



# PCTEST ENGINEERING LABORATORY, INC.

18855 Adams Court, Morgan Hill, CA 95037 USA

Tel. 410.290.6652 / Fax 410.290.6654

http://www.pctest.com



## MEASUREMENT REPORT FCC PART 15.249 / ISED RSS-210 900MHz ISM

**Applicant Name:**

PRIMETECH CORPORATION  
2nd Floor Koishikawa Daikoku Bldg.  
1-3-25, Koishikawa Bunkyo-ku,  
Yokyo 112-0002 Japan

**Date of Testing:**

2/15/2019-5/17/2019

**Test Site/Location:**

PCTEST Lab. Morgan Hill, CA, USA

**Test Report Serial No.:**

1M1901240013-01-R3

**FCC ID:**

**2ACHI310R**

**IC:**

**24730-SMP310R2019**

**APPLICANT:**

**PRIMETECH CORPORATION**

**Application Type:**

Certification

**Model/HVIN:**

SMP-310R

**EUT Type:**

Micro Infusion Pump

**Frequency Range:**

916.2 – 926.1MHz

**FCC Classification:**

Low Power Communication Device Transmitter (DXX)

**FCC Rule Part(s):**

Part 15 Subpart C (15.249)

**ISED Specification:**

RSS-210 Issue 9

**Test Procedure(s):**

ANSI C63.10-2013

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. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M1901240013-01-R3) supersedes and replaces the previously issued test report (S/N: 1M1901240013-01-R2) 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 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 Engineering Laboratory, Inc. 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 v01.

### 1.3 Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab 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 and ISED Standards (RSS).
- PCTEST facility is a registered (22831) test laboratory with the site description on file with ISED.

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## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **PRIMETECH Micro Infusion Pump** FCC ID: **2AChi310R**. The data found in this test report pertains only to the emissions due to the EUT's 900MHz ISM transmitter.

**Test Device Serial No.:** 910001, 910016, 910017

### 2.2 Device Capabilities

This device contains the following capabilities:

The EUT transmits in the 900MHz ISM

Channel	Frequency [MHz]
Low	916.2
Mid	923.1
High	926.1

**Table 2-1. Frequency / Channel Operations**

### 2.3 Antenna Description

Following antenna was used for the testing.

Frequency [MHz]	Antenna Gain [dBi]
916.2 – 926.1	4.2

**Table 2-2. Antenna Gain**

### 2.4 Test Support Equipment

N/A

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## 2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2013. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing. See Section 3.2 for radiated emissions test setups.

The EUT is battery powered and configured to transmit at low, mid and high channels.

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

## 2.6 Software and Firmware

The test was conducted with firmware version V0.21 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) was used in the measurement of the EUT.

**Deviation from measurement procedure.....**None

### 3.2 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.

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.

### 3.3 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  $U_{CISPR}$  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	1.29
Line Conducted Disturbance	2.48
Radiated Disturbance (<1GHz)	4.15
Radiated Disturbance (>1GHz)	4.70
Radiated Disturbance (>18GHz)	5.01

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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
Keysight Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	2/27/2018	Annual	2/27/2019	MY49430244
Rohde & Schwarz	ESW26	EMI Test Receiver	7/19/2018	Annual	7/19/2019	101299
Rohde & Schwarz	ESW44	EMI Test Receiver	11/20/2018	Annual	11/20/2019	101570
Rohde & Schwarz	SFUNIT-RX	Shielded Filter Unit	7/5/2018	Annual	7/5/2019	102137
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	1/7/2019	Annual	1/7/2020	102325
Rohde & Schwarz	HL562E	Ultra Broadband Antenna (30MHz - 6GHz)	6/8/2018	Annual	6/8/2019	100810
Rohde & Schwarz	TC-TA18	Cross Polarized Vivaldi Antenna (400MHz-18GHz)	11/21/2018	Annual	11/21/2019	101057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	3/13/2018	Annual	3/13/2019	100519

**Table 6-1. Annual Test Equipment Calibration Schedule**

**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: PRIMETECH CORPORATION

FCC ID: 2ACHI310R

FCC Classification: Low Power Communication Device Transmitter (DXX)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A	CONDUCTED	PASS	Section 7.2
15.249(a)	RSS-210 [B.10(a)]	Fundamental Field Strength Level	< 50 mV/m		PASS	Sections 7.3
15.249(d)	RSS-210 [B.10(b)]	Harmonic Field Strength Level	< 500 $\mu$ V/m	RADIATED	PASS	Sections 7.4
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Sections 7.4
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen[8.8])	LINE CONDUCTED	N/A	N/A

**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. The end product is battery powered. AC line conducted emissions test is not applicable.

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## 7.2 Occupied Bandwidth Measurement

§2.1049; RSS-Gen [6.7]

### Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured

### Test Procedure Used

ANSI C63.10-2013 – Section 6.9.2

### Test Settings

1. RBW = 1 – 5% OBW
2. VBW  $\geq$  3 x RBW
3. Detector = Peak
4. Trace mode = max hold
5. Sweep = auto couple
6. 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

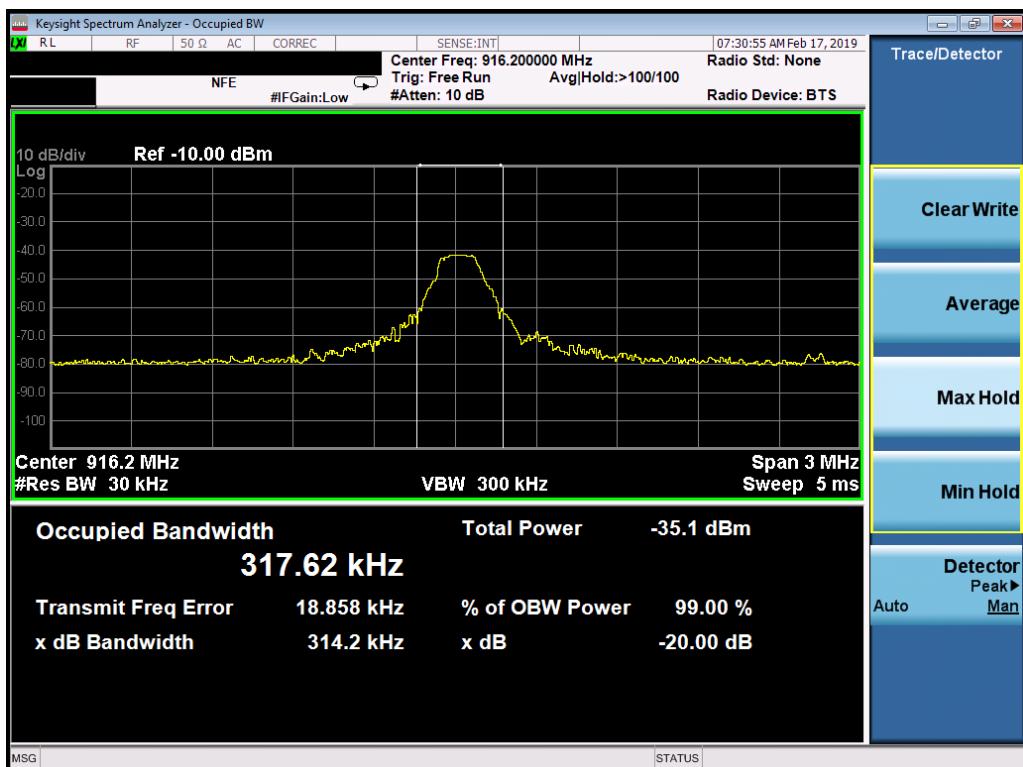
None

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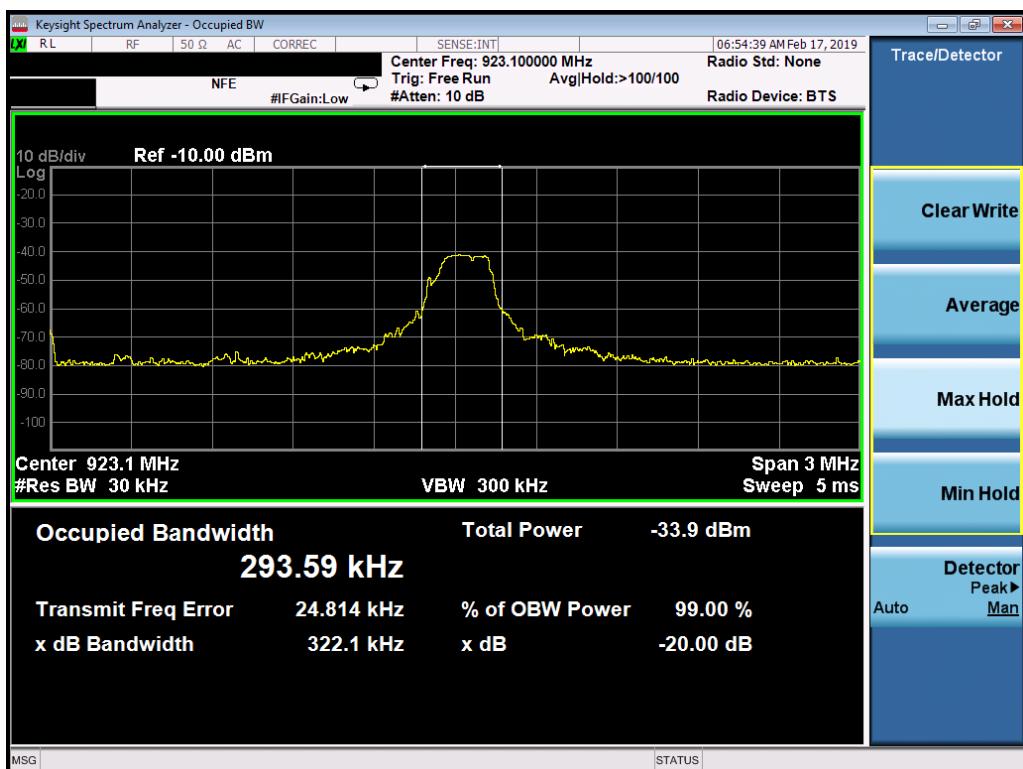
Frequency [MHz]	Channel No.	20dB Bandwidth [kHz]	99% Measured Occupied Bandwidth [kHz]
916.2	Low	314.20	317.62
923.1	Mid	322.10	293.59
926.1	High	333.20	302.60

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

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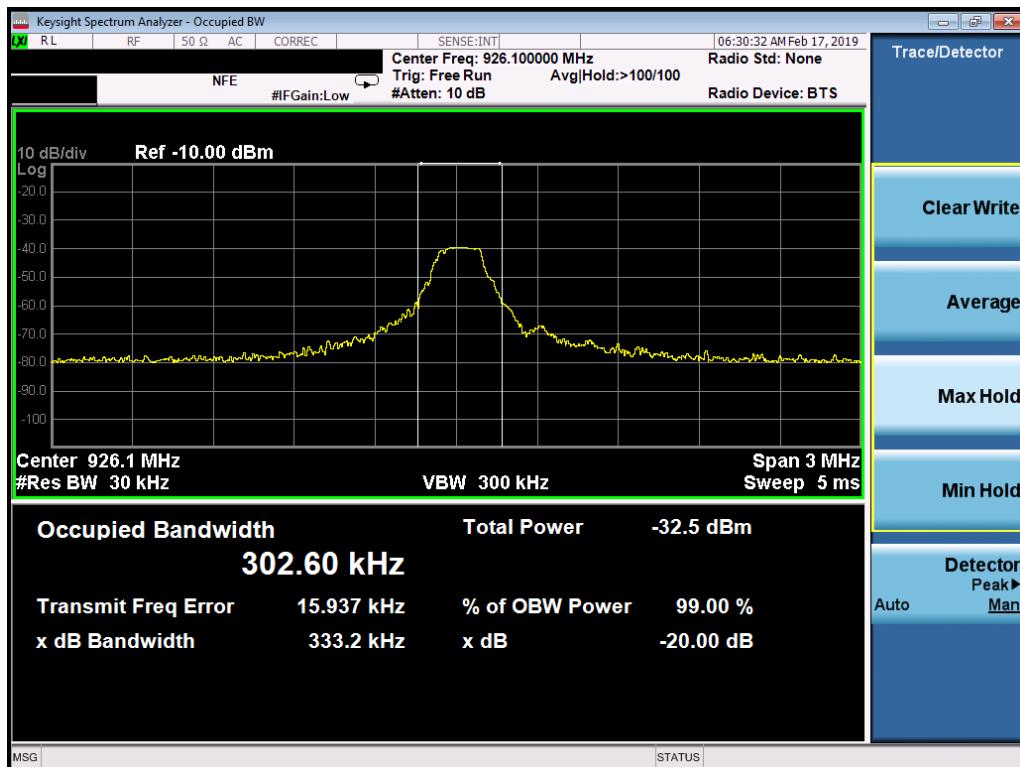


Plot 7-1. Occupied Bandwidth Plot (Low Ch, 916.2MHz)



Plot 7-2. Occupied Bandwidth Plot (Mid Ch, 923.1MHz)

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Plot 7-3. Occupied Bandwidth Plot (High Ch, 926.1MHz)

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## 7.3 Fundamental Field Strength Level Measurement

§15.249(a)(e) §15.209; RSS-210 [B.10(a)]

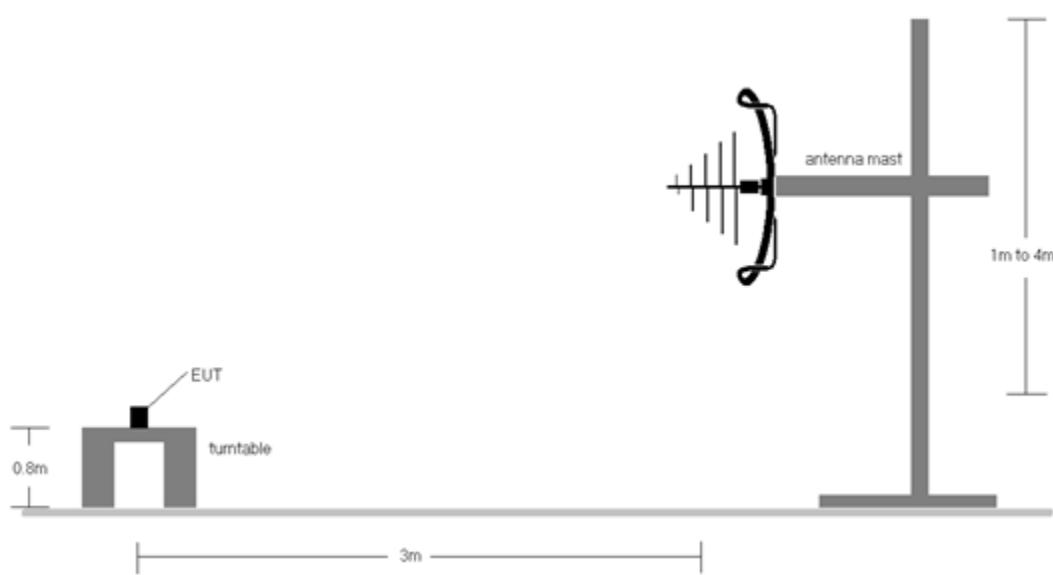
### Test Overview and Limits

The measurements are made while the EUT is operating in continuous transmission mode. The field strength shown below were measured using a spectrum analyzer. Peak field strength measurements are performed in the analyzer's swept spectrum mode using a peak detector. The receiving antenna was at 3-meter distance away from the EUT.

***The maximum permissible quasi-peak field strength level is 50mV/m (93.98dB<sub>μ</sub>V/m)***

### 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

#### Sample Calculations

##### Determining Field Strength Levels

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

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Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
916.20	Peak	H	162	338	-37.96	-3.98	65.06	93.98	-28.92
923.10	Peak	H	158	338	-36.38	-4.11	66.51	93.98	-27.47
926.10	Peak	H	165	356	-37.01	-4.11	65.88	93.98	-28.10

**Table 7-3. Field Strength Measurements**

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## 7.4 Radiated Spurious Emission Measurements

§15.205 §15.209 §15.249(a)(d)(e); RSS-210 [B.10], RSS-Gen [8.9]

### 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.

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 7-4. 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

#### 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 = 3kHz > 1/T
4. Averaging type was set to RMS to ensure that video filtering was applied in the power domain
5. Detector = peak
6. Sweep time = auto
7. Trace mode = max hold
8. Trace was allowed to run for at least 50 times (1/duty cycle) traces

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## Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW is set depending on measurement frequency, as specified in Table 7-5 below
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Frequency	RBW
9 – 150kHz	200 – 300Hz
0.15 – 30MHz	9 – 10kHz
30 – 1000MHz	100 – 120kHz
> 1000MHz	1MHz

Table 7-5. RBW as a Function of Frequency

## Test Setup

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

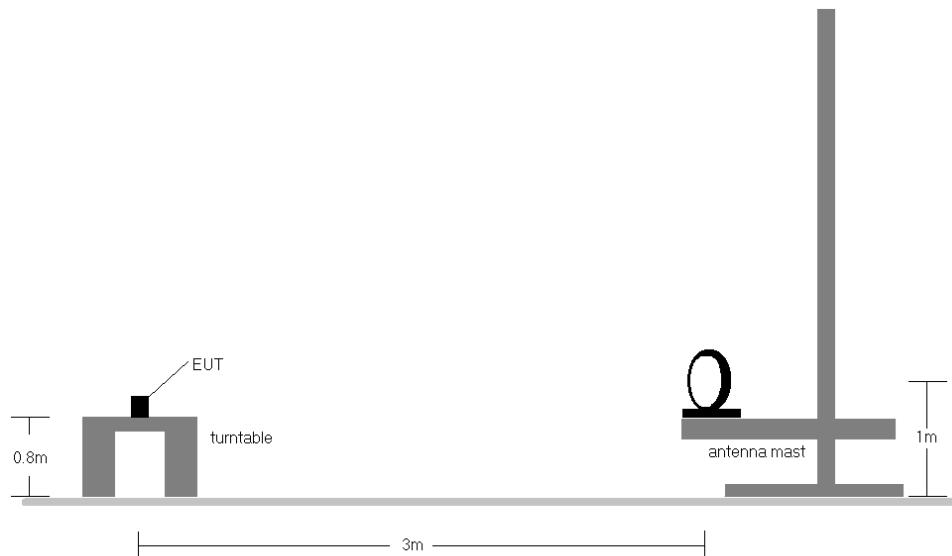
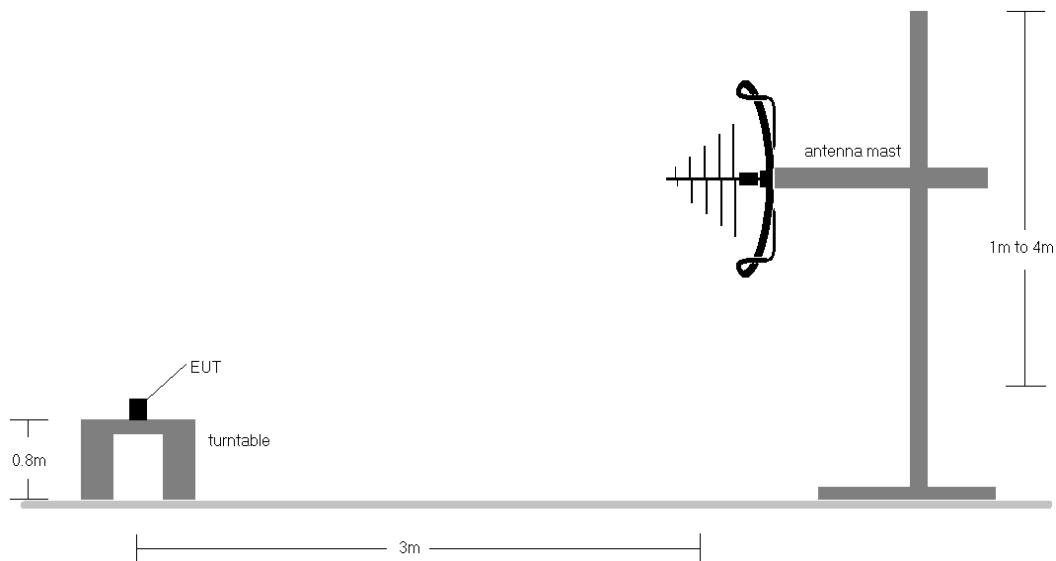
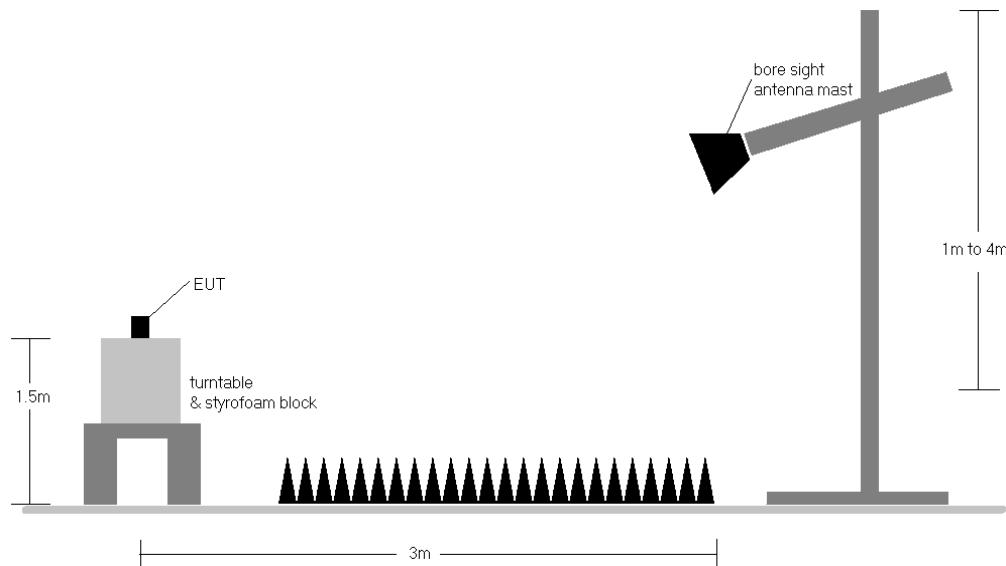


Figure 7-3. Radiated Test Setup < 30MHz

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**Figure 7-4. Radiated Test Setup < 1GHz**



**Figure 7-5. Radiated Test Setup >1GHz**

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## Test Notes

1. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-4.
2. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
3. The unit was tested with its standard battery.
4. 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. 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. No spurious emissions were detected within 20dB of the limit below 30MHz.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

## Sample Calculations

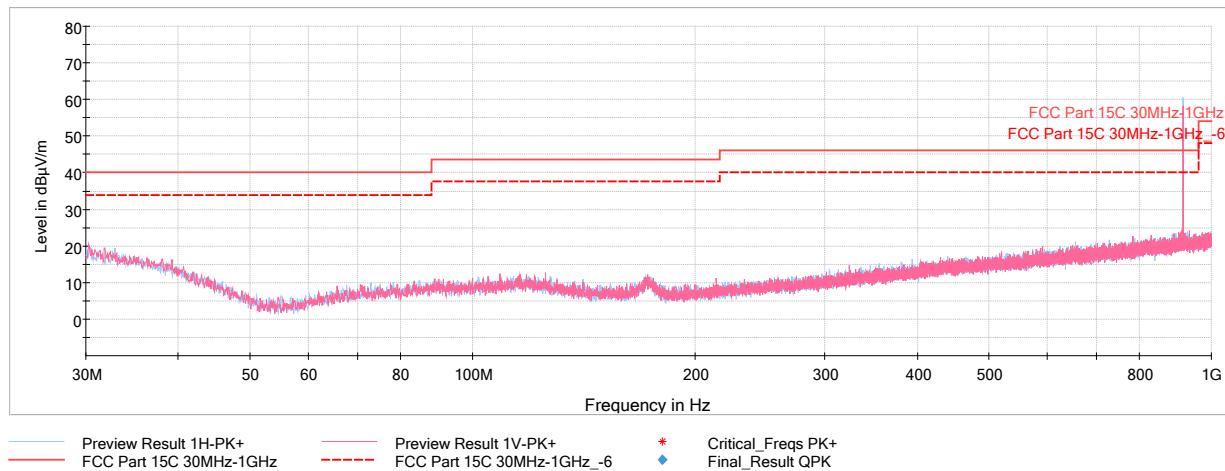
### Determining Spurious Emissions Levels

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

FCC ID: 2AChi310R	 <b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## Radiated Spurious Emission Measurements

§15.205 §15.209 §15.249(a)(d)(e); RSS-210 [B.10], RSS-Gen [8.9]

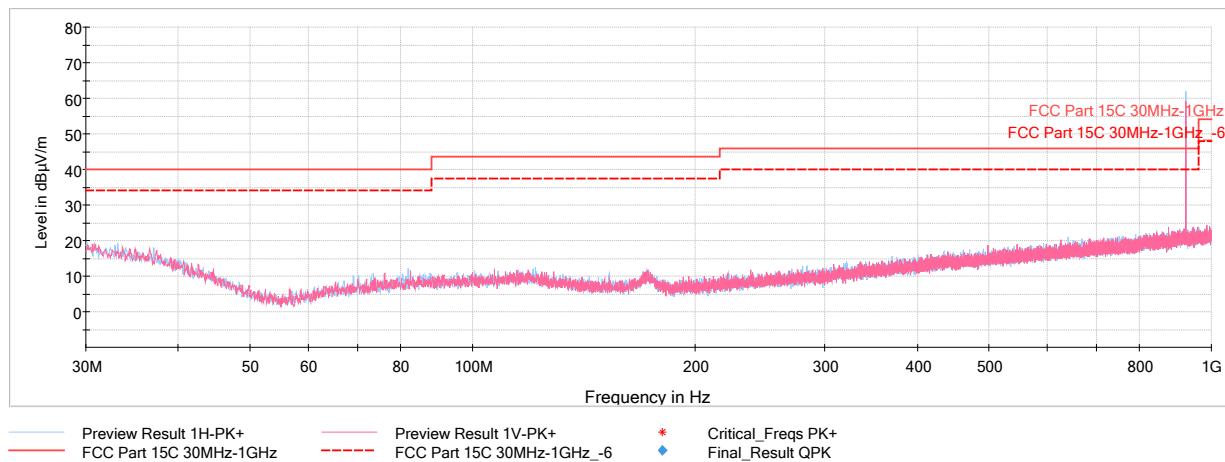


Plot 7-4. Radiated Spurious Plot Below 1GHz (Low CH, 916.2 MHz)

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]
30.29	Peak	V	100	227	-77.55	-9.02	20.43	40.00	-19.57
39.26	Peak	V	250	342	-76.86	-13.84	16.30	40.00	-23.70
65.60	Peak	V	250	2	-77.13	-20.70	9.17	40.00	-30.83
109.06	Peak	V	250	268	-77.68	-17.29	12.03	43.52	-31.49
172.59	Peak	V	100	238	-78.93	-16.14	11.93	43.52	-31.59
323.91	Peak	V	100	92	-77.41	-14.74	14.85	46.02	-31.17

Table 7-6. Radiated Spurious Emissions Data Below 1GHz (Low CH, 916.2 MHz)

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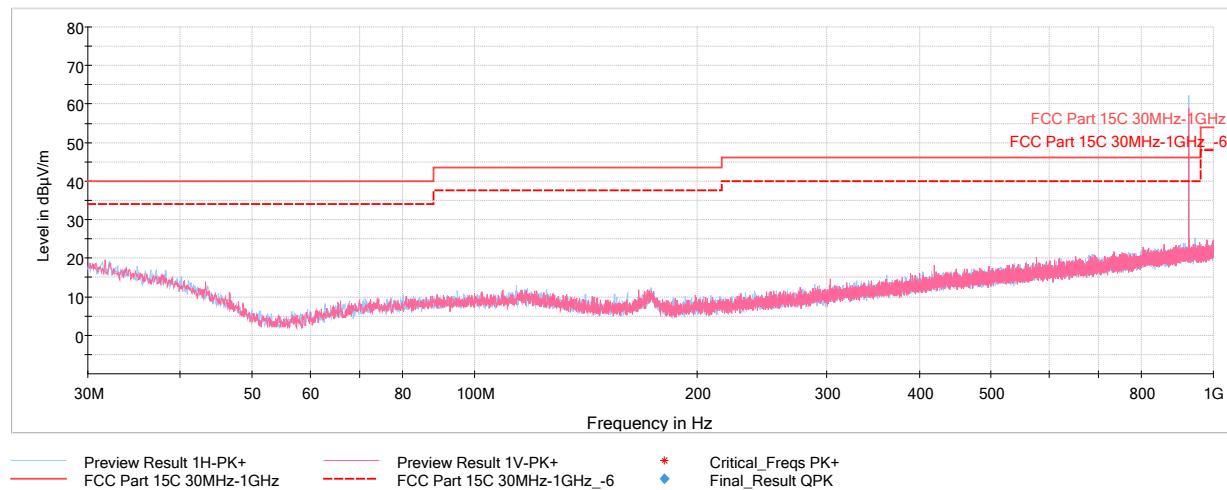


**Plot 7-5. Radiated Spurious Plot Below 1GHz (Mid CH, 923.1 MHz)**

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]
37.03	Peak	H	100	63	-76.74	-12.43	17.83	40.00	-22.17
69.09	Peak	H	100	117	-77.42	-19.99	9.59	40.00	-30.41
82.53	Peak	V	250	149	-77.66	-18.53	10.81	40.00	-29.19
172.44	Peak	H	100	347	-79.41	-16.17	11.42	43.52	-32.10
321.00	Peak	H	100	31	-78.09	-14.85	14.06	46.02	-31.96
498.66	Peak	V	250	226	-77.91	-10.48	18.61	46.02	-27.41

**Table 7-7. Radiated Spurious Emissions Data Below 1GHz (Mid CH, 923.1 MHz)**

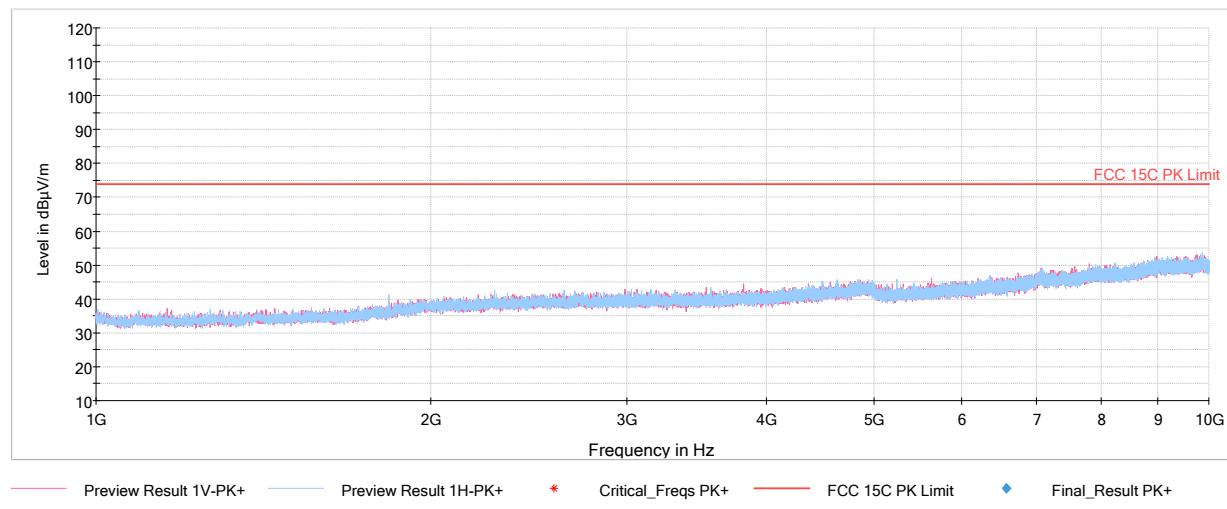
FCC ID: 2AChi310R	 <b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240013-01-R3	Test Dates: 2/15/2019-5/17/2019	EUT Type: Micro Infusion Pump			



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]
31.65	Peak	V	250	15	-77.43	-9.88	19.69	40.00	-20.31
38.29	Peak	H	100	55	-77.13	-13.22	16.65	40.00	-23.35
114.05	Peak	H	100	76	-77.25	-16.86	12.89	43.52	-30.64
419.46	Peak	V	250	273	-76.52	-12.36	18.12	46.02	-27.90
575.72	Peak	V	100	238	-77.57	-9.12	20.31	46.02	-25.71
944.52	Peak	H	100	82	-77.86	-3.89	25.25	46.02	-20.77

Table 7-8. Radiated Spurious Emissions Data Below 1GHz (High CH, 926.1 MHz)

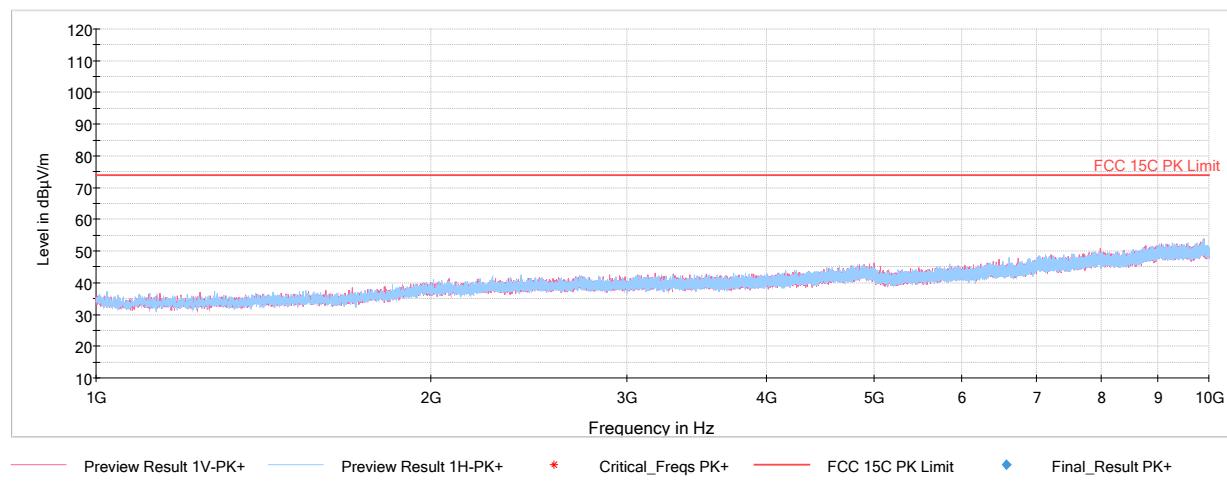
FCC ID: 2ACHI310R	 <b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1M1901240013-01-R3	Test Dates: 2/15/2019-5/17/2019	EUT Type: Micro Infusion Pump				


**Plot 7-7. Radiated Spurious Plot Above 1GHz (Low CH, 916.2 MHz)**

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]
1832.40	Avg	H	290	123	-71.01	-0.26	35.73	53.98	-18.25
1832.40	Peak	H	290	123	-64.28	-0.26	42.46	73.98	-31.52
2748.60	Avg	H	-	-	-78.25	3.67	32.42	53.98	-21.56
2748.60	Peak	H	-	-	-66.76	3.67	43.91	73.98	-30.07
3664.80	Avg	H	-	-	-78.83	4.42	32.59	53.98	-21.39
3664.80	Peak	H	-	-	-67.43	4.42	43.99	73.98	-29.99
4581.00	Avg	H	-	-	-79.31	6.70	34.39	53.98	-19.59
4581.00	Peak	H	-	-	-68.01	6.70	45.69	73.98	-28.29
5497.20	Avg	H	-	-	-79.99	7.39	34.40	53.98	-19.58
5497.20	Peak	H	-	-	-68.79	7.39	45.60	73.98	-28.38
6413.40	Avg	H	-	-	-80.34	9.06	35.72	53.98	-18.26
6413.40	Peak	H	-	-	-68.82	9.06	47.24	73.98	-26.74

**Table 7-9. Radiated Spurious Emissions Data Above 1GHz (Low CH, 916.2 MHz)**

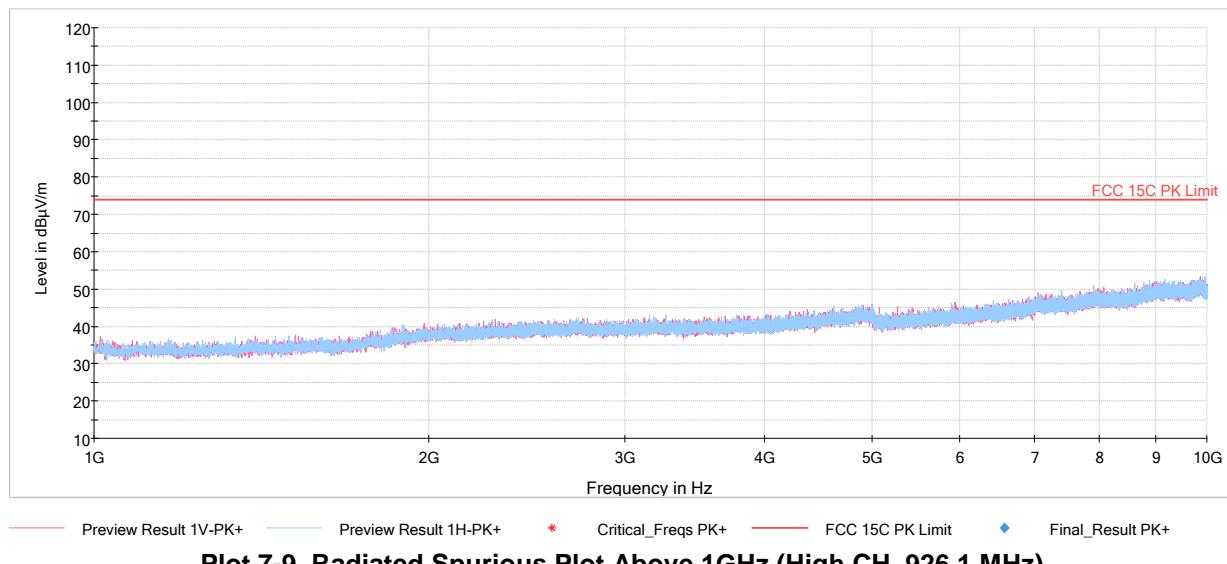
FCC ID: 2AChi310R	 <b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1M1901240013-01-R3	Test Dates: 2/15/2019-5/17/2019	EUT Type: Micro Infusion Pump				


**Plot 7-8. Radiated Spurious Plot Above 1GHz (Mid CH, 923.1 MHz)**

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]
1846.20	Avg	H	109	95	-70.25	-0.13	36.62	53.98	-17.36
1846.20	Peak	H	109	95	-62.60	-0.13	44.27	73.98	-29.71
2769.30	Avg	H	-	-	-78.65	3.51	31.86	53.98	-22.12
2769.30	Peak	H	-	-	-66.96	3.51	43.55	73.98	-30.43
3692.40	Avg	H	-	-	-79.09	4.77	32.68	53.98	-21.30
3692.40	Peak	H	-	-	-66.49	4.77	45.28	73.98	-28.70
4615.50	Avg	H	-	-	-79.61	6.63	34.02	53.98	-19.96
4615.50	Peak	H	-	-	-67.34	6.63	46.29	73.98	-27.69
5538.60	Avg	H	-	-	-79.86	7.49	34.63	53.98	-19.35
5538.60	Peak	H	-	-	-68.10	7.49	46.39	73.98	-27.59
6461.70	Avg	H	-	-	-80.37	9.06	35.69	53.98	-18.29
6461.70	Peak	H	-	-	-69.10	9.06	46.96	73.98	-27.02

**Table 7-10. Radiated Spurious Emissions Data Above 1GHz (Mid CH, 923.1 MHz)**

FCC ID: 2ACHI310R	 <b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
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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]
1852.20	Avg	H	114	108	-69.31	0.02	37.71	53.98	-16.27
1852.20	Peak	H	114	108	-62.40	0.02	44.62	73.98	-29.36
2778.30	Avg	H	-	-	-77.36	3.40	33.04	53.98	-20.94
2778.30	Peak	H	-	-	-65.37	3.40	45.03	73.98	-28.95
3704.40	Avg	H	-	-	-78.06	4.70	33.64	53.98	-20.34
3704.40	Peak	H	-	-	-66.21	4.70	45.49	73.98	-28.49
4630.50	Avg	H	-	-	-78.48	6.57	35.09	53.98	-18.89
4630.50	Peak	H	-	-	-66.18	6.57	47.39	73.98	-26.59
5556.60	Avg	H	-	-	-80.13	7.61	34.48	53.98	-19.50
5556.60	Peak	H	-	-	-68.14	7.61	46.47	73.98	-27.51
6482.70	Avg	H	-	-	-80.26	9.36	36.10	53.98	-17.88
6482.70	Peak	H	-	-	-68.58	9.36	47.78	73.98	-26.20

**Table 7-11. Radiated Spurious Emissions Data Above 1GHz (High CH, 926.1 MHz)**

FCC ID: 2AChi310R	 <b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **PRIMETECH Micro Infusion Pump FCC ID: 2ACHI310R** is in compliance with Part 15 Subpart C (15.249) of the FCC Rules and RSS-210 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: 2ACHI310R	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1901240013-01-R3	Test Dates: 2/15/2019-5/17/2019	EUT Type: Micro Infusion Pump	Page 27 of 27