

## MEASUREMENT REPORT

### FCC PART 15.247 Bluetooth (Low Energy)

**Applicant Name:**

Gokhale Method Enterprises  
881 Tolman Drive  
Stanford, CA 95403  
United States

**Date of Testing:**

10/30/2020-11/5/2020

**Test Site/Location:**

PCTEST Lab. Morgan Hill, CA, USA

**Test Report Serial No.:**

1C2011060079-02-R1.2ARVX

**FCC ID:**

2ARVX-PT20C

**APPLICANT:**

Gokhale Method Enterprises

**Model/HVIN:**

PT20C

**EUT Type:**

Posture Tracker Wireless Charger

**Max. RF Output Power:**

0.899mW (-0.46dBm) Peak Conducted

**Frequency Range:**

2402 – 2480MHz

**FCC Classification:**

Digital Transmission System (DTS)

**FCC Rule Parts:**

Part 15 Subpart C (15.247)


**Test Procedure(s):**


ANSI C63.10-2013, KDB 558074 D01 v05r02

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 ANSI C63.10-2013 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

This revised test report (S/N: 1C2011060079-02-R1.2ARVX) supersedes and replaces the previously issued test report (S/N: 1C2011060079-02.2ARVX) 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.

  
Randy Ortanez  
President

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## 1.0 INTRODUCTION

### 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.


### 1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

### 1.3 Test Facility / Accreditations

Measurements were performed at PCTEST located in Morgan Hill, CA 95037, U.S.A.

- PCTEST is an ISO 17025-2005 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules.
- PCTEST facility is a registered (22831) test laboratory with the site description on file with ISSED.

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## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Gokhale Posture Tracker Wireless Charger FCC ID: 2ARVX-PT20C**. The test data contained in this report pertains to emissions due to the digital circuitry of the EUT and the wireless power transfer through a continuous transmission at 917.5MHz frequency. The charger utilizes Bluetooth (Low Energy) to pair with receiving devices that receive charge when placed on the slots of EUT's surface. The data found in this test report was taken with the EUT operating in Bluetooth low energy mode. While in low energy mode, the Bluetooth transmitter hops pseudo-randomly between 40 channels, three of which are "advertising channels". When the transmitter is hopping only between the three advertising channels, the EUT does not fall under the category of a "hopper" as defined in 15.247(a)(iii) which states that a "frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels." As operation on only the advertising channels does not qualify the EUT as a hopper, the EUT is certified as a DTS device in this mode.

**Test Device Serial No.:** 01AE, 008F

### 2.2 Device Capabilities

This device contains the following capabilities:


Bluetooth (LE) and WPT (917.5MHz)

Ch.	Frequency (MHz)
0	2402
:	:
19	2440
:	:
39	2480

**Table 2-1. Bluetooth (Low Energy) Frequency / Channel Operations**

Measured Duty Cycles	
BLE Mode	Duty Cycle (%)
1M	63.6

**Table 2-2. Measured Duty Cycles**

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## 2.3 Antenna Description

Following antenna was used for the testing.

Frequency [GHz]	Antenna Gain (dBi)
2.4	0.53

**Table 2-3. Highest Antenna Gain**

## 2.4 Test Support Equipment

1	Dell Laptop	Model:	E7440	S/N:	6P0BG12
	w/AC/DC Adapter	Model:	LA130PM121	S/N:	0VJCH5
2	USB-C Cable	Model:	N/A	S/N:	N/A
	w/AC Adapter	Model:	HNEM050200UU	S/N:	N/A

**Table 2-4. Test Support Equipment List**

## 2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2013 and KDB 558074 D01 v05r02. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, and 7.6 for antenna port conducted emissions test setups.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel.

The EUT was manipulated through two orthogonal planes of X-orientation (flatbed) and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For AC line conducted and radiated test below 1GHz, following configuration was investigated:


- EUT powered by AC/DC adaptor via USB-C cable with wire charger

## 2.6 Software and Firmware

The test was conducted with firmware version Gok2 TX 4.0.1.48 installed on the EUT.

## 2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

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## 3.0 DESCRIPTION OF TESTS

### 3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure.....None


### 3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz - 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.9. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

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### 3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.


Per KDB 414788, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was rotated about its vertical axis while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

### 3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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## 4.0 ANTENNA REQUIREMENTS


### Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna(s) of the EUT are **permanently attached**.
- There are no provisions for connection to an external antenna.

### Conclusion:

The EUT complies with the requirement of §15.203.


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## 5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ( $\pm$ dB)
Conducted Bench Top Measurements	1.30
AC Line Conducted Disturbance	2.34
Radiated Disturbance (<1GHz)	4.15
Radiated Disturbance (>1GHz)	4.43
Radiated Disturbance (>18GHz)	4.96

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## 6.0 TEST EQUIPMENT CALIBRATION DATA


Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	3/4/2020	Annual	3/4/2021	MY49430244
Anritsu	ML2496A	Power Meter	4/9/2020	Annual	4/9/2021	2002005
Anritsu	MA2411B	Pulse Power Sensor	3/10/2020	Annual	3/10/2021	1911105
ATM	180-442A-KF	Horn; Antenna 20dB Nominal (Small 18-40 GHz)	8/11/2020	Annual	8/11/2021	T058701-01
ETS-Lindgren	3142E-PA	Pre-Amplifier (30MHz - 6GHz)	3/4/2020	Annual	3/4/2021	102325
ETS-Lindgren	3142E	BiConiLog Antenna (30MHz - 6GHz)	1/6/2020	Annual	1/6/2021	224569
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/21/2020	Annual	4/21/2021	205956
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	3/2/2020	Annual	3/2/2021	101619
Rohde & Schwarz	HFH2-Z2	Loop Antenna	3/12/2020	Annual	3/12/2021	100546
Rohde & Schwarz	HF907	Double Ridged Horn Antenna	10/13/2020	Annual	10/13/2021	102829
Rohde & Schwarz	ESW44	EMI Test Receiver	8/7/2020	Annual	8/7/2021	101668
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	12/16/2019	Annual	12/16/2020	100057
Rohde & Schwarz	ENV216	Two-Line V-Network (LISN)	1/6/2020	Annual	1/6/2021	101363

**Table 6-1. Test Equipment List**

### Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

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## 7.0 TEST RESULTS

### 7.1 Summary


Company Name: Gokhale Method Enterprises  
FCC ID: 2ARVX-PT20C  
FCC Classification: Digital Transmission System (DTS)  
Number of Channels: 40

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	> 500kHz	CONDUCTED	PASS	Section 7.2
15.247(b)(3)	Transmitter Output Power	< 1 Watt		PASS	Sections 7.3
15.247(e)	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.4
15.247(d)	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.5, 7.6
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	RADIATED	PASS	Sections 7.7, 7.7.2, 7.8
15.207	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits	LINE CONDUCTED	PASS	Section 7.9

**Table 7-1. Summary of Test Results**

#### Notes:

1. All modes of operation were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
4. For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST “Bluetooth LE Automation,” Version 3.6.
5. For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST “Chamber Automation,” Version 1.3.1.

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## 7.2 6dB Bandwidth Measurement – Bluetooth (LE)

### §15.247(a.2)

#### Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the transmitter antenna terminal of the EUT while the EUT is operating at maximum power and at the appropriate frequencies. All modes of operation were investigated and the worst case configuration results are reported in this section.

*The minimum permissible 6dB bandwidth is 500 kHz.*

#### Test Procedure Used

ANSI C63.10-2013 – Section 11.8.2 Option 2  
KDB 558074 D01 v05r02 – Section 8.2

#### Test Settings

1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to  $X = 6$ . The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100kHz
3. VBW  $\geq 3 \times$  RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize

#### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-1. Test Instrument & Measurement Setup**


#### Test Notes

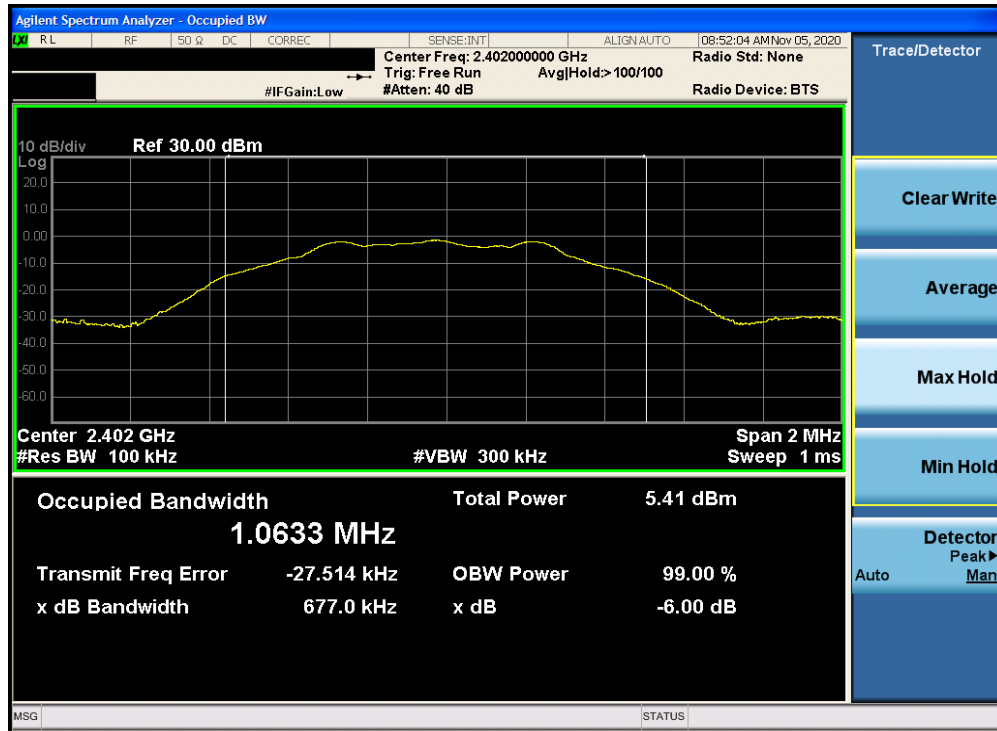
None

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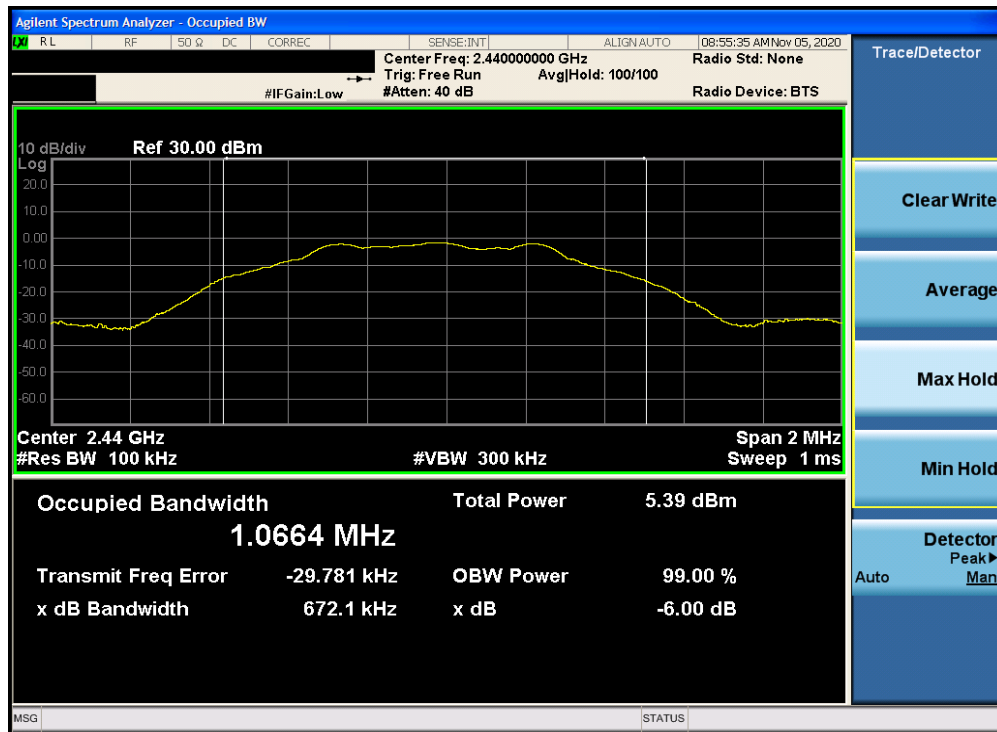
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Measured Bandwidth [kHz]	Minimum Bandwidth [kHz]	Pass / Fail
2402	1.0	0	677.0	500	Pass
2440	1.0	19	672.1	500	Pass
2480	1.0	39	683.0	500	Pass

**Table 7-2. Conducted Bandwidth Measurements**

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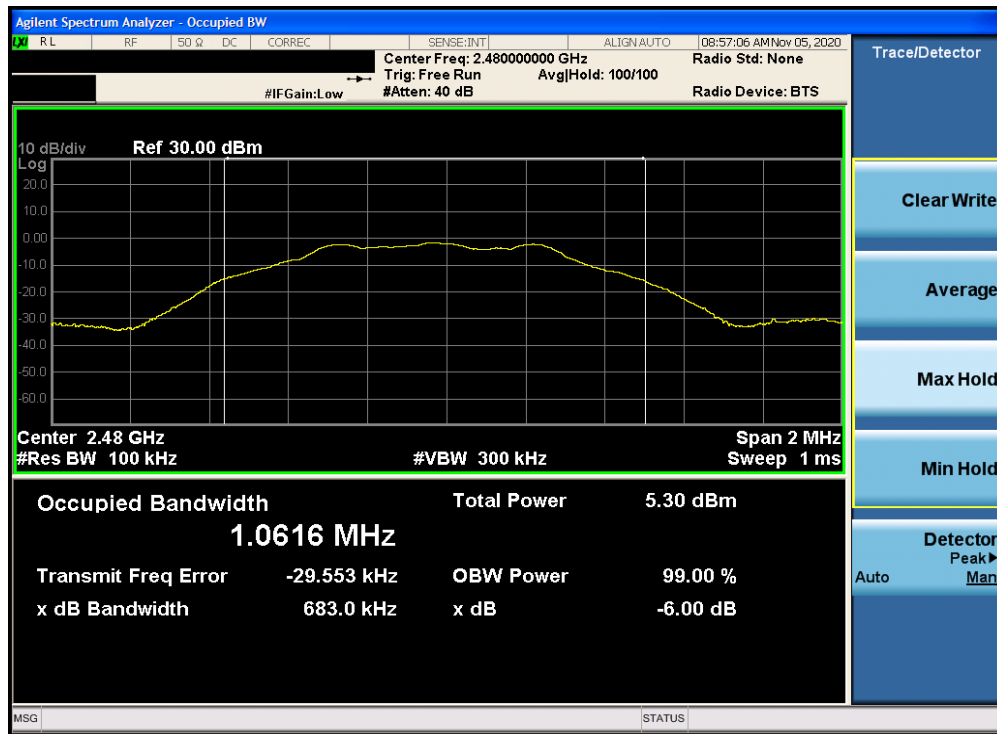


Plot 7-1. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps, Ch. 0)



Plot 7-2. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps, Ch. 19)

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Plot 7-3. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps, Ch. 39)

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### 7.3 Output Power Measurement – Bluetooth (LE) §15.247(b.3)

#### Test Overview and Limits

The transmitter antenna terminal of the EUT is connected to the input of a spectrum analyzer. Measurements are made while the EUT is operating at maximum power and at the appropriate frequencies.

***The maximum peak conducted output power of digital modulation systems operating in the 2400-2483.5MHz band is 1 Watt.***

***The conducted output power limit on paragraph above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.***

***For DTS employing digital modulation techniques operating in the band 2400-2483.5MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p shall not exceed 4 W.***

#### Test Procedure Used

KDB 558074 D01 v05r02 – Section 8.3.1.3  
ANSI C63.10-2013 - Section 11.9.1.3  
ANSI C63.10-2013 - Section 11.9.2.3.2

#### Test Settings

#### Method PKPM1 (Peak Power Measurement)

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

#### Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power

#### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-2. Test Instrument & Measurement Setup for Peak and Average Power Measurement**

#### Test Notes

None

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### 7.3.1 Peak Output Power Measurement – Bluetooth (LE)

§15.247(b.3)

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Peak Conducted Power		Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Margin [dB]
			[dBm]	[mW]				
2402	1.0	0	-0.46	0.899	0.53	0.07	36.02	-35.95
2440	1.0	19	-0.56	0.879	0.53	-0.03	36.02	-36.05
2480	1.0	39	-0.70	0.851	0.53	-0.17	36.02	-36.19

**Table 7-3. Peak Conducted Output Power Measurements (Bluetooth LE)**


<b>FCC ID:</b> 2ARVX-PT20C	 <b>MEASUREMENT REPORT</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2011060079-02-R1.2ARVX	<b>Test Dates:</b> 10/30/2020-11/5/2020	<b>EUT Type:</b> Posture Tracker Wireless Charger
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### 7.3.2 Average Output Power Measurement – Bluetooth (LE)

§15.247(b.3)

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Average Conducted Power		Ant. Gain [dBi]	EIRP [dBm]	Limit [dBm]	Margin [dB]
			[dBm]	[mW]				
2402	1.0	0	-2.70	0.537	0.53	-2.17	36.02	-38.19
2440	1.0	19	-2.83	0.521	0.53	-2.30	36.02	-38.32
2480	1.0	39	-2.97	0.505	0.53	-2.44	36.02	-38.46

**Table 7-4. Average Conducted Output Power Measurements (Bluetooth LE)**

<b>FCC ID:</b> 2ARVX-PT20C	 <b>MEASUREMENT REPORT</b>	<b>Approved by:</b> Quality Manager
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## 7.4 Power Spectral Density – Bluetooth (LE) §15.247(e)

### Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power and at the appropriate frequencies.

***The maximum permissible power spectral density is 8 dBm in any 3 kHz band.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.10.2 Method PKPSD

KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission

### Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 1MHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-3. Test Instrument & Measurement Setup**


### Test Notes

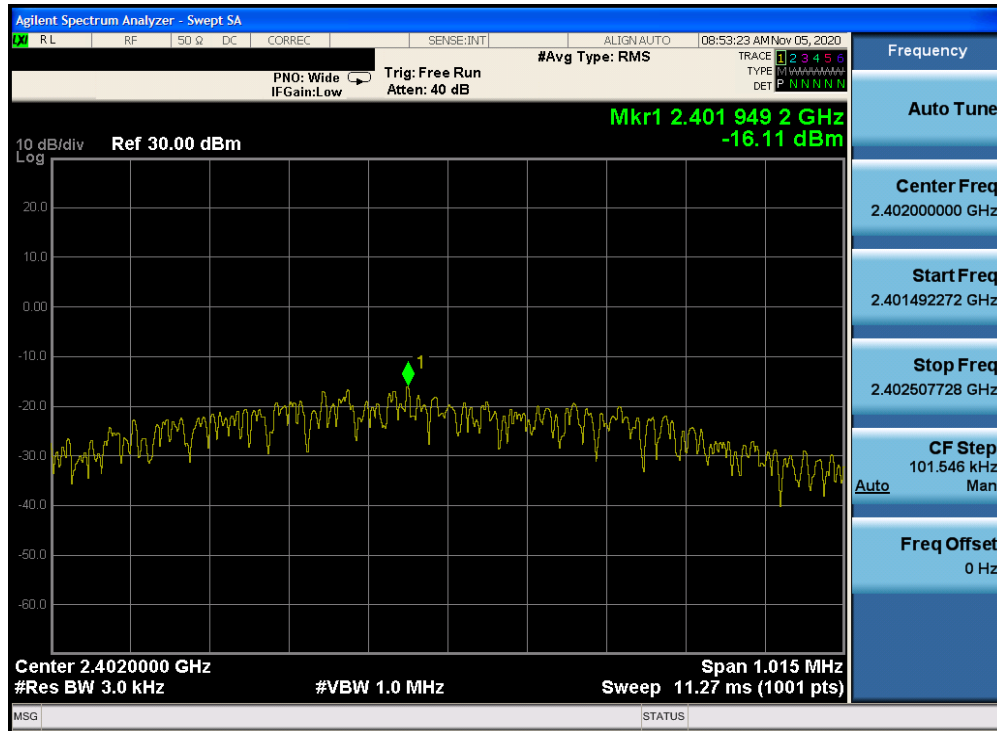
None

FCC ID: 2ARVX-PT20C	<b>PCTEST</b> Proud to be part of element	<b>MEASUREMENT REPORT</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2011060079-02-R1.2ARVX	<b>Test Dates:</b> 10/30/2020-11/5/2020	<b>EUT Type:</b> Posture Tracker Wireless Charger	Page 19 of 47

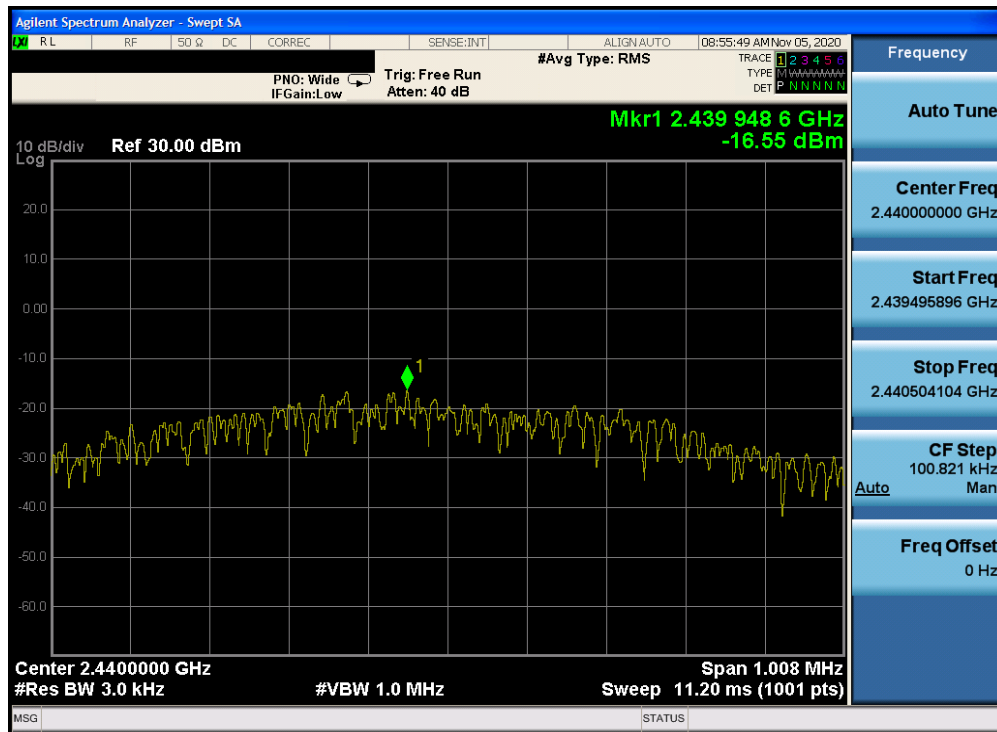
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]
2402	1.0	0	-16.11	8.0	-24.11
2440	1.0	19	-16.55	8.0	-24.55
2480	1.0	39	-16.59	8.0	-24.59

**Table 7-5. Conducted Power Density Measurements**

<b>FCC ID:</b> 2ARVX-PT20C	 <b>MEASUREMENT REPORT</b>	<b>Approved by:</b> Quality Manager
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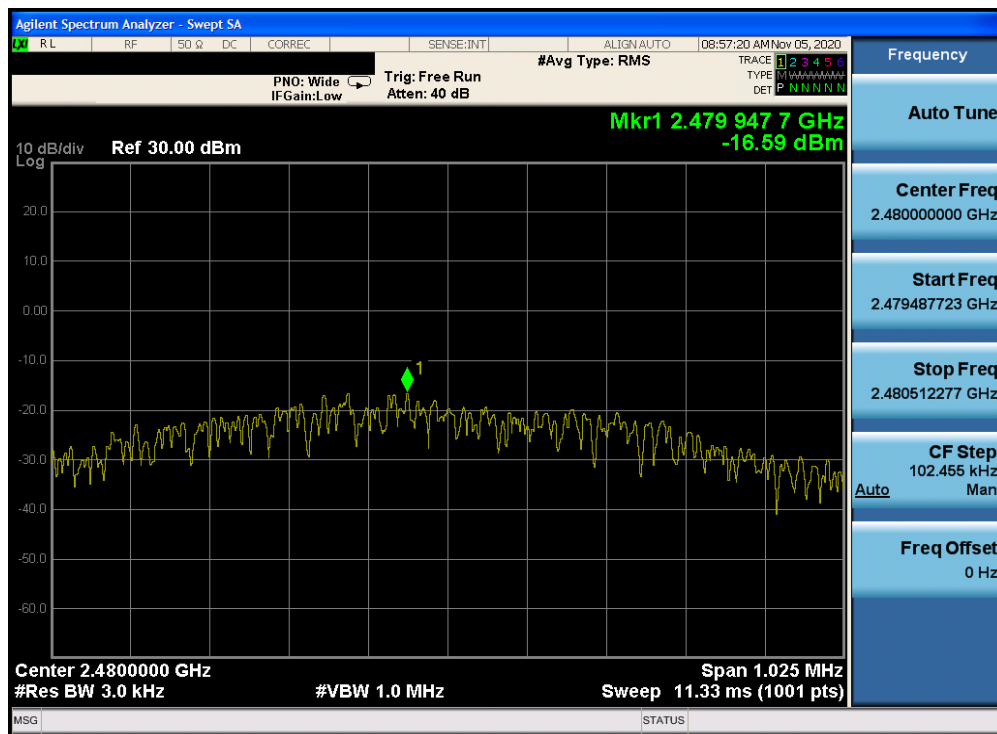


Plot 7-4. Power Spectral Density Plot (Bluetooth (LE), 1Mbps, Ch. 0)



Plot 7-5. Power Spectral Density Plot (Bluetooth (LE), 1Mbps, Ch. 19)

FCC ID: 2ARVX-PT20C	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-6. Power Spectral Density Plot (Bluetooth (LE), 1Mbps, Ch. 39)

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## 7.5 Conducted Authorized Band Edge §15.247(d)

### Test Overview and Limit

For the following out of band conducted spurious emissions plots at the band edge, the EUT was set to transmit at maximum power with the largest packet size available. These settings produced the worst-case emissions.

***The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3  
KDB 558074 D01 v05r02 – Section 8.7.2

### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 300kHz
5. Detector = Peak
6. Number of sweep points  $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

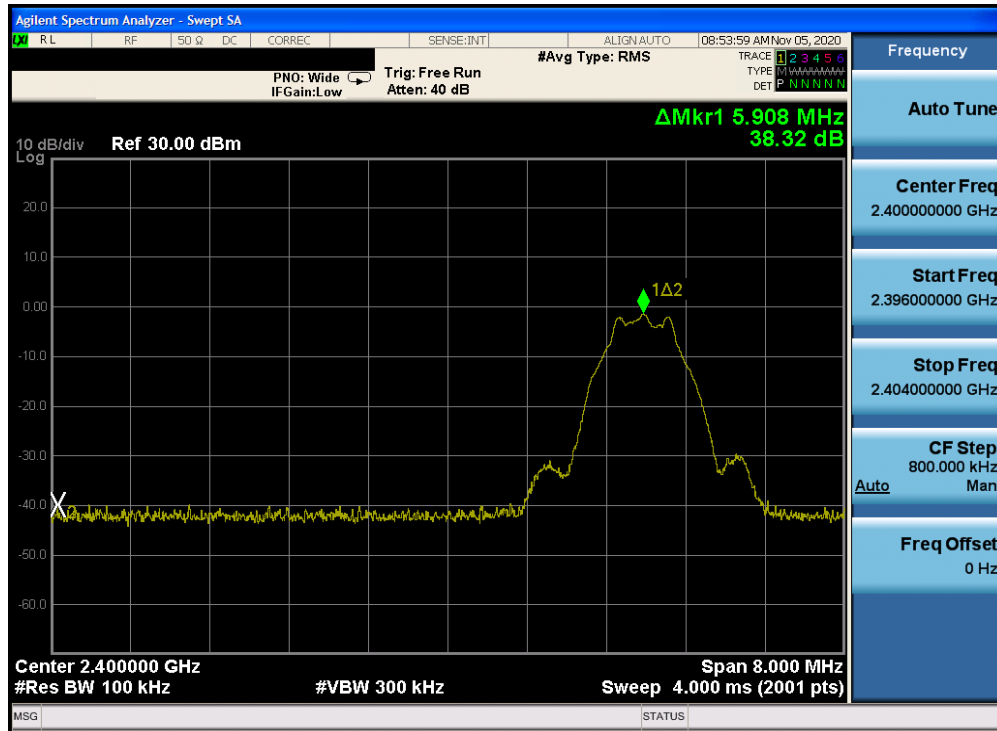


**Figure 7-4. Test Instrument & Measurement Setup**

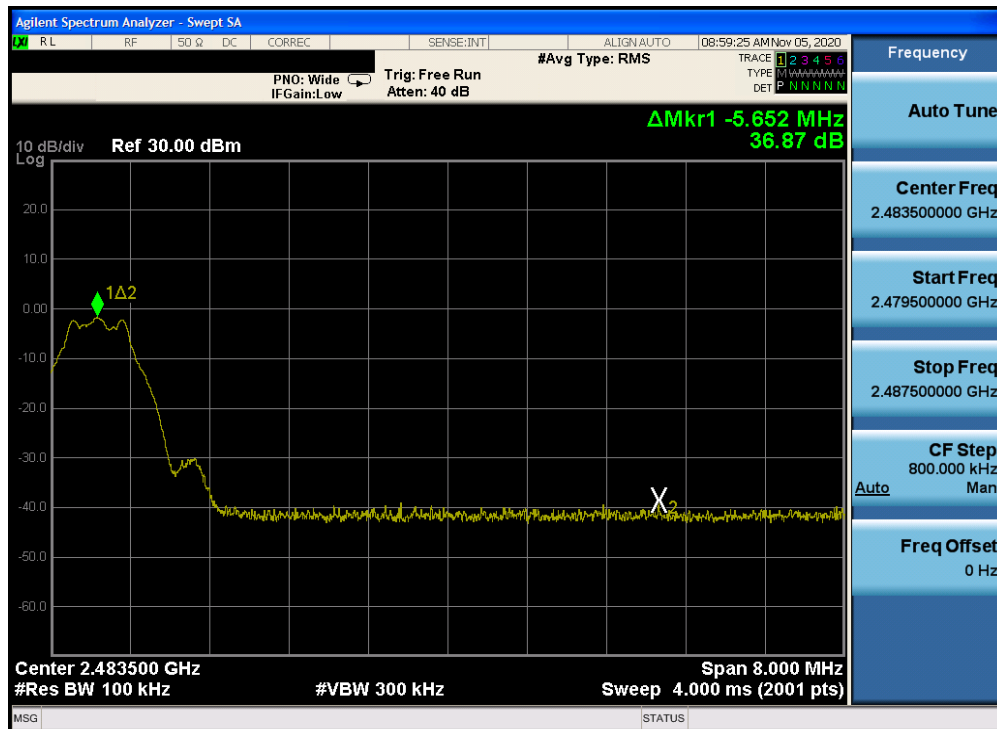
### Test Notes

None

FCC ID: 2ARVX-PT20C	<b>PCTEST</b> Proud to be part of element	<b>MEASUREMENT REPORT</b>	Approved by: Quality Manager
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Plot 7-7. Band Edge Plot (Bluetooth (LE), 1Mbps, Ch. 0)



Plot 7-8. Band Edge Plot (Bluetooth (LE), 1Mbps, Ch. 39)

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## 7.6 Conducted Spurious Emissions §15.247(d)

### Test Overview and Limit

For the following out of band conducted spurious emissions plots, the EUT was set to transmit at maximum power with the largest packet size available. The worst case spurious emissions were found in this configuration.

***The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 8.5 of KDB 558074 D01 v05r02 and Section 11.11.3 of ANSI C63.10-2013.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3  
KDB 558074 D01 v05r02 – Section 8.5

### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.




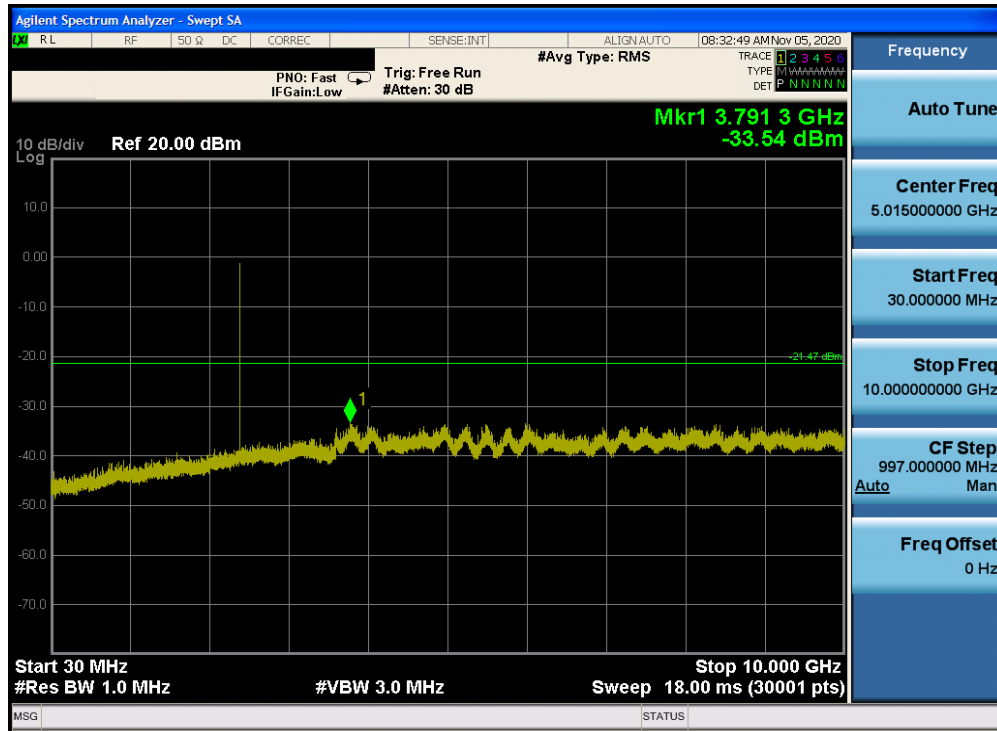
**Figure 7-5. Test Instrument & Measurement Setup**

FCC ID: 2ARVX-PT20C	<b>PCTEST</b> Proud to be part of element	<b>MEASUREMENT REPORT</b>		Approved by: Quality Manager
Test Report S/N: 1C2011060079-02-R1.2ARVX	Test Dates: 10/30/2020-11/5/2020	EUT Type: Posture Tracker Wireless Charger		Page 25 of 47

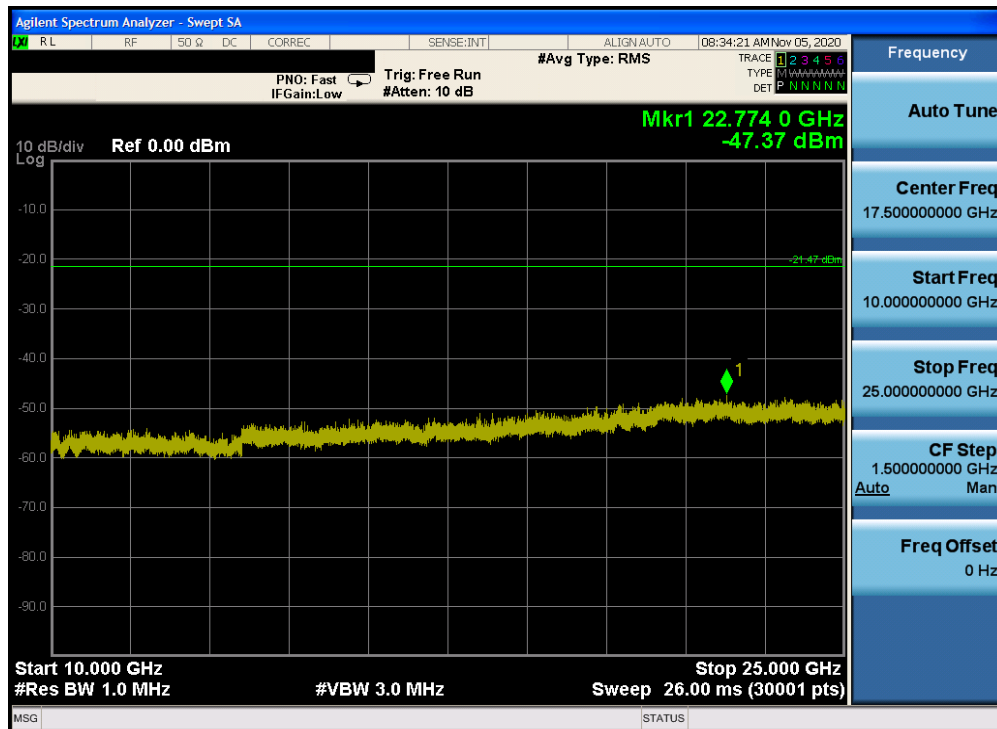
## Test Notes

1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

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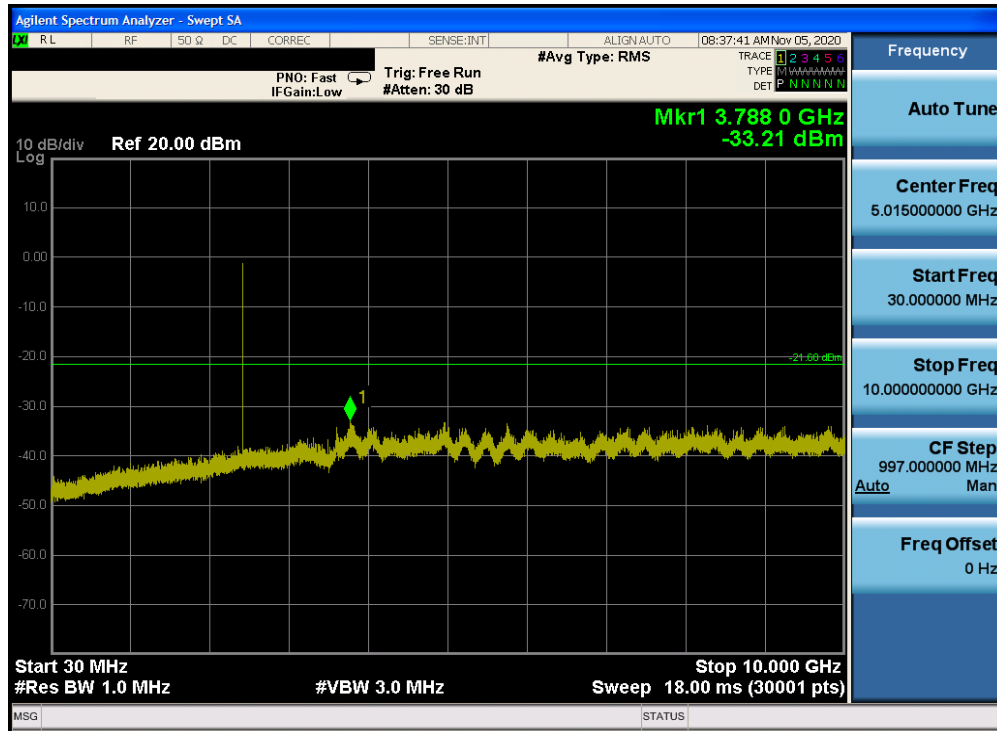


Plot 7-9. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, Ch. 0)

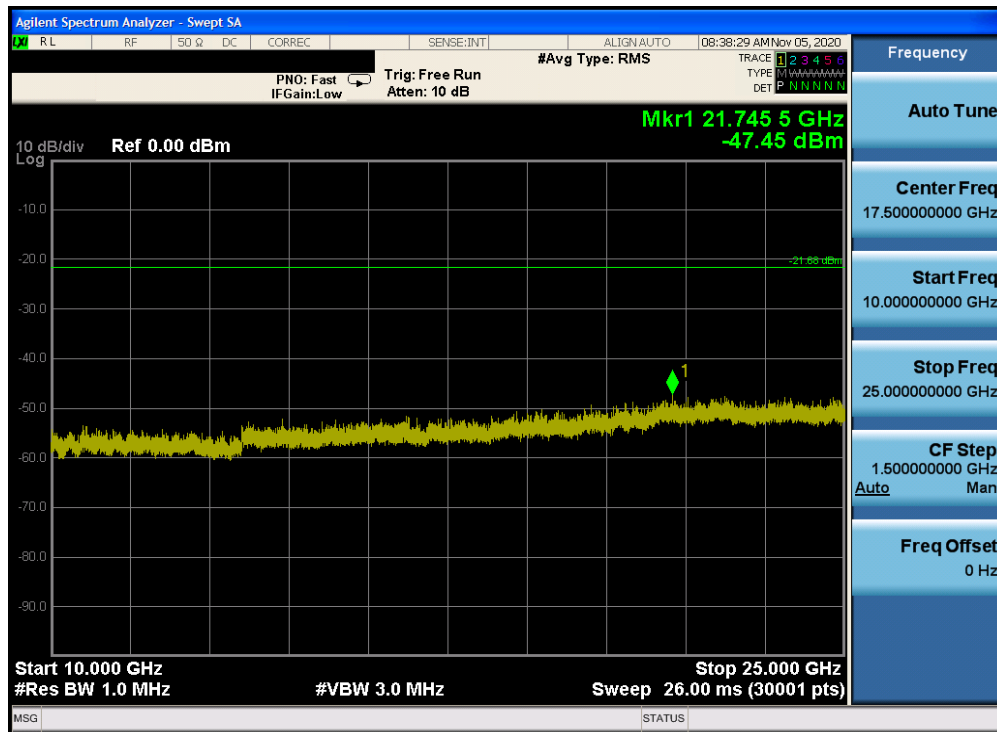


Plot 7-10. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, Ch. 0)

FCC ID: 2ARVX-PT20C	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT	Approved by: Quality Manager
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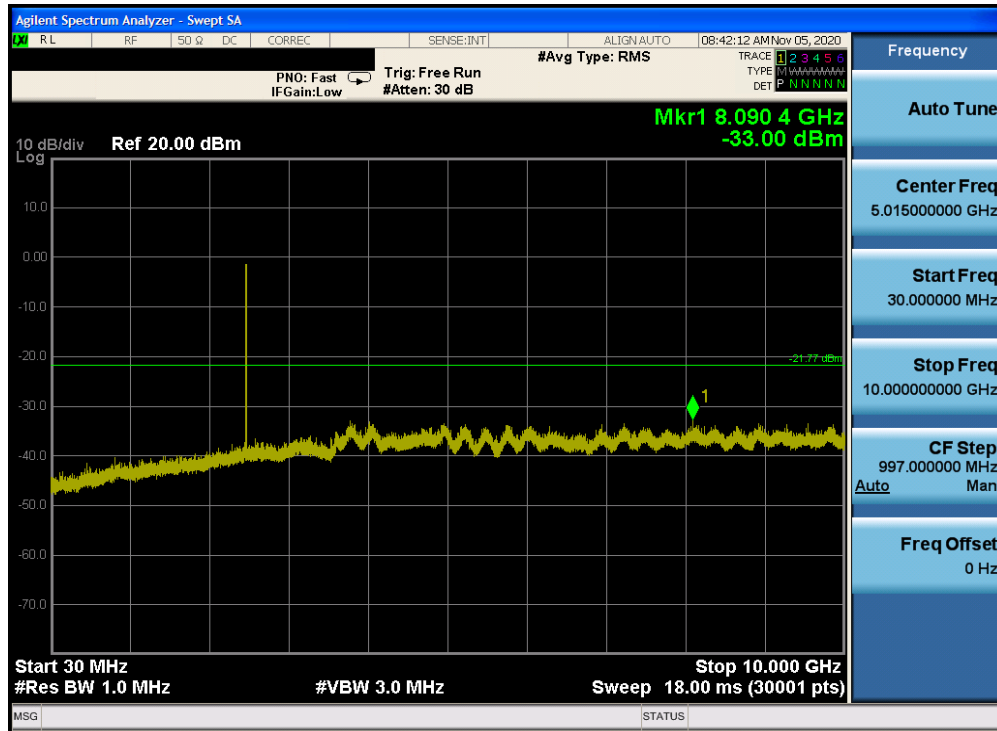


Plot 7-11. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, Ch. 19)

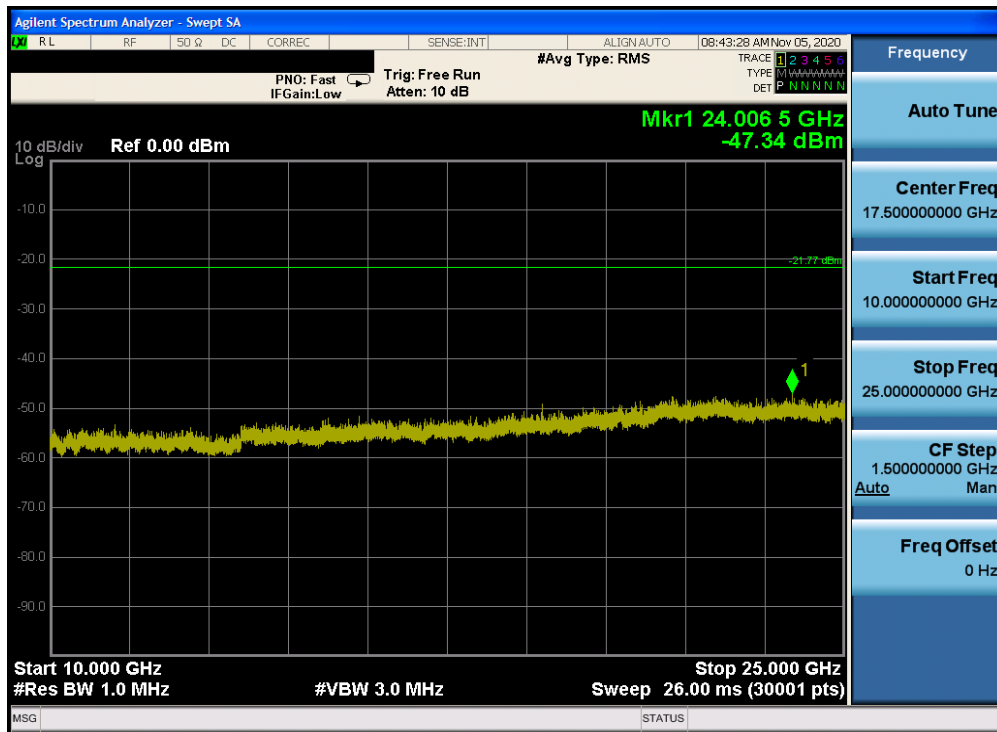


Plot 7-12. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, Ch. 19)

FCC ID: 2ARVX-PT20C	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-13. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, Ch. 39)



Plot 7-14. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, Ch. 39)

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## 7.7 Radiated Spurious Emission – Above 1GHz

§15.205 §15.209 §15.247(d)

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 7-6 per Section 15.209.***

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

**Table 7-6. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3

KDB 558074 D01 v05r02 – Section 8.6, 8.7


### Test Settings

#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span/RBW}$ )
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

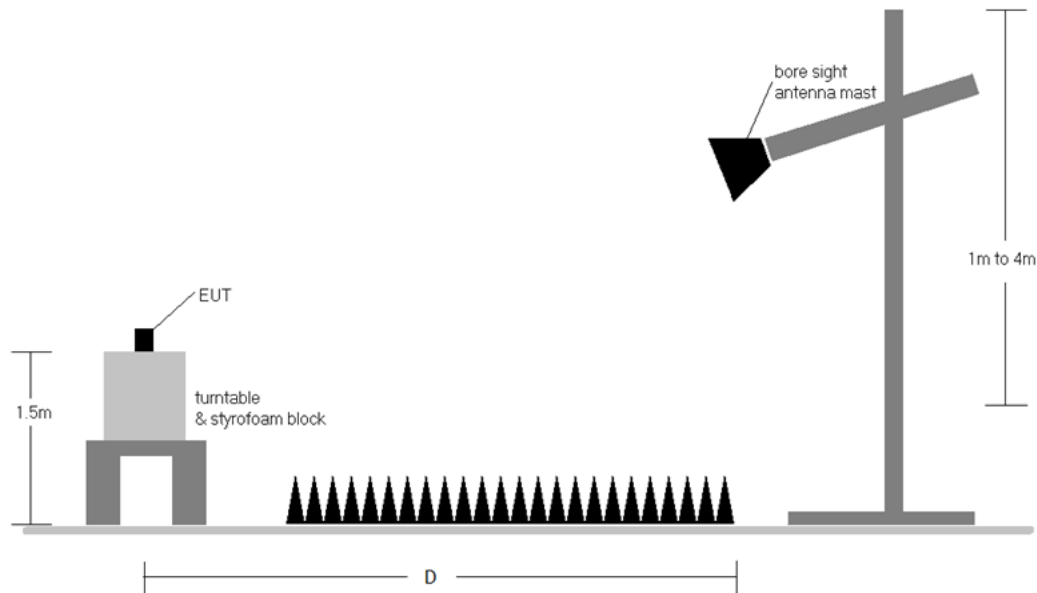
#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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## Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-6. Radiated Test Setup >1GHz**

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<b>Test Report S/N:</b> 1C2011060079-02-R1.2ARVX	<b>Test Dates:</b> 10/30/2020-11/5/2020	<b>EUT Type:</b> Posture Tracker Wireless Charger	Page 31 of 47

## Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-6.
3. The antenna is manipulated through typical positions, polarity and height during the tests. The EUT is manipulated through two orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. Emissions below 18GHz were measured at a 3 meter test distance ( $D = 3$ ) while emissions above 18GHz were measured at a 1 meter test distance ( $D = 1$ ) with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. Emissions with both BLE and WPT transmitting simultaneously were tested and can be referred to in Part 18 report (1C2011060079-03-R1.2ARVX)


## Sample Calculations

### Determining Spurious Emissions Levels

- Field Strength Level  $[\text{dB}\mu\text{V/m}] = \text{Analyzer Level} [\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- $\text{AFCL} [\text{dB/m}] = \text{Antenna Factor} [\text{dB/m}] + \text{Cable Loss} [\text{dB}] + \text{Preamplifier Gain} [\text{dB}] + \text{DCCF} [\text{dB}]$   
DCCF is applied only to average measurements.
- $\text{Margin} [\text{dB}] = \text{Field Strength Level} [\text{dB}\mu\text{V/m}] - \text{Limit} [\text{dB}\mu\text{V/m}]$

### Radiated Band Edge Measurement Offset

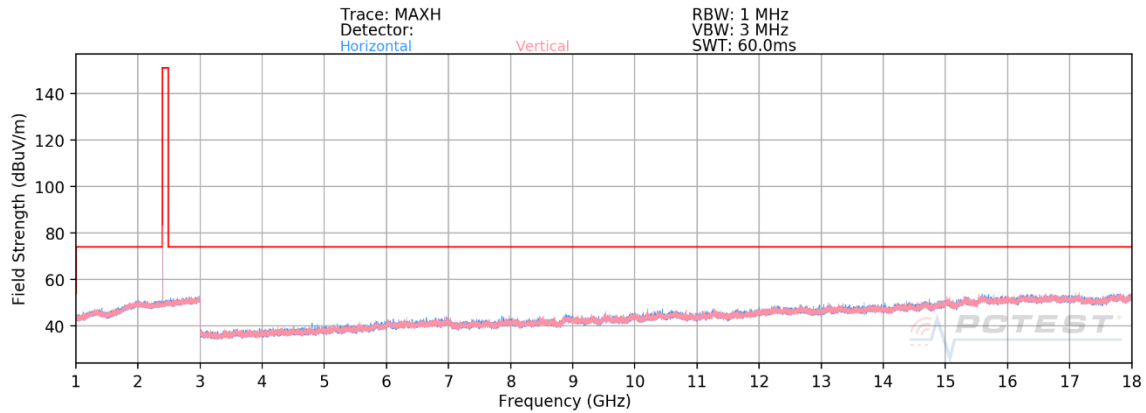
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.2 was calculated using the formula:  
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain + DCCF  
DCCF is applied only to average measurements.

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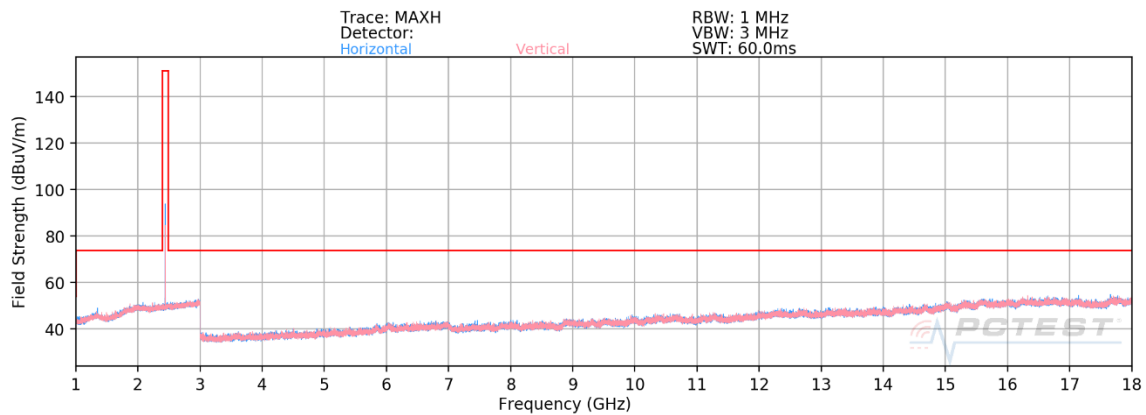


## Radiated Spurious Emissions – Above 1GHz

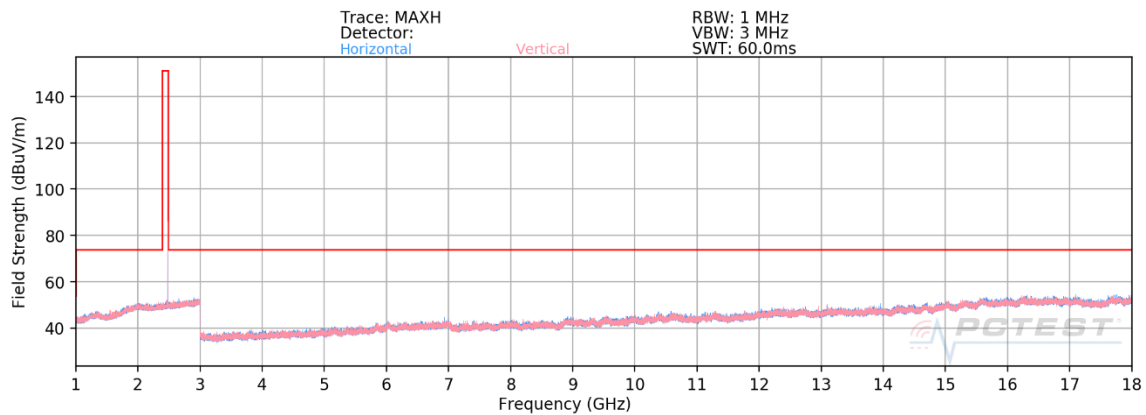
§15.205 §15.209 §15.247(d)



**Plot 7-15. Radiated Spurious Emissions 1-18GHz (1Mbps, Ch. 0)**



**Plot 7-16. Radiated Spurious Emissions 1-18GHz (1Mbps, Ch. 19)**

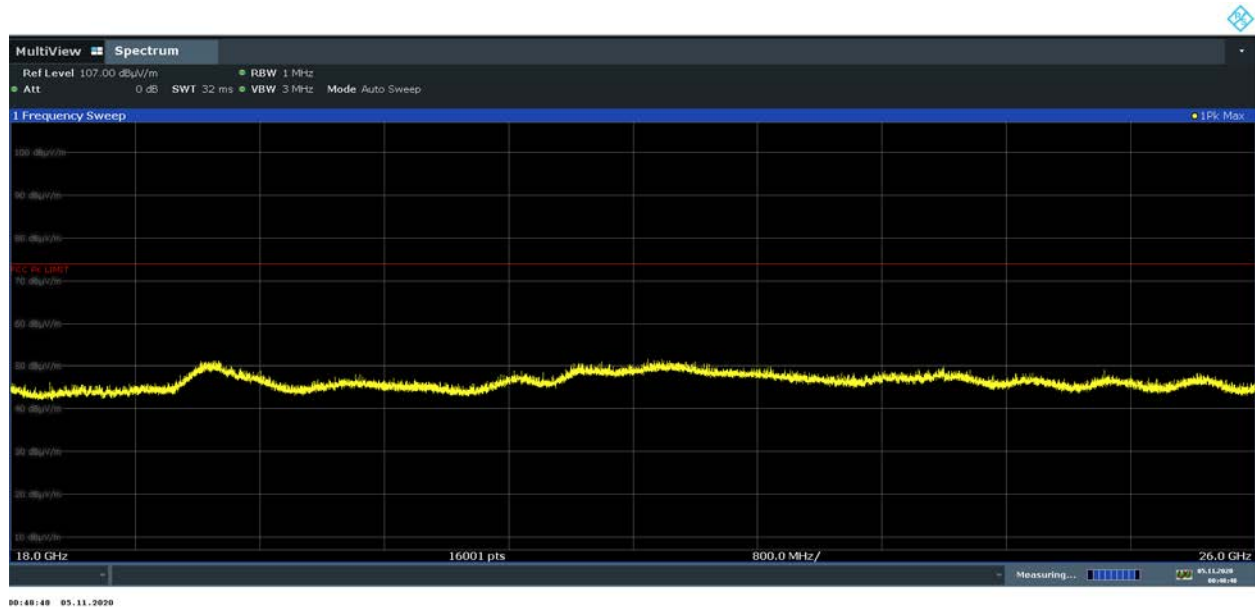


**Plot 7-17. Radiated Spurious Emissions 1-18GHz (1Mbps Ch. 39)**

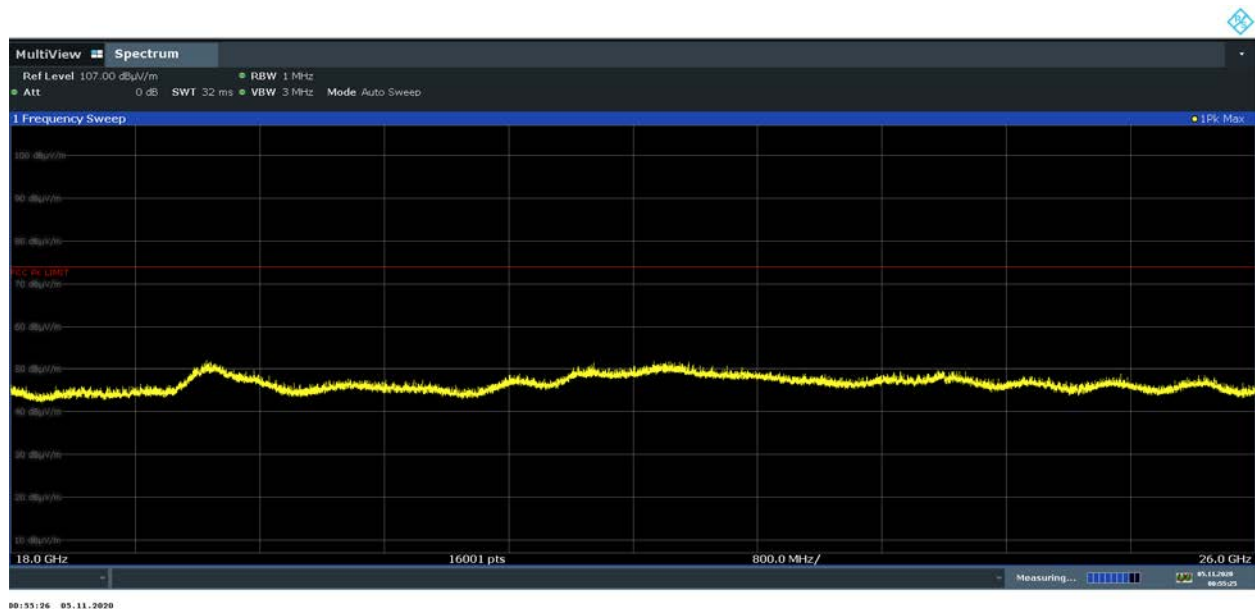
FCC ID: 2ARVX-PT20C	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT	Approved by: Quality Manager
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## Radiated Spurious Emissions – Above 18GHz

§15.205 §15.209 §15.247(d)



Plot 7-18. Radiated Spurious Plot Above 18GHz (1Mbps, Ch. 19, Pol. H)



Plot 7-19. Radiated Spurious Plot Above 18GHz (1Mbps, Ch.19, Pol. V)

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### 7.7.1 Radiated Spurious Emission Measurements

§15.205 §15.209 §15.247(d)

Bluetooth Mode: LE  
Data Rate: 1Mbps  
Distance of Measurements: 3 Meters  
Operating Frequency: 2402MHz  
Channel: 0


Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	DCCF [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4804.00	Avg	V	191	121	-80.51	8.01	1.96	36.46	53.98	-17.52
4804.00	Peak	V	191	121	-68.91	8.01	--	46.10	73.98	-27.88
12010.00	Avg	V	-	-	-82.76	15.41	1.96	41.61	53.98	-12.37
12010.00	Peak	V	-	-	-70.52	15.41	--	51.89	73.98	-22.09

**Table 7-7. Radiated Spurious Emission Measurements**

Bluetooth Mode: LE  
Data Rate: 1Mbps  
Distance of Measurements: 3 Meters  
Operating Frequency: 2440MHz  
Channel: 19

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	DCCF [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4880.00	Avg	V	101	185	-78.83	8.13	1.96	38.26	53.98	-15.72
4880.00	Peak	V	101	185	-68.28	8.13	--	46.85	73.98	-27.13
7320.00	Avg	V	-	-	-82.09	10.72	1.96	37.59	53.98	-16.39
7320.00	Peak	V	-	-	-69.47	10.72	--	48.25	73.98	-25.73
12200.00	Avg	V	-	-	-82.54	15.48	1.96	41.90	53.98	-12.08
12200.00	Peak	V	-	-	-70.44	15.48	--	52.04	73.98	-21.94

**Table 7-8. Radiated Spurious Emission Measurements**


FCC ID: 2ARVX-PT20C	 <b>MEASUREMENT REPORT</b>	Approved by: Quality Manager
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Bluetooth Mode: LE  
Data Rate: 1Mbps  
Distance of Measurements: 3 Meters  
Operating Frequency: 2480MHz  
Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	DCCF [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	V	117	182	-80.14	9.20	1.96	38.02	53.98	-15.96
4960.00	Peak	V	117	182	-69.40	9.20	--	46.80	73.98	-27.18
7440.00	Avg	V	-	-	-82.98	12.04	1.96	38.02	53.98	-15.96
7440.00	Peak	V	-	-	-70.25	12.04	--	48.79	73.98	-25.19
12400.00	Avg	V	-	-	-82.44	15.87	1.96	42.39	53.98	-11.59
12400.00	Peak	V	-	-	-70.19	15.87	--	52.68	73.98	-21.30

**Table 7-9. Radiated Spurious Emission Measurements**

$$DCCF = 10 \cdot \log(1/DC) = 10 \cdot \log(1/0.636) = 1.96\text{dB}$$

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## 7.7.2 Radiated Restricted Band Edge Measurements

### §15.205 §15.209

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Average Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain} + \text{DCCF}$$

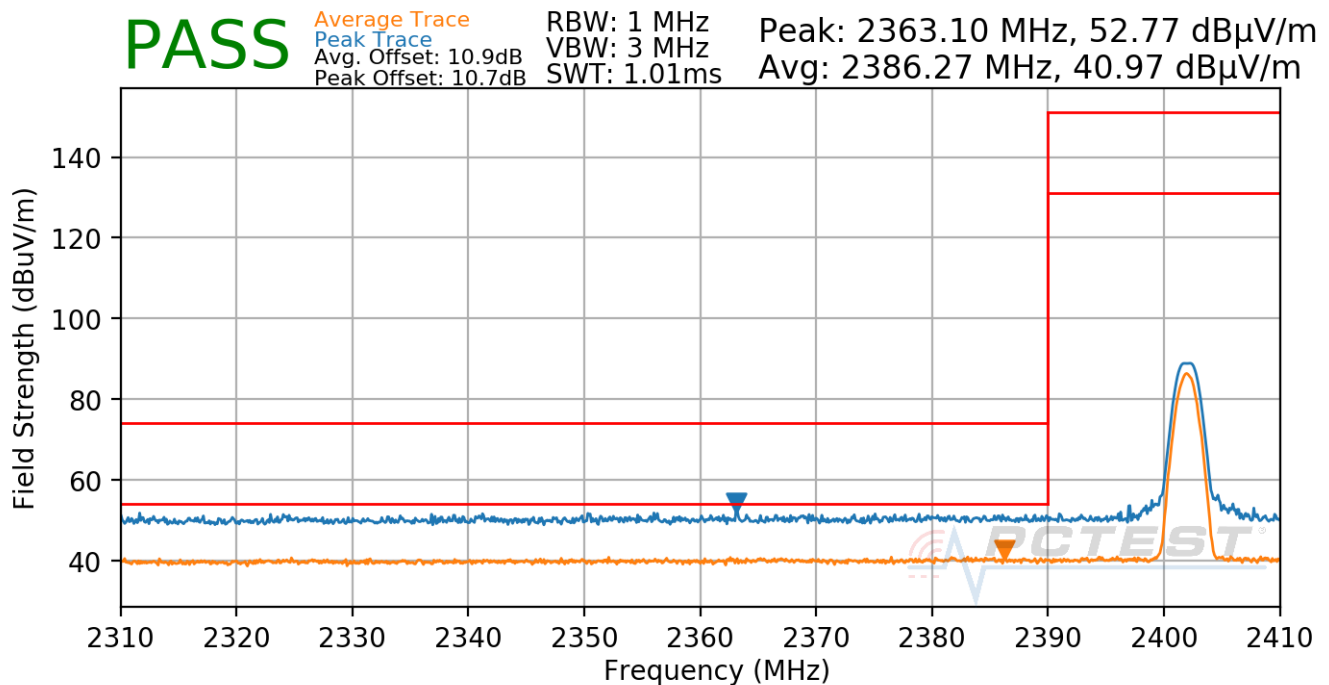
Bluetooth Mode: LE

Data Rate: 1Mbps

Measurement Distance: 3 Meters

Operating Frequency: 2402MHz

Channel: 0



**Plot 7-20. Radiated Restricted Lower Band Edge Measurement**

$$\text{DCCF} = 10 \cdot \log(1/\text{DC}) = 10 \cdot \log(1/0.636) = 1.96\text{dB}$$

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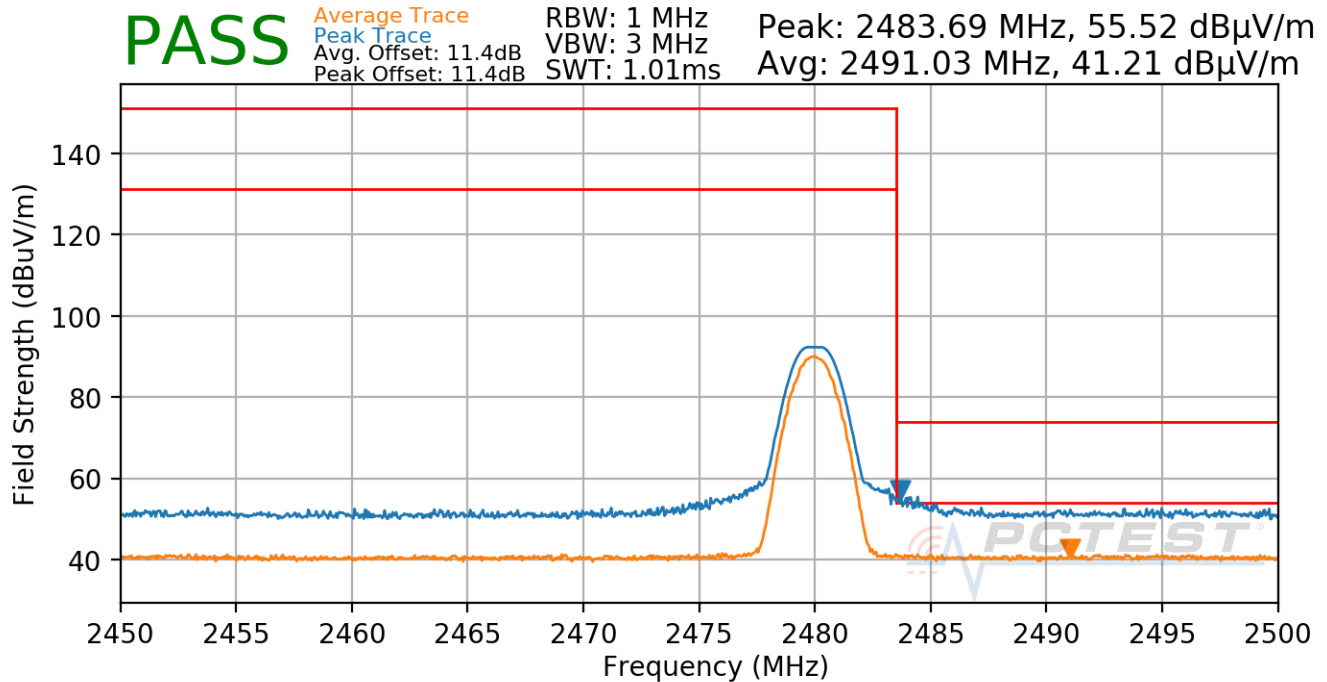
Bluetooth Mode: LE

Data Rate: 1Mbps

Measurement Distance: 3 Meters

Operating Frequency: 2480MHz

Channel: 39



**Plot 7-21. Radiated Restricted Upper Band Edge Measurement**

$$DCCF = 10 \cdot \log(1/DC) = 10 \cdot \log(1/0.636) = 1.96\text{dB}$$

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## 7.8 Radiated Spurious Emissions – Below 1GHz

### §15.209

#### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 7-10 per Section 15.209.***

Frequency	Field Strength [ $\mu$ V/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

**Table 7-10. Radiated Limits**

#### Test Procedures Used

ANSI C63.10-2013


#### Test Settings

##### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

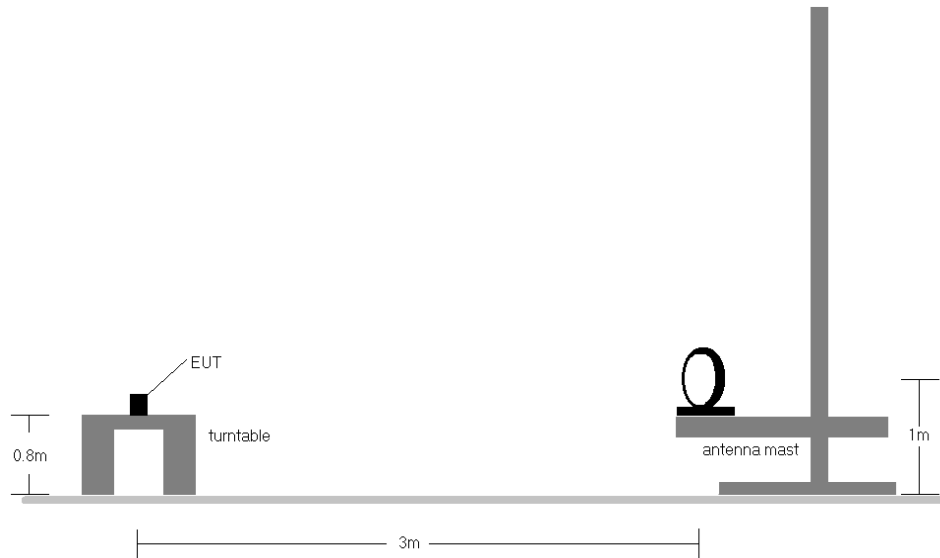
##### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

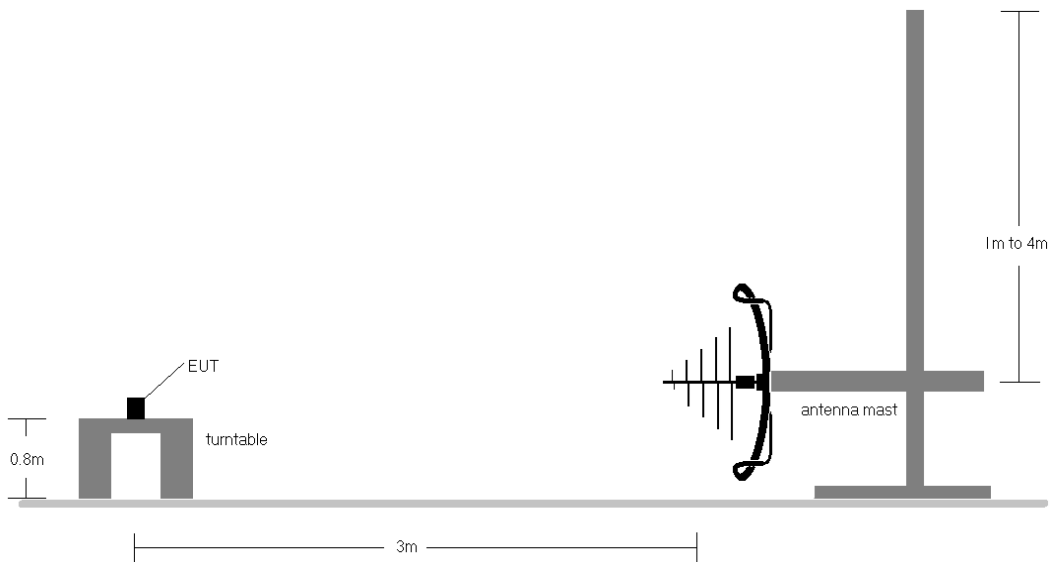
<b>FCC ID:</b> 2ARVX-PT20C	 <b>MEASUREMENT REPORT</b>	<b>Approved by:</b> Quality Manager
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## Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.



**Figure 7-7. Radiated Test Setup < 30Mhz**



**Figure 7-8. Radiated Test Setup < 1GHz**

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## Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-10.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through two orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the worst channel, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
9. EUT powered by AC/DC adapter via USB-C cable with wired charger.
10. Emissions with both BLE and WPT transmitting simultaneously were tested and can be referred to in Part 18 report (1C2011060079-03-R1.2ARVX)

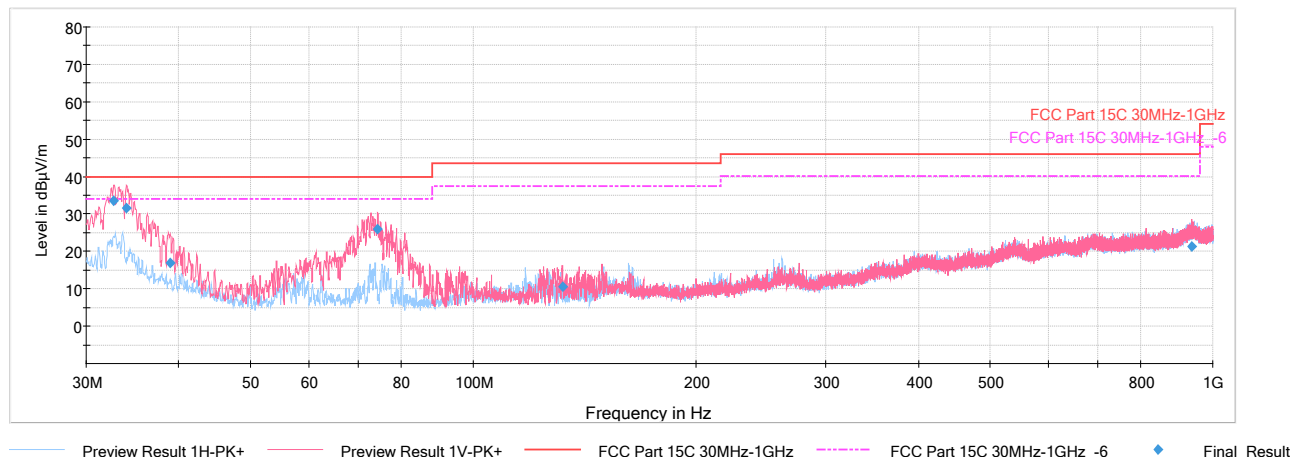
## Sample Calculation

- Field Strength Level  $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamplifier Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

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## Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209



**Plot 7-22. Radiated Spurious Emissions 30MHz-1GHz (1Mbps, Ch.19, Pol. with AC/DC Adapter)**

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
32.72	Quasi-Peak	V	100	87	-60.35	-13.05	33.60	40.00	-6.40
34.03	Quasi-Peak	V	100	0	-61.73	-13.81	31.46	40.00	-8.54
38.92	Quasi-Peak	V	100	308	-73.51	-16.52	16.97	40.00	-23.03
74.33	Quasi-Peak	V	100	225	-60.29	-20.70	26.01	40.00	-13.99
132.04	Quasi-Peak	V	250	0	-77.10	-19.30	10.60	43.52	-32.92
936.71	Quasi-Peak	V	250	0	-85.72	0.06	21.34	46.02	-24.68

**Table 7-11. Radiated Spurious Emissions 30MHz-1GHz (1Mbps, Ch.19, with AC/DC Adapter)**

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## 7.9 AC Line-Conducted Emissions Measurement

### §15.207

#### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

***All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.***

Frequency of emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

**Table 7-12. Conducted Limits**

\*Decreases with the logarithm of the frequency.

#### Test Procedures Used

ANSI C63.10-2013, Section 6.2


#### Test Settings

##### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

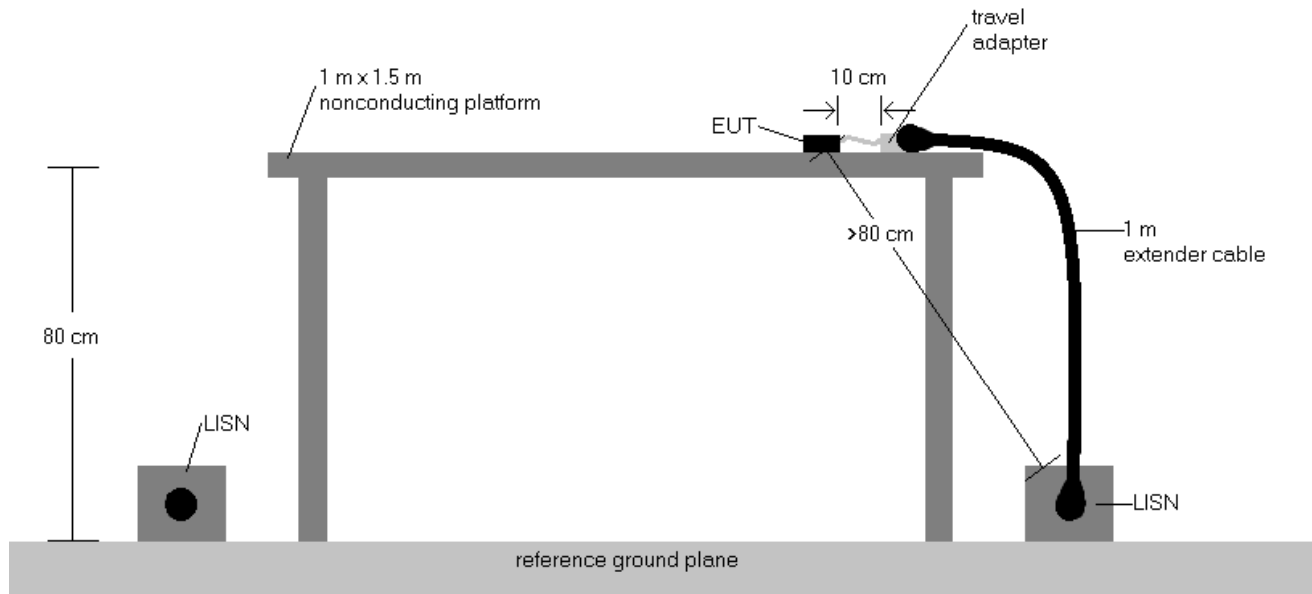
##### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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## Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

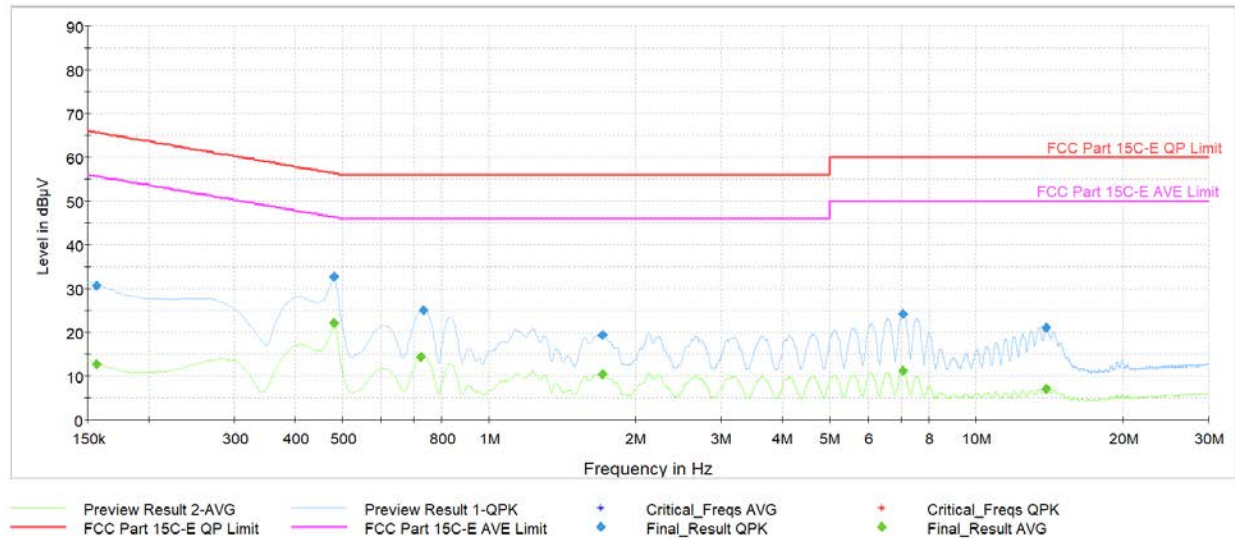


**Figure 7-9. AC Line Conducted Emissions Test Setup**

## Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207.
3.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5.  $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
6. Traces shown in plot are made using quasi-peak and average detectors.
7. Deviations to the Specifications: None.
8. EUT powered by AC/DC adapter via USB-C cable with wired charger.
9. Emissions with both BLE and WPT transmitting simultaneously were tested and can be referred to in Part 18 report (1C2011060079-03-R1.2ARVX)

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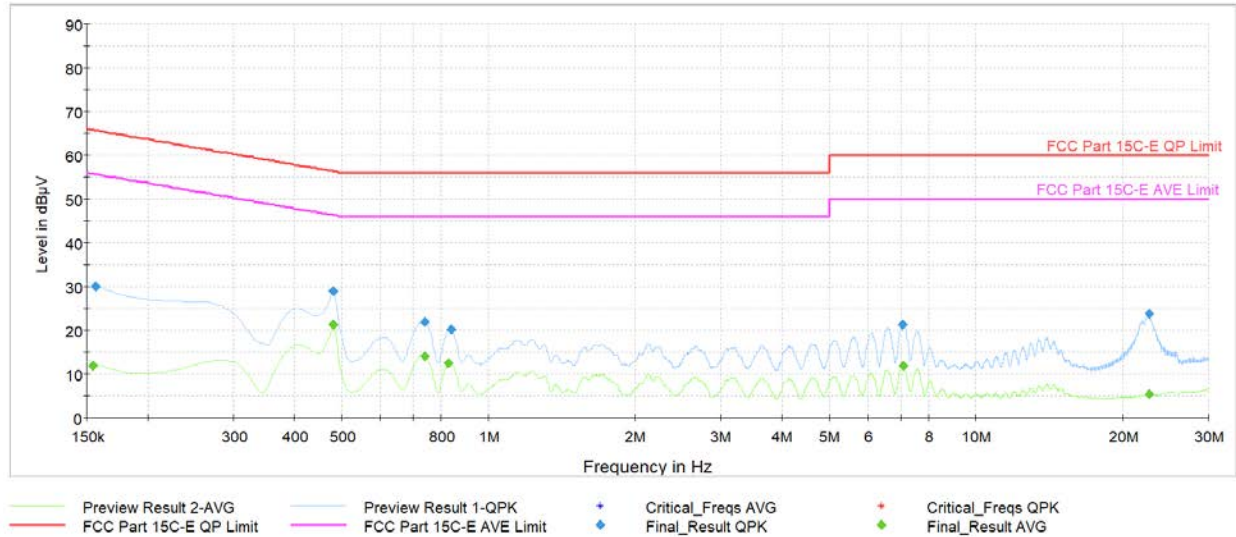


**Plot 7-23. AC Line Conducted Plot with Bluetooth LE (L1 - 1Mbps, Ch.19, with AC/DC adapter)**

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.157	FINAL	30.7	---	65.63	-34.92	L1	GND
0.157	FINAL	---	12.61	55.63	-43.02	L1	GND
0.481	FINAL	32.7	---	56.33	-23.67	L1	GND
0.481	FINAL	---	22.08	46.33	-24.25	L1	GND
0.724	FINAL	---	14.27	46.00	-31.73	L1	GND
0.733	FINAL	25.1	---	56.00	-30.93	L1	GND
1.707	FINAL	---	10.43	46.00	-35.57	L1	GND
1.707	FINAL	19.3	---	56.00	-36.70	L1	GND
7.055	FINAL	---	11.18	50.00	-38.82	L1	GND
7.055	FINAL	24.1	---	60.00	-35.91	L1	GND
13.900	FINAL	21.0	---	60.00	-39.05	L1	GND
13.929	FINAL	---	6.99	50.00	-43.01	L1	GND

**Table 7-13. AC Line Conducted Data with Bluetooth LE (L1 - 1Mbps, Ch.19, with AC/DC adapter)**

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**Plot 7-24. AC Line Conducted Plot with Bluetooth LE (N - 1Mbps, Ch.19, with AC/DC adapter)**


Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.155	FINAL	---	11.97	55.75	-43.78	N	GND
0.157	FINAL	30.0	---	65.63	-35.59	N	GND
0.481	FINAL	28.9	---	56.33	-27.39	N	GND
0.481	FINAL	---	21.18	46.33	-25.15	N	GND
0.740	FINAL	21.9	---	56.00	-34.12	N	GND
0.740	FINAL	---	14.10	46.00	-31.90	N	GND
0.827	FINAL	---	12.59	46.00	-33.41	N	GND
0.839	FINAL	20.2	---	56.00	-35.80	N	GND
7.060	FINAL	21.2	---	60.00	-38.84	N	GND
7.087	FINAL	---	11.88	50.00	-38.12	N	GND
22.616	FINAL	23.7	---	60.00	-36.27	N	GND
22.623	FINAL	---	5.32	50.00	-44.68	N	GND

**Table 7-14. AC Line Conducted Data with Bluetooth LE (N - 1Mbps, Ch.19, with AC/DC adapter)**

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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Gokhale Posture Tracker Wireless Charger** **FCC ID: 2ARVX-PT20C** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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