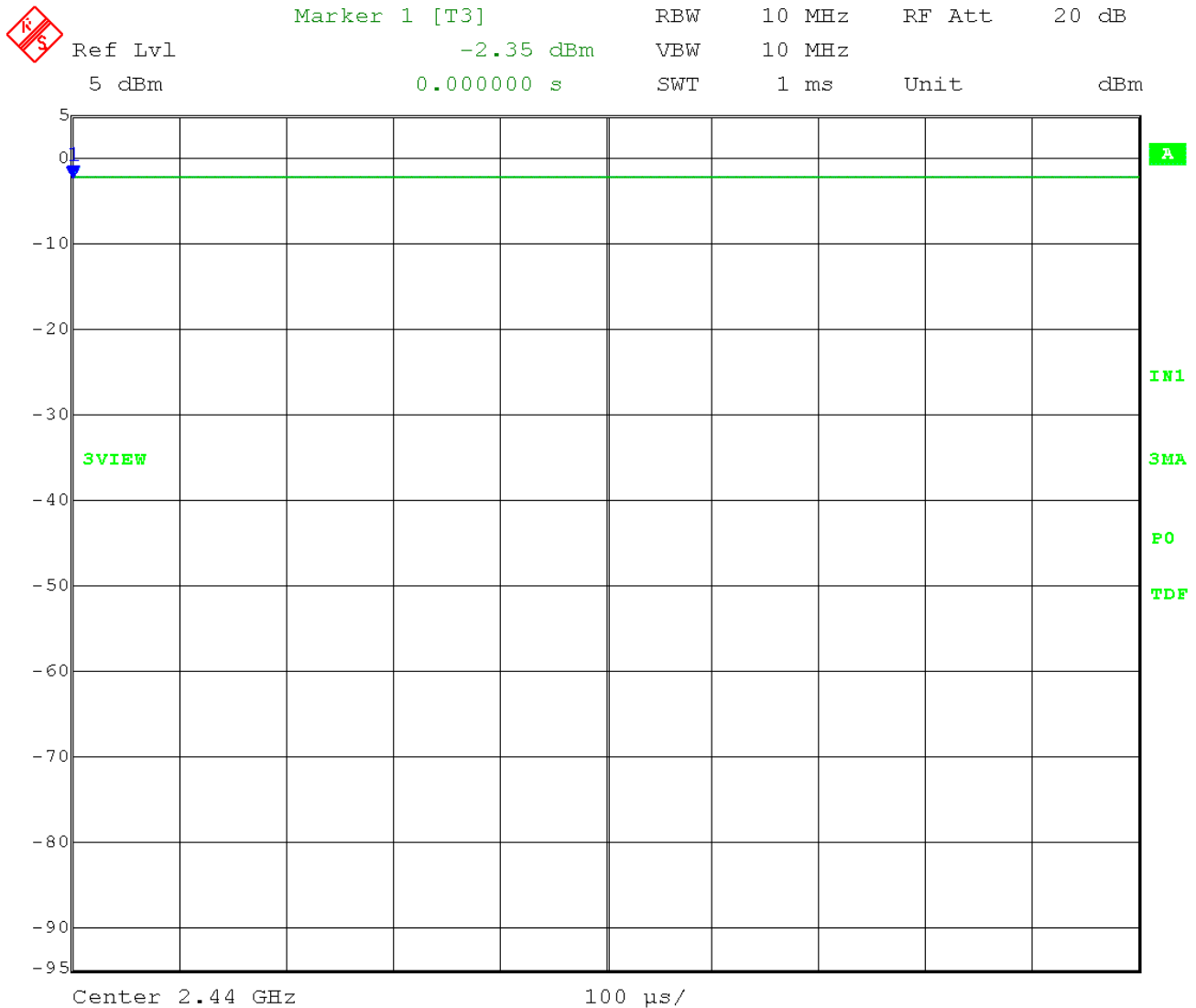
Company: BCycle, LLC  
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### Section A

Test Date: 02-16-2021  
Company: BCycle  
EUT: BBT  
Test: Duty Cycle of Test Unit – RF Conducted  
Operator: cbrandt

Comment: Mid Channel: 2440 MHz  
**Duty Cycle = 100%**

1 ms sweep:



Date: 16.MAR.2021 12:42:25



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## Section A

### A2.0 DTS Bandwidth (6 dB bandwidth)

#### Rule Part:

Section 15.247(a)(2)

#### Test Procedure:

ANSI C63.10-2013, Sections 6.9.2 and 11.8.2  
Occupied bandwidth – relative measurement procedure  
Automatic bandwidth measurement function of spectrum analyzer

#### Limit:

Minimum 6 dB bandwidth must be at least 500 kHz.

#### Results:

Compliant.  
Minimum 6 dB bandwidth = **754 kHz**.

#### Notes:

Per ANSI C63.10 Section 5.11, the EUT was programmed for continuous transmit, modulated, with a 100% duty cycle. Power setting 0 was used per manufacturer's instruction. This test was performed using the RF Conducted test configuration. The EUT was tested at the low, middle, and high channels of operation in accordance with FCC 15.31(m).



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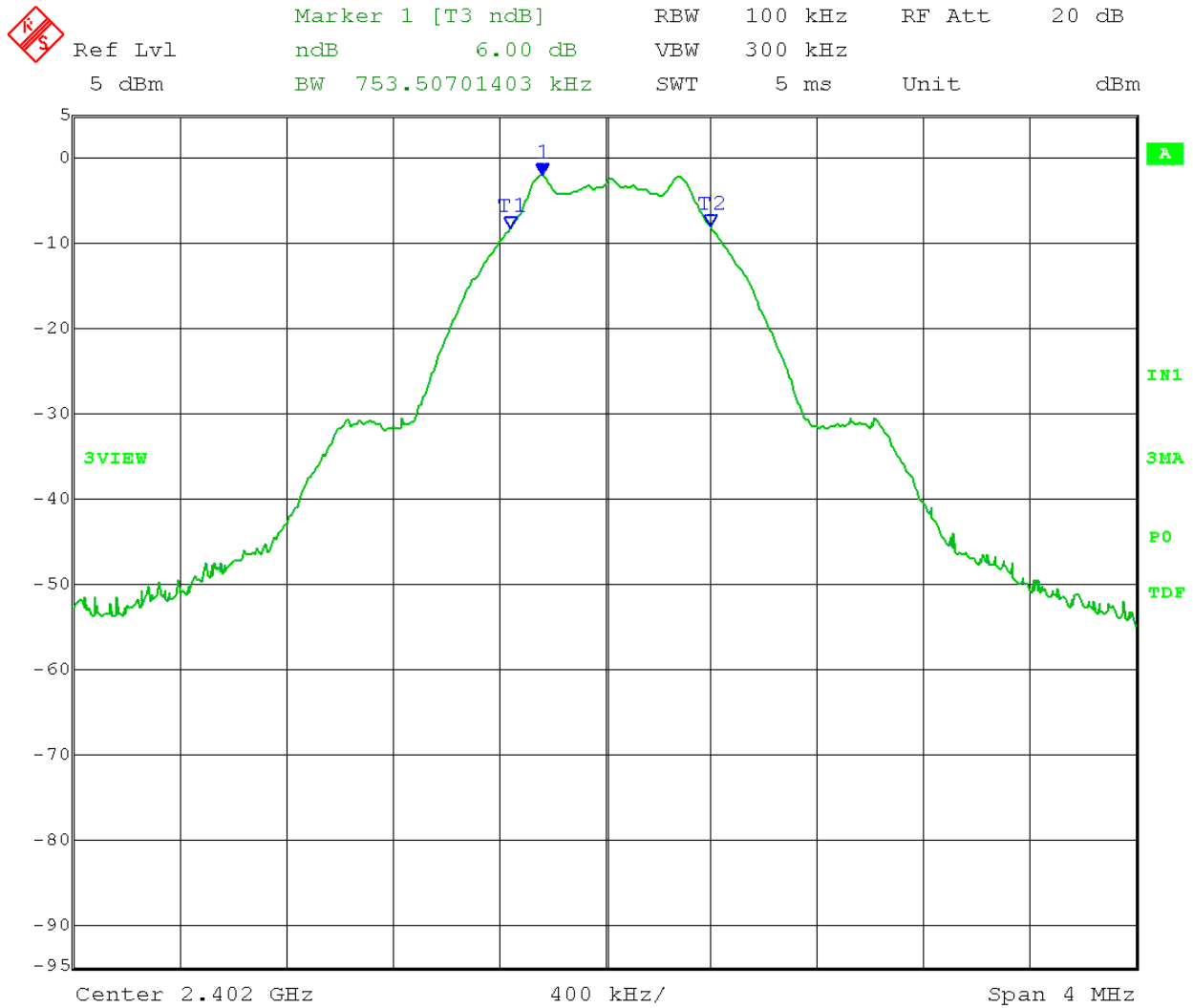
Company: BCycle, LLC  
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### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: DTS (6 dB) Bandwidth – RF Conducted  
Operator: cbrandt

Comment: Power setting 0  
Low Channel: 2402 MHz

6 dB Bandwidth = 754 kHz



Date: 16.MAR.2021 13:01:33



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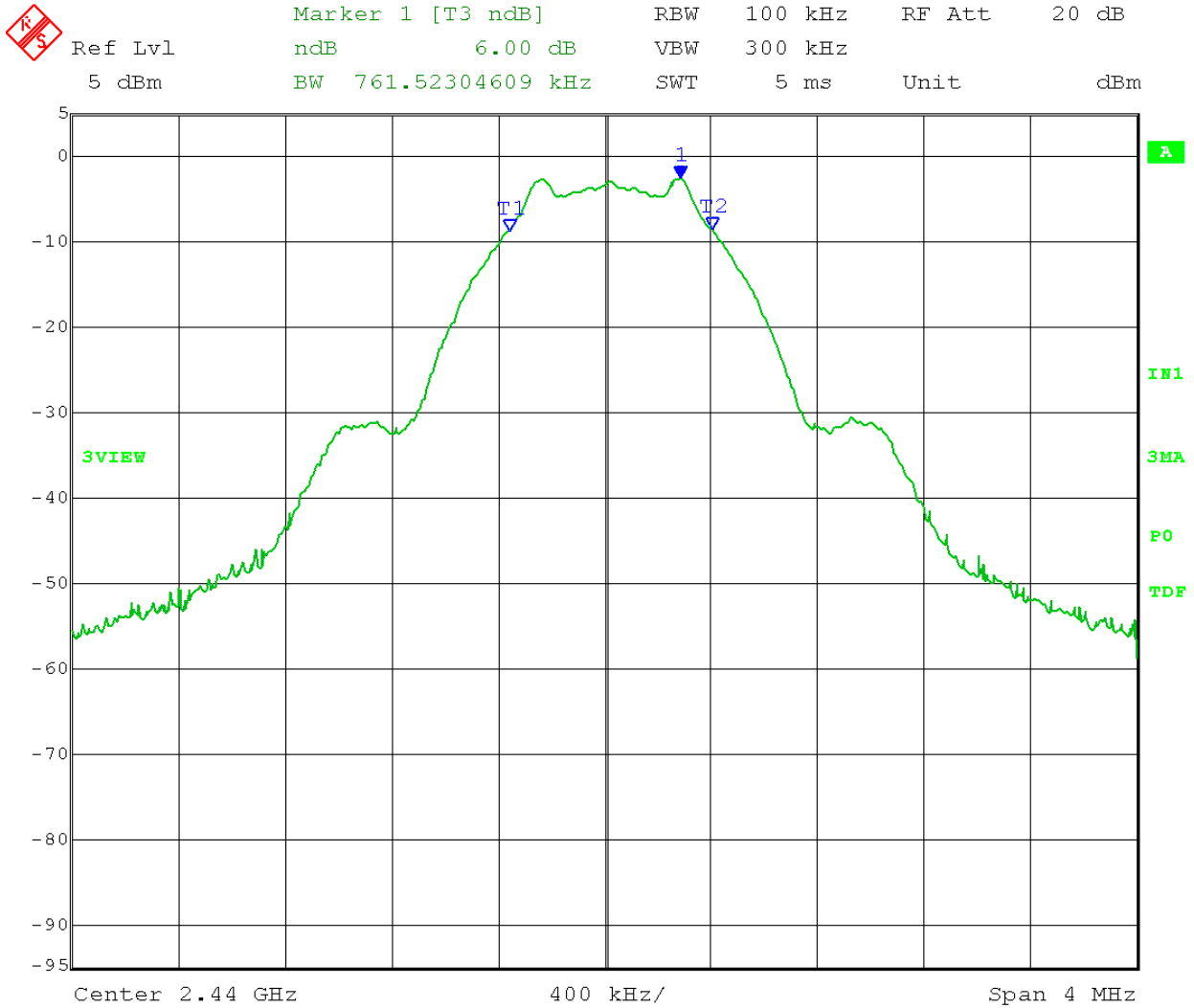
Company: BCycle, LLC  
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### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: DTS (6 dB) Bandwidth – RF Conducted  
Operator: cbrandt

Comment: Power setting 0  
Mid Channel: 2440 MHz

6 dB Bandwidth = 762 kHz



Date: 16.MAR.2021 12:55:51



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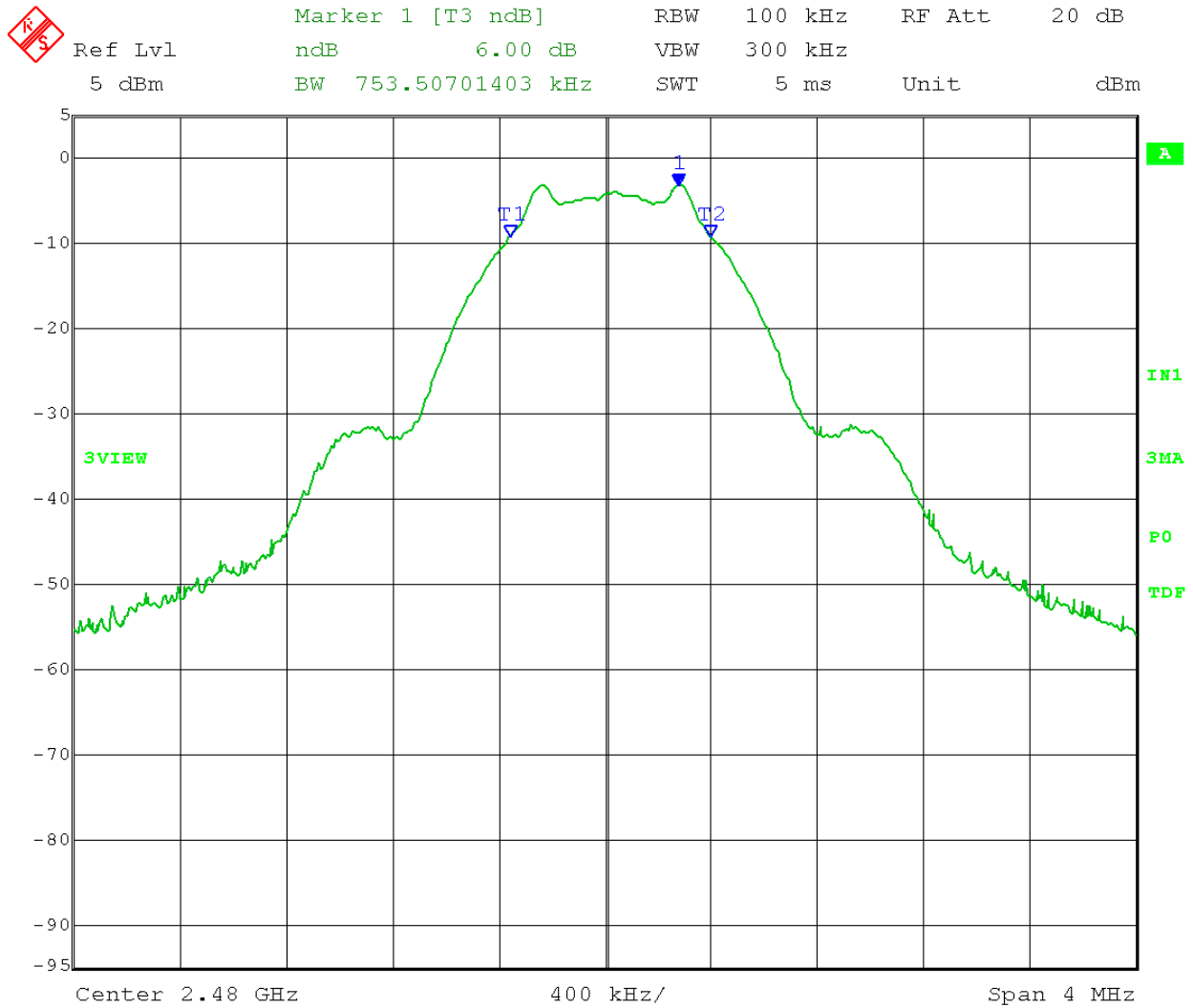
Company: BCycle, LLC  
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### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: DTS (6 dB) Bandwidth – RF Conducted  
Operator: cbrandt

Comment: Power setting 0  
High Channel: 2480 MHz

6 dB Bandwidth = 754 kHz



Date: 16.MAR.2021 13:04:37



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## Section A

### A3.0 Peak Output Power

#### Rule Part:

Section 15.247(b)(3)

#### Test Procedure:

ANSI C63.10-2013, Section 11.9.1.1  
Maximum peak conducted output power  
RBW  $\geq$  DTS bandwidth method

#### Limit:

1 Watt (30 dBm) RF Conducted

#### Results:

Compliant  
Maximum Peak Output Power measured -2.10 dBm = **0.62 mW**.

#### Notes:

Per ANSI C63.10 Section 5.11, the EUT was programmed for continuous transmit, modulated, with a 100% duty cycle. Power setting 0 was used per manufacturer's instruction. This test was performed using the RF Conducted test configuration. The EUT was tested at the low, middle, and high channels of operation in accordance with FCC 15.31(m).





166 South Carter, Genoa City, WI 53128

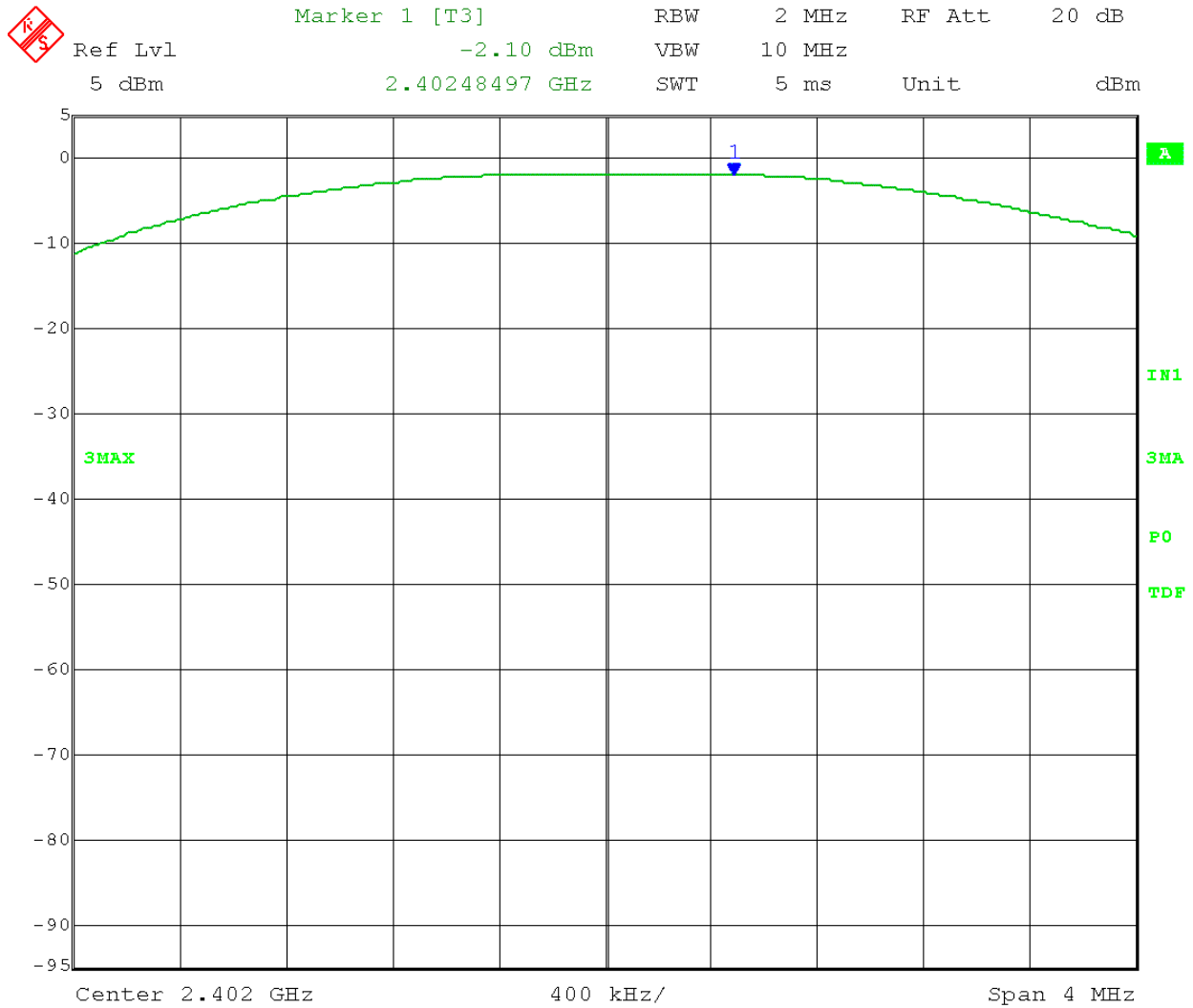
Company:	BCycle, LLC
Model Tested:	BBT v2
Report Number:	26095 rev1.1
Project Number:	11411

### Section A

Test Date: 03-16-2021  
 Company: BCycle  
 EUT: BBT  
 Test: Output power – RF Conducted  
 Operator: cbrandt

Comment: Power setting 0  
 Low Channel: 2402 MHz

Peak Output Power = -2.10 dBm = 0.62 mW



Date: 16.MAR.2021 13:19:21



166 South Carter, Genoa City, WI 53128

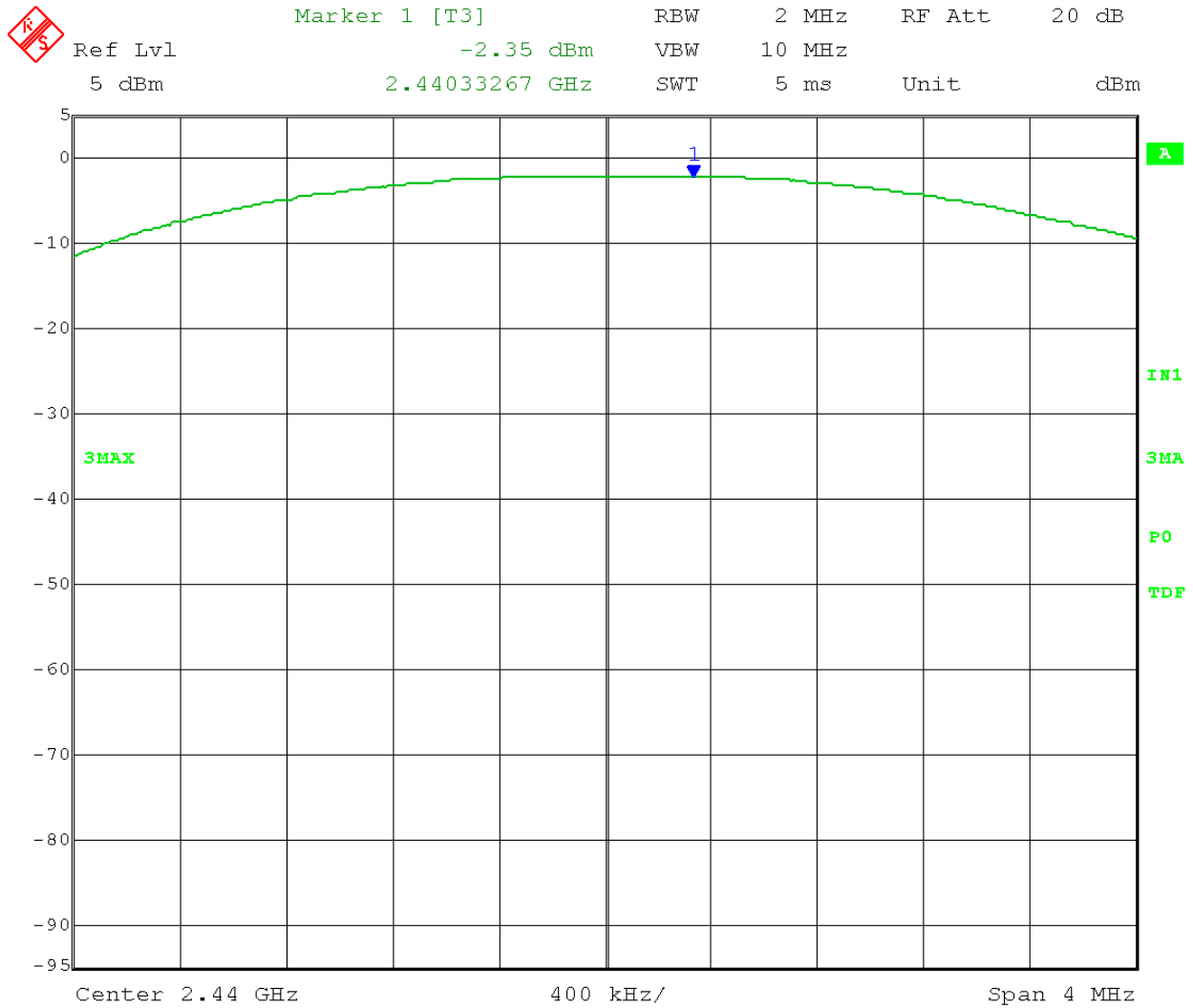
Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: Output power – RF Conducted  
Operator: cbrandt

Comment: Power setting 0  
Mid Channel: 2440 MHz

Peak Output Power = -2.35 dBm = **0.58 mW**



Date: 16.MAR.2021 13:27:08



166 South Carter, Genoa City, WI 53128

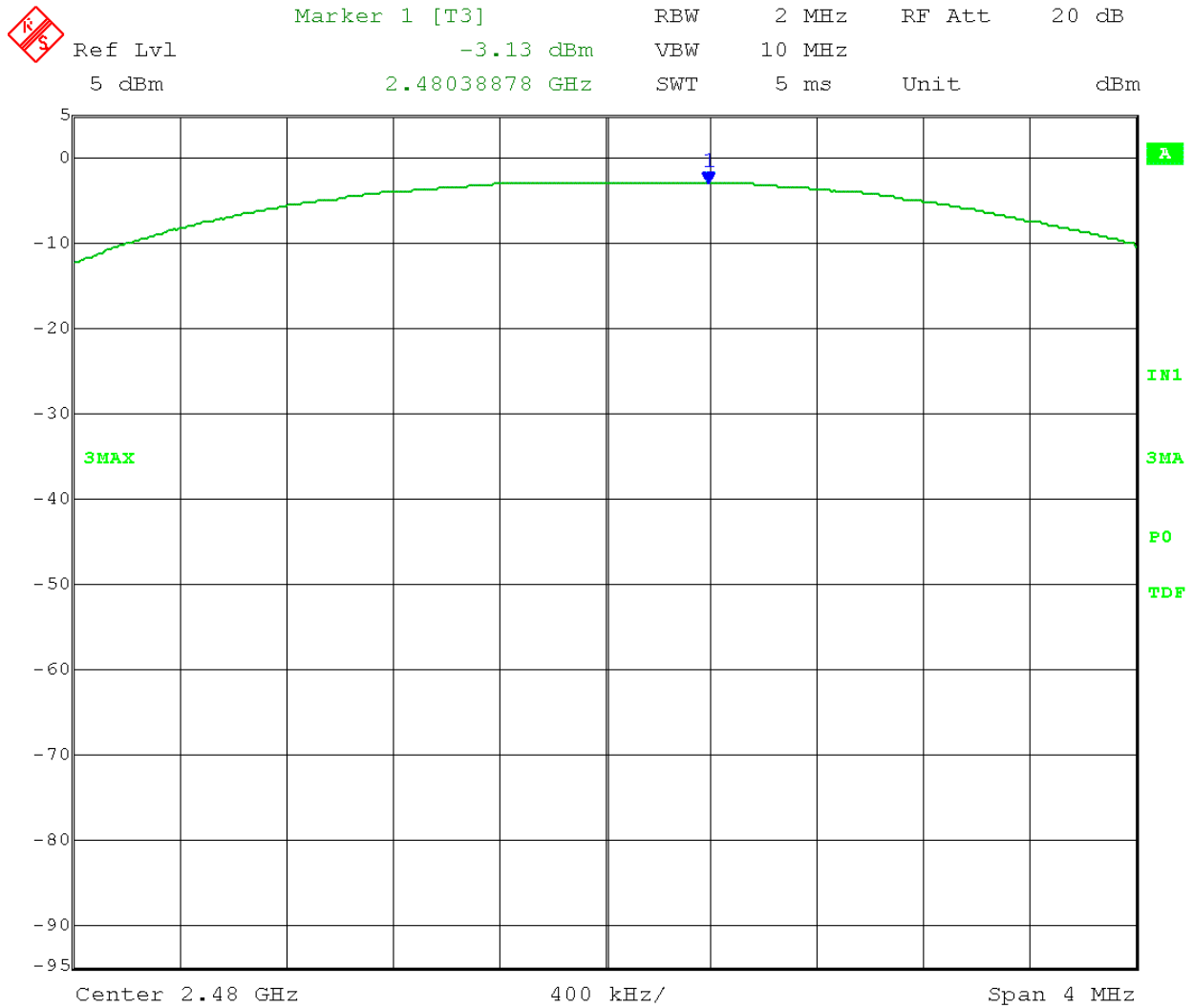
Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: Output power – RF Conducted  
Operator: cbrandt

Comment: Power setting 0  
High Channel: 2480 MHz

Peak Output Power = -3.13 dBm = **0.49 mW**



Date: 16.MAR.2021 13:30:03



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

## Section A

### A4.0 Peak Power Spectral Density

#### Rule Part:

Section 15.247(e)

#### Test Procedure:

ANSI C63.10-2013, Section 11.10.2  
Maximum Peak Power Spectral Density  
Method PKPSD (peak PSD)

#### Limit:

+8 dBm in any 3 kHz band during continuous transmission

#### Results:

Compliant  
Peak Power Spectral Density measured **-5.71 dBm/3kHz.**

#### Notes:

Per ANSI C63.10 Section 5.11, the EUT was programmed for continuous transmit, modulated, with a 100% duty cycle. Power setting 0 was used per manufacturer's instruction. This test was performed using the RF Conducted test configuration. The EUT was tested at the low, middle, and high channels of operation in accordance with FCC 15.31(m).



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

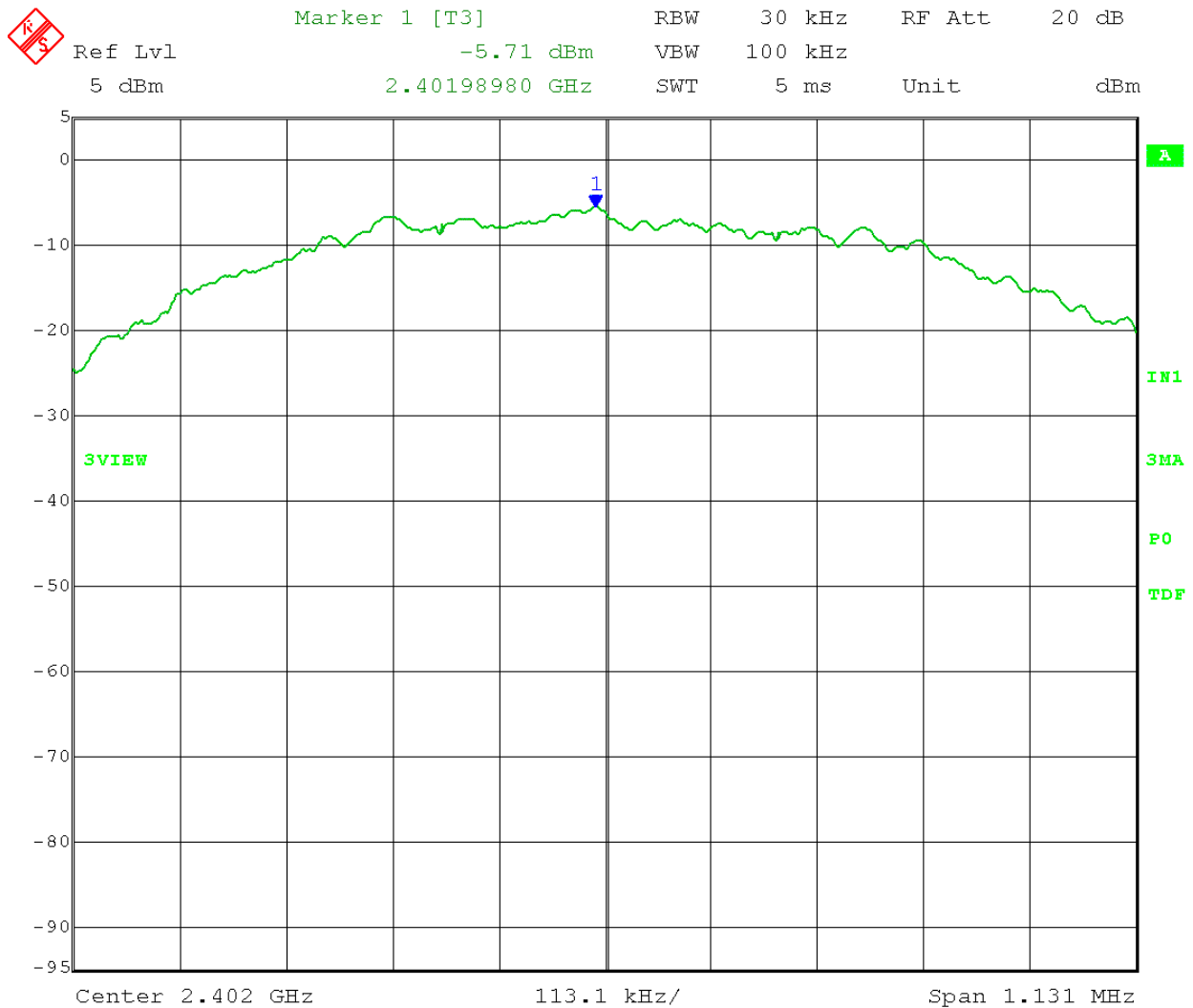
### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: Power Spectral Density – RF Conducted  
Operator: cbrandt  
Detector: Peak; max-hold

Comment: Power setting: 0  
Low Channel: 2402 MHz

Limit: +8 dBm/3kHz

Power Spectral Density (peak PSD) = -5.71 dBm/30kHz



Date: 16.MAR.2021 13:54:49



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

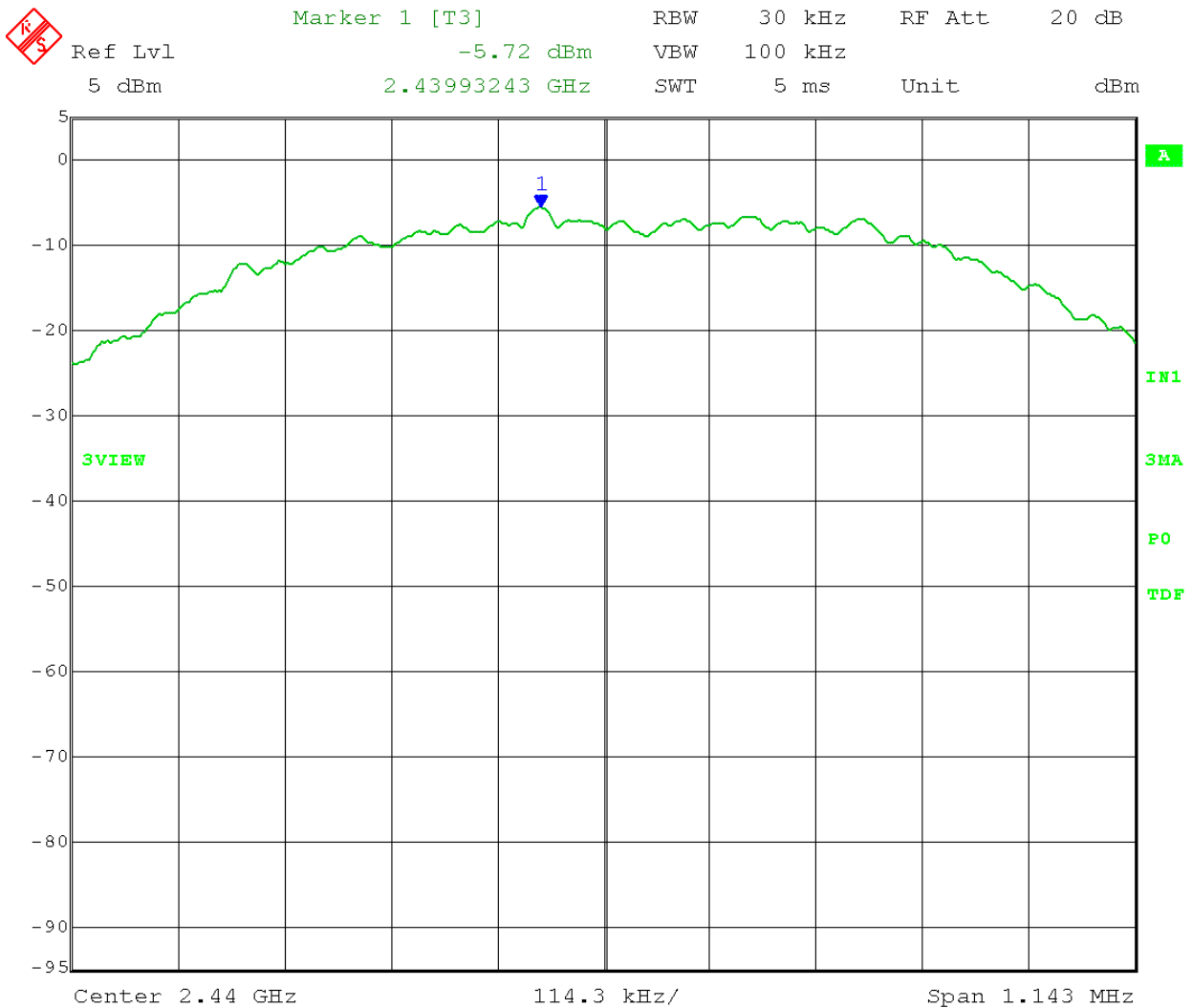
### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: Power Spectral Density – RF Conducted  
Operator: cbrandt  
Detector: Peak; max-hold

Comment: Power setting: 0  
Mid Channel: 2440 MHz

Limit: +8 dBm/3kHz

Power Spectral Density (peak PSD) = -5.72 dBm/30kHz



Date: 16.MAR.2021 13:58:37



166 South Carter, Genoa City, WI 53128

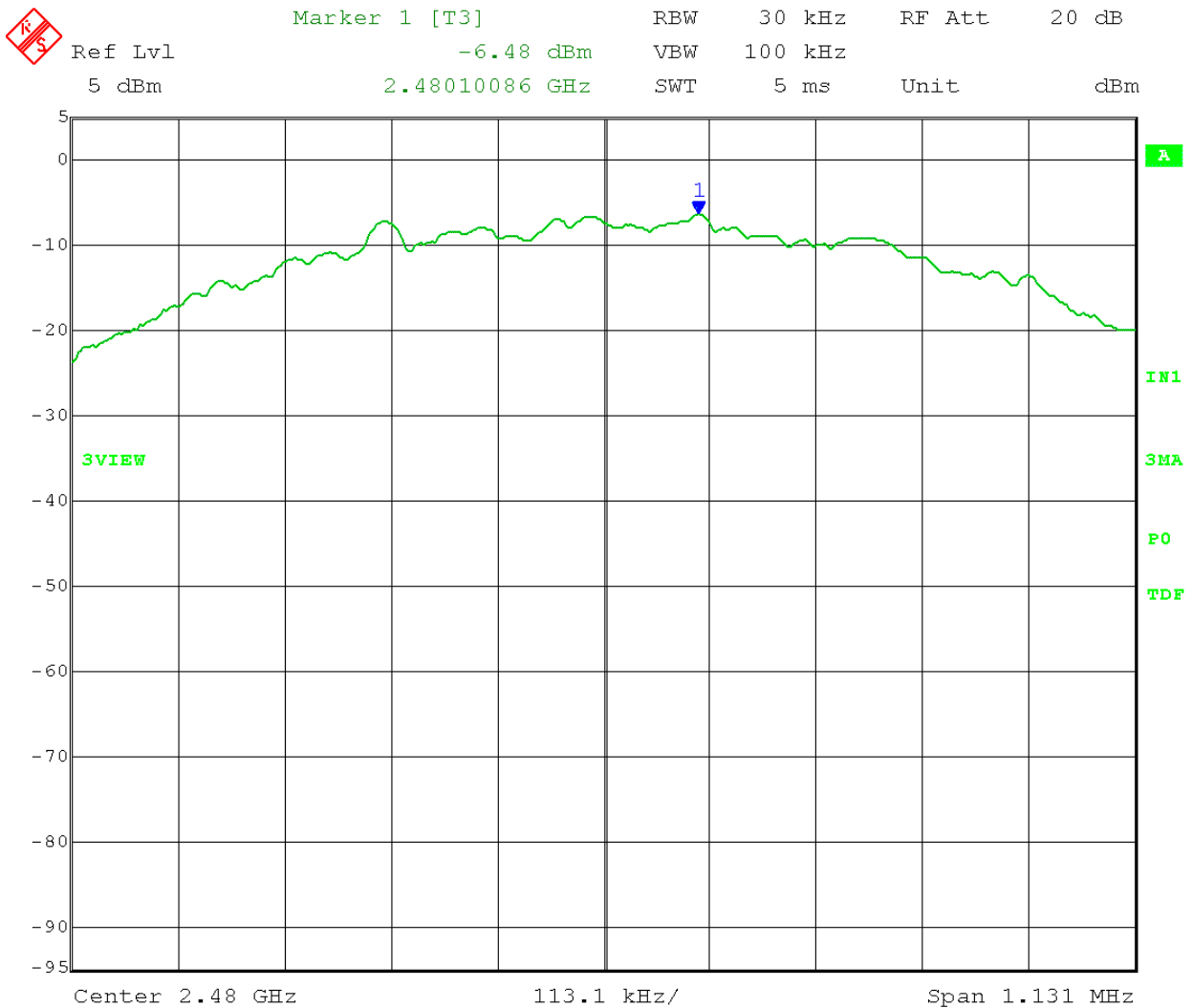
Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: Power Spectral Density – RF Conducted  
Operator: cbrandt  
Detector: Peak; max-hold

Comment: Power setting: 0  
High Channel: 2480 MHz  
Limit: +8 dBm/3kHz

Power Spectral Density (peak PSD) = **-6.48 dBm/30kHz**



Date: 16.MAR.2021 14:02:28





166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

## Section A

# A5.0 Emissions in Non-Restricted Frequency Bands – RF Conducted

### Rule Part:

Section 15.247(d)

### Test Procedure:

ANSI C63.10-2013, Sections 11.11.1(a), 11.11.2, and 11.11.3  
Maximum PEAK conducted power procedure  
Reference level measurement  
Emission level measurement

### Limit:

20 dB down from the highest emission level within the authorized band as measured with a 100 kHz resolution bandwidth (RBW)

### Results:

Compliant

### Notes:

Per ANSI C63.10 Section 5.11, the EUT was programmed for continuous transmit, modulated, with a 100% duty cycle. Power setting 0 was used per manufacturer's instruction. This test was performed using the RF Conducted test configuration. The EUT was tested at the low, middle, and high channels of operation in accordance with FCC 15.31(m).





166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

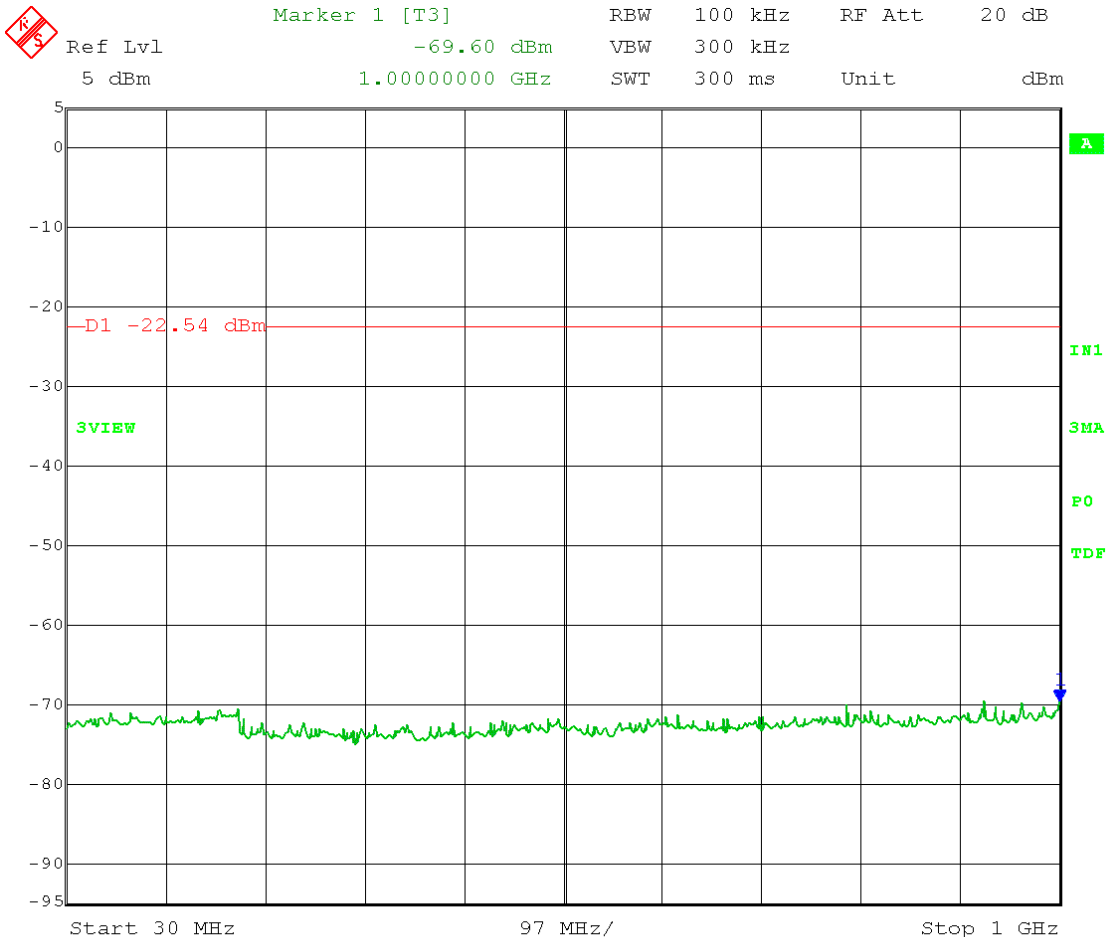
Low Channel: 2402 MHz

Power setting 0

Emission Level measurement

Limit = -2.54 dBm – 20 dB = -22.54 dBm

Frequency Range: 30 – 1000 MHz



Date: 16.MAR.2021 14:44:08



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

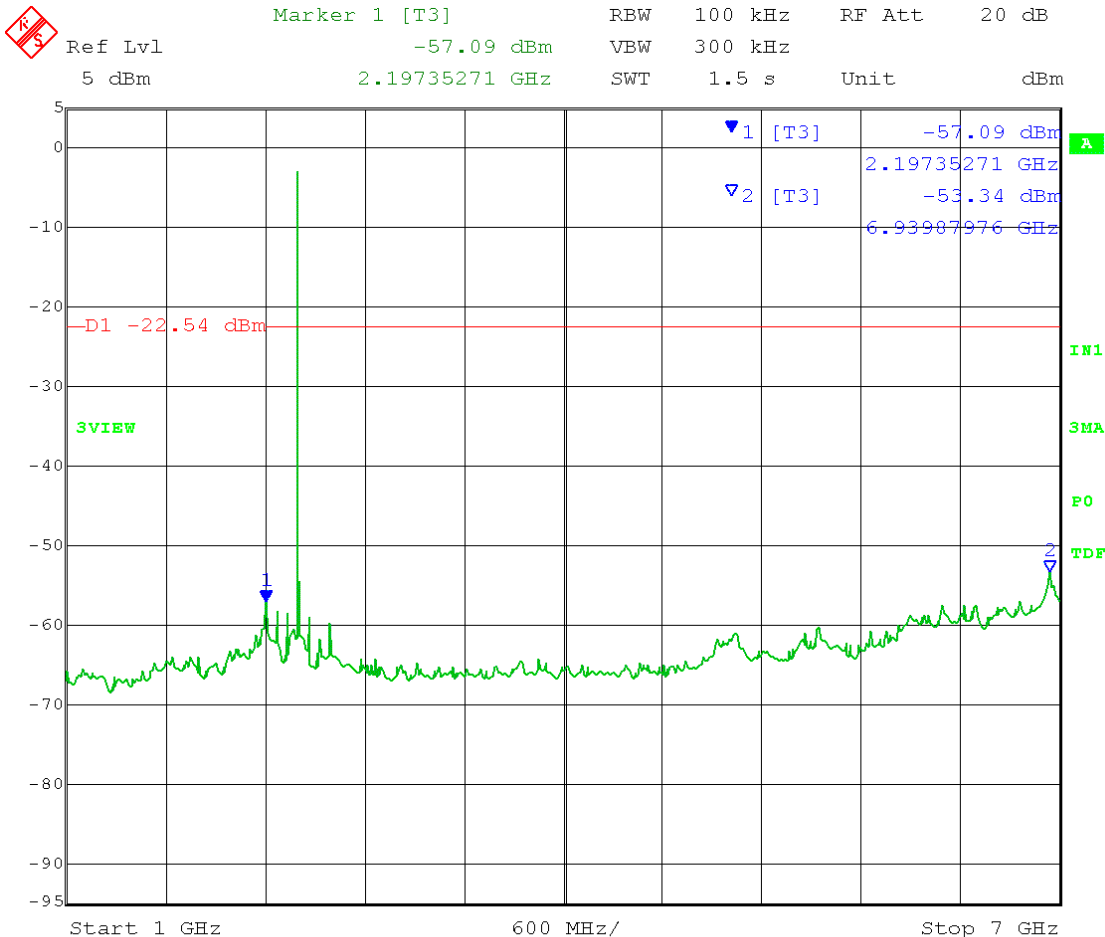
Low Channel: 2402 MHz

Power setting 0

Emission Level measurement

Limit = -2.54 dBm – 20 dB = -22.54 dBm

Frequency Range: 1 – 7 GHz



Date: 16.MAR.2021 14:36:08



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

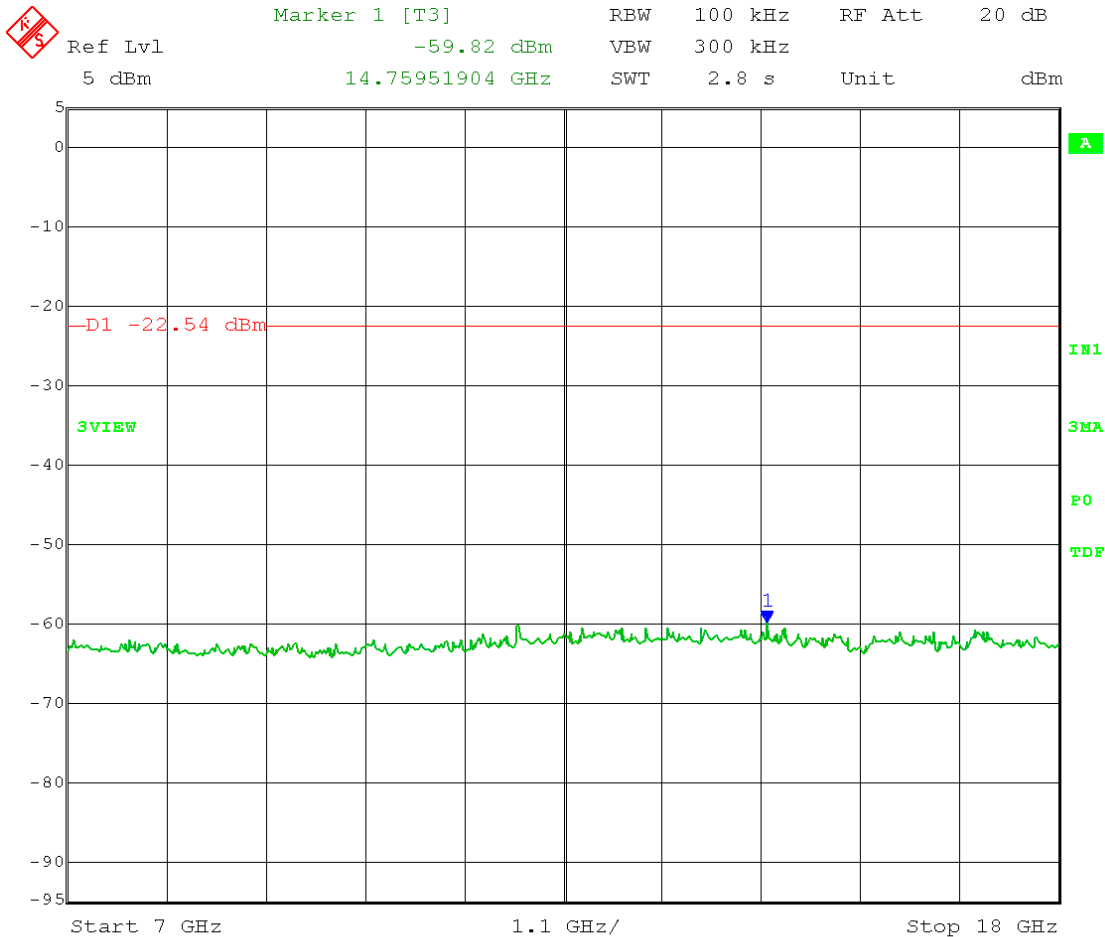
Low Channel: 2402 MHz

Power setting 0

Emission Level measurement

Limit = -2.54 dBm – 20 dB = -22.54 dBm

Frequency Range: 7 – 18 GHz



Date: 16.MAR.2021 14:39:26



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

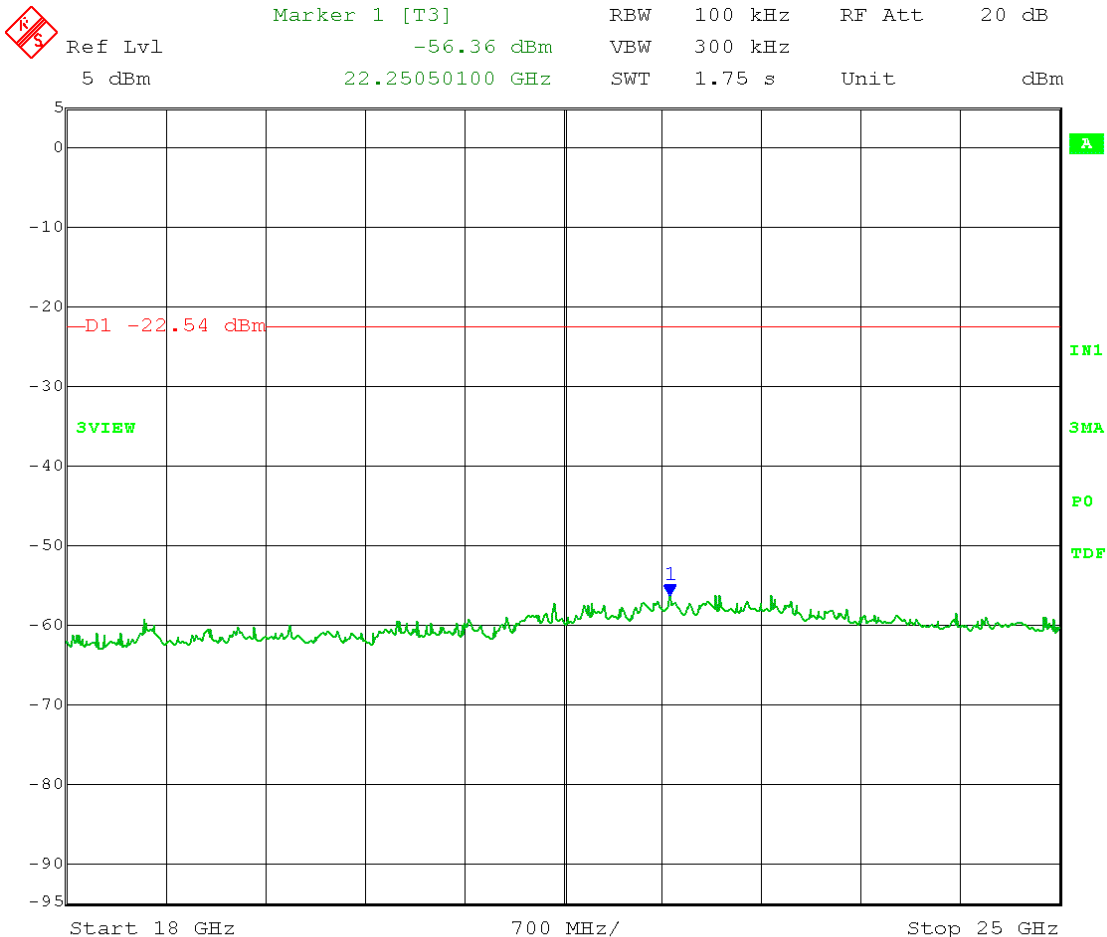
Low Channel: 2402 MHz

Power setting 0

Emission Level measurement

Limit = -2.54 dBm – 20 dB = -22.54 dBm

Frequency Range: 18 – 25 GHz



Date: 16.MAR.2021 14:41:37



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

## A5.2 Emissions in Non-Restricted Frequency Bands – Middle Channel

Test Date: 03-17-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

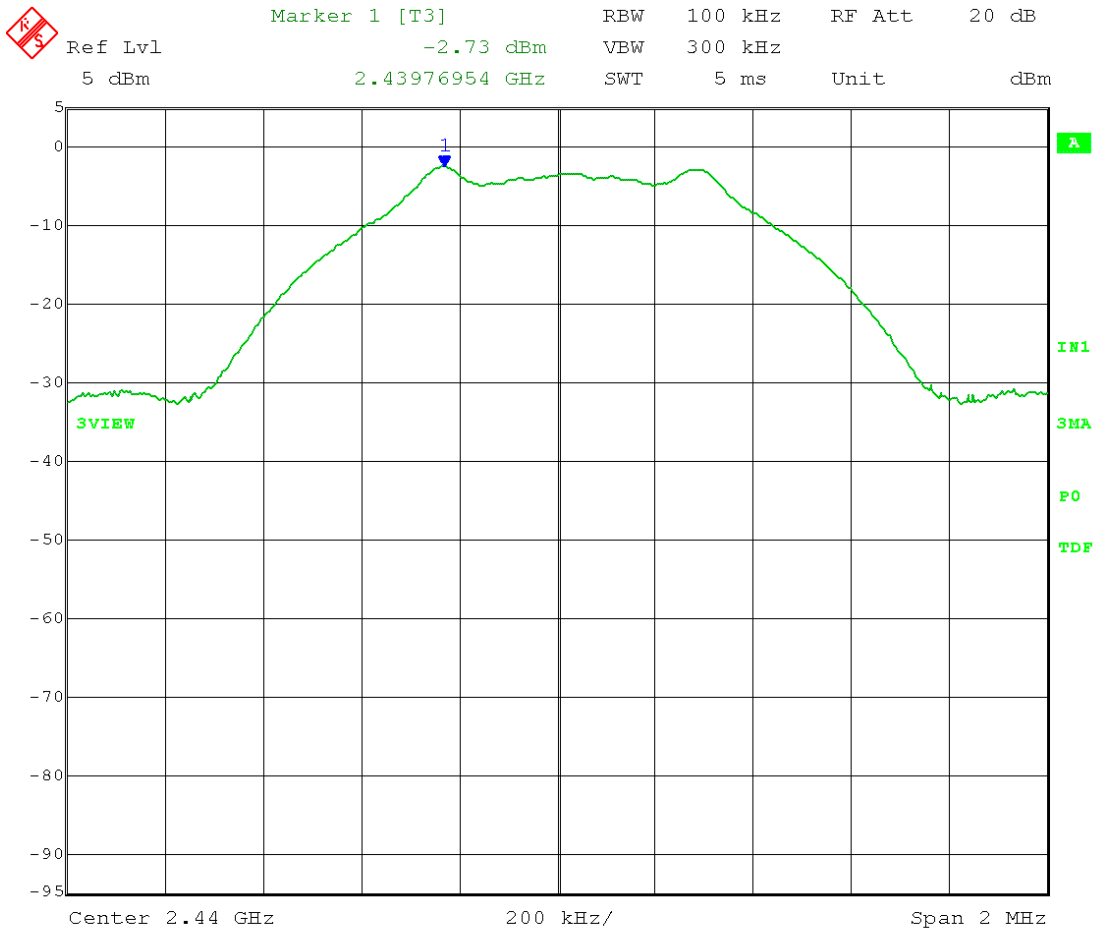
Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

**Mid Channel: 2440 MHz**

Power setting 0

**Reference Level measurement**

Limit = -2.73 dBm – 20 dB = -22.73 dBm



Date: 17.MAR.2021 08:44:37



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-17-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

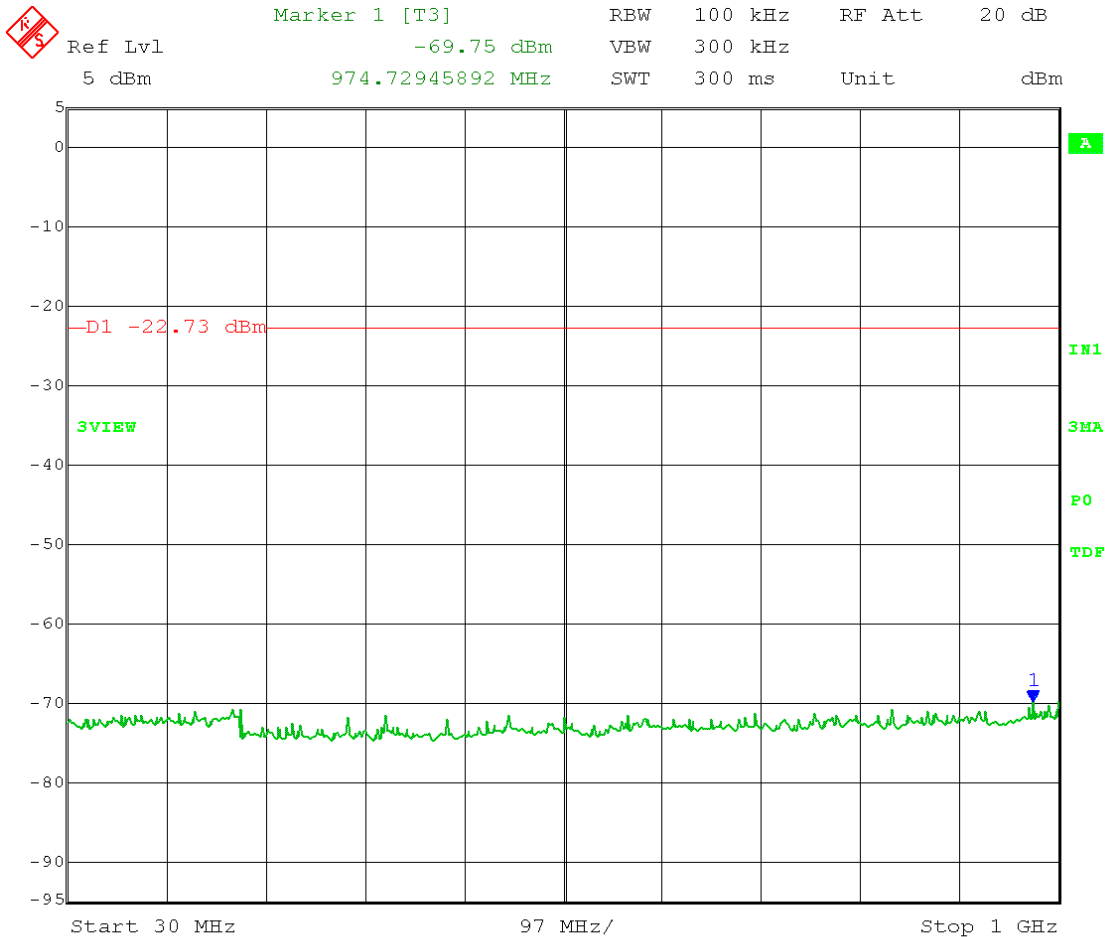
Mid Channel: 2440 MHz

Power setting 0

Emission Level measurement

Limit = -2.73 dBm – 20 dB = -22.73 dBm

Frequency Range: 30 – 1000 MHz



Date: 17.MAR.2021 08:55:08





166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-17-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

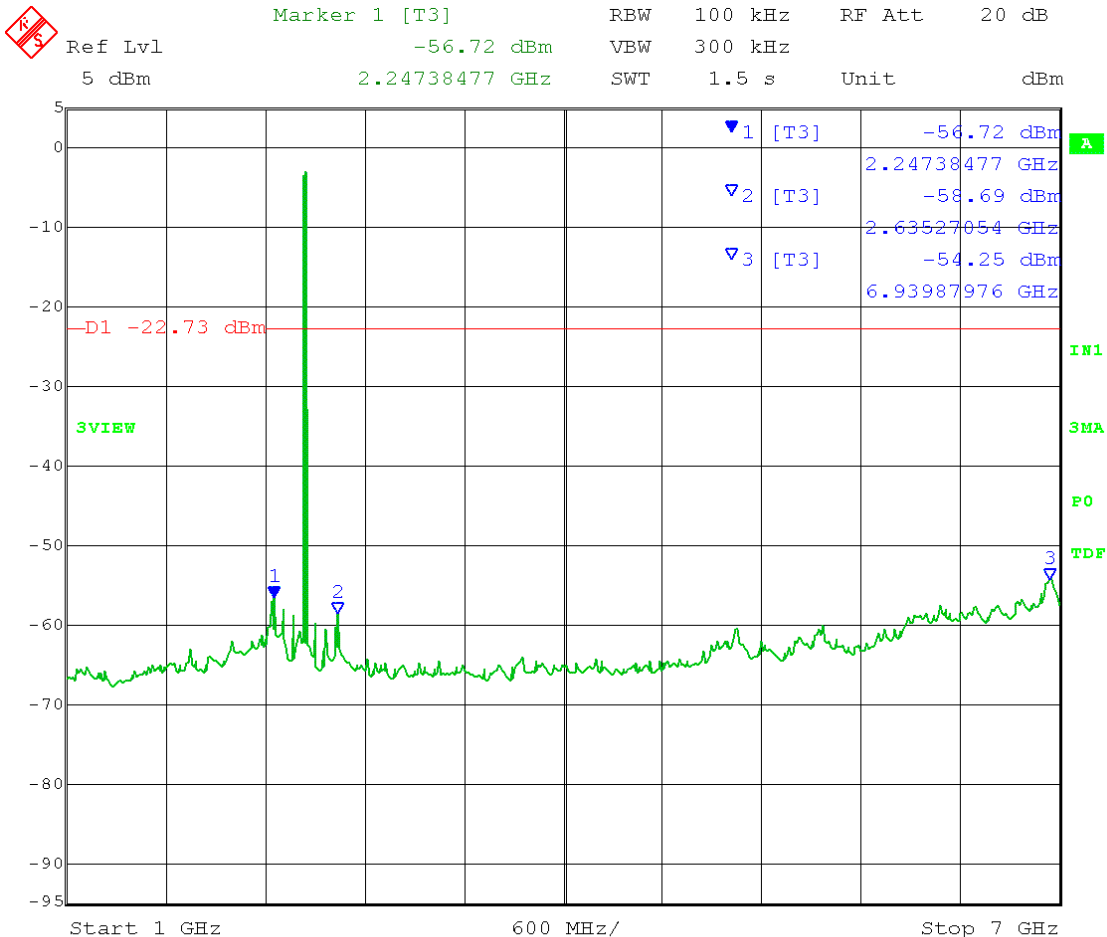
Mid Channel: 2440 MHz

Power setting 0

Emission Level measurement

Limit = -2.73 dBm – 20 dB = -22.73 dBm

Frequency Range: 1 – 7 GHz



Date: 17.MAR.2021 08:48:19



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-17-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

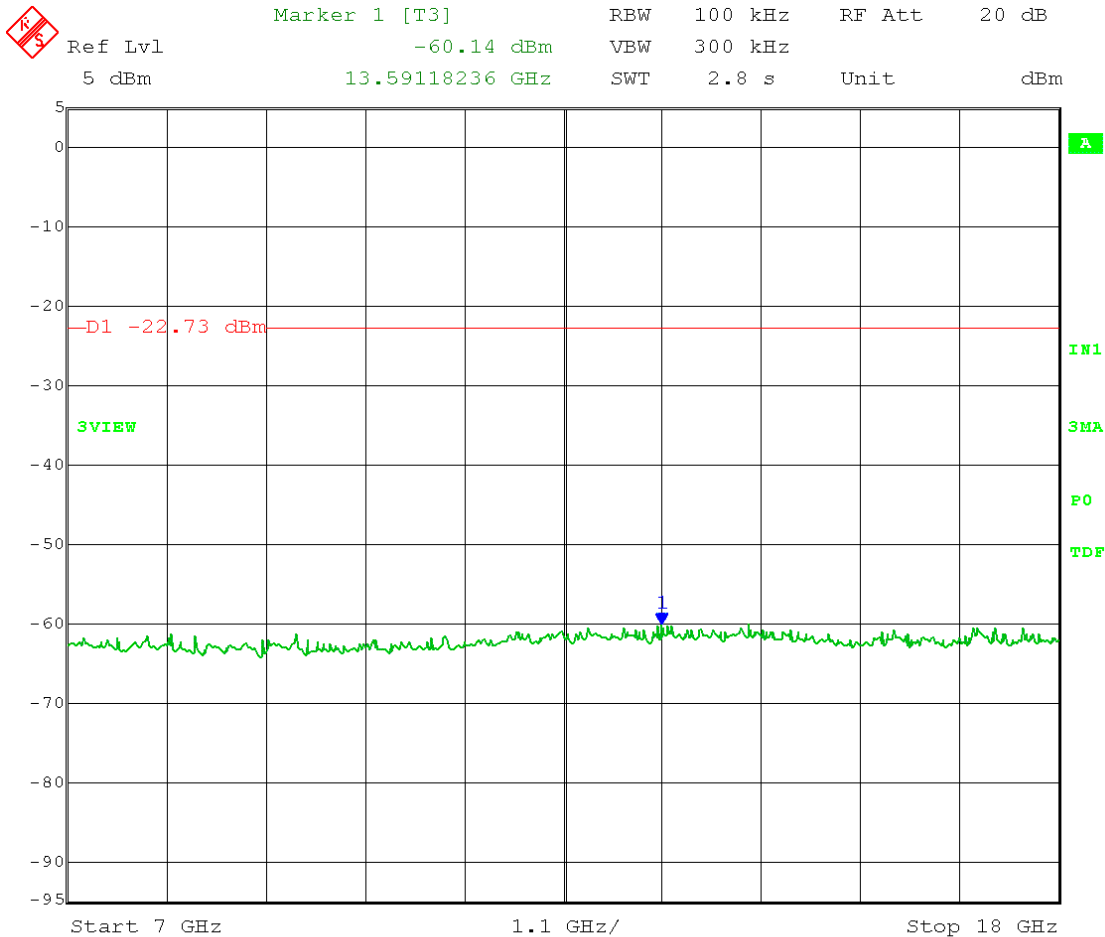
**Mid Channel: 2440 MHz**

Power setting 0

**Emission Level** measurement

Limit = -2.73 dBm – 20 dB = -22.73 dBm

Frequency Range: 7 – 18 GHz



Date: 17.MAR.2021 08:51:29



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

**Section A**

Test Date: 03-17-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple Trace = max hold  
Detector = Peak

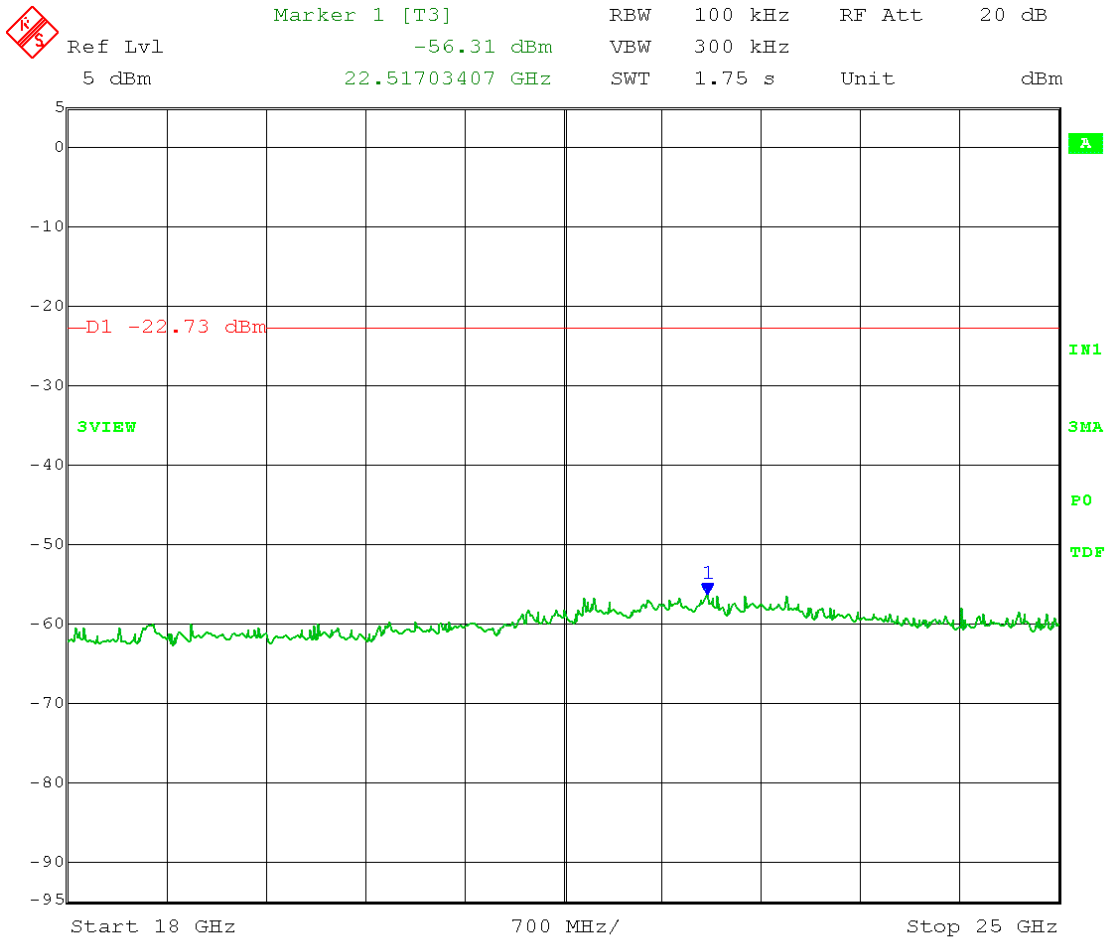
Mid Channel: 2440 MHz

Power setting 0

Emission Level measurement

Limit = -2.73 dBm – 20 dB = -22.73 dBm

Frequency Range: 18 – 25 GHz



Date: 17.MAR.2021 08:53:21



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

## A5.3 Emissions in Non-Restricted Frequency Bands – High Channel

Test Date: 03-17-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

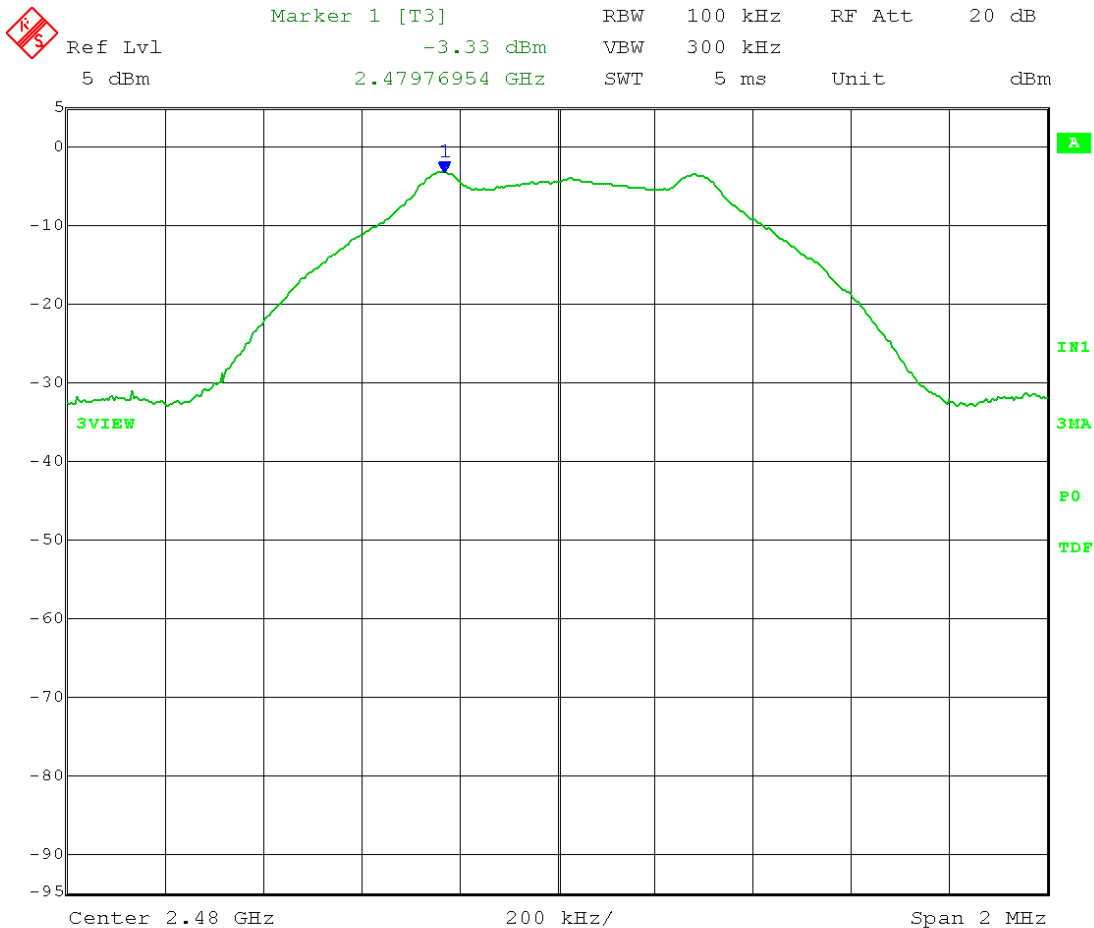
Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

High Channel: 2480 MHz

Power setting 0

Reference Level measurement

Limit = -3.33 dBm – 20 dB = -23.33 dBm



Date: 17.MAR.2021 08:59:21



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-17-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

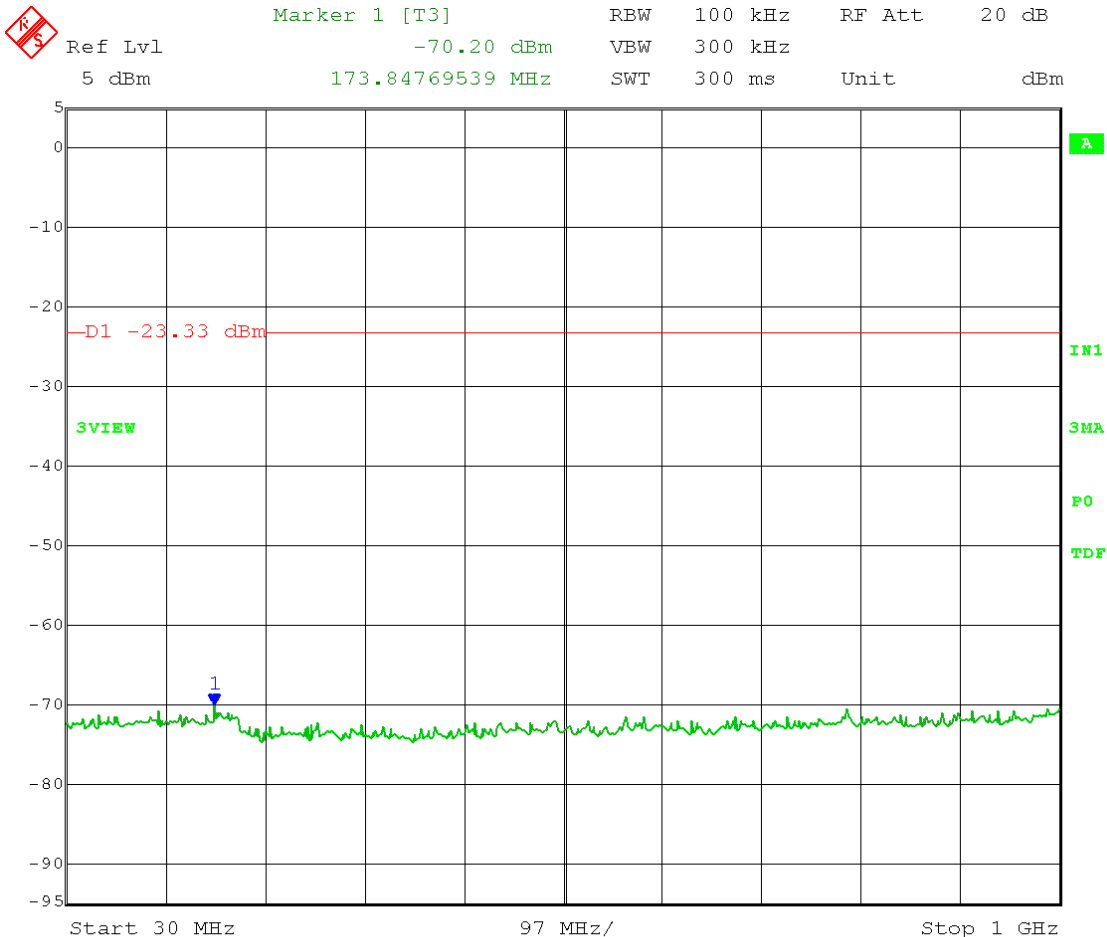
High Channel: 2480 MHz

Power setting 0

Emission Level measurement

Limit = -3.33 dBm – 20 dB = -23.33 dBm

Frequency Range: 30 – 1000 MHz



Date: 17.MAR.2021 09:14:34



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

**Section A**

Test Date: 03-17-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple Trace = max hold  
Detector = Peak

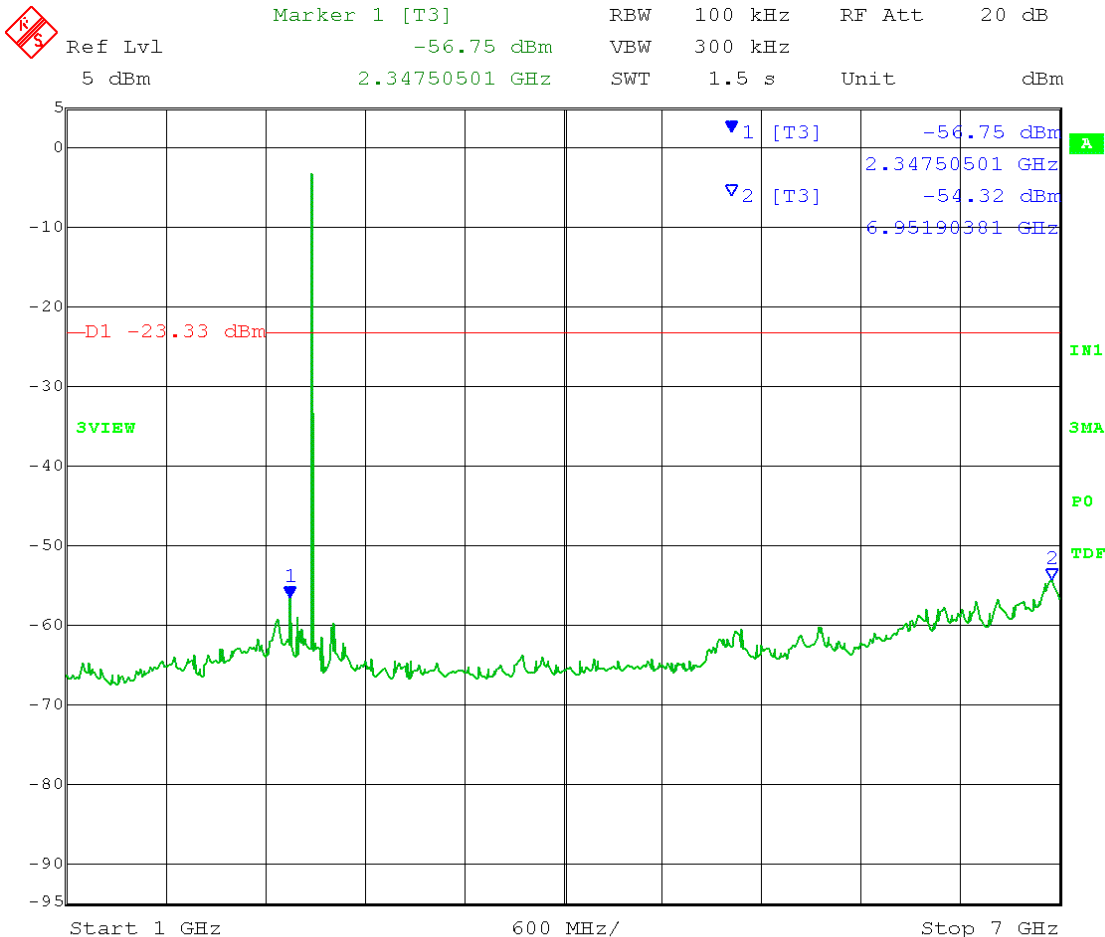
High Channel: 2480 MHz

Power setting 0

Emission Level measurement

Limit = -3.33 dBm – 20 dB = -23.33 dBm

Frequency Range: 1 – 7 GHz



Date: 17.MAR.2021 09:04:03



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-17-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

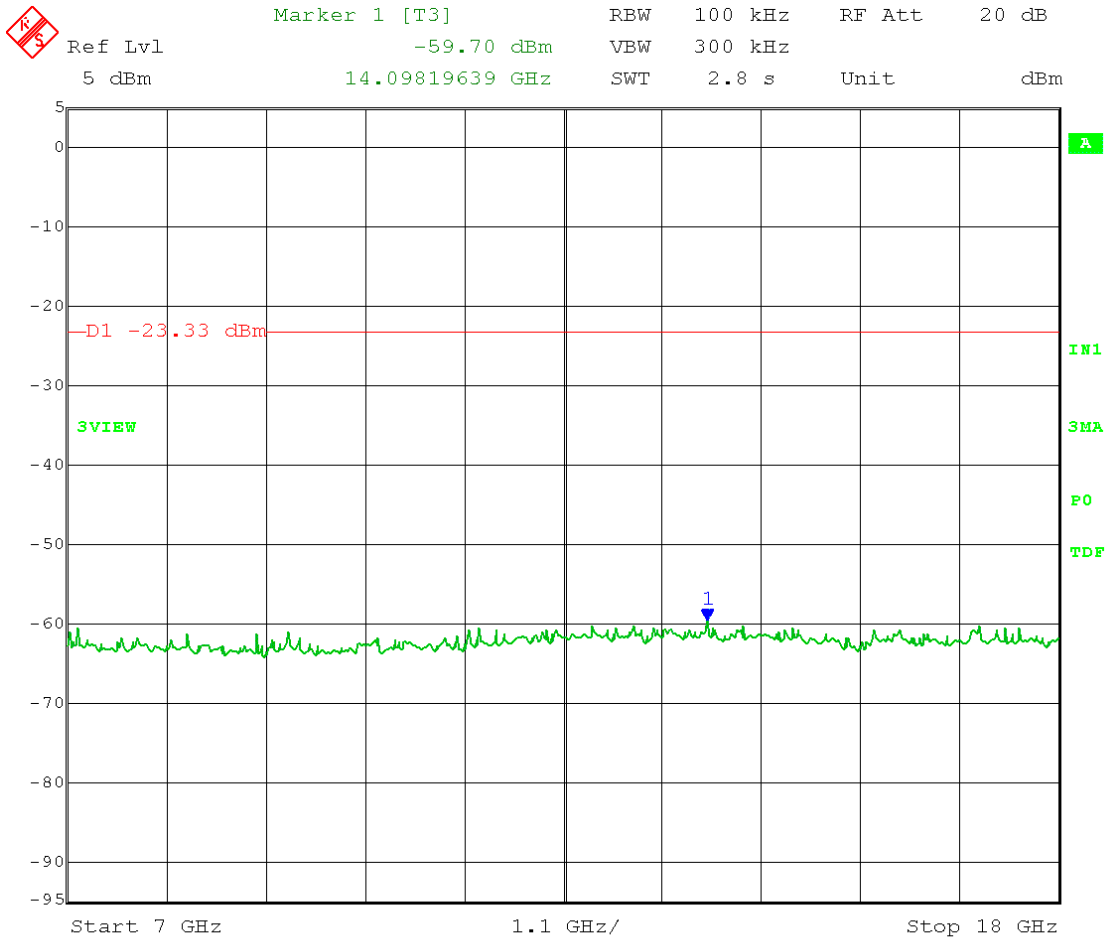
High Channel: 2480 MHz

Power setting 0

Emission Level measurement

Limit = -3.33 dBm – 20 dB = -23.33 dBm

Frequency Range: 7 – 18 GHz



Date: 17.MAR.2021 09:09:57



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-17-2021  
Company: BCycle  
EUT: BBT  
Test: Spurious Emissions in Non-Restricted Frequency Bands – RF Conducted  
Operator: cbrandt

Comment: RBW = 100 kHz                      VBW ≥ 300 kHz  
Span ≥ 1.5 x DTS bandwidth  
Sweep = auto couple                      Trace = max hold  
Detector = Peak

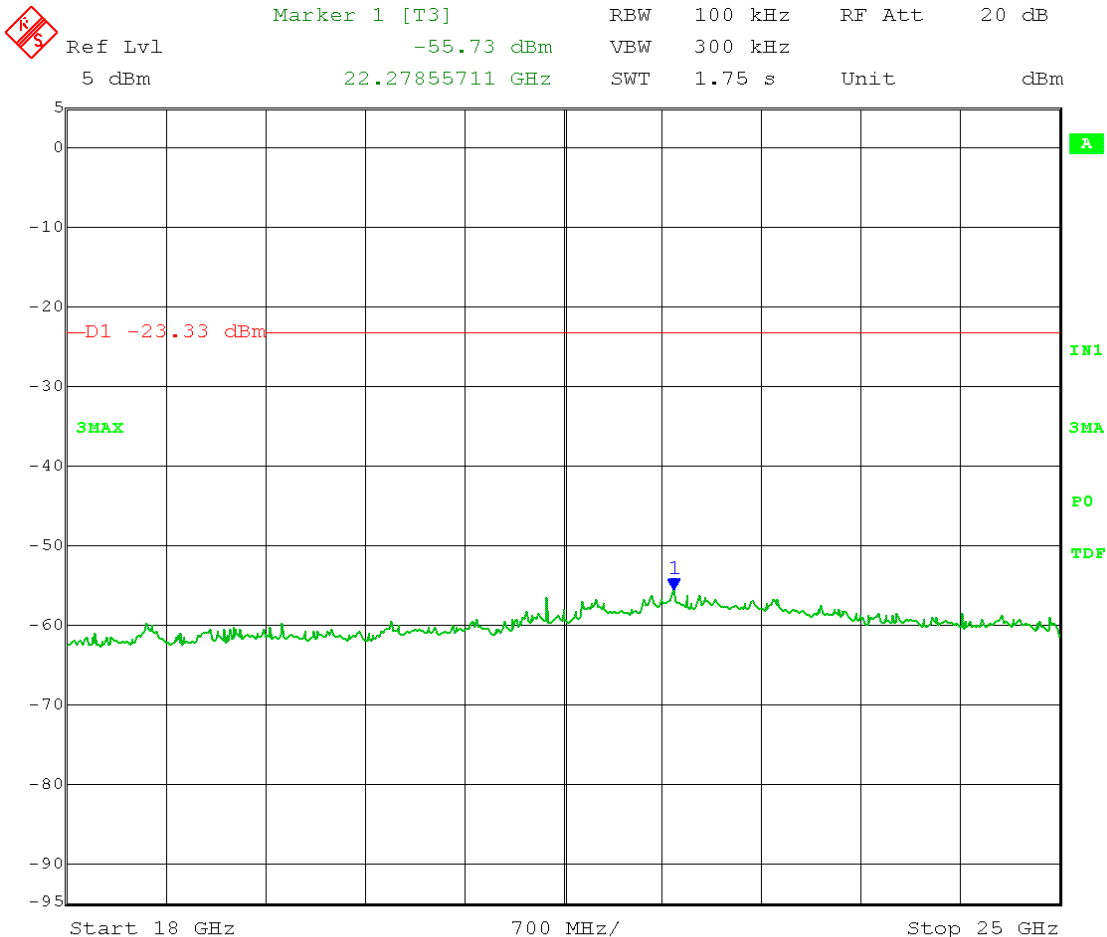
High Channel: 2480 MHz

Power setting 0

Emission Level measurement

Limit = -3.33 dBm – 20 dB = -23.33 dBm

Frequency Range: 18 – 25 GHz



Date: 17.MAR.2021 09:12:18





166 South Carter, Genoa City, WI 53128

Company:	BCycle, LLC
Model Tested:	BBT v2
Report Number:	26095 rev1.1
Project Number:	11411

## Section A

# A6.0 Emissions in Restricted Frequency Bands

### Rule Part:

Sections 15.247(d), 15.205(b), and 15.209(a)

### Test Procedure:

ANSI C63.10-2013, Section 11.12.1  
Radiated emission measurements

### Limit:

Table in FCC 15.209

### Results:

Compliant

### Notes:

This was a Radiated Emission test. The EUT was tested while transmitting from the on-board trace antenna. The device was set up on a non-conductive table for testing purposes. All three module configurations (see section 4.0 Description of Test Sample) were tested. Each configuration was tested as stand-alone (outside the various enclosures) and powered as stated in section 7.0 (Test Conditions, Supply Voltage). The worst-case configuration and data are recorded.

Per ANSI C63.10 Section 5.11, the EUT's were programmed for continuous transmit, modulated, with a 100% duty cycle. Power setting 0 was used per manufacturer's instruction. The EUT's were programmed for continuous transmission (100% duty cycle) on the lowest, middle, and highest channels of operation in accordance with FCC 15.31(m) and were rotated through three orthogonal axes to find worst-case emission levels.



166 South Carter, Genoa City, WI 53128

Section A

Company:	BCycle, LLC
Model Tested:	BBT v2
Report Number:	26095 rev1.1
Project Number:	11411

# **Radiated Emissions in Restricted Frequency Bands**

**BCycle**

**Project: BBT, model BBT v2**

**No Radiated Emissions  
were found from the BBT,  
model BBT v2**

**from 30 to 1000 MHz**

**with the device in modulated continuous  
transmit mode, (100% duty cycle). Power  
setting 0.**

**(pre-scan search for emissions in 3-meter chamber, Site G1)**

**04-15-2021**

**Electric Field Strength**

EUT: BBT Module, Model: 5267706 (3.0 Dock Module config)  
 Manufacturer: Trek Bicycle  
 Operating Condition: 73 deg F; 47% R.H.  
 Test Site: DLS O.F. G1  
 Operator: cbrandt  
 Test Specification: Radiated Emissions in Restricted Bands  
 Comment: Continuous Transmit; 2402, 2440, and 2480 MHz  
 Date: 09-28-21

**TEXT: "Vert 3 meters"**

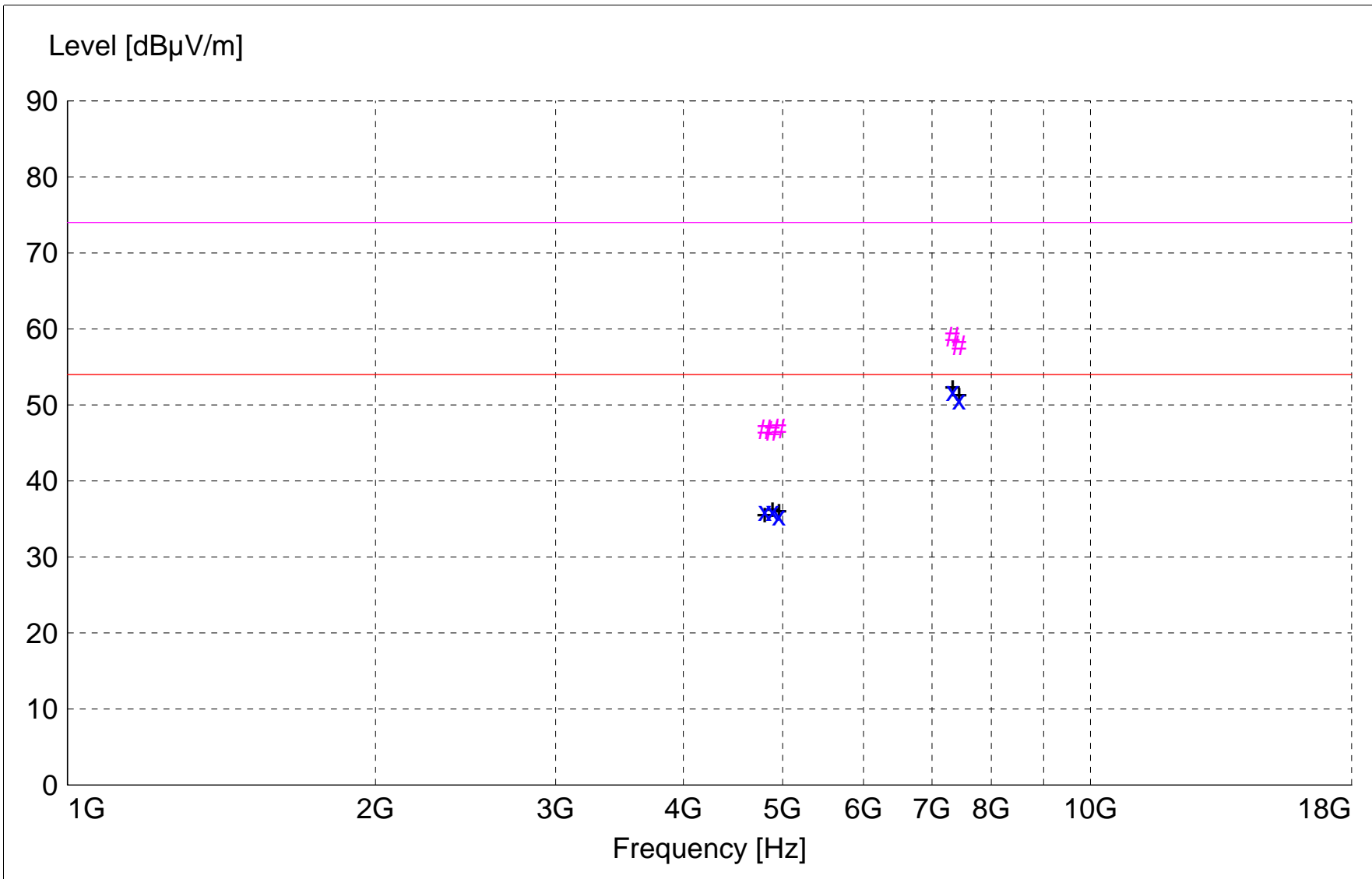
Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with VERTICAL Antenna Polarization

Sample Equations: 
$$\begin{aligned} \text{Total Level(dB}\mu\text{V/m)} &= \text{Level(dB}\mu\text{V)} + \text{System Loss(dB)} + \text{Antenna Factor(dB}\mu\text{V/m)} \\ 24.6 &= 35.51 + (-22.1) + 11.20 \end{aligned}$$

$$\begin{aligned} \text{Margin(dB)} &= \text{Limit(dB}\mu\text{V/m)} - \text{Total Level(dB}\mu\text{V/m)} \\ 15.4 &= 40 - 24.6 \end{aligned}$$

- Graph Markers: + Frequency marker (Level of marker not related to final level)  
 | Final maximized level using Quasi-Peak detector  
 X Final maximized level using Average dector  
 # Final maximized level using Peak detector  
 - Background Scan Peak Detector (Optional)  
 - Background Scan Average Detector (Optional)



```

x x :MES A411o_sv_Average
# # :MES A411o_sv_Peak
+ + :MES A411o_sv_Peak_List
— LIM FCC 15.209 F 3m AVG Field Strength AVG Limit 3m
— LIM FCC 15.209 F 3m PK Field Strength PEAK Limit 3m

```

**MEASUREMENT RESULT: "A411o\_sv\_Final"**

9/28/2021 9:27AM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBµV	Factor	Loss	Level	dBµV/m	dB	Ant.	Angle	Detector	
		dBµV/m	dB	dBµV/m			m	deg		
7332.670000	67.64	36.41	-52.2	51.8	54.0	2.2	1.51	179	AVERAGE	Mid ch
7440.640000	66.51	36.48	-52.3	50.7	54.0	3.3	1.25	177	AVERAGE	High ch
7332.670000	74.81	36.41	-52.2	59.0	74.0	15.0	1.51	179	MAX PEAK	Mid ch
7440.640000	73.66	36.48	-52.3	57.9	74.0	16.1	1.25	177	MAX PEAK	High ch
4888.230000	56.44	33.19	-53.6	36.1	54.0	17.9	1.55	235	AVERAGE	Mid ch
4804.340000	56.83	32.98	-53.8	36.0	54.0	18.0	1.40	135	AVERAGE	Low ch
4960.420000	55.66	33.22	-53.4	35.5	54.0	18.5	1.19	225	AVERAGE	High ch
4960.420000	67.08	33.22	-53.4	46.9	74.0	27.1	1.19	225	MAX PEAK	High ch
4804.340000	67.56	32.98	-53.8	46.8	74.0	27.2	1.40	135	MAX PEAK	Low ch
4888.230000	66.95	33.19	-53.6	46.6	74.0	27.4	1.55	235	MAX PEAK	Mid ch

**Electric Field Strength**

EUT: BBT Module, Model: 5267706 (3.0 Dock Module config)  
 Manufacturer: Trek Bicycle  
 Operating Condition: 73 deg F; 47% R.H.  
 Test Site: DLS O.F. G1  
 Operator: cbrandt  
 Test Specification: Radiated Emissions in Restricted Bands  
 Comment: Continuous Transmit; 2402, 2440, and 2480 MHz  
 Date: 09-28-21

**TEXT: "Horz 3 meters"**

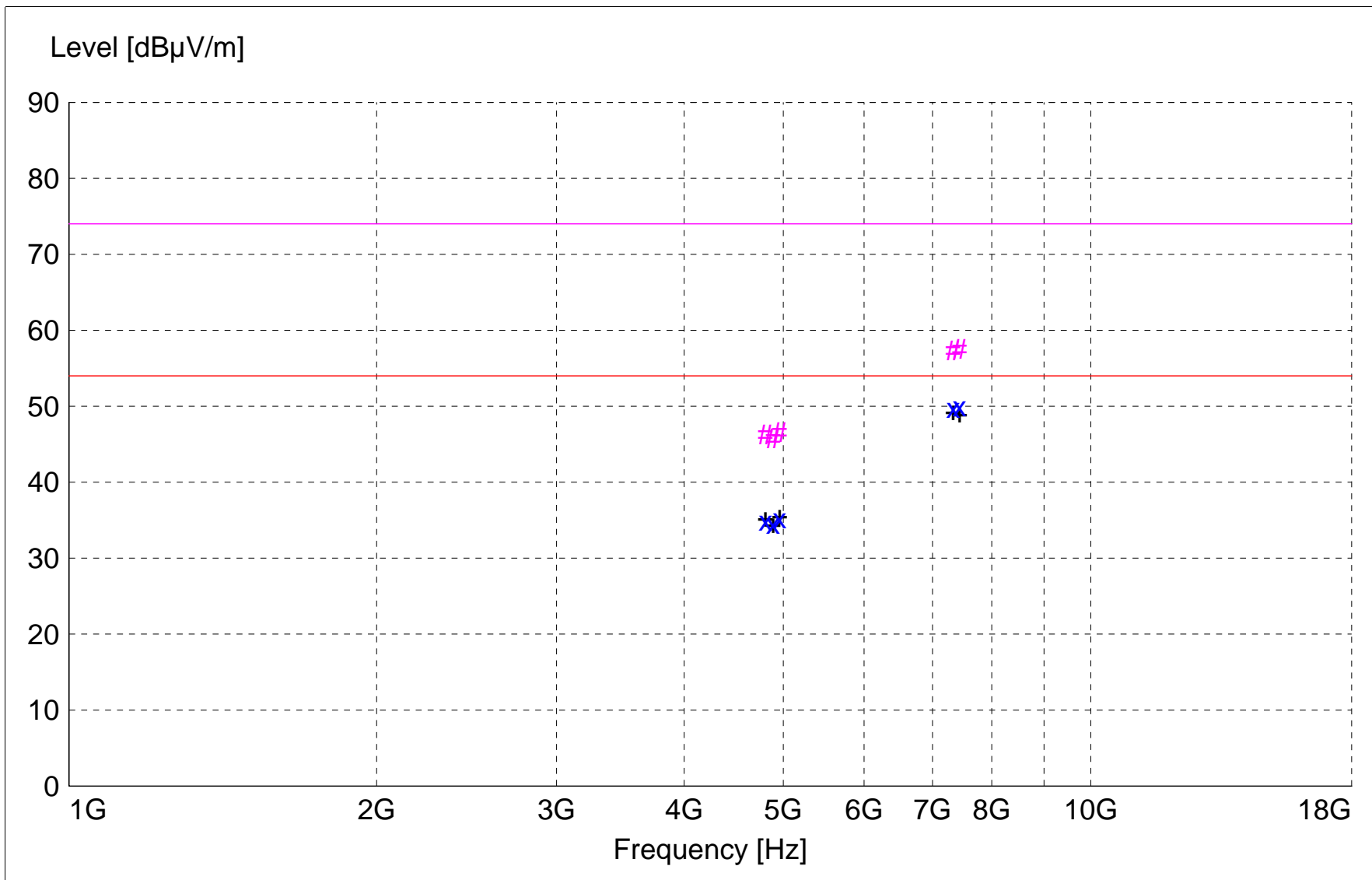
Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with HORIZONTAL Antenna Polarization

Sample Equations: Total Level(dBµV/m) = Level(dBµV) + System Loss(dB) + Antenna Factor(dBµV/m)  
 24.6 = 35.51 + (-22.1) + 11.20

Margin(dB) = Limit(dBµV/m) - Total Level(dBµV/m)  
 15.4 = 40 - 24.6

- Graph Markers: + Frequency marker (Level of marker not related to final level)  
 | Final maximized level using Quasi-Peak detector  
 X Final maximized level using Average dector  
 # Final maximized level using Peak detector  
 - Background Scan Peak Detector (Optional)  
 - Background Scan Average Detector (Optional)



```

x x :MES  A411o_sh_Average
# # :MES  A411o_sh_Peak
+ + :MES  A411o_sh_Peak_List
— — :LIM  FCC 15.209 F 3m AVG   Field Strength AVG Limit 3m
— — :LIM  FCC 15.209 F 3m PK   Field Strength PEAK Limit 3m

```

**MEASUREMENT RESULT: "A411o\_sh\_Final"**

9/28/2021 9:42AM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBµV	Factor	Loss	Level	dBµV/m	dB	Ant.	Angle	Detector	
		dBµV/m	dB	dBµV/m			m	deg		
7440.700000	65.73	36.48	-52.3	49.9	54.0	4.1	1.73	180	AVERAGE	High ch
7332.680000	65.62	36.41	-52.2	49.8	54.0	4.2	1.68	182	AVERAGE	Mid ch
7440.700000	73.30	36.48	-52.3	57.5	74.0	16.5	1.73	180	MAX PEAK	High ch
7332.680000	73.18	36.41	-52.2	57.4	74.0	16.6	1.68	182	MAX PEAK	Mid ch
4960.350000	55.43	33.22	-53.4	35.2	54.0	18.8	1.72	180	AVERAGE	High ch
4804.290000	55.71	32.98	-53.8	34.9	54.0	19.1	1.33	40	AVERAGE	Low ch
4888.310000	54.86	33.19	-53.6	34.5	54.0	19.5	1.68	140	AVERAGE	Mid ch
4960.350000	66.83	33.22	-53.4	46.6	74.0	27.4	1.72	180	MAX PEAK	High ch
4804.290000	67.08	32.98	-53.8	46.3	74.0	27.7	1.33	40	MAX PEAK	Low ch
4888.310000	66.20	33.19	-53.6	45.8	74.0	28.2	1.68	140	MAX PEAK	Mid ch





166 South Carter, Genoa City, WI 53128

Section A

Company:	BCycle, LLC
Model Tested:	BBT v2
Report Number:	26095 rev1.1
Project Number:	11411

# **Radiated Emissions in Restricted Frequency Bands**

**BCycle**

**Project: BBT, model BBT v2**

**No Radiated Emissions  
were found from the BBT,  
model BBT v2**

**from 18 to 25 GHz**

**with the device in modulated continuous  
transmit mode, (100% duty cycle). Power  
setting 0.**

**(at a 1-meter test distance)**

**04-15-2021**



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

## Section A

### A7.0 Authorized Band Edge – RF Conducted

#### Rule Part:

Section 15.247(d)

#### Test Procedure:

ANSI C63.10-2013, Sections 6.10.4 and 11.11.1(a)  
Authorized-band band-edge measurements (relative method).  
Maximum PEAK conducted power procedure.

#### Limit:

20 dB down from the highest emission level within the authorized band as measured with a 100 kHz resolution bandwidth (RBW).

#### Results:

Compliant

#### Sample Equation(s):

None

#### Notes:

Per ANSI C63.10 Section 5.11, the EUT was programmed for continuous transmit, modulated, with a 100% duty cycle. Power setting 0 was used per manufacturer's instruction. This test was performed using the RF Conducted test configuration. The EUT was tested at the low and high channels of operation. The maximum level of the fundamental emission was measured with a span wide enough to capture the peak level of the emission as well as any modulation products that fell outside of the operating band. The marker-delta function of the spectrum analyzer was used to show that the level at the band-edge (including all modulation product outside of the authorized band) are greater than 20 dB below the peak level of the fundamental emission.



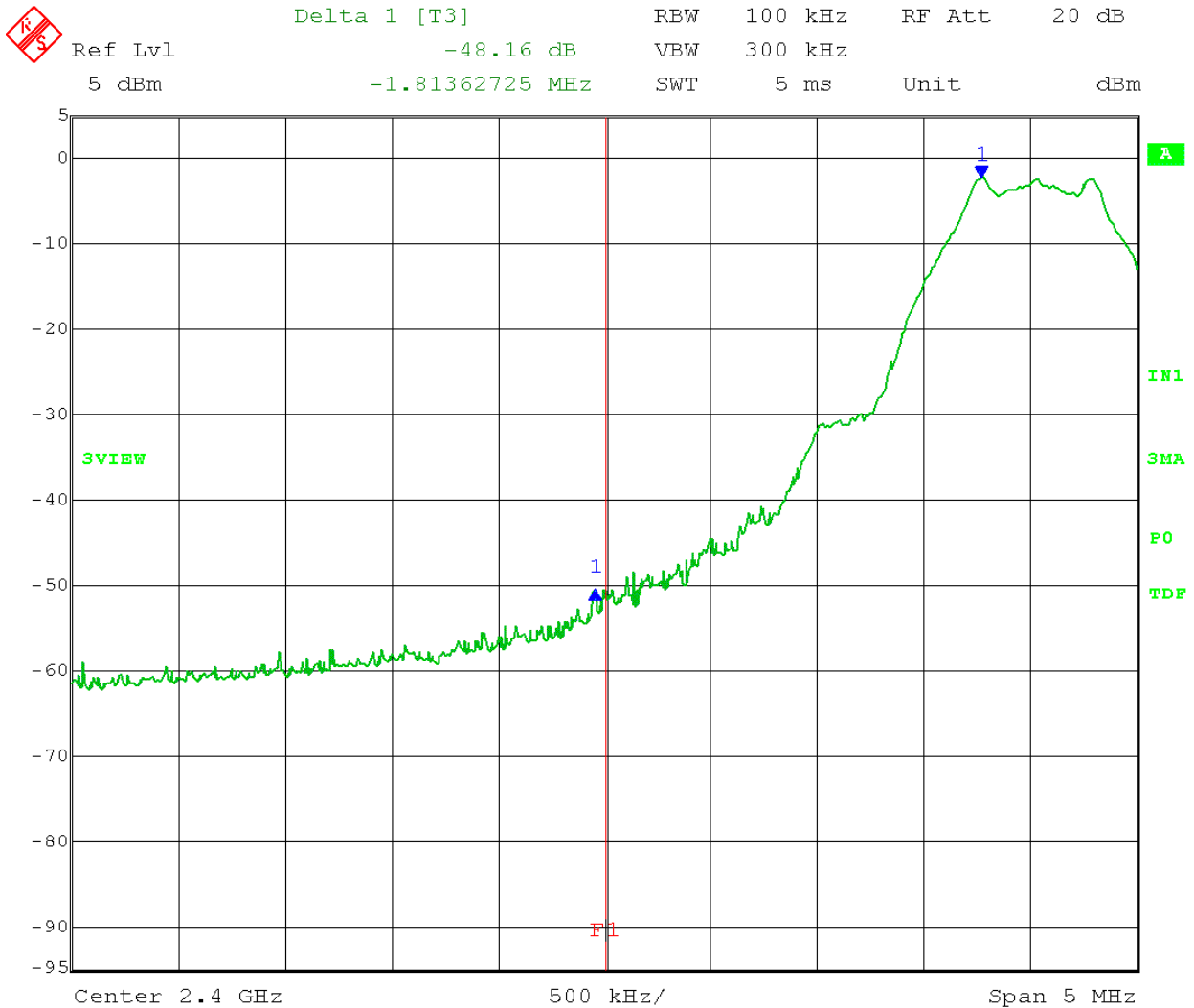
166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: Lower Band Edge Compliance – RF Conducted  
Operator: cbrandt  
Detector: Peak; max-hold  
Comment: Power setting: 0  
**Low Channel: 2402 MHz**

Band-Edge Frequency = 2.4 GHz  
Limit at Band-Edge > 20 dB Below Peak In-Band Emission  
Emission at Band-Edge is **48.16 dB** below the Peak in-band emission



Date: 16.MAR.2021 14:11:48



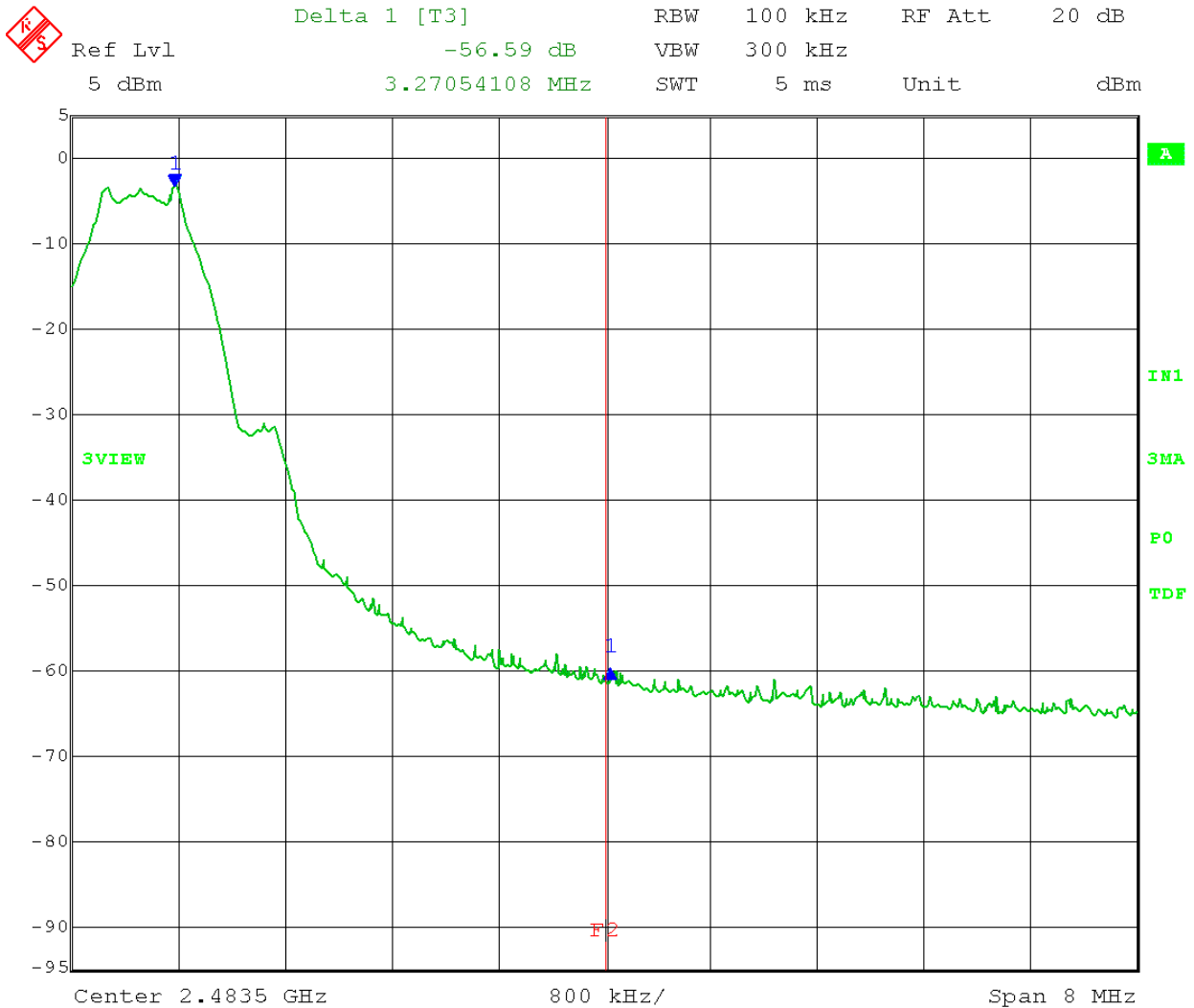
166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 03-16-2021  
Company: BCycle  
EUT: BBT  
Test: Upper Band Edge Compliance – RF Conducted  
Operator: cbrandt  
Detector: Peak; max-hold  
Comment: Power setting: 0  
**High Channel: 2480 MHz**

Band-Edge Frequency = 2.4835 GHz  
Limit at Band-Edge > 20 dB Below Peak In-Band Emission  
Emission at Band-Edge is **56.59** dB below the Peak in-band emission



Date: 16.MAR.2021 14:07:03



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

## Section A

### A8.0 Restricted Band Edge – Radiated

#### Rule Part:

Sections 15.247(d), 15.205(b), and 15.209(a)

#### Test Procedure:

ANSI C63.10-2013, Section 6.10.5.2  
Restricted-band band-edge measurements.

#### Limit:

Table in FCC 15.209

#### Results:

Compliant

#### Sample Equation(s):

None

#### Notes:

This was a Radiated Emission test. The EUT was tested while transmitting from the on-board trace antenna. The device was set up on a non-conductive table for testing purposes. All three module configurations (see section 4.0 Description of Test Sample) were tested. Each configuration was tested as stand-alone (outside the various enclosures) and powered as stated in section 7.0 (Test Conditions, Supply Voltage). The worst-case configuration and data are recorded.

Per ANSI C63.10 Section 5.11, the EUT's were programmed for continuous transmit, modulated, with a 100% duty cycle. Power setting 0 was used per manufacturer's instruction. The EUT's were programmed to the lowest and highest channels of operation and were rotated through three orthogonal axes to find worst-case emission levels. The maximum field strength level at the band-edge (including all modulation product outside of the authorized band) was measured and recorded.



166 South Carter, Genoa City, WI 53128

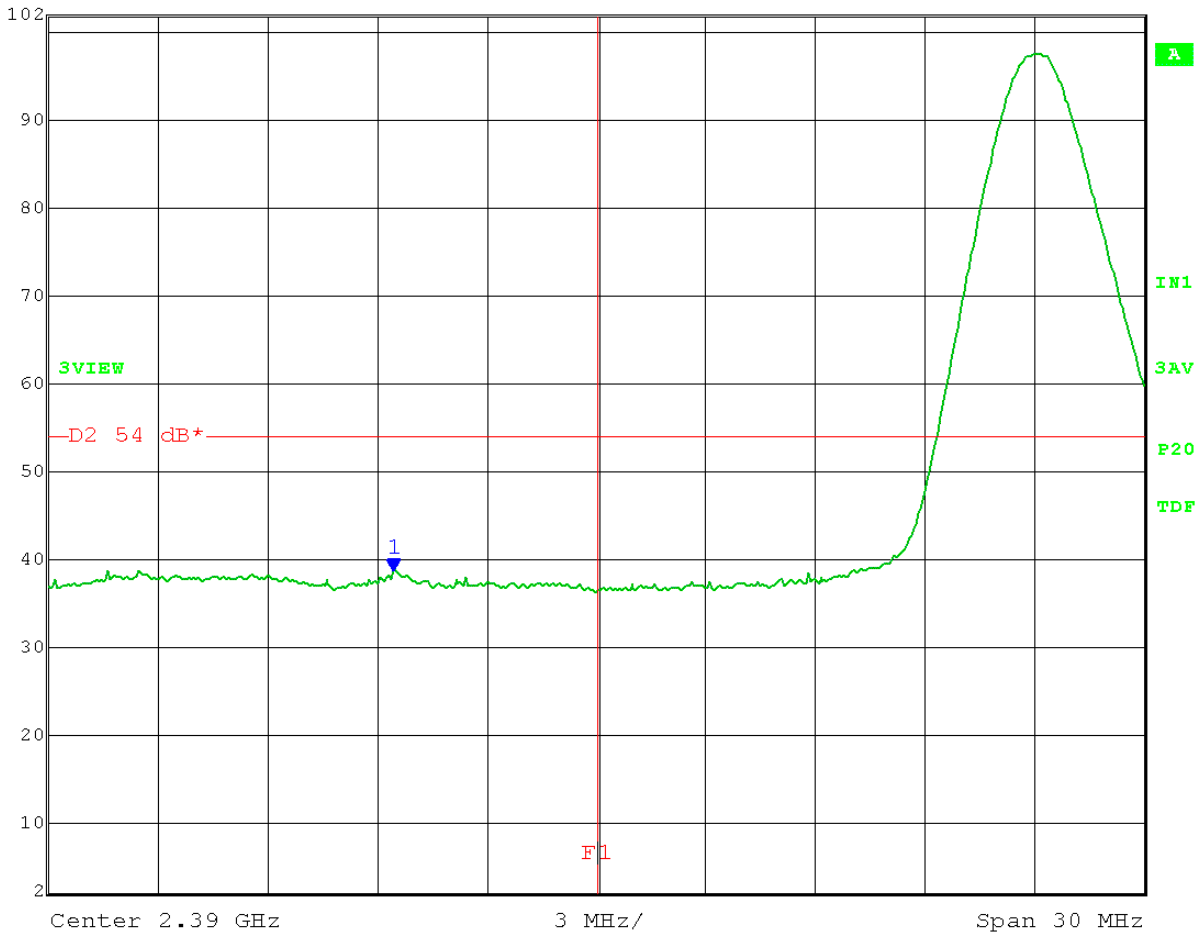
Company:	BCycle, LLC
Model Tested:	BBT v2
Report Number:	26095 rev1.1
Project Number:	11411

### Section A

Test Date: 09-27-2021  
 Company: BCycle  
 EUT: BBT (Kiosk Module configuration – found to be worst-case)  
 Test: Lower Restricted Band-Edge - Radiated  
 Operator: cbrandt  
 Comment: **Low Channel: 2402 MHz**  
 Lower Restricted Band-Edge frequency: 2.390 GHz  
 Transmit at 100% duty cycle, modulated  
 Test Distance: 3 meters  
 Detector: Linear Average with max-hold

VERTICAL: Average level at restricted band edge = **38.55 dB $\mu$ V/m**  
 AVERAGE: Limit: 54 dB $\mu$ V/m at 3 meters

	Max/Ref Lvl	Marker 1 [T3]	RBW	1 MHz	RF Att	0 dB
	102 dB*	38.55 dB $\mu$ V/m	VBW	3 MHz		
	72 dB*	2.38443888 GHz	SWT	5 ms	Unit	dB $\mu$ V/m



Date: 27.SEP.2021 12:35:43



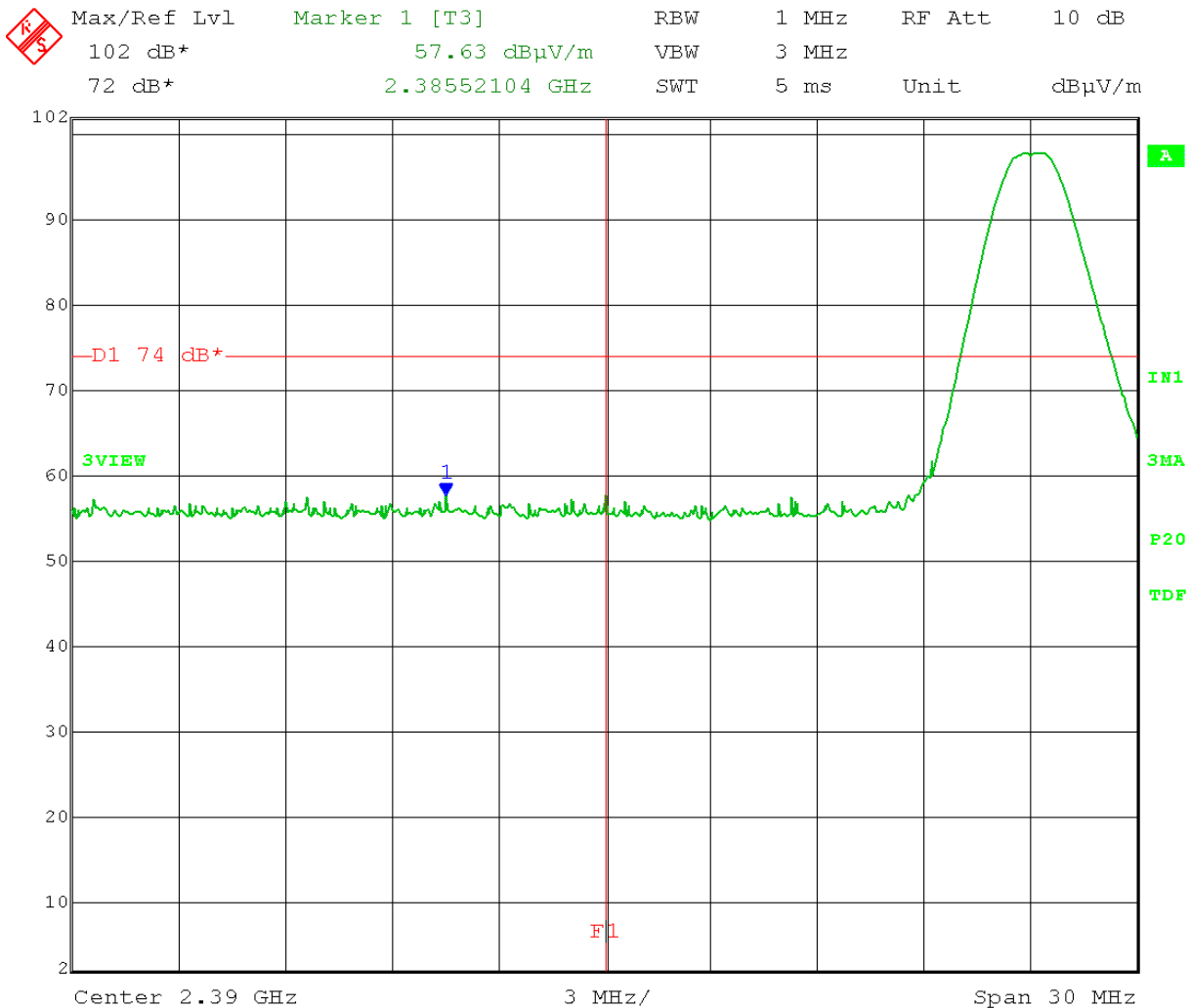
166 South Carter, Genoa City, WI 53128

Company:	BCycle, LLC
Model Tested:	BBT v2
Report Number:	26095 rev1.1
Project Number:	11411

### Section A

Test Date: 09-27-2021  
 Company: BCycle  
 EUT: BBT (Kiosk Module configuration – found to be worst-case)  
 Test: Lower Restricted Band-Edge - Radiated  
 Operator: cbrandt  
 Comment: **Low Channel: 2402 MHz**  
 Lower Restricted Band-Edge frequency: 2.390 GHz  
 Transmit at 100% duty cycle, modulated  
 Test Distance: 3 meters  
 Detector: Peak with max-hold

VERTICAL: Peak level at restricted band edge = **57.63 dB $\mu$ V/m**  
 PEAK: Limit: 74 dB $\mu$ V/m at 3 meters



Date: 27.SEP.2021 12:36:43



166 South Carter, Genoa City, WI 53128

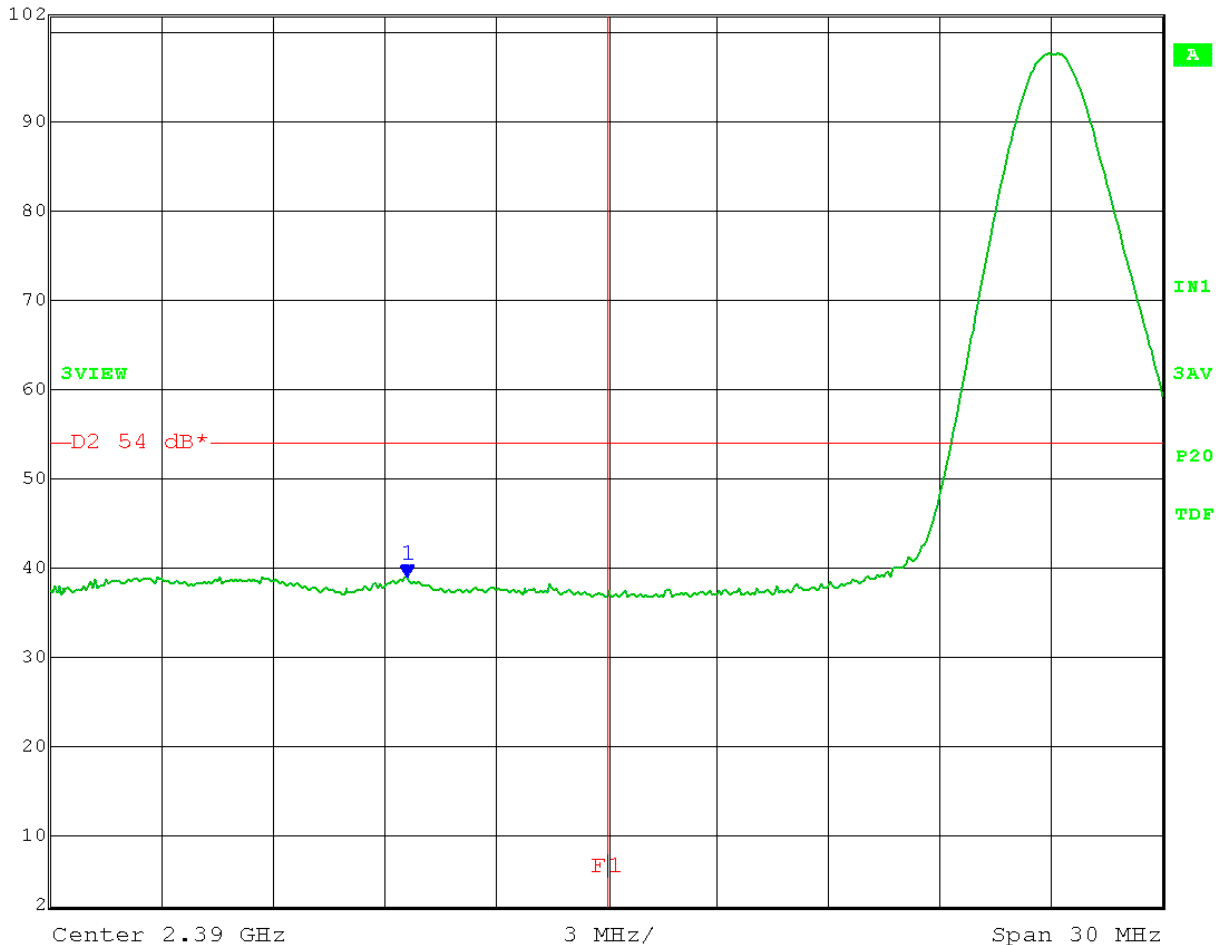
Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 04-15-2021  
Company: BCycle  
EUT: BBT (Kiosk Module configuration – found to be worst-case)  
Test: Lower Restricted Band-Edge - Radiated  
Operator: cbrandt  
Comment: **Low Channel: 2402 MHz**  
Lower Restricted Band-Edge frequency: 2.390 GHz  
Transmit at 100% duty cycle, modulated  
Test Distance: 3 meters  
Detector: Linear Average with max-hold

HORIZONTAL: Average level at restricted band edge = **38.96 dBμV/m**  
AVERAGE: Limit: 54 dBμV/m at 3 meters

	Max/Ref Lvl	Marker 1 [T3]	RBW	1 MHz	RF Att	0 dB
	102 dB*	38.96 dBμV/m	VBW	3 MHz		
	72 dB*	2.38461924 GHz	SWT	5 ms	Unit	dBμV/m



Date: 27.SEP.2021 12:28:05





166 South Carter, Genoa City, WI 53128

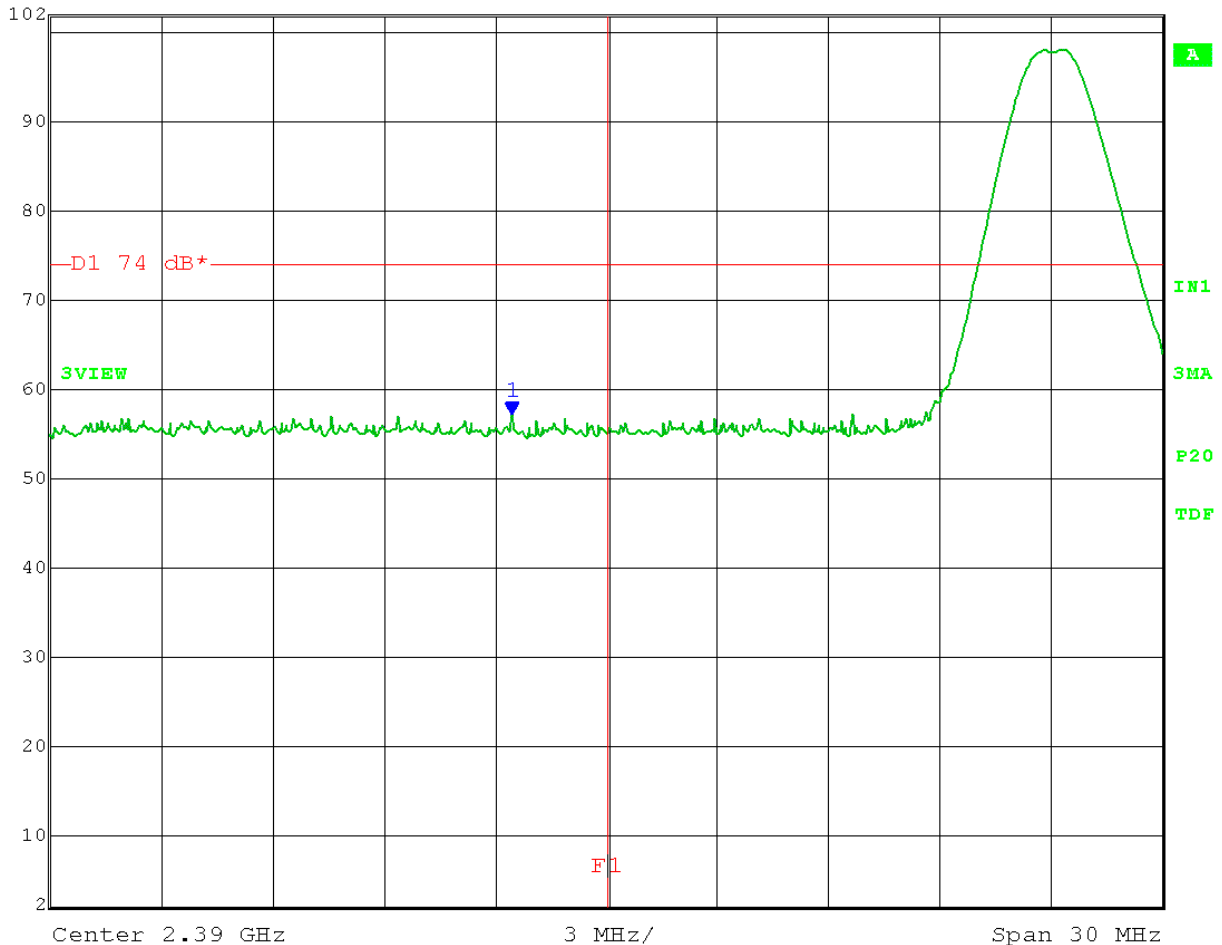
Company:	BCycle, LLC
Model Tested:	BBT v2
Report Number:	26095 rev1.1
Project Number:	11411

### Section A

Test Date: 09-27-2021  
 Company: BCycle  
 EUT: BBT (Kiosk Module configuration – found to be worst-case)  
 Test: Lower Restricted Band-Edge - Radiated  
 Operator: cbrandt  
 Comment: **Low Channel: 2402 MHz**  
 Lower Restricted Band-Edge frequency: 2.390 GHz  
 Transmit at 100% duty cycle, modulated  
 Test Distance: 3 meters  
 Detector: Peak with max-hold

HORIZONTAL: Peak level at restricted band edge = **57.09 dB $\mu$ V/m**  
 PEAK: Limit: 74 dB $\mu$ V/m at 3 meters

	Max/Ref Lvl	Marker 1 [T3]	RBW	1 MHz	RF Att	10 dB
	102 dB*	57.09 dB $\mu$ V/m	VBW	3 MHz		
	72 dB*	2.38744489 GHz	SWT	5 ms	Unit	dB $\mu$ V/m



Date: 27.SEP.2021 12:29:10



166 South Carter, Genoa City, WI 53128

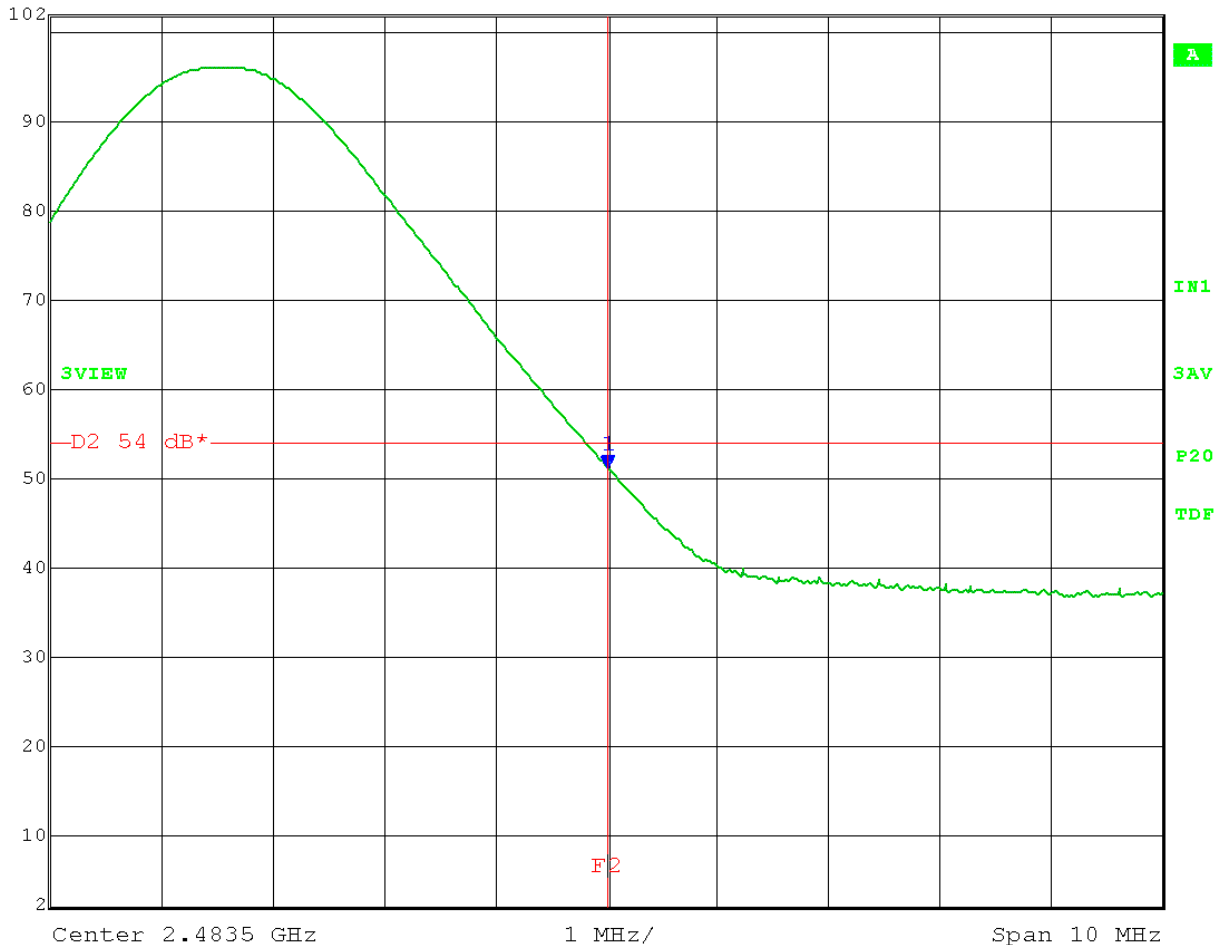
Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 09-27-2021  
Company: BCycle  
EUT: BBT (Kiosk Module configuration – found to be worst-case)  
Test: Upper Restricted Band-Edge - Radiated  
Operator: cbrandt  
Comment: High Channel: 2480 MHz  
Upper Restricted Band-Edge frequency: 2.4835 GHz  
Transmit at 100% duty cycle, modulated  
Test Distance: 3 meters  
Detector: Linear Average with max-hold

VERTICAL: Average level at restricted band edge = 51.16 dBμV/m  
AVERAGE: Limit: 54 dBμV/m at 3 meters

	Max/Ref Lvl	Marker 1 [T3]	RBW	1 MHz	RF Att	0 dB
	102 dB*	51.16 dBμV/m	VBW	3 MHz		
	72 dB*	2.48350000 GHz	SWT	5 ms	Unit	dBμV/m



Date: 27.SEP.2021 10:47:20



166 South Carter, Genoa City, WI 53128

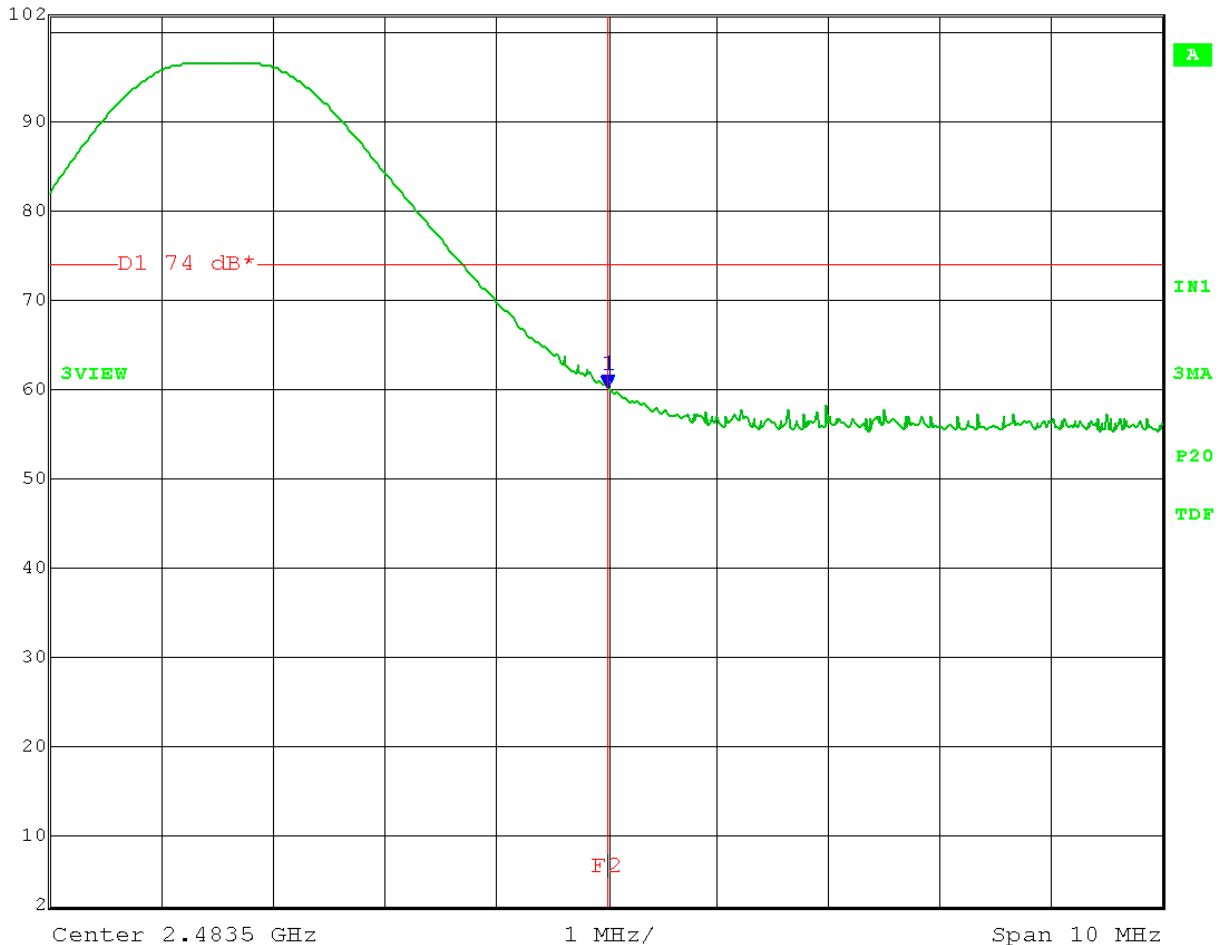
Company: BCycle, LLC  
 Model Tested: BBT v2  
 Report Number: 26095 rev1.1  
 Project Number: 11411

**Section A**

Test Date: 09-27-2021  
 Company: BCycle  
 EUT: BBT (Kiosk Module configuration – found to be worst-case)  
 Test: Upper Restricted Band-Edge - Radiated  
 Operator: cbrandt  
 Comment: **High Channel: 2480 MHz**  
 Upper Restricted Band-Edge frequency: 2.4835 GHz  
 Transmit at 100% duty cycle, modulated  
 Test Distance: 3 meters  
 Detector: Peak with max-hold

VERTICAL: Peak level at restricted band edge = **60.02 dBμV/m**  
 PEAK: Limit: 74 dBμV/m at 3 meters

	Max/Ref Lvl	Marker 1 [T3]	RBW	1 MHz	RF Att	10 dB
	102 dB*	60.02 dBμV/m	VBW	3 MHz		
	72 dB*	2.48350000 GHz	SWT	5 ms	Unit	dBμV/m



Date: 27.SEP.2021 10:50:09



166 South Carter, Genoa City, WI 53128

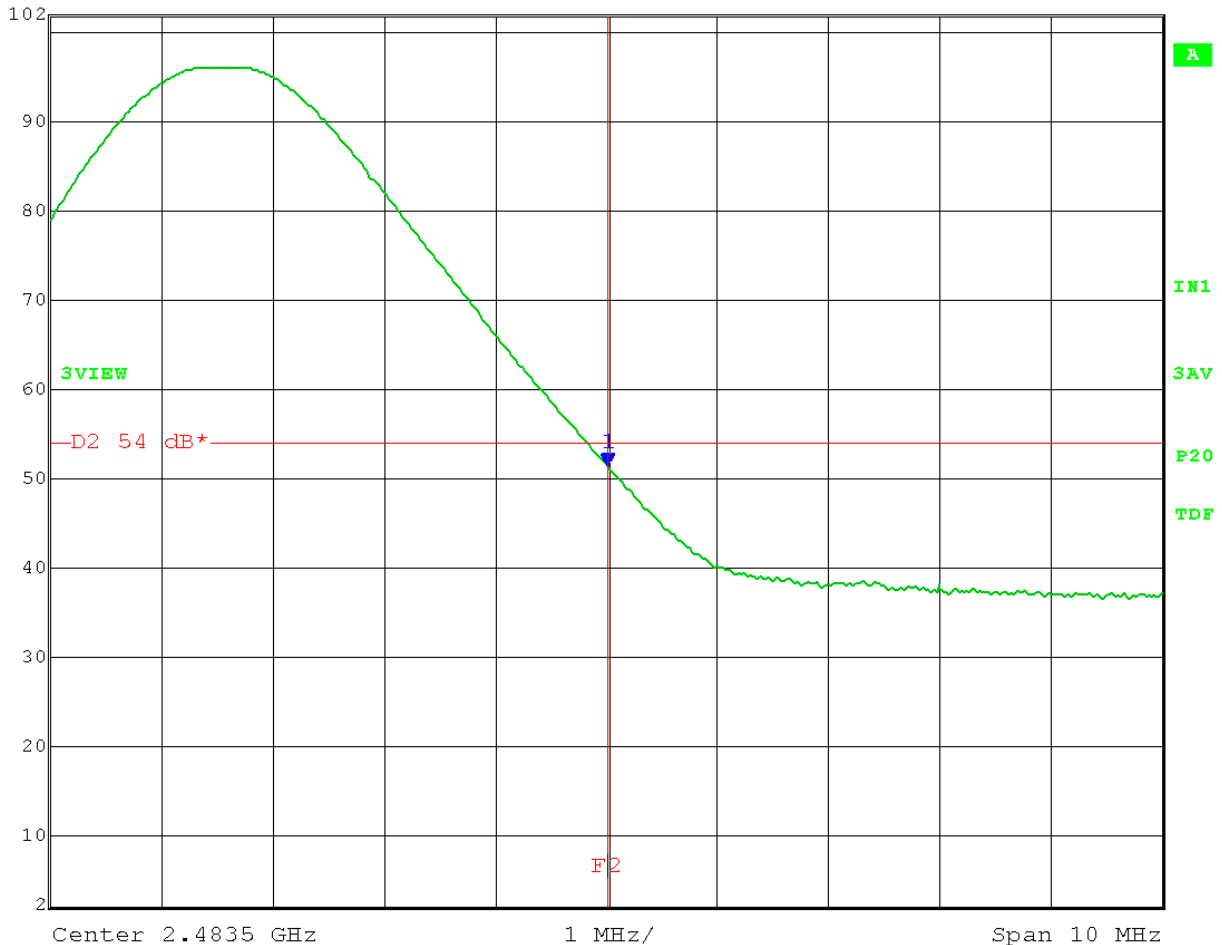
Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

### Section A

Test Date: 09-27-2021  
Company: BCycle  
EUT: BBT (Kiosk Module configuration – found to be worst-case)  
Test: Upper Restricted Band-Edge - Radiated  
Operator: cbrandt  
Comment: High Channel: 2480 MHz  
Upper Restricted Band-Edge frequency: 2.4835 GHz  
Transmit at 100% duty cycle, modulated  
Test Distance: 3 meters  
Detector: Linear Average with max-hold

HORIZONTAL: Average level at restricted band edge = **51.41 dBμV/m**  
AVERAGE: Limit: 54 dBμV/m at 3 meters

	Max/Ref Lvl	Marker 1 [T3]	RBW	1 MHz	RF Att	0 dB
	102 dB*	51.41 dBμV/m	VBW	3 MHz		
	72 dB*	2.48350000 GHz	SWT	5 ms	Unit	dBμV/m



Date: 27.SEP.2021 11:02:06



166 South Carter, Genoa City, WI 53128

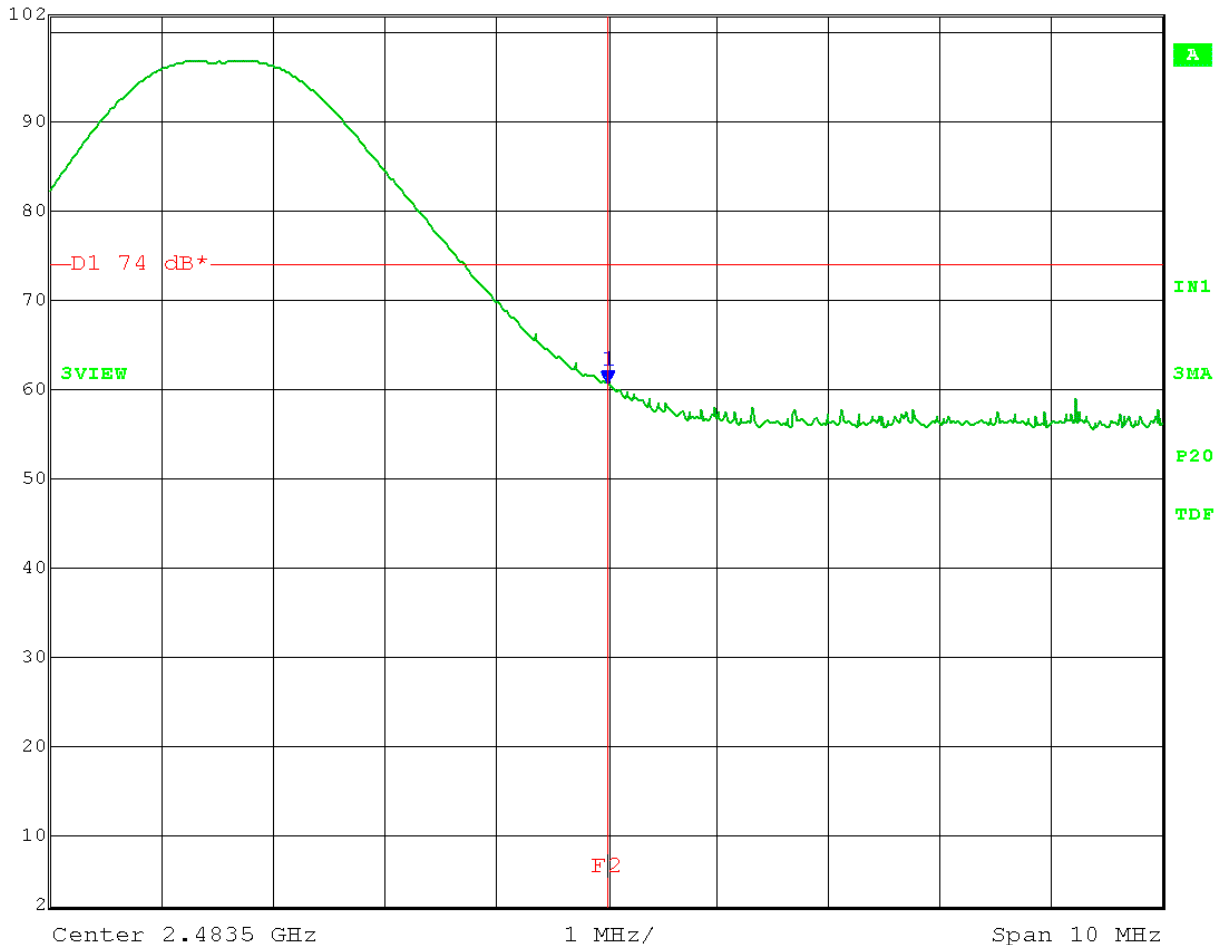
Company:	BCycle, LLC
Model Tested:	BBT v2
Report Number:	26095 rev1.1
Project Number:	11411

### Section A

Test Date: 09-27-2021  
 Company: BCycle  
 EUT: BBT (Kiosk Module configuration – found to be worst-case)  
 Test: Upper Restricted Band-Edge - Radiated  
 Operator: cbrandt  
 Comment: **High Channel: 2480 MHz**  
 Upper Restricted Band-Edge frequency: 2.4835 GHz  
 Transmit at 100% duty cycle, modulated  
 Test Distance: 3 meters  
 Detector: Peak with max-hold

HORIZONTAL: Peak level at restricted band edge = **60.61 dB $\mu$ V/m**  
 PEAK: Limit: 74 dB $\mu$ V/m at 3 meters

	Max/Ref Lvl	Marker 1 [T3]	RBW	1 MHz	RF Att	10 dB
	102 dB*	60.61 dB $\mu$ V/m	VBW	3 MHz		
	72 dB*	2.48350000 GHz	SWT	5 ms	Unit	dB $\mu$ V/m



Date: 27.SEP.2021 11:03:15



166 South Carter, Genoa City, WI 53128

Company: BCycle, LLC  
Model Tested: BBT v2  
Report Number: 26095 rev1.1  
Project Number: 11411

## Section A

### A9.0 AC Line Conducted Emissions

#### Rule Part:

Sections 15.207

#### Test Procedure:

ANSI C63.10-2013, Section 6.2  
Standard test method for ac powerline conducted emissions from unlicensed wireless devices.

#### Limit:

Table in FCC 15.207

#### Results:

Compliant

#### Sample Equation(s):

None

#### Notes:

Per ANSI C63.10 Section 5.11, the EUT was programmed for continuous transmit, modulated, with a 100% duty cycle. Power setting 0 was used per manufacturer's instruction.

This was an AC Conducted emissions measurement performed on the Kiosk Module configuration. The EUT was powered with 5.0 Volts DC from an Intertek NeverBlock USB power adapter (Model 1310806TG, SN: 2634103975) (Not provided with DUT). The power adapter was connected to a Line Impedance Stabilization Network using a 1-meter non-shielded power cord.



Report issuing date : 04-15-2021

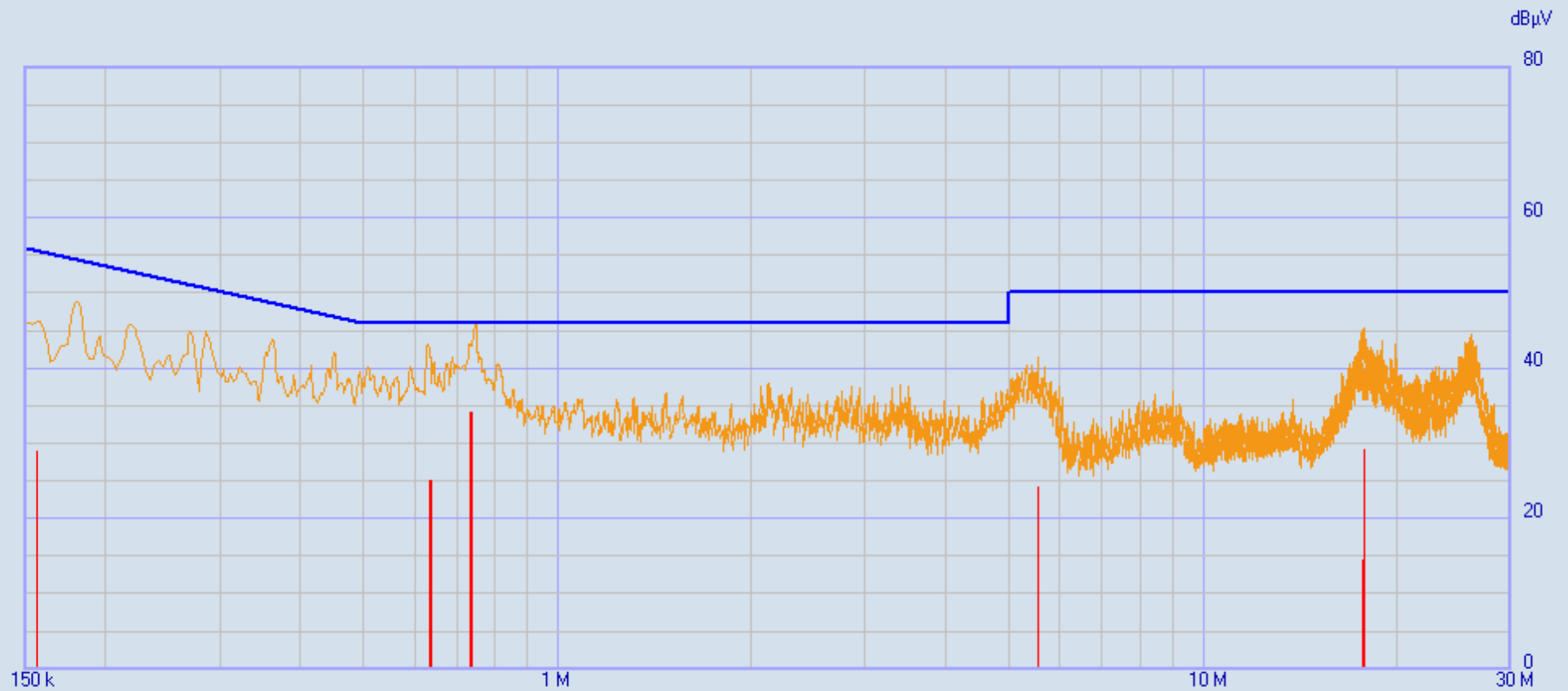
Standard : FCC Part 15.207  
Test Type : Voltage Mains Test  
Test Site : Screen Room  
Temperature : 70 °F  
Humidity : 32 %  
Test Specs : Line 1; Quasi-Peak Detector vs AVERAGE Limit  
Operator : cbrandt  
DLS Project # : 11411  
Result : Pass

EUT  
-----  
Manufacturer : Trek Bicycle  
Model : 5267706  
Product : BBT Module, Kiosk configuration  
Notes : 120 V 60 Hz; USB powered from off-the-shelf power adapter  
Comments : Continuous Transmit; High Channel  
: Tested with Intertek, NeverBlock Wall Charger, model 1310806TG, SN: 2634103975

-----  
Testing Company : DLS Electronic Systems, Inc.  
Tel./Fax : 262-279-0210  
Web site : <http://www.dlsemc.com>

Receiver Details  
-----  
Model : PMM 9010F  
Brand : Narda  
S/N : 020WW40102  
Last Calibration : 04/14/2021

NOTE: The column in the table that is labeled "delta" shows the margin in dB with respect to the limit. A negative number indicates the level of the emission is under the limit by the given value, while a positive number indicates the emission level is above the limit by the given value.



#11411 Trek BBT Module 5267706 120v L1\_000

	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (2.045 kHz)	P Q	1500 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General  
Nr. of Worst = Infinite (3)

Limits:  
FCC 15\_207 AV

Factors:  
LISN DLS#665  
LIM #507 w CBL-035  
HPF #592  
Cables 43 & 45

Peak ———  
QPeak ———





#11411 Trek BBT Module 5267706 120v L1\_000 15/04/2021 16:51:41  
Rel. SW 2.22 (August 2015)  
Rel. FW 1.93 01/10/19  
Margin: 100 dB

Frequency	QPeak	Limit	Delta	Factor	Factor	Factor	Factor
[MHz]	[dBµV]	FCC 15_20.. [dBµV]	[dB]	LISN DLS#.. [dB]	LIM #507 .. [dB]	HPF #592 [dB]	Cables 43.. [dB]
1 0.15	28.89	56.00	-27.11	0.10	9.68	2.16	0.03
2 0.156135	28.83	55.67	-26.84	0.09	9.68	2.07	0.04
3 0.634665	25.02	46.00	-20.98	0.03	9.75	0.67	0.11
4 0.736915	33.98	46.00	-12.02	0.03	9.76	0.61	0.13
5 5.53244	24.17	50.00	-25.83	0.04	9.81	0.15	0.46
6 17.63884	29.02	50.00	-20.98	0.00	9.89	0.24	0.76



Report issuing date : 04-15-2021

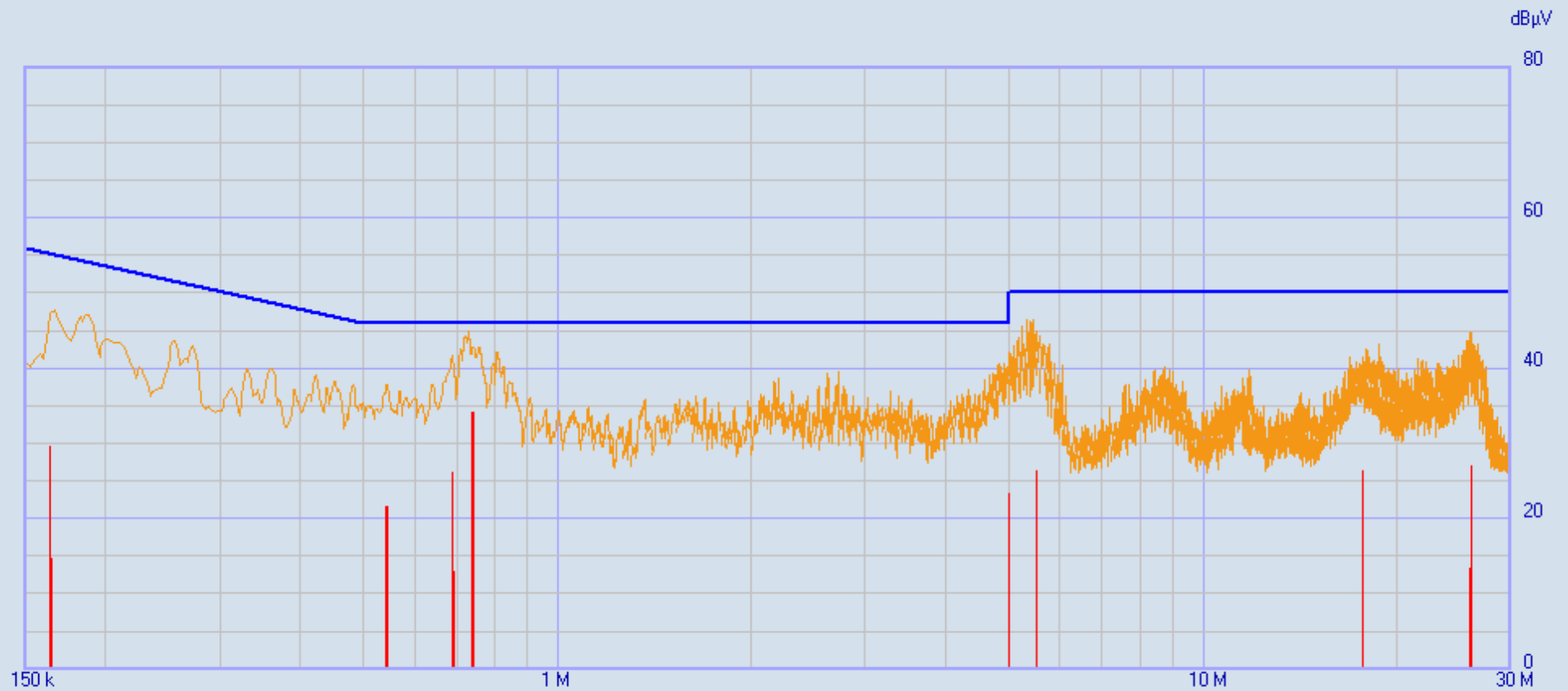
Standard : FCC Part 15.207  
Test Type : Voltage Mains Test  
Test Site : Screen Room  
Temperature : 70 °F  
Humidity : 32 %  
Test Specs : Line 2; Quasi-Peak Detector vs AVERAGE Limit  
Operator : cbrandt  
DLS Project # : 11411  
Result : Pass

EUT  
-----  
Manufacturer : Trek Bicycle  
Model : 5267706  
Product : BBT Module, Kiosk configuration  
Notes : 120 V 60 Hz; USB powered from off-the-shelf power adapter  
Comments : Continuous Transmit; High Channel  
: Tested with Intertek, NeverBlock Wall Charger, model 1310806TG, SN: 2634103975

-----  
Testing Company : DLS Electronic Systems, Inc.  
Tel./Fax : 262-279-0210  
Web site : <http://www.dlsemc.com>

Receiver Details  
-----  
Model : PMM 9010F  
Brand : Narda  
S/N : 020WW40102  
Last Calibration : 04/14/2021

NOTE: The column in the table that is labeled "delta" shows the margin in dB with respect to the limit. A negative number indicates the level of the emission is under the limit by the given value, while a positive number indicates the emission level is above the limit by the given value.



#11411 Trek BBT Module 5267706 120v L2\_001

	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (2.045 kHz)	P Q	1500 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General  
Nr. of Worst = Infinite (2)

Limits:  
FCC 15\_207 AV

Factors:  
LISN DLS#665  
LIM #507 w CBL-035  
HPF #592  
Cables 43 & 45

Peak ———  
QPeak ———



#11411 Trek BBT Module 5267706 120v L2\_001 15/04/2021 17:00:22  
Rel. SW 2.22 (August 2015)  
Rel. FW 1.93 01/10/19  
Margin: 100 dB

Frequency	QPeak	Limit	Delta	Factor	Factor	Factor	Factor
[MHz]	[dBµV]	FCC 15_20.. [dBµV]	[dB]	LISN DLS#.. [dB]	LIM #507 .. [dB]	HPF #592 [dB]	Cables 43.. [dB]
1 0.15	28.64	56.00	-27.36	0.10	9.68	2.16	0.03
2 0.164315	29.45	55.24	-25.79	0.08	9.67	1.95	0.06
3 0.544685	21.65	46.00	-24.35	0.03	9.76	0.84	0.10
4 0.687835	26.02	46.00	-19.98	0.03	9.76	0.64	0.12
5 0.741005	34.13	46.00	-11.87	0.03	9.76	0.61	0.14
6 4.98438	23.34	46.00	-22.66	0.04	9.79	0.14	0.41
7 5.49563	26.36	50.00	-23.64	0.04	9.81	0.15	0.45
8 17.546815	26.31	50.00	-23.69	0.00	9.89	0.24	0.76
9 25.898595	26.96	50.00	-23.04	-0.03	9.87	0.31	0.88



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## Section B – Measurement Uncertainty

Compliance with the limits in this standard are based on the results of the compliance measurement. Our calculated measurement uncertainty including the measurement instrumentation, associated connections between the various instruments in the measurement chain, and other contributions, are provided in this section of the test report.

### Radiated & RF Conducted Emission 30 MHz to 25 GHz Uncertainty

Parameter	Expanded Uncertainty (K=2)
Occupied Channel Bandwidth	+/- 1.14%
RF Output Power, Conducted	+/- 0.89 dB
Unwanted Emissions, Conducted	+/- 2.62 dB
All Emissions, Radiated	+/- 4.95 dB
DC and Low Frequency Voltages	+/- 2.42%
Time	+/- 0.01%
Duty Cycle	+/- 0.05%

### AC Line Conducted Emissions 150 kHz to 30 MHz Uncertainty

AC Line Conducted		Uncertainty ( + / - dB )
Contribution	Probability Distribution	
		150 kHz - 30 MHz
Combined Standard Uncertainty	Normal	1.05
<b>Expanded Uncertainty</b>	<b>Normal (k=2)</b>	<b>2.10</b>



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# END OF REPORT

Revision #	Date	Comments	By
1.0	10-20-2021	Initial Release	CB
1.1	08-30-2022	Reported antenna gain change due to new gain measurement	CB