

*FCC 15.247  
TEST REPORT**for***ECOLINK PET IMMUNE MOTION DETECTOR****MODEL: PIRZB1-ECO**

Prepared for

**ECOLINK INTELLIGENT TECHNOLOGY, INC.  
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DATE: MAY 15, 2017

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TESTING  
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## GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the federal government.

Device Tested: Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO  
S/N: N/A

Product Description: The EUT is a wireless device used to detect motion inside homes.

Modifications: The EUT was not modified during the testing.

Customer: Ecolink Intelligent Technology, Inc.  
2055 Corte Del Nogal  
Carlsbad, California 92011

Test Dates: May 1, 2, 3, and 5, 2017

Test Specification covered by accreditation:



Test Specifications: Emissions requirements  
CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.247

Test Procedure: ANSI C63.4, ANSI C63.10

Test Deviations: The test procedure was not deviated from during the testing.

## SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION                                                                                            | RESULTS                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 1    | Conducted RF Emissions, 150 kHz – 30 MHz                                                               | This test was not performed because the EUT is battery powered only and cannot be connected to the AC public mains.         |
| 2    | Fundamental and Emissions produced by the intentional radiator in non-restricted bands, 9 kHz – 25 GHz | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(d)                              |
| 3    | Emissions produced by the intentional radiator in restricted bands, 9 kHz – 25 GHz                     | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209, and section 15.247 (d) |
| 4    | DTS Bandwidth                                                                                          | Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (a)(2)                          |
| 5    | Peak Power Output                                                                                      | Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (b)(3)                          |
| 6    | RF Conducted Antenna Test                                                                              | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (d)                             |
| 7    | Peak Power Spectral Density from the Intentional Radiator to the Antenna                               | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (e)                             |

## 1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the Ecolink Pet Immune Motion Detector, Model: PIRZB1-ECO. The emissions measurements were performed according to the measurement procedure described in ANSI C63.10 and ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the Class B specification limits defined by CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.207, 15.209, and 15.247.

## **2. ADMINISTRATIVE DATA**

### **2.1 Location of Testing**

The emissions tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

### **2.2 Traceability Statement**

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

### **2.3 Cognizant Personnel**

Ecolink Intelligent Technology, Inc.

|               |                                          |
|---------------|------------------------------------------|
| Mike Archbold | Product Development Engineer             |
| Mike Bailey   | VP of Operations and Product Development |

Compatible Electronics Inc.

|               |               |
|---------------|---------------|
| Kyle Fujimoto | Test Engineer |
| James Ross    | Test Engineer |

### **2.4 Date Test Sample was Received**

The test sample was received on May 1, 2017.

### **2.5 Disposition of the Test Sample**

The test sample has not been returned to Ecolink Intelligent Technology, Inc. as of the date of this test report.

### **2.6 Abbreviations and Acronyms**

The following abbreviations and acronyms may be used in this document.

|      |                                      |
|------|--------------------------------------|
| RF   | Radio Frequency                      |
| EMI  | Electromagnetic Interference         |
| EUT  | Equipment Under Test                 |
| P/N  | Part Number                          |
| S/N  | Serial Number                        |
| HP   | Hewlett Packard                      |
| ITE  | Information Technology Equipment     |
| CML  | Corrected Meter Limit                |
| LISN | Line Impedance Stabilization Network |
| N/A  | Not Applicable                       |
| VP   | Vice President                       |

### 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this emissions Test Report.

| SPEC                             | TITLE                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| FCC Title 47, Part 15 Subpart C  | FCC Rules - Radio frequency devices (including digital devices) – Intentional Radiators                                              |
| ANSI C63.4 2014                  | Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz |
| ANSI C63.10 2013                 | American National Standard for Testing Unlicensed Wireless Devices                                                                   |
| FCC Title 47, Part 15 Subpart B  | FCC Rules - Radio frequency devices (including digital devices) – Unintentional Radiators                                            |
| 558074 D01 DTS Meas Guidance v04 | Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating under 15.247                         |



#### **4. DESCRIPTION OF TEST CONFIGURATION**

##### **4.1 Description of Test Configuration – Emissions**

The Ecolink Pet Immune Motion Detector, Model: PIRZB1-ECO (EUT) was tested as a stand-alone unit. The EUT was continuously transmitting on the selected antenna.

The EUT was tested in the X, Y and Z axis. The X orientation is when the EUT is parallel to the ground. The Y orientation is when the EUT is perpendicular to the ground mounted vertically. The Z orientation is when the EUT is perpendicular to the ground mounted horizontally.

The EUT was tested with a fresh set of batteries.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. The final emissions data was taken in this mode of operation and any cables were maximized. All initial investigations were performed with the measurement receiver in manual mode scanning the frequency range continuously. Photographs of the test setup are in Appendix D of this report.

##### **4.1.1 Cable Construction and Termination**

The EUT has no external cables.

**5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT****5.1 EUT and Accessory List**

| EQUIPMENT                          | MANUFACTURER                         | MODEL NUMBER | SERIAL NUMBER | FCC ID        |
|------------------------------------|--------------------------------------|--------------|---------------|---------------|
| ECOLINK PET IMMUNE MOTION DETECTOR | ECOLINK INTELLIGENT TECHNOLOGY, INC. | PIRZB1-ECO   | N/A           | XQC-PIRZB1EC0 |

## 5.2 Emissions Test Equipment

| EQUIPMENT TYPE                       | MANU-FACTURER              | MODEL NUMBER | SERIAL NUMBER | CALIBRATION DATE  | CAL. CYCLE |
|--------------------------------------|----------------------------|--------------|---------------|-------------------|------------|
| GENERAL TEST EQUIPMENT USED IN LAB D |                            |              |               |                   |            |
| TDK TestLab                          | TDK RF Solutions, Inc.     | 9.22         | 700145        | N/A               | N/A        |
| Computer                             | Hewlett Packard            | p6716f       | MXX1030PX0    | N/A               | N/A        |
| LCD Monitor                          | Hewlett Packard            | 52031a       | 3CQ046N3MG    | N/A               | N/A        |
| EMI Receiver, 20 Hz – 26.5 GHz       | Keysight                   | N9038A       | MY51210150    | December 29, 2015 | 2 Year     |
| RF RADIATED EMISSIONS TEST EQUIPMENT |                            |              |               |                   |            |
| CombiLog Antenna                     | Com-Power                  | AC-220       | 61060         | September 3, 2015 | 2 Year     |
| Preamplifier                         | Com-Power                  | PAM-118A     | 551024        | May 12, 2016      | 2 Year     |
| Preamplifier                         | Com-Power                  | PA-840       | 711013        | May 13, 2016      | 2 Year     |
| Loop Antenna                         | Com-Power                  | AL-130R      | 121090        | February 9, 2017  | 2 Year     |
| Horn Antenna                         | Com-Power                  | AH-826       | 71957         | N/A               | N/A        |
| Horn Antenna                         | Com-Power                  | AH-118       | 071175        | February 26, 2016 | 2 Year     |
| Antenna Mast                         | Com Power                  | AM-100       | N/A           | N/A               | N/A        |
| System Controller                    | Sunol Sciences Corporation | SC110V       | 112213-1      | N/A               | N/A        |
| Turntable                            | Sunol Sciences Corporation | 2011VS       | N/A           | N/A               | N/A        |
| Antenna-Mast                         | Sunol Sciences Corporation | TWR95-4      | 112213-3      | N/A               | N/A        |

## **6. TEST SITE DESCRIPTION**

### **6.1 Test Facility Description**

Please refer to section 2.1 and 7.1 of this report for emissions test location.

### **6.2 EUT Mounting, Bonding and Grounding**

**For frequencies 1 GHz and below:** The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

**For frequencies above 1 GHz:** The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 1.5 meters above the ground plane.

The EUT was not grounded.

## **7. CHARACTERISTICS OF THE TRANSMITTER**

### **7.1 Channel Description and Frequencies**

The lowest frequency the EUT will use is 2405 MHz and the highest frequency the EUT will use is 2480 MHz. The EUT will be able to be tuned every 5 MHz between the lowest frequency and the highest frequency.

The power level was -7 was used for testing at 2405 MHz, 2440 MHz, and for testing the band edge at 2475 MHz. The power level was -15 for testing at 2480 MHz.

### **7.2 Antenna Gain**

The EUT utilizes two internal inverted-F PCB trace antennas. The first antenna has a gain of -1.6 dBi and the second antenna has a gain of -3.9 dBi.

## **8. TEST PROCEDURES**

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

### **8.1 RF Emissions**

#### **8.1.1 Conducted Emissions Test**

The spectrum analyzer was used as a measuring meter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the spectrum analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the spectrum analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics conducted emissions software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

#### **Test Results:**

This test was not performed because the EUT is battery powered only and cannot be connected to the AC public mains.

### 8.1.2 Radiated Emissions (Spurious and Harmonics) Test

The EMI Receiver was used as the measuring meter. Below 1 GHz, a built-in, internal preamplifier was used to increase the sensitivity of the instrument. The EMI Receiver was initially used with the Analyzer mode feature activated. In this mode, the EMI receiver can then record the actual frequency to be measured. This final reading is then taken accurately in the EMI Receiver mode, which takes into account the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit.

The frequencies above 1 GHz were averaged by using a duty cycle correction factor.

The measurement bandwidths and transducers used for the radiated emissions test were:

| FREQUENCY RANGE   | EFFECTIVE MEASUREMENT BANDWIDTH | TRANSDUCER       |
|-------------------|---------------------------------|------------------|
| 9 kHz to 150 kHz  | 200 Hz                          | Loop Antenna     |
| 150 kHz to 30 MHz | 9 kHz                           | Loop Antenna     |
| 30 MHz to 1 GHz   | 120 kHz                         | Combilog Antenna |
| 1 GHz to 25 GHz   | 1 MHz                           | Horn Antenna     |

The EMI test chamber of Compatible Electronics, Inc. was used for radiated emissions testing. This test site is in full compliance with ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

#### Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, Sections 15.209 and 15.247 (d) for radiated emissions. Please see Appendix E for the data sheets.

**8.1.3 RF Emissions Test Results**Table 1.0 RADIATED EMISSION RESULTS  
Ecolink Pet Immune Motion Detector, Model: PIRZB1-ECO

| Frequency<br>MHz           | Corrected<br>Reading*<br>dBuV/m | Specification Limit<br>dBuV/m | Delta<br>(Cor. Reading – Spec.<br>Limit)<br>dB |
|----------------------------|---------------------------------|-------------------------------|------------------------------------------------|
| 7320 (V) (X-Axis) (Ant. 1) | 49.99 (Avg)                     | 53.97                         | -3.98                                          |
| 7320 (H) (X-Axis) (Ant. 1) | 49.38 (Avg)                     | 53.97                         | -4.59                                          |
| 7320 (H) (Z-Axis) (Ant. 1) | 48.86 (Avg)                     | 53.97                         | -5.11                                          |
| 4880 (H) (X-Axis) (Ant. 1) | 48.81 (Avg)                     | 53.97                         | -5.16                                          |
| 4880 (H) (Y-Axis) (Ant. 1) | 48.63 (Avg)                     | 53.97                         | -5.34                                          |
| 4960 (V) (X-Aixs) (Ant. 1) | 48.01 (Avg)                     | 53.97                         | -5.96                                          |

## Notes:

- |    |                                                                    |                         |
|----|--------------------------------------------------------------------|-------------------------|
| *  | The complete emissions data is given in Appendix E of this report. |                         |
| Pk | Peak Reading                                                       | QP Quasi-Peak Reading   |
| H  | Horizontal Polarization                                            | V Vertical Polarization |

## 8.2 DTS Bandwidth

The DTS Bandwidth was measured using the EMI Receiver. The bandwidth was measured using a direct connection from the RF output of the EUT. The following steps were performed for measuring the DTS Bandwidth.

1. Set RBW = 100 kHz
2. Set the video bandwidth (VBW) to equal or greater than 3 times the RBW
3. Detector = Peak
4. Trace Mode = Max Hold
5. Sweep = Auto Couple
6. Allow the trace to stabilize
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (a)(2).

## 8.3 Peak Output Power

The Peak Output Power was measured using the EMI Receiver. The peak output power was measured using a direct connection from the RF output of the EUT. The resolution bandwidth was 8 MHz and the video bandwidth was 50 MHz. The cable loss was also added back into the reading using the reference level offset. The Peak Output Power was then taken.

### Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (b)(3).



#### **8.4 Emissions in Non-Restricted Bands**

The emissions in the non-restricted frequency bands measurements were performed using the EMI Receiver. The emissions were measured using a direct connection from the RF output of the EUT. The reference level was established by setting the instrument center frequency to DTS channel center frequency. A peak detector was used with sweep set to auto. A max hold trace was used and allowed to fully stabilize. The peak marker function was used to determine the level and 20 dB below that was the reference level. For emission level measurement, the center frequency and span were set to encompass the frequency range to be measured. A peak detector was used with a sweep time set to auto. The number of measurement points were greater than the span/RBW. A max hold trace was used and allowed to fully stabilize. The peak marker function was used to determine the maximum amplitude level. The final qualification data sheets are located in Appendix E.

##### **Test Results:**

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). The RF power that is produced by the intentional radiator is at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power. Please see the radiated emission data sheets located in Appendix E.

#### **8.5 RF Band Edges**

The RF band edges were taken at 2390 MHz when the EUT was on the low channel and 2483.5 MHz when the EUT was on the high channel using the EMI Receiver. A preamplifier was used to boost the signal level, with the plots being taken at a 3 meter test distance. The radiated emissions test procedure as describe in section 8.1.2 of this test report was used to maximize the emission.

##### **Test Results:**

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). The RF power at the restricted bands closest to the band edges at 2390 MHz and 2483.5 MHz also meet the limits of section 15.209. Please see the data sheets located in Appendix E.

## 8.6 Spectral Density Test

The spectrum density output was measured using the EMI Receiver. The spectral density output was measured using a direct connection from the RF out on the EUT into the input of the EMI Receiver. The following steps were performed for measuring the spectral density.

1. Set analyzer center frequency to DTS channel center frequency
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to 3 kHz  $\leq$  RBW  $\leq$  100 kHz
4. Set the VBW  $\geq$  3 X RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize
9. Use the peak marker function to determine the maximum amplitude level within the RBW
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat..

### Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (e).

## 8.7 Duty Cycle Calculation

The fundamental and harmonics were measured at a 3-meter test distance. The EMI Receiver was used to obtain the final test data. The final qualification data sheets are located in Appendix E.

Where

$$\delta(\text{dB}) = 20 \log \left[ \sum (nt_1 + mt_2 + \dots + \xi t_x) / T \right]$$

$n$  is the number of pulses of duration  $t_1$

$m$  is the number of pulses of duration  $t_2$

$\xi$  is the number of pulses of duration  $t_x$

$T$  is the period of the pulse train or 100 ms if the pulse train length is greater than 100 ms

Attempting to pair when the control device is off is the worst case mode:

Duty Cycle Correction Factor = -11.95 dB

Pulse = 3.125 ms + 3.250 ms + 3.250 ms + 3.250 ms + 6.125 ms + 6.250 ms

Total On Time = 25.25 ms

Only one pulse during the 100 ms interval, so the maximum 100 ms interval can be used.

25.25 ms / 100 ms = 0.2525

20 log (0.2525) = -11.95 dB correction factor

## 9. CONCLUSIONS

The Ecolink Pet Immune Motion Detector, Model: PIRZB1-ECO (EUT), as tested, meets all of the specification limits defined in FCC Title 47, Part 15, Subpart B, and Subpart C, sections 15.205, 15.209, 15.207, and 15.247.





**APPENDIX A**

***LABORATORY ACCREDITATIONS AND RECOGNITIONS***

## LABORATORY ACCREDITATIONS AND RECOGNITIONS



NVLAP LAB CODE 200528-0

For US, Canada, Australia/New Zealand, Japan, Taiwan, Korea, and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025.

**For the most up-to-date version of our scopes and certificates please visit**

**<http://celectronics.com/quality/scope/>**

Quote from ISO-ILAC-IAF Communiqué on 17025:

"A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 Quality Management Systems — Requirements."



FCC Listing, from FCC OET site

[FCC test lab search](https://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm) <https://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm>





**APPENDIX B**

***MODIFICATIONS TO THE EUT***

## MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC Subpart B and FCC 15.247 specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

The EUT was not modified during the testing.







**APPENDIX C**

***ADDITIONAL MODELS COVERED  
UNDER THIS REPORT***

## **ADDITIONAL MODELS COVERED UNDER THIS REPORT**

### **USED FOR THE PRIMARY TEST**

Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO  
S/N: N/A

There were no additional models covered under this report.

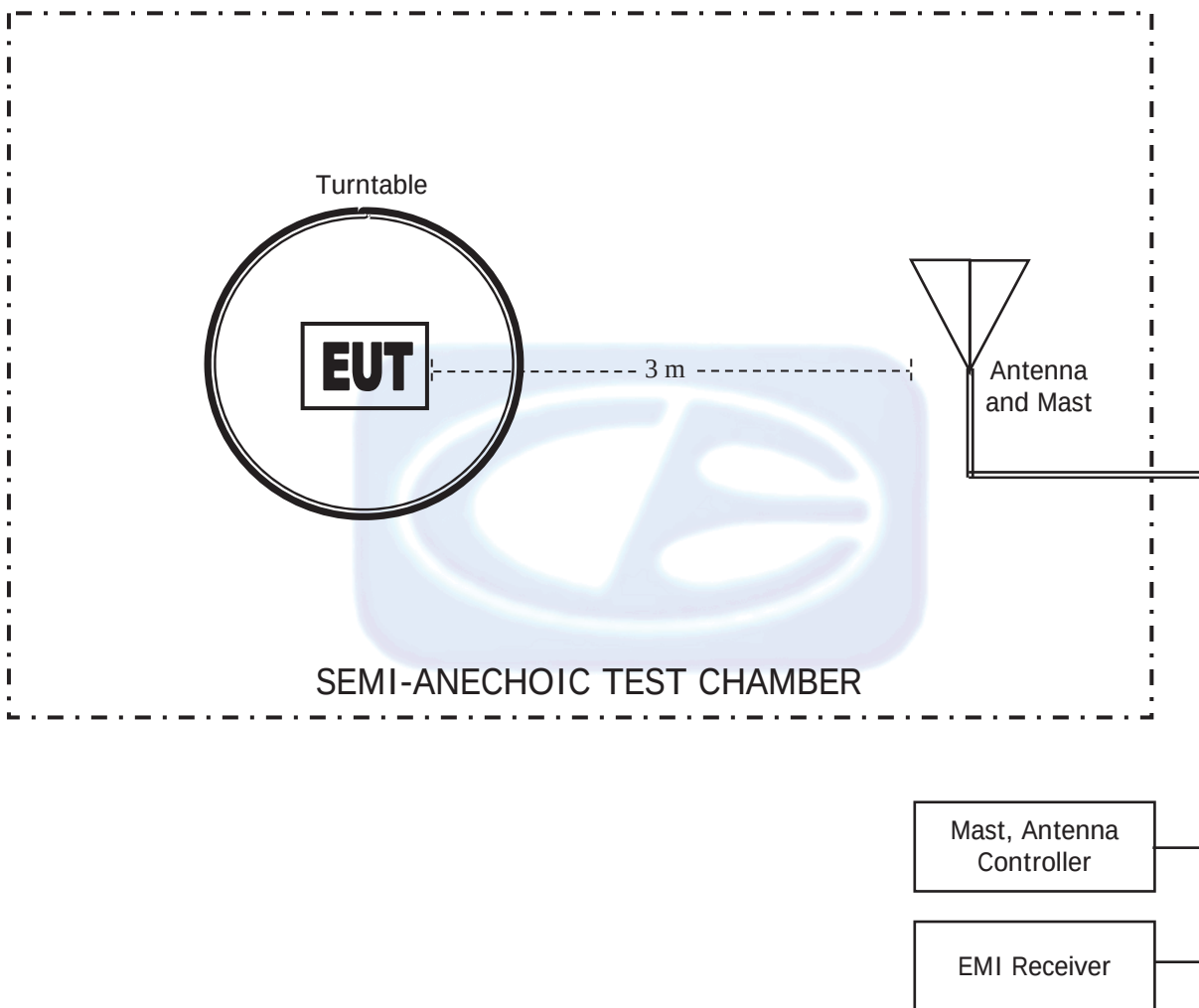




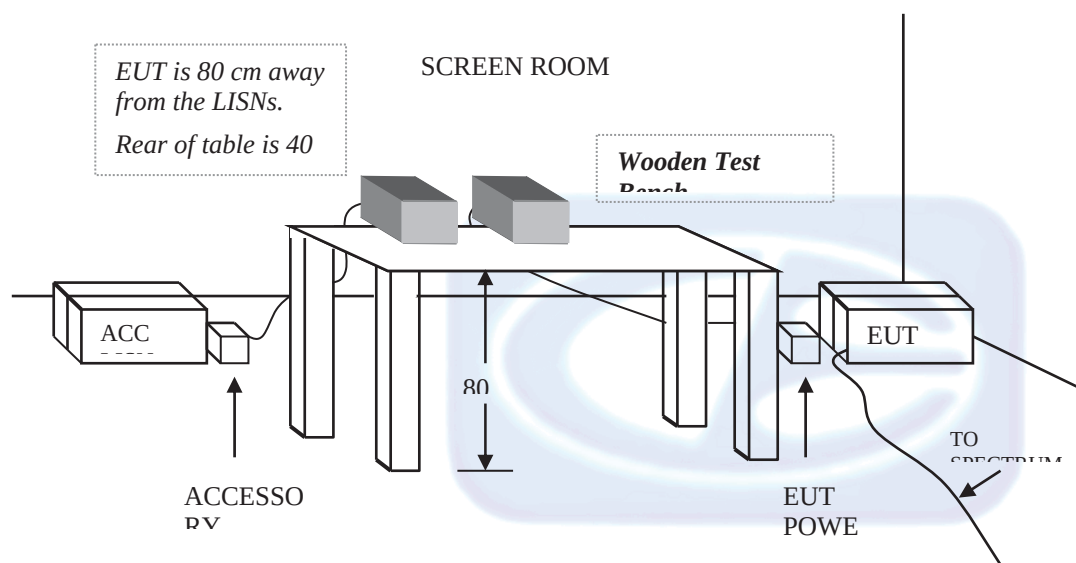
**APPENDIX D**

***DIAGRAMS AND CHARTS***

**FIGURE 1: LAYOUT OF THE SEMI-ANECHOIC TEST CHAMBER**



**FIGURE 2: CONDUCTED EMISSIONS TEST SETUP**



**COM-POWER AL-130R****LOOP ANTENNA**

S/N: 121090

CALIBRATION DATE: FEBRUARY 9, 2017

| <b>FREQUENCY<br/>(MHz)</b> | <b>MAGNETIC<br/>(dB/m)</b> | <b>ELECTRIC<br/>(dB/m)</b> |
|----------------------------|----------------------------|----------------------------|
| 0.009                      | -36.17                     | 15.33                      |
| 0.01                       | -35.86                     | 15.64                      |
| 0.02                       | -37.30                     | 14.20                      |
| 0.03                       | -36.58                     | 14.92                      |
| 0.04                       | -36.99                     | 14.51                      |
| 0.05                       | -37.66                     | 13.84                      |
| 0.06                       | -37.53                     | 13.97                      |
| 0.07                       | -37.64                     | 13.86                      |
| 0.08                       | -37.52                     | 13.98                      |
| 0.09                       | -37.62                     | 13.88                      |
| 0.1                        | -37.59                     | 13.91                      |
| 0.2                        | -37.79                     | 13.71                      |
| 0.3                        | -37.80                     | 13.70                      |
| 0.4                        | -37.70                     | 13.80                      |
| 0.5                        | -37.79                     | 13.71                      |
| 0.6                        | -37.79                     | 13.71                      |
| 0.7                        | -37.69                     | 13.81                      |
| 0.8                        | -37.49                     | 14.01                      |
| 0.9                        | -37.39                     | 14.11                      |
| 1                          | -37.39                     | 14.11                      |
| 2                          | -37.09                     | 14.41                      |
| 3                          | -37.09                     | 14.41                      |
| 4                          | -37.19                     | 14.31                      |
| 5                          | -36.98                     | 14.52                      |
| 6                          | -37.17                     | 14.33                      |
| 7                          | -37.05                     | 14.45                      |
| 8                          | -36.85                     | 14.65                      |
| 9                          | -36.84                     | 14.66                      |
| 10                         | -36.75                     | 14.75                      |
| 15                         | -37.16                     | 14.34                      |
| 20                         | -36.44                     | 15.06                      |
| 25                         | -37.88                     | 13.62                      |
| 30                         | -39.14                     | 12.36                      |

COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61060

CALIBRATION DATE: SEPTEMBER 3, 2015

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 30                 | 24.00          | 200                | 13.00          |
| 35                 | 24.30          | 250                | 15.30          |
| 40                 | 25.40          | 300                | 18.20          |
| 45                 | 21.50          | 350                | 17.90          |
| 50                 | 22.50          | 400                | 18.60          |
| 60                 | 15.40          | 450                | 19.80          |
| 70                 | 12.70          | 500                | 21.60          |
| 80                 | 11.10          | 550                | 22.40          |
| 90                 | 13.40          | 600                | 23.70          |
| 100                | 13.80          | 650                | 24.30          |
| 120                | 15.40          | 700                | 24.00          |
| 125                | 15.40          | 750                | 24.50          |
| 140                | 13.10          | 800                | 24.30          |
| 150                | 17.20          | 850                | 26.30          |
| 160                | 13.20          | 900                | 26.90          |
| 175                | 14.20          | 950                | 26.00          |
| 180                | 14.30          | 1000               | 25.60          |

COM POWER AH-118

HORN ANTENNA

S/N: 071175

CALIBRATION DATE: FEBRUARY 26, 2016

| FREQUENCY<br>(GHz) | FACTOR<br>(dB) | FREQUENCY<br>(GHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 1.0                | 23.93          | 10.0               | 39.33          |
| 1.5                | 25.54          | 10.5               | 39.64          |
| 2.0                | 28.09          | 11.0               | 41.04          |
| 2.5                | 30.21          | 11.5               | 44.29          |
| 3.0                | 30.15          | 12.0               | 41.22          |
| 3.5                | 30.17          | 12.5               | 41.50          |
| 4.0                | 31.90          | 13.0               | 41.62          |
| 4.5                | 33.51          | 13.5               | 40.63          |
| 5.0                | 33.87          | 14.0               | 39.94          |
| 5.5                | 35.08          | 14.5               | 41.84          |
| 6.0                | 34.81          | 15.0               | 42.69          |
| 6.5                | 34.26          | 15.5               | 39.03          |
| 7.0                | 36.33          | 16.0               | 39.07          |
| 7.5                | 37.03          | 16.5               | 41.40          |
| 8.0                | 37.56          | 17.0               | 43.18          |
| 8.5                | 40.07          | 17.5               | 47.01          |
| 9.0                | 38.92          | 18.0               | 46.48          |
| 9.5                | 38.21          |                    |                |



**COM-POWER PA-118****PREAMPLIFIER****S/N: 551024****CALIBRATION DATE: MAY 12, 2016**

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 39.84                  | 6.0                        | 39.05                  |
| 1.1                        | 39.40                  | 6.5                        | 38.94                  |
| 1.2                        | 39.58                  | 7.0                        | 39.25                  |
| 1.3                        | 39.68                  | 7.5                        | 39.09                  |
| 1.4                        | 39.91                  | 8.0                        | 39.01                  |
| 1.5                        | 39.78                  | 8.5                        | 38.60                  |
| 1.6                        | 39.50                  | 9.0                        | 38.64                  |
| 1.7                        | 39.81                  | 9.5                        | 39.67                  |
| 1.8                        | 39.89                  | 10.0                       | 39.30                  |
| 1.9                        | 39.94                  | 11.0                       | 39.15                  |
| 2.0                        | 39.57                  | 12.0                       | 39.24                  |
| 2.5                        | 40.39                  | 13.0                       | 39.49                  |
| 3.0                        | 40.63                  | 14.0                       | 39.44                  |
| 3.5                        | 40.80                  | 15.0                       | 39.94                  |
| 4.0                        | 40.86                  | 16.0                       | 40.09                  |
| 4.5                        | 39.94                  | 17.0                       | 40.06                  |
| 5.0                        | 34.47                  | 18.0                       | 39.76                  |
| 5.5                        | 39.32                  |                            |                        |

**COM-POWER AH-826****HORN ANTENNA**

S/N: 71957

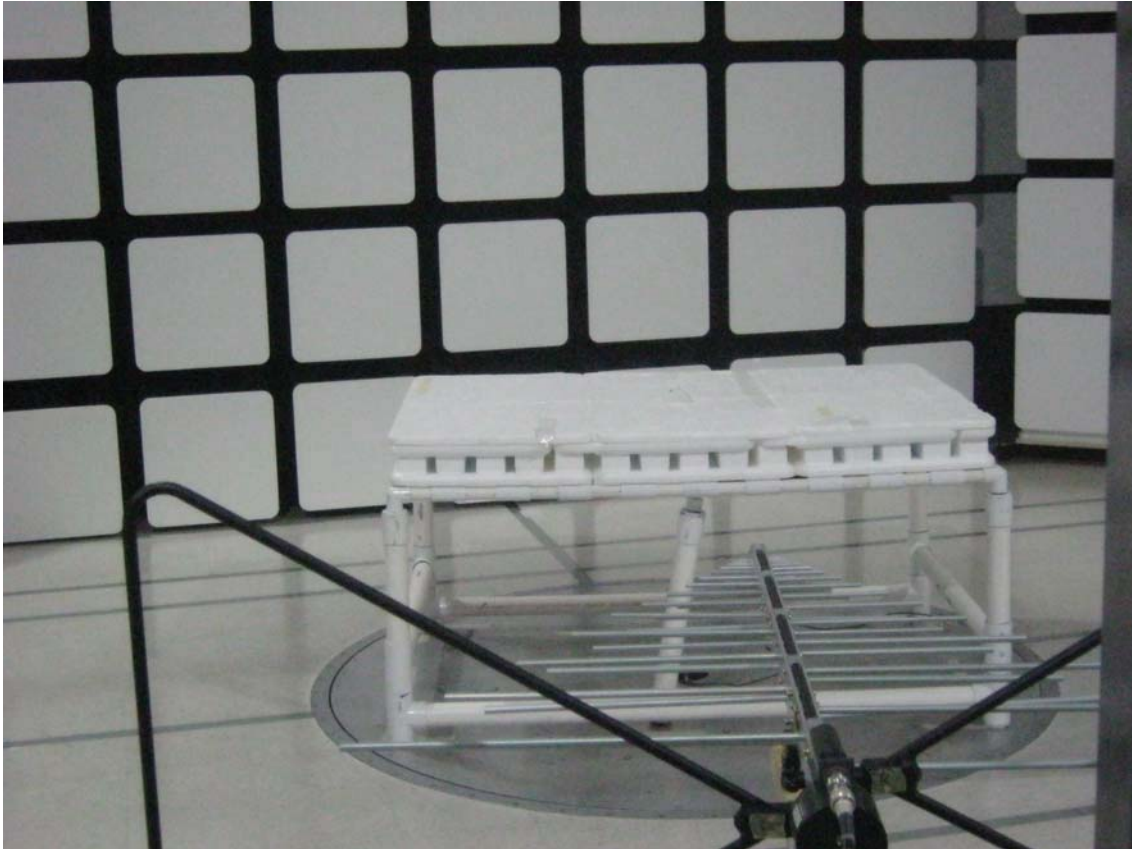
| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 18.0                       | 33.5                   | 22.5                       | 35.5                   |
| 18.5                       | 33.5                   | 23.0                       | 35.9                   |
| 19.0                       | 34.0                   | 23.5                       | 35.7                   |
| 19.5                       | 34.0                   | 24.0                       | 35.6                   |
| 20.0                       | 34.3                   | 24.5                       | 36.0                   |
| 20.5                       | 34.9                   | 25.0                       | 36.2                   |
| 21.0                       | 34.7                   | 25.5                       | 36.1                   |
| 21.5                       | 35.0                   | 26.0                       | 36.2                   |
| 22.0                       | 35.0                   | 26.5                       | 35.7                   |

COM-POWER PA-840  
MICROWAVE PREAMPLIFIER

S/N: 711013

CALIBRATION DATE: MAY 13, 2016

| FREQUENCY<br>(GHz) | FACTOR<br>(dB) | FREQUENCY<br>(GHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 18.0               | 25.19          | 31.0               | 25.69          |
| 19.0               | 24.48          | 31.5               | 25.74          |
| 20.0               | 24.39          | 32.0               | 26.35          |
| 21.0               | 24.73          | 32.5               | 26.64          |
| 22.0               | 23.49          | 33.0               | 25.98          |
| 23.0               | 24.23          | 33.5               | 24.68          |
| 24.0               | 24.59          | 34.0               | 24.61          |
| 25.0               | 25.32          | 34.5               | 23.78          |
| 26.0               | 25.66          | 35.0               | 24.74          |
| 26.5               | 25.99          | 35.5               | 24.39          |
| 27.0               | 26.26          | 36.0               | 23.46          |
| 27.5               | 25.33          | 36.5               | 23.71          |
| 28.0               | 24.49          | 37.0               | 26.35          |
| 28.5               | 24.74          | 37.5               | 23.49          |
| 29.0               | 25.93          | 38.0               | 25.42          |
| 29.5               | 26.28          | 38.5               | 24.87          |
| 30.0               | 26.17          | 39.0               | 22.60          |
| 30.5               | 26.11          | 39.5               | 20.57          |
|                    |                | 40.0               | 19.15          |

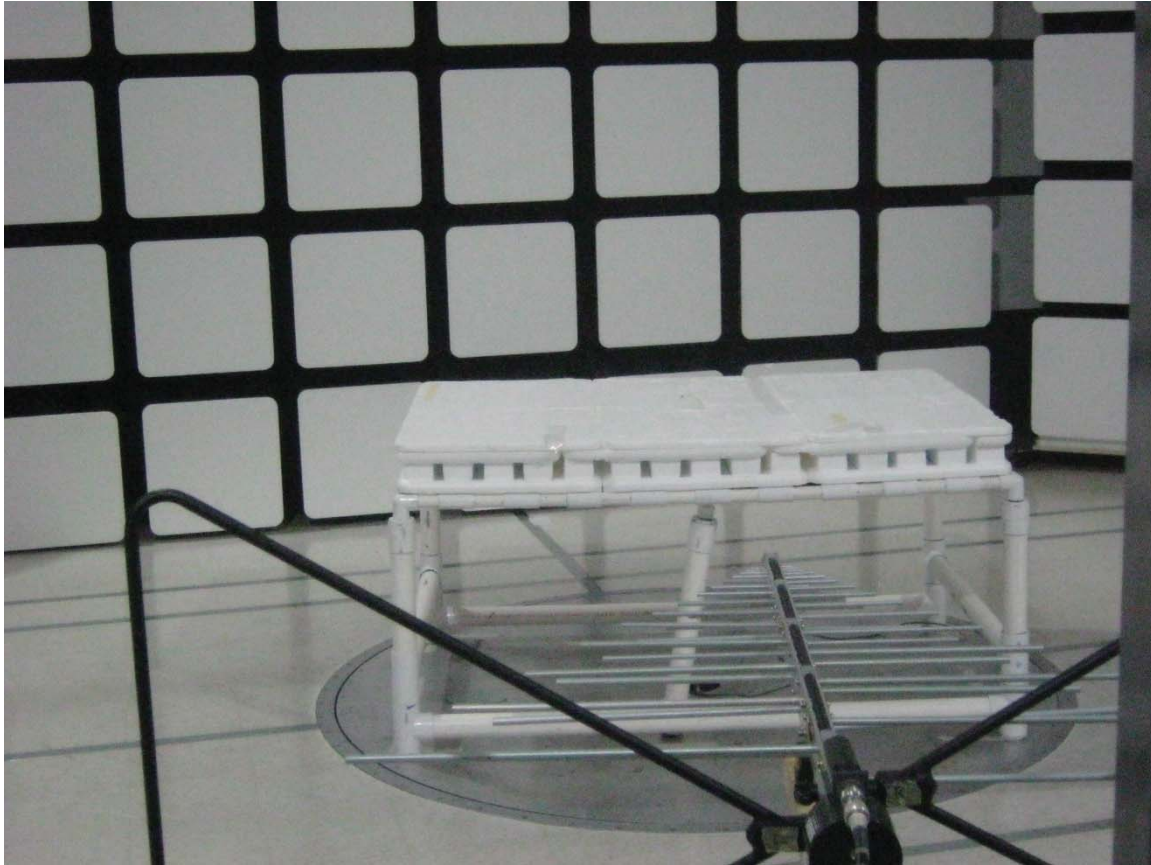


**FRONT VIEW**

ECOLINK INTELLIGENT TECHNOLOGY, INC.  
ECOLINK PET IMMUNE MOTION DETECTOR  
MODEL: PIRZB1-ECO

FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

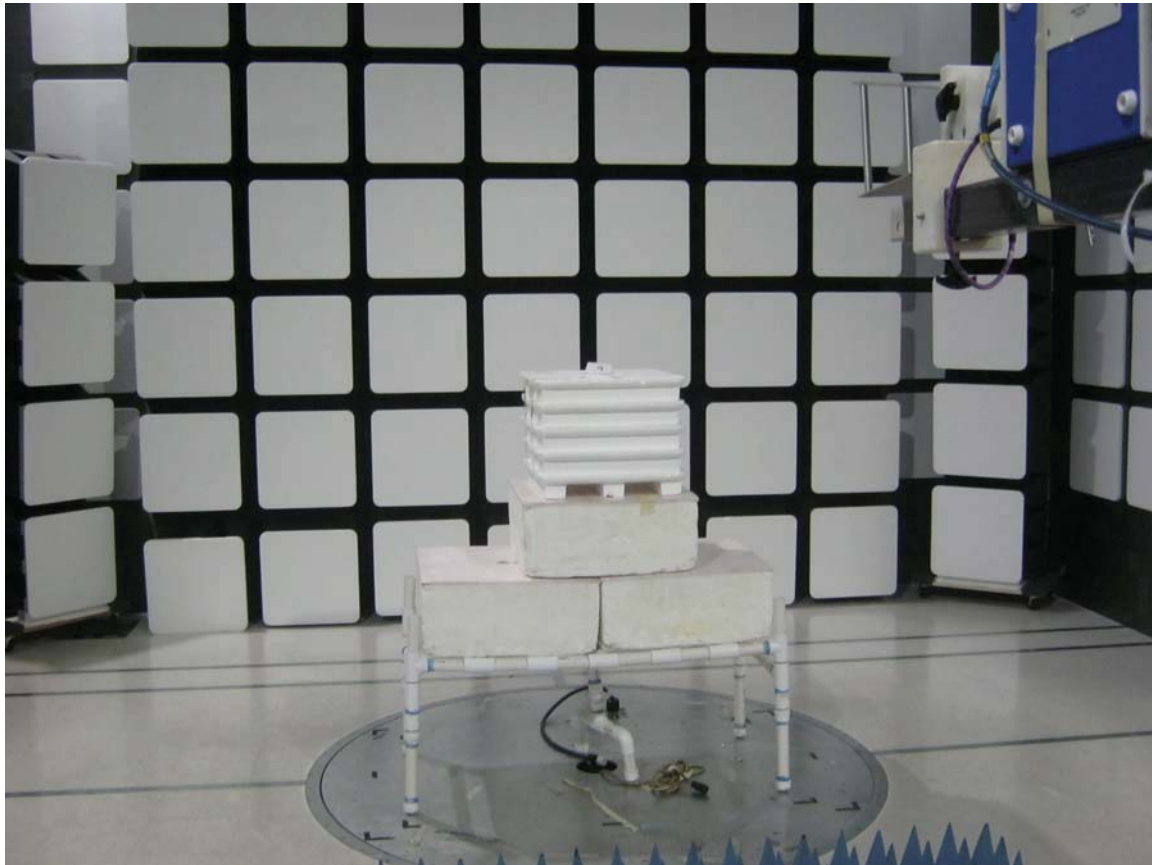


**REAR VIEW**

ECOLINK INTELLIGENT TECHNOLOGY, INC.  
ECOLINK PET IMMUNE MOTION DETECTOR  
MODEL: PIRZB1-ECO

FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

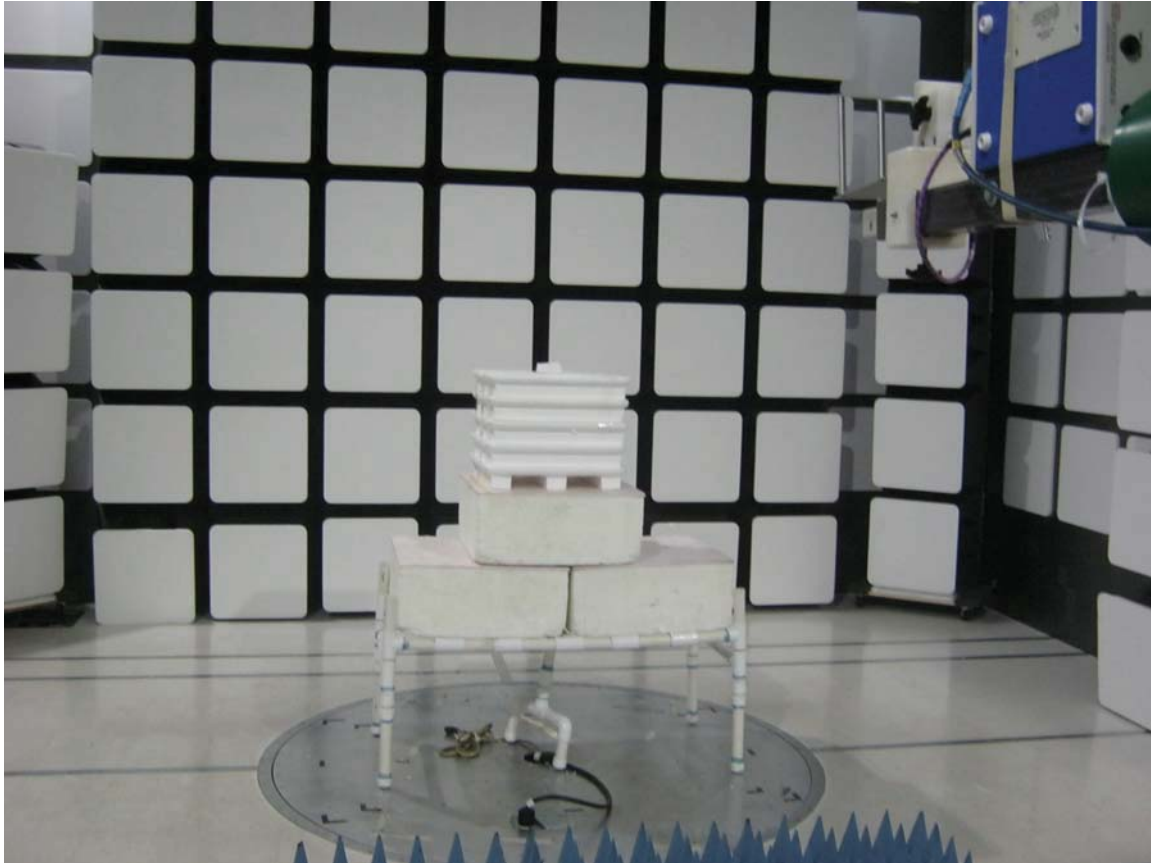


**FRONT VIEW**

ECOLINK INTELLIGENT TECHNOLOGY, INC.  
ECOLINK PET IMMUNE MOTION DETECTOR  
MODEL: PIRZB1-ECO  
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**





**REAR VIEW**

ECOLINK INTELLIGENT TECHNOLOGY, INC.  
ECOLINK PET IMMUNE MOTION DETECTOR  
MODEL: PIRZB1-ECO

FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**APPENDIX E**

***DATA SHEETS***





***RADIATED EMISSIONS  
DATA SHEETS***

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Low Channel - Power Level -7**  
**X-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 58.94             | V            | 73.97 | -15.03 | Peak                  | 192.25                  | 159.28                 |                        |
| 4810           | 46.99             | V            | 53.97 | -6.98  | Avg                   | 192.25                  | 159.28                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Low Channel - Power Level -7**
**X-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 55.30             | H            | 73.97 | -18.67 | Peak                  | 50.75                   | 175.34                 |                        |
| 4810           | 43.35             | H            | 53.97 | -10.62 | Avg                   | 50.75                   | 175.34                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Low Channel - Power Level -7**  
**Y-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 55.80             | V            | 73.97 | -18.17 | Peak                  | 282.00                  | 143.28                 |                        |
| 4810           | 43.85             | V            | 53.97 | -10.12 | Avg                   | 282.00                  | 143.28                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Low Channel - Power Level -7**  
**Y-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 59.68             | H            | 73.97 | -14.29 | Peak                  | 27.00                   | 127.64                 |                        |
| 4810           | 47.73             | H            | 53.97 | -6.24  | Avg                   | 27.00                   | 127.64                 |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECODate: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - Low Channel - Power Level -7**  
**Z-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 56.52             | V            | 73.97 | -17.45 | Peak                  | 331.00                  | 143.34                 |                        |
| 4810           | 44.57             | V            | 53.97 | -9.40  | Avg                   | 331.00                  | 143.34                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Low Channel - Power Level -7**  
**Z-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 56.39             | H            | 73.97 | -17.58 | Peak                  | 300.75                  | 127.52                 |                        |
| 4810           | 44.44             | H            | 53.97 | -9.53  | Avg                   | 300.75                  | 127.52                 |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**  
**X-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4880           | 57.48             | V            | 73.97 | -16.49 | Peak                  | 54.50                   | 127.70                 |                        |
| 4880           | 45.53             | V            | 53.97 | -8.44  | Avg                   | 54.50                   | 127.70                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7320           | 61.94             | V            | 73.97 | -12.03 | Peak                  | 355.50                  | 127.22                 |                        |
| 7320           | 49.99             | V            | 53.97 | -3.98  | Avg                   | 355.50                  | 127.22                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9760           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9760           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12200          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12200          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14640          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14640          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17080          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17080          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19520          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19520          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21960          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21960          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |



**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**  
**X-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4880           | 60.76             | H            | 73.97 | -13.21 | Peak                  | 191.25                  | 128.83                 |                        |
| 4880           | 48.81             | H            | 53.97 | -5.16  | Avg                   | 191.25                  | 128.83                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7320           | 61.33             | H            | 73.97 | -12.64 | Peak                  | 216.25                  | 128.23                 |                        |
| 7320           | 49.38             | H            | 53.97 | -4.59  | Avg                   | 216.25                  | 128.23                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9760           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9760           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12200          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12200          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14640          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14640          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17080          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17080          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19520          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19520          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21960          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21960          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**  
**Y-Axis - Antenna #1**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 56.03          | V         | 73.97 | -17.94 | Peak            | 339.50            | 127.40           |                        |
| 4880        | 44.08          | V         | 53.97 | -9.89  | Avg             | 339.50            | 127.40           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 59.36          | V         | 73.97 | -14.61 | Peak            | 222.75            | 225.13           |                        |
| 7320        | 47.41          | V         | 53.97 | -6.56  | Avg             | 222.75            | 225.13           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restrected Band |
| 9760        |                |           |       |        |                 |                   |                  | Done via Conducted     |
|             |                |           |       |        |                 |                   |                  |                        |
| 12200       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12200       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14640       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14640       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17080       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17080       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19520       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19520       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21960       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21960       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24400       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24400       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**

**Y-Axis - Antenna #1**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 60.58          | H         | 73.97 | -13.39 | Peak            | 22.50             | 127.34           |                        |
| 4880        | 48.63          | H         | 53.97 | -5.34  | Avg             | 22.52             | 127.34           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 55.43          | H         | 73.97 | -18.54 | Peak            | 174.00            | 111.52           |                        |
| 7320        | 43.48          | H         | 53.97 | -10.49 | Avg             | 174.00            | 111.52           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restrected Band |
| 9760        |                |           |       |        |                 |                   |                  | Done via Conducted     |
|             |                |           |       |        |                 |                   |                  |                        |
| 12200       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12200       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14640       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14640       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17080       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17080       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19520       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19520       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21960       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21960       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24400       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24400       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**  
**Z-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4880           | 59.17             | V            | 73.97 | -14.80 | Peak                  | 333.50                  | 113.07                 |                        |
| 4880           | 47.22             | V            | 53.97 | -6.75  | Avg                   | 333.50                  | 113.07                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7320           | 55.61             | V            | 73.97 | -18.36 | Peak                  | 191.50                  | 127.52                 |                        |
| 7320           | 43.66             | V            | 53.97 | -10.31 | Avg                   | 191.50                  | 127.52                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9760           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9760           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12200          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12200          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14640          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14640          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17080          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17080          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19520          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19520          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21960          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21960          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**  
**Z-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4880           | 58.01             | H            | 73.97 | -15.96 | Peak                  | 110.00                  | 143.40                 |                        |
| 4880           | 46.06             | H            | 53.97 | -7.91  | Avg                   | 110.00                  | 143.40                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7320           | 60.81             | H            | 73.97 | -13.16 | Peak                  | 107.25                  | 159.46                 |                        |
| 7320           | 48.86             | H            | 53.97 | -5.11  | Avg                   | 107.25                  | 159.46                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9760           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9760           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12200          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12200          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14640          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14640          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17080          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17080          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19520          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19520          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21960          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21960          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - High Channel - Power Level -15**  
**X-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 59.96             | V            | 73.97 | -14.01 | Peak                  | 212.75                  | 112.77                 |                        |
| 4960           | 48.01             | V            | 53.97 | -5.96  | Avg                   | 212.75                  | 112.77                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7440           | 58.41             | V            | 73.97 | -15.56 | Peak                  | 39.75                   | 113.13                 |                        |
| 7440           | 46.46             | V            | 53.97 | -7.51  | Avg                   | 39.75                   | 113.13                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - High Channel - Power Level -15**  
**X-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 51.33             | H            | 73.97 | -22.64 | Peak                  | 337.25                  | 191.22                 |                        |
| 4960           | 39.38             | H            | 53.97 | -14.59 | Avg                   | 337.25                  | 191.22                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7440           | 55.45             | H            | 73.97 | -18.52 | Peak                  | 299.75                  | 193.01                 |                        |
| 7440           | 43.50             | H            | 53.97 | -10.47 | Avg                   | 299.75                  | 193.01                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECODate: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - High Channel - Power Level -15**  
**Y-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 55.76             | V            | 73.97 | -18.21 | Peak                  | 224.25                  | 160.89                 |                        |
| 4960           | 43.81             | V            | 53.97 | -10.16 | Avg                   | 224.25                  | 160.89                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7440           | 55.21             | V            | 73.97 | -18.76 | Peak                  | 318.25                  | 144.95                 |                        |
| 7440           | 43.26             | V            | 53.97 | -10.71 | Avg                   | 318.25                  | 144.95                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |



**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - High Channel - Power Level -15**  
**Y-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 59.56             | H            | 73.97 | -14.41 | Peak                  | 201.50                  | 113.07                 |                        |
| 4960           | 47.61             | H            | 53.97 | -6.36  | Avg                   | 201.50                  | 113.07                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7440           | 54.85             | H            | 73.97 | -19.12 | Peak                  | 304.50                  | 144.95                 |                        |
| 7440           | 42.90             | H            | 53.97 | -11.07 | Avg                   | 304.50                  | 144.95                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - High Channel - Power Level -15**  
**Z-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 58.10             | V            | 73.97 | -15.87 | Peak                  | 275.50                  | 128.83                 |                        |
| 4960           | 46.15             | V            | 53.97 | -7.82  | Avg                   | 275.50                  | 128.83                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7440           | 56.70             | V            | 73.97 | -17.27 | Peak                  | 62.25                   | 128.95                 |                        |
| 7440           | 44.75             | V            | 53.97 | -9.22  | Avg                   | 62.25                   | 128.95                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECODate: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - High Channel - Power Level -15**  
**Z-Axis - Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 59.34             | H            | 73.97 | -14.63 | Peak                  | 212.00                  | 144.71                 |                        |
| 4960           | 47.39             | H            | 53.97 | -6.58  | Avg                   | 212.00                  | 144.71                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7440           | 55.73             | H            | 73.97 | -18.24 | Peak                  | 319.00                  | 177.07                 |                        |
| 7440           | 43.78             | H            | 53.97 | -10.19 | Avg                   | 319.00                  | 177.07                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC Class B and FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Digital Portion and Non-Harmonic Emissions from the Transmitter**

**9 kHz to 30 MHz and 1 GHz to 25 GHz**

**Antenna #1**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments                      |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------------------------|
|                |                 |              |       |        |                       |                       |                         | No Emissions Detected         |
|                |                 |              |       |        |                       |                       |                         | from 9 kHz to 30 MHz          |
|                |                 |              |       |        |                       |                       |                         | for the Digital Portion       |
|                |                 |              |       |        |                       |                       |                         | for both the Vertical and     |
|                |                 |              |       |        |                       |                       |                         | Horizontal Polarizations.     |
|                |                 |              |       |        |                       |                       |                         | No Emissions Detected         |
|                |                 |              |       |        |                       |                       |                         | from 9 kHz to 30 MHz          |
|                |                 |              |       |        |                       |                       |                         | for the Non-Harmonic          |
|                |                 |              |       |        |                       |                       |                         | Emissions from the Tx for the |
|                |                 |              |       |        |                       |                       |                         | EUT for both the Vertical and |
|                |                 |              |       |        |                       |                       |                         | Horizontal Polarizations.     |
|                |                 |              |       |        |                       |                       |                         | Investigated in the           |
|                |                 |              |       |        |                       |                       |                         | X, Y, and Z-Axis              |
|                |                 |              |       |        |                       |                       |                         | No Emissions Detected         |
|                |                 |              |       |        |                       |                       |                         | from 1 GHz to 25 GHz          |
|                |                 |              |       |        |                       |                       |                         | for the Digital Portion       |
|                |                 |              |       |        |                       |                       |                         | for both the Vertical and     |
|                |                 |              |       |        |                       |                       |                         | Horizontal Polarizations.     |
|                |                 |              |       |        |                       |                       |                         | No Emissions Detected         |
|                |                 |              |       |        |                       |                       |                         | from 1 GHz to 25 GHz          |
|                |                 |              |       |        |                       |                       |                         | for the Non-Harmonic          |
|                |                 |              |       |        |                       |                       |                         | Emissions from the Tx for the |
|                |                 |              |       |        |                       |                       |                         | EUT for both the Vertical and |
|                |                 |              |       |        |                       |                       |                         | Horizontal Polarizations.     |
|                |                 |              |       |        |                       |                       |                         | Investigated in the           |
|                |                 |              |       |        |                       |                       |                         | X, Y, and Z-Axis              |
|                |                 |              |       |        |                       |                       |                         |                               |
|                |                 |              |       |        |                       |                       |                         |                               |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Low Channel - Power Level -7**  
**X-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 55.98             | V            | 73.97 | -17.99 | Peak                  | 192.50                  | 175.22                 |                        |
| 4810           | 44.03             | V            | 53.97 | -9.94  | Avg                   | 192.50                  | 175.22                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Low Channel - Power Level -7**  
**X-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 53.48             | H            | 73.97 | -20.49 | Peak                  | 127.50                  | 127.22                 |                        |
| 4810           | 41.53             | H            | 53.97 | -12.44 | Avg                   | 127.50                  | 127.22                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECODate: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - Low Channel - Power Level -7****Y-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 55.75             | V            | 73.97 | -18.22 | Peak                  | 320.00                  | 239.40                 |                        |
| 4810           | 43.80             | V            | 53.97 | -10.17 | Avg                   | 320.00                  | 239.40                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Low Channel - Power Level -7**

**Y-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 58.58             | H            | 73.97 | -15.39 | Peak                  | 205.50                  | 127.34                 |                        |
| 4810           | 46.63             | H            | 53.97 | -7.34  | Avg                   | 205.50                  | 127.34                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |



**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Low Channel - Power Level -7**  
**Z-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 53.52             | V            | 73.97 | -20.45 | Peak                  | 130.25                  | 159.46                 |                        |
| 4810           | 41.57             | V            | 53.97 | -12.40 | Avg                   | 130.25                  | 159.46                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Low Channel - Power Level -7**  
**Z-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4810           | 58.42             | H            | 73.97 | -15.55 | Peak                  | 299.25                  | 143.34                 |                        |
| 4810           | 46.47             | H            | 53.97 | -7.50  | Avg                   | 299.25                  | 143.34                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7215           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 7215           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9620           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9620           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12025          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12025          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14430          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14430          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 16835          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 16835          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19240          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19240          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21645          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21645          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24050          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24050          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**  
**X-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4880           | 57.80             | V            | 73.97 | -16.17 | Peak                  | 36.50                   | 111.46                 |                        |
| 4880           | 45.85             | V            | 53.97 | -8.12  | Avg                   | 36.50                   | 111.46                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7320           | 60.41             | V            | 73.97 | -13.56 | Peak                  | 212.25                  | 127.26                 |                        |
| 7320           | 48.46             | V            | 53.97 | -5.51  | Avg                   | 212.25                  | 127.26                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9760           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9760           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12200          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12200          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14640          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14640          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17080          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17080          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19520          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19520          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21960          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21960          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**  
**X-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4880           | 54.78             | H            | 73.97 | -19.19 | Peak                  | 129.00                  | 111.28                 |                        |
| 4880           | 42.83             | H            | 53.97 | -11.14 | Avg                   | 129.00                  | 111.28                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7320           | 58.67             | H            | 73.97 | -15.30 | Peak                  | 116.25                  | 127.40                 |                        |
| 7320           | 46.72             | H            | 53.97 | -7.25  | Avg                   | 116.25                  | 127.40                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9760           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9760           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12200          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12200          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14640          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14640          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17080          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17080          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19520          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19520          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21960          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21960          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**

**Y-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4880           | 57.29             | V            | 73.97 | -16.68 | Peak                  | 188.75                  | 111.46                 |                        |
| 4880           | 45.34             | V            | 53.97 | -8.63  | Avg                   | 188.75                  | 111.46                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7320           | 58.02             | V            | 73.97 | -15.95 | Peak                  | 10.50                   | 111.28                 |                        |
| 7320           | 46.07             | V            | 53.97 | -7.90  | Avg                   | 10.50                   | 111.28                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9760           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9760           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12200          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12200          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14640          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14640          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17080          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17080          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19520          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19520          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21960          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21960          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**  
**Y-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4880           | 58.60             | H            | 73.97 | -15.37 | Peak                  | 297.25                  | 111.34                 |                        |
| 4880           | 46.65             | H            | 53.97 | -7.32  | Avg                   | 297.25                  | 111.34                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7320           | 58.65             | H            | 73.97 | -15.32 | Peak                  | 286.75                  | 127.28                 |                        |
| 7320           | 46.70             | H            | 53.97 | -7.27  | Avg                   | 286.75                  | 127.28                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9760           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9760           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12200          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12200          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14640          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14640          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17080          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17080          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19520          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19520          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21960          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21960          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**  
**Z-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4880           | 55.70             | V            | 73.97 | -18.27 | Peak                  | 148.00                  | 175.40                 |                        |
| 4880           | 43.75             | V            | 53.97 | -10.22 | Avg                   | 148.00                  | 175.40                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7320           | 57.84             | V            | 73.97 | -16.13 | Peak                  | 138.50                  | 111.28                 |                        |
| 7320           | 45.89             | V            | 53.97 | -8.08  | Avg                   | 138.50                  | 111.28                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9760           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9760           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12200          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12200          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14640          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14640          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17080          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17080          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19520          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19520          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21960          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21960          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Middle Channel - Power Level -7**  
**Z-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4880           | 60.06             | H            | 73.97 | -13.91 | Peak                  | 198.00                  | 127.46                 |                        |
| 4880           | 48.11             | H            | 53.97 | -5.86  | Avg                   | 198.00                  | 127.46                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7320           | 55.47             | H            | 73.97 | -18.50 | Peak                  | 43.00                   | 143.22                 |                        |
| 7320           | 43.52             | H            | 53.97 | -10.45 | Avg                   | 43.00                   | 143.22                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9760           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9760           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12200          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12200          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14640          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14640          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17080          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17080          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19520          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19520          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 21960          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 21960          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |



**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - High Channel - Power Level -15**  
**X-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 50.59             | V            | 73.97 | -23.38 | Peak                  | 315.75                  | 111.46                 |                        |
| 4960           | 38.64             | V            | 53.97 | -15.33 | Avg                   | 315.75                  | 111.46                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7440           | 55.32             | V            | 73.97 | -18.65 | Peak                  | 331.75                  | 191.46                 |                        |
| 7440           | 43.37             | V            | 53.97 | -10.60 | Avg                   | 331.75                  | 191.46                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - High Channel - Power Level -15**  
**X-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 50.75             | H            | 73.97 | -23.22 | Peak                  | 80.25                   | 175.34                 |                        |
| 4960           | 38.80             | H            | 53.97 | -15.17 | Avg                   | 80.25                   | 175.34                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7440           | 55.25             | H            | 73.97 | -18.72 | Peak                  | 281.25                  | 239.64                 |                        |
| 7440           | 43.30             | H            | 53.97 | -10.67 | Avg                   | 281.25                  | 239.64                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - High Channel - Power Level -15**  
**Y-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 51.13             | V            | 73.97 | -22.84 | Peak                  | 147.50                  | 175.28                 |                        |
| 4960           | 39.18             | V            | 53.97 | -14.79 | Avg                   | 147.50                  | 175.28                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7440           | 54.26             | V            | 73.97 | -19.71 | Peak                  | 281.25                  | 239.64                 |                        |
| 7440           | 42.31             | V            | 53.97 | -11.66 | Avg                   | 281.25                  | 239.64                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - High Channel - Power Level -15**  
**Y-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 50.63             | H            | 73.97 | -23.34 | Peak                  | 224.25                  | 159.28                 |                        |
| 4960           | 38.68             | H            | 53.97 | -15.29 | Avg                   | 224.25                  | 159.28                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7440           | 55.39             | H            | 73.97 | -18.58 | Peak                  | 49.75                   | 111.46                 |                        |
| 7440           | 43.44             | H            | 53.97 | -10.53 | Avg                   | 49.75                   | 111.46                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - High Channel - Power Level -15**  
**Z-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 57.90             | V            | 73.97 | -16.07 | Peak                  | 52.25                   | 143.40                 |                        |
| 4960           | 45.95             | V            | 53.97 | -8.02  | Avg                   | 52.25                   | 143.40                 |                        |
| 7440           | 55.70             | V            | 73.97 | -18.27 | Peak                  | 260.75                  | 223.52                 |                        |
| 7440           | 43.75             | V            | 53.97 | -10.22 | Avg                   | 260.75                  | 223.52                 |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - High Channel - Power Level -15**  
**Z-Axis - Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4960           | 50.31             | H            | 73.97 | -23.66 | Peak                  | 310.00                  | 161.01                 |                        |
| 4960           | 38.36             | H            | 53.97 | -15.61 | Avg                   | 310.00                  | 161.01                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 7440           | 54.96             | H            | 73.97 | -19.01 | Peak                  | 164.75                  | 175.40                 |                        |
| 7440           | 43.01             | H            | 53.97 | -10.96 | Avg                   | 164.75                  | 175.40                 |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
| 9920           |                   |              |       |        |                       |                         |                        | Not in Restrected Band |
| 9920           |                   |              |       |        |                       |                         |                        | Done via Conducted     |
|                |                   |              |       |        |                       |                         |                        |                        |
| 12400          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 12400          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 14880          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 14880          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 17360          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 17360          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 19840          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 19840          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 22320          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 22320          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
| 24800          |                   |              |       |        |                       |                         |                        | No Emissions           |
| 24800          |                   |              |       |        |                       |                         |                        | Detected               |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |
|                |                   |              |       |        |                       |                         |                        |                        |

**FCC Class B and FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

Date: 05/01/2017

Lab: D

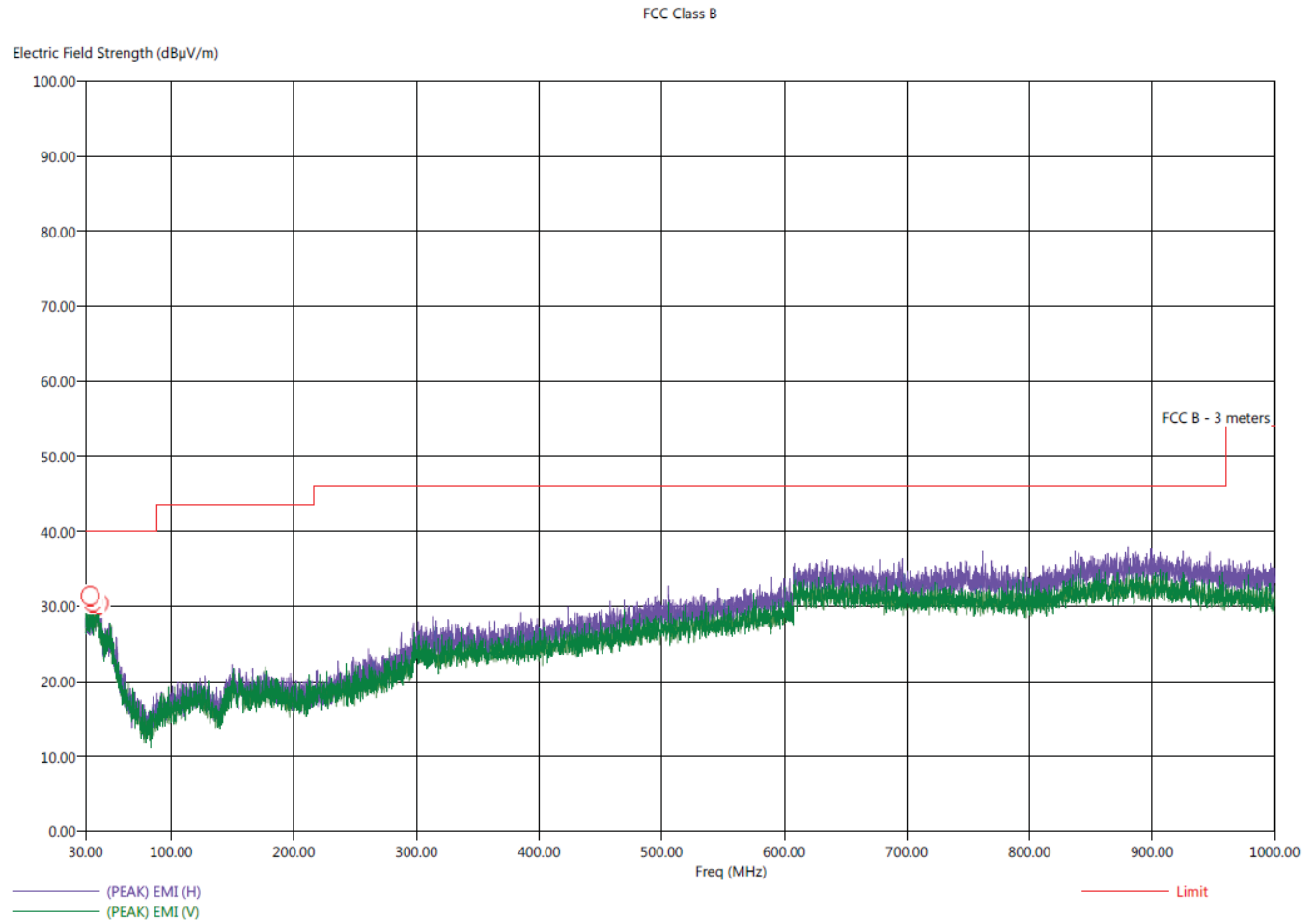
Tested By: Kyle Fujimoto

**Digital Portion and Non-Harmonic Emissions from the Transmitter**
**9 kHz to 30 MHz and 1 GHz to 25 GHz**
**Antenna #2**

| Freq.<br>(MHz) | Level<br>(dBuV) | Pol<br>(v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Ant.<br>Height<br>(m) | Table<br>Angle<br>(deg) | Comments                      |
|----------------|-----------------|--------------|-------|--------|-----------------------|-----------------------|-------------------------|-------------------------------|
|                |                 |              |       |        |                       |                       |                         | No Emissions Detected         |
|                |                 |              |       |        |                       |                       |                         | from 9 kHz to 30 MHz          |
|                |                 |              |       |        |                       |                       |                         | for the Digital Portion       |
|                |                 |              |       |        |                       |                       |                         | for both the Vertical and     |
|                |                 |              |       |        |                       |                       |                         | Horizontal Polarizations.     |
|                |                 |              |       |        |                       |                       |                         |                               |
|                |                 |              |       |        |                       |                       |                         | No Emissions Detected         |
|                |                 |              |       |        |                       |                       |                         | from 9 kHz to 30 MHz          |
|                |                 |              |       |        |                       |                       |                         | for the Non-Harmonic          |
|                |                 |              |       |        |                       |                       |                         | Emissions from the Tx for the |
|                |                 |              |       |        |                       |                       |                         | EUT for both the Vertical and |
|                |                 |              |       |        |                       |                       |                         | Horizontal Polarizations.     |
|                |                 |              |       |        |                       |                       |                         |                               |
|                |                 |              |       |        |                       |                       |                         | Investigated in the           |
|                |                 |              |       |        |                       |                       |                         | X, Y, and Z-Axis              |
|                |                 |              |       |        |                       |                       |                         |                               |
|                |                 |              |       |        |                       |                       |                         | No Emissions Detected         |
|                |                 |              |       |        |                       |                       |                         | from 1 GHz to 25 GHz          |
|                |                 |              |       |        |                       |                       |                         | for the Digital Portion       |
|                |                 |              |       |        |                       |                       |                         | for both the Vertical and     |
|                |                 |              |       |        |                       |                       |                         | Horizontal Polarizations.     |
|                |                 |              |       |        |                       |                       |                         |                               |
|                |                 |              |       |        |                       |                       |                         | No Emissions Detected         |
|                |                 |              |       |        |                       |                       |                         | from 1 GHz to 25 GHz          |
|                |                 |              |       |        |                       |                       |                         | for the Non-Harmonic          |
|                |                 |              |       |        |                       |                       |                         | Emissions from the Tx for the |
|                |                 |              |       |        |                       |                       |                         | EUT for both the Vertical and |
|                |                 |              |       |        |                       |                       |                         | Horizontal Polarizations.     |
|                |                 |              |       |        |                       |                       |                         |                               |
|                |                 |              |       |        |                       |                       |                         | Investigated in the           |
|                |                 |              |       |        |                       |                       |                         | X, Y, and Z-Axis              |

Title: Pre-Scan - FCC Class B  
File: Agilent - Pre-Scan - Antenna 1 - X-Axis - FCC Class B - 30 MHz to 1000 MHz.set  
Operator: Kyle Fujimoto  
EUT Type: Ecolink Pet Immune Motion Detector  
EUT Condition: The EUT is continuously transmitting at low channel - Antenna 1 - X-Axis Worst Case  
Comments: Company: Ecolink Intelligent Technology, Inc.  
Model: PIRZB1-ECO

5/5/2017 8:13:14 AM  
Sequence: Preliminary Scan



No additional emissions, except for harmonics, were found between 9 kHz – 30 MHz and 1 GHz – 25 GHz.



Title: Radiated Final - FCC Class B  
File: Agilent - Final Scan - Antenna 1 - FCC Class B - 30 MHz to 1000 MHz.set  
Operator: Kyle Fujimoto  
EUT Type: EcoLink Pet Immune Motion Detector  
EUT Condition: The EUT is continuously transmitting at low channel - Antenna 1 - X-Axis Worst Case  
Comments: Company: Ecolink Intelligent Technology, Inc.  
Model: PIRZB1-ECO

5/5/2017 8:47:49 AM  
Sequence: Final Measurements

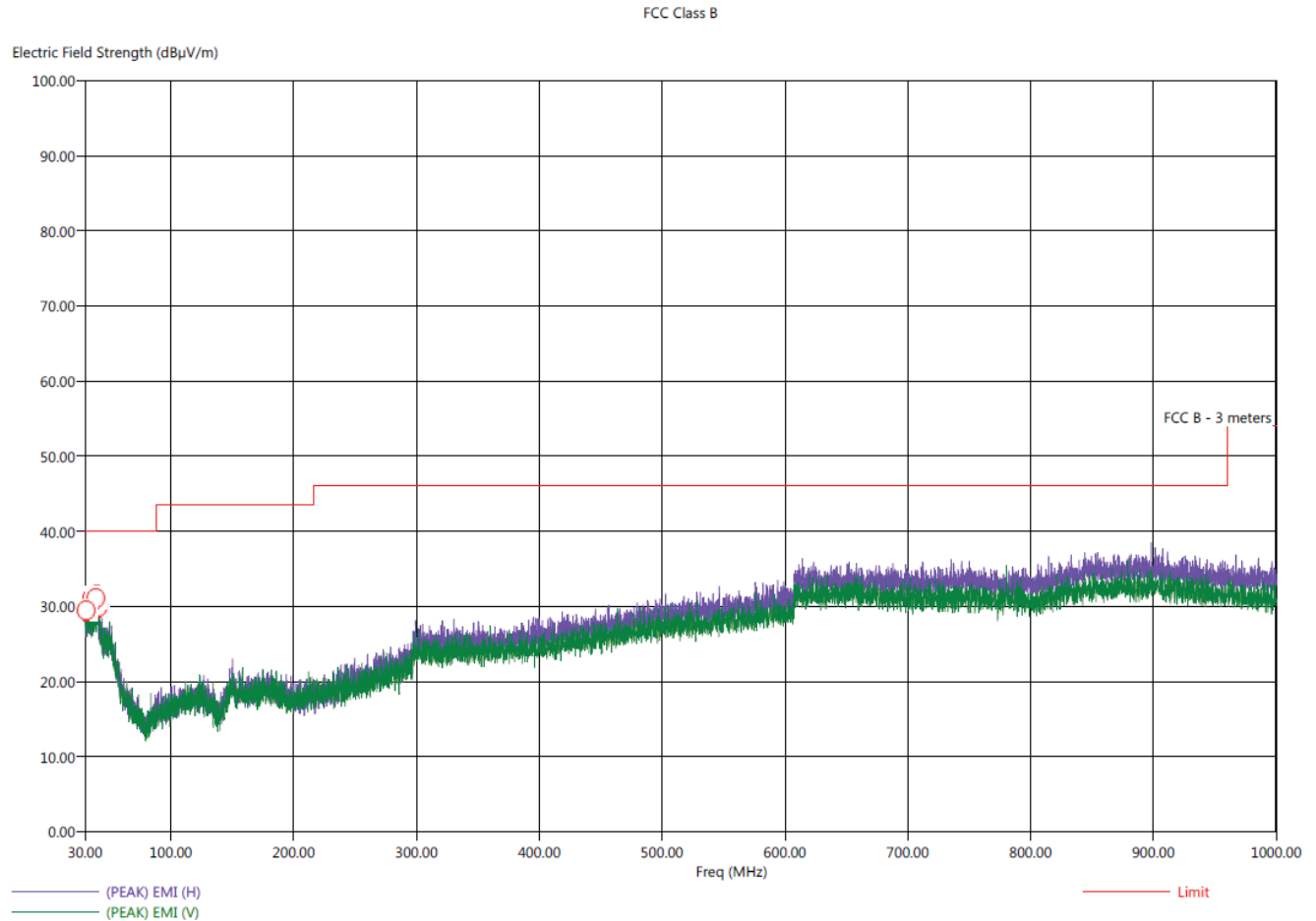
## FCC Class B

| Freq<br>(MHz) | Pol | (PEAK) EMI<br>(dBμV/m) | (OP) EMI<br>(dBμV/m) | (PEAK) Margin<br>(dB) | (QP) Margin<br>(dB) | Limit<br>(dBμV/m) | Transducer<br>(dB) | Cable<br>(dB) | Ttbl Aql<br>(dca) | Twr Ht<br>(cm) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|--------------------|---------------|-------------------|----------------|
| 33.90         | V   | 31.35                  | 26.30                | -8.65                 | -13.70              | 40.00             | 24.23              | 0.34          | 158.75            | 223.70         |
| 35.90         | V   | 31.56                  | 26.45                | -8.44                 | -13.55              | 40.00             | 24.49              | 0.36          | 164.25            | 336.71         |
| 36.60         | H   | 31.47                  | 26.47                | -8.53                 | -13.53              | 40.00             | 24.72              | 0.37          | 302.50            | 111.58         |
| 38.40         | H   | 32.20                  | 26.89                | -7.80                 | -13.11              | 40.00             | 25.08              | 0.39          | 108.50            | 304.65         |
| 39.90         | H   | 32.23                  | 27.08                | -7.77                 | -12.92              | 40.00             | 25.29              | 0.40          | 133.25            | 175.64         |
| 41.20         | V   | 32.35                  | 26.63                | -7.65                 | -13.37              | 40.00             | 24.37              | 0.40          | 208.50            | 368.35         |



Title: Pre-Scan - FCC Class B  
File: Agilent - Pre-Scan - Antenna 2 - X-Axis - FCC Class B - 30 MHz to 1000 MHz.set  
Operator: Kyle Fujimoto  
EUT Type: Ecolink Pet Immune Motion Detector  
EUT Condition: The EUT is continuously transmitting at low channel - Antenna 2 - X-Axis Worst Case  
Comments: Company: Ecolink Intelligent Technology, Inc.  
Model: PIRZB1-ECO

5/5/2017 9:07:27 AM  
Sequence: Preliminary Scan



No additional emissions, except for harmonics, were found between 9 kHz – 30 MHz and 1 GHz – 25 GHz.

Title: Radiated Final - FCC Class B  
File: Agilent - Final Scan - Antenna 2 - FCC Class B - 30 MHz to 1000 MHz.set  
Operator: Kyle Fujimoto  
EUT Type: EcoLink Pet Immune Motion Detector  
EUT Condition: The EUT is continuously transmitting at low channel - Antenna 2 - X-Axis Worst Case  
Comments: Company: Ecolink Intelligent Technology, Inc.  
Model: PIRZB1-ECO

5/5/2017 9:38:40 AM  
Sequence: Final Measurements

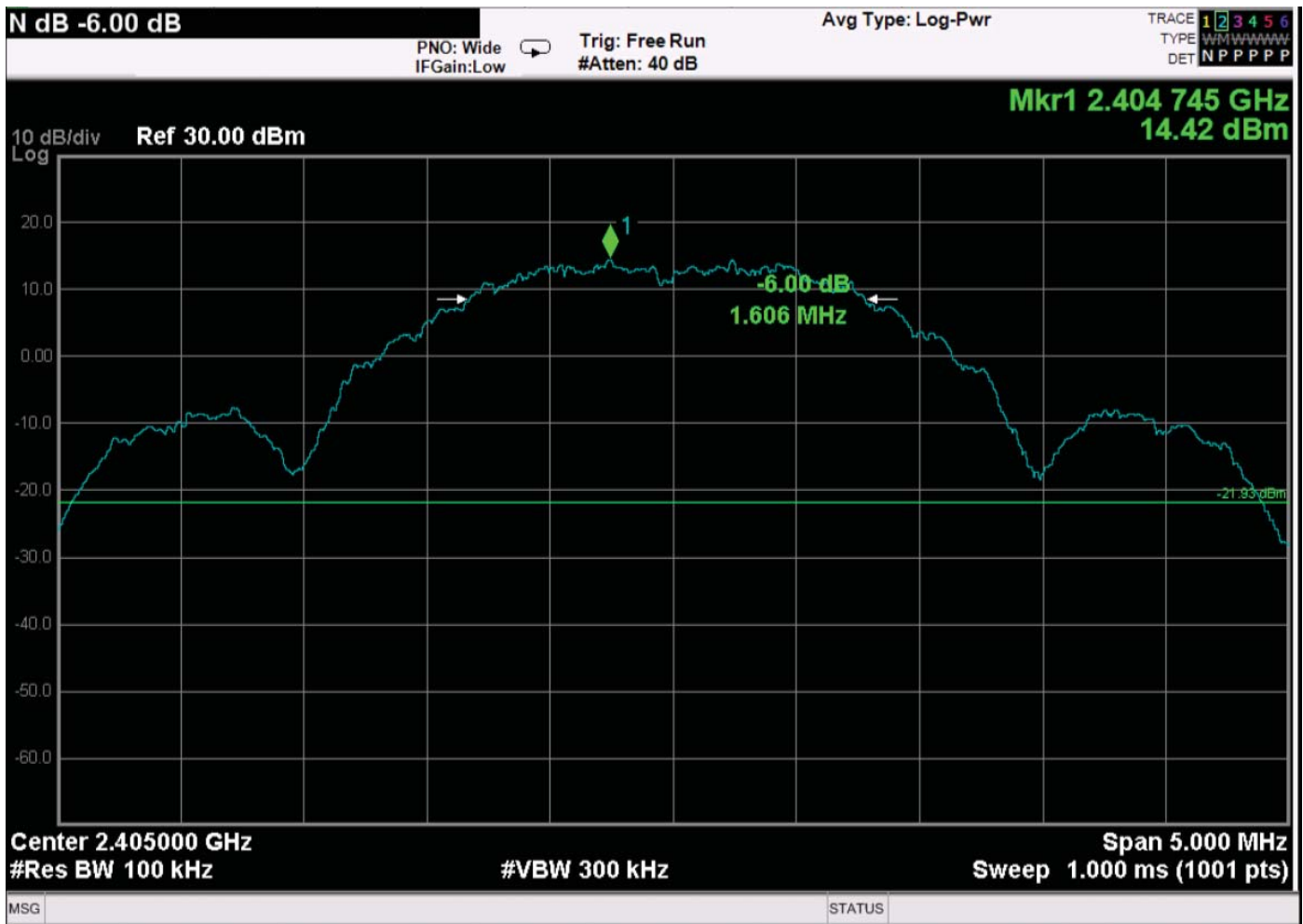
## FCC Class B

| Freq<br>(MHz) | Pol | (PEAK) EMI<br>(dBμV/m) | (OP) EMI<br>(dBμV/m) | (PEAK) Margin<br>(dB) | (QP) Margin<br>(dB) | Limit<br>(dBμV/m) | Transducer<br>(dB) | Cable<br>(dB) | Ttbt Aql<br>(deg) | Twr Ht<br>(cm) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|--------------------|---------------|-------------------|----------------|
| 34.00         | V   | 31.19                  | 26.42                | -8.81                 | -13.58              | 40.00             | 24.24              | 0.34          | 33.25             | 304.29         |
| 39.70         | H   | 32.61                  | 27.48                | -7.39                 | -12.52              | 40.00             | 25.33              | 0.40          | 210.50            | 255.64         |
| 42.10         | H   | 30.90                  | 25.77                | -9.10                 | -14.23              | 40.00             | 23.72              | 0.40          | 146.00            | 175.76         |
| 723.00        | H   | 36.03                  | 31.01                | -9.97                 | -14.99              | 46.00             | 24.23              | 2.44          | 173.75            | 287.94         |
| 846.50        | H   | 37.39                  | 32.44                | -8.61                 | -13.56              | 46.00             | 26.16              | 2.59          | 103.00            | 239.82         |
| 877.90        | H   | 37.76                  | 32.72                | -8.24                 | -13.28              | 46.00             | 26.64              | 2.60          | 268.50            | 320.41         |

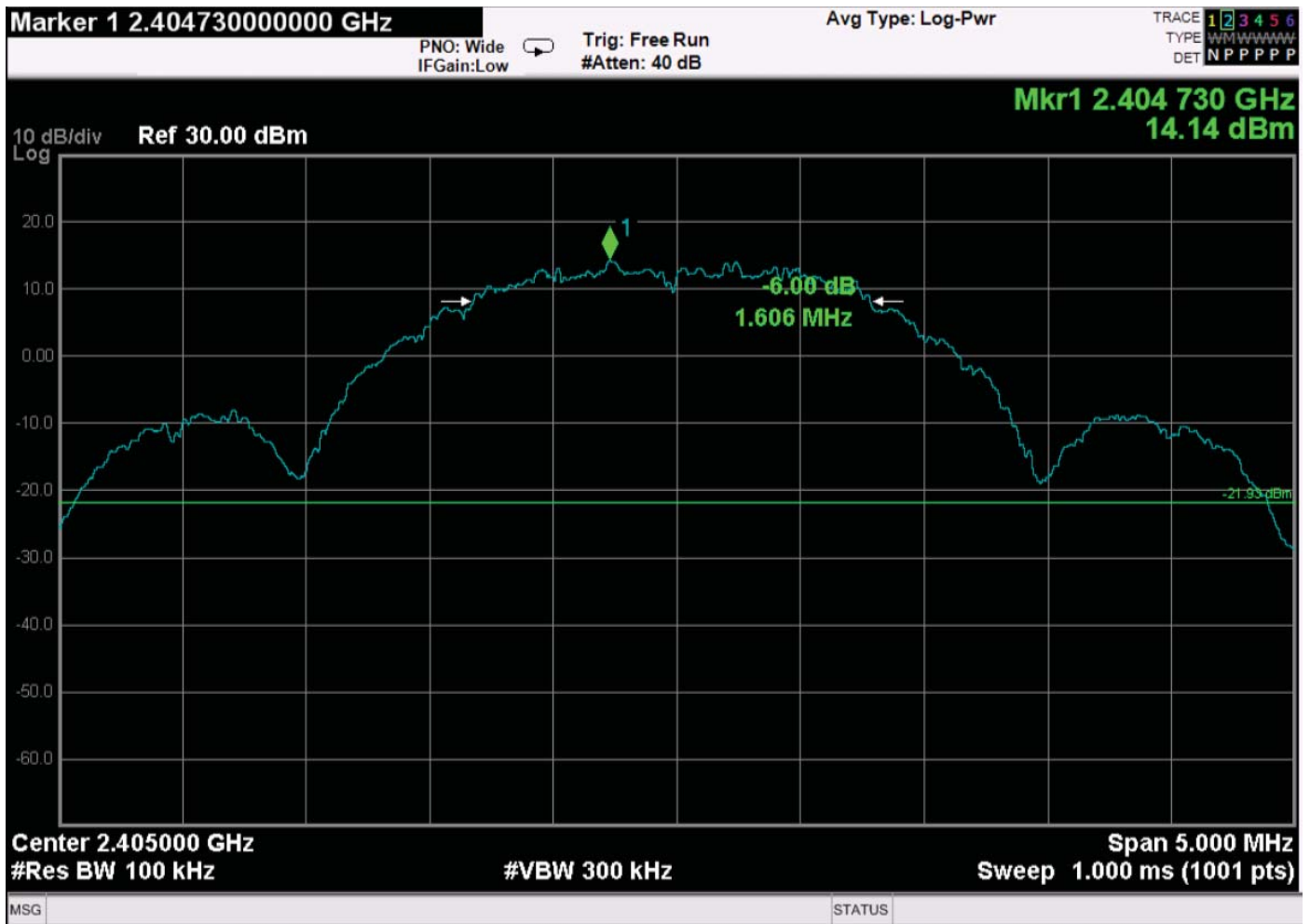


***-6 dB BANDWIDTH***

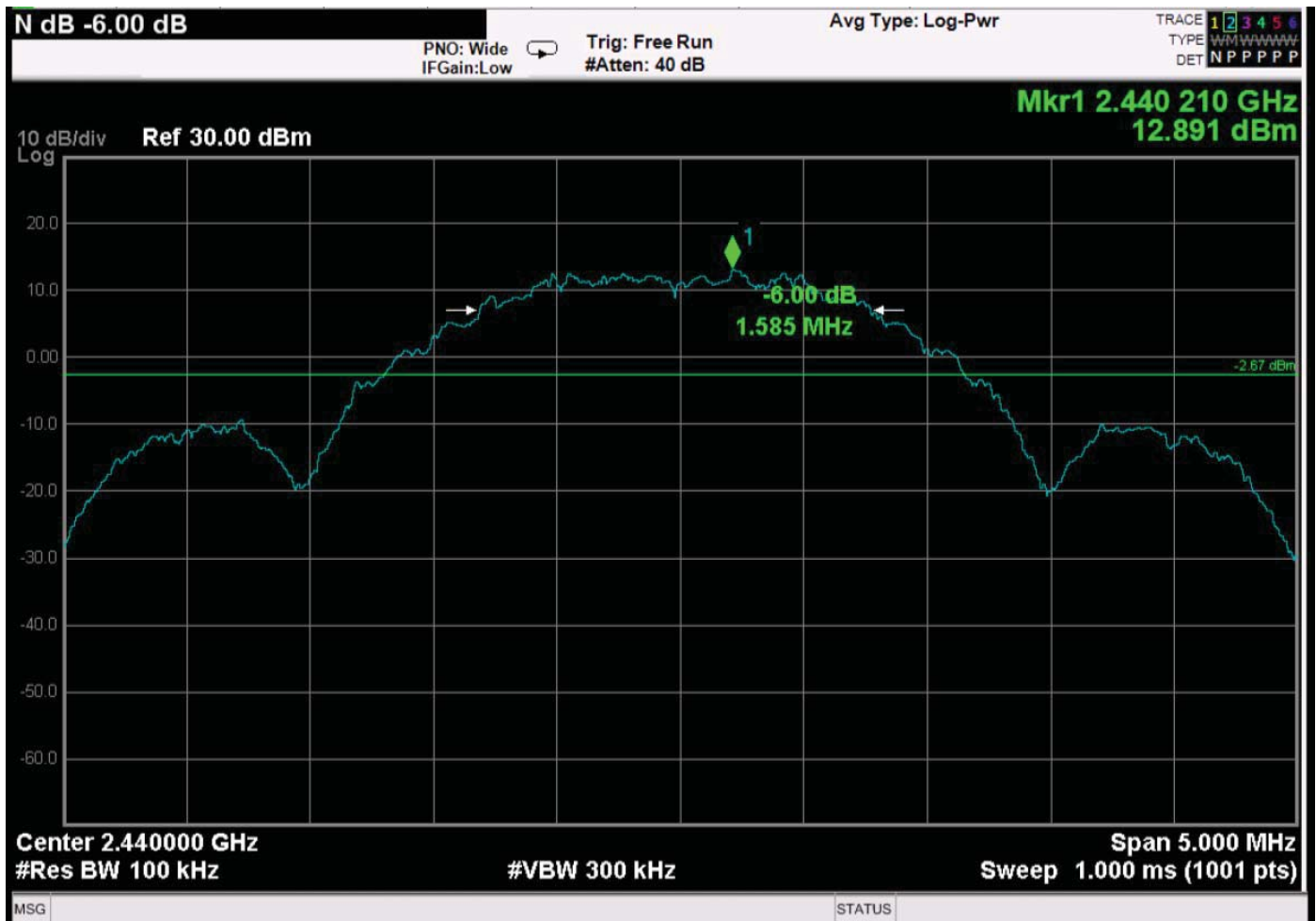
***DATA SHEETS***



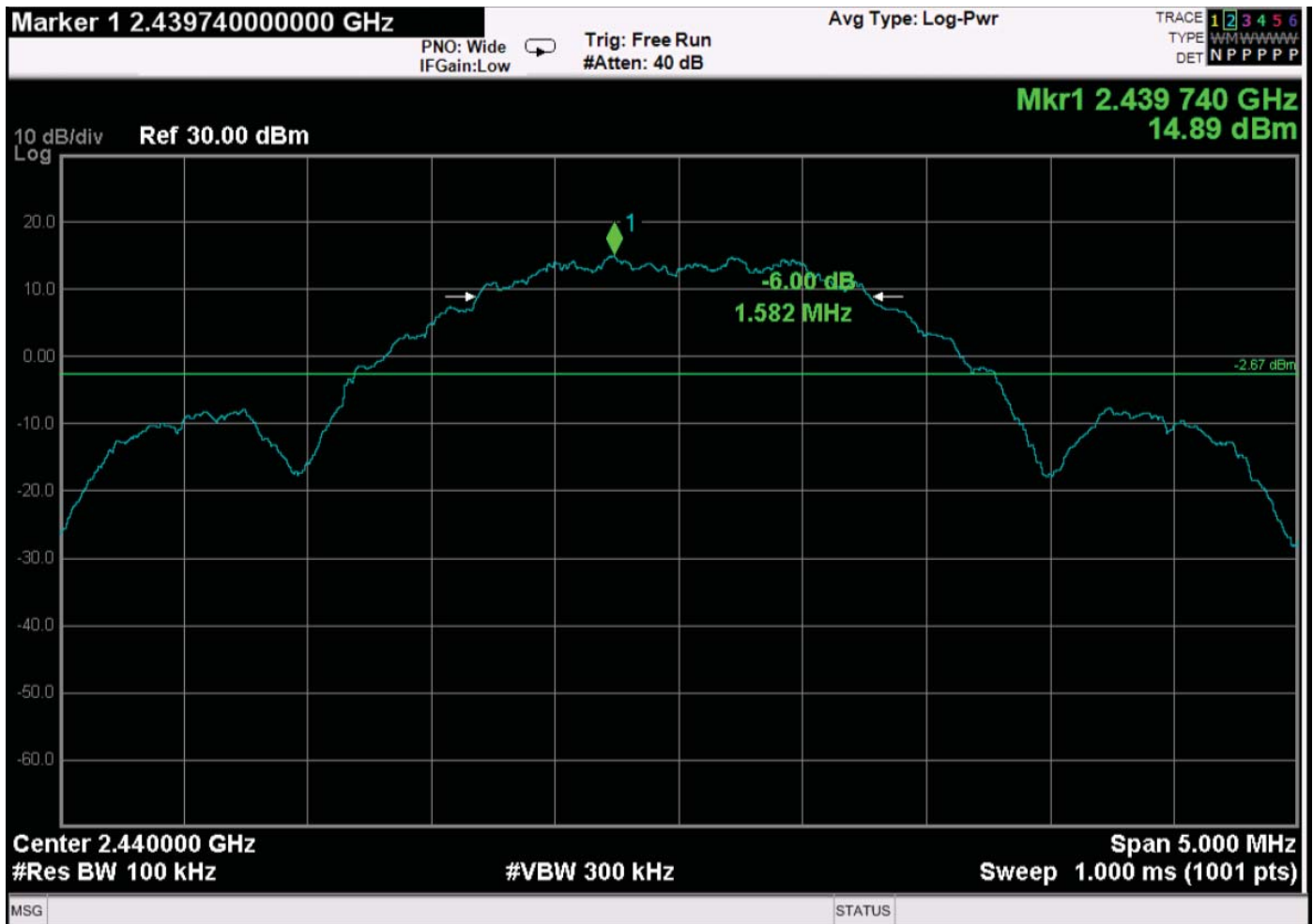
-6 dB Bandwidth – Low Channel – Antenna #1



-6 dB Bandwidth – Low Channel – Antenna #2

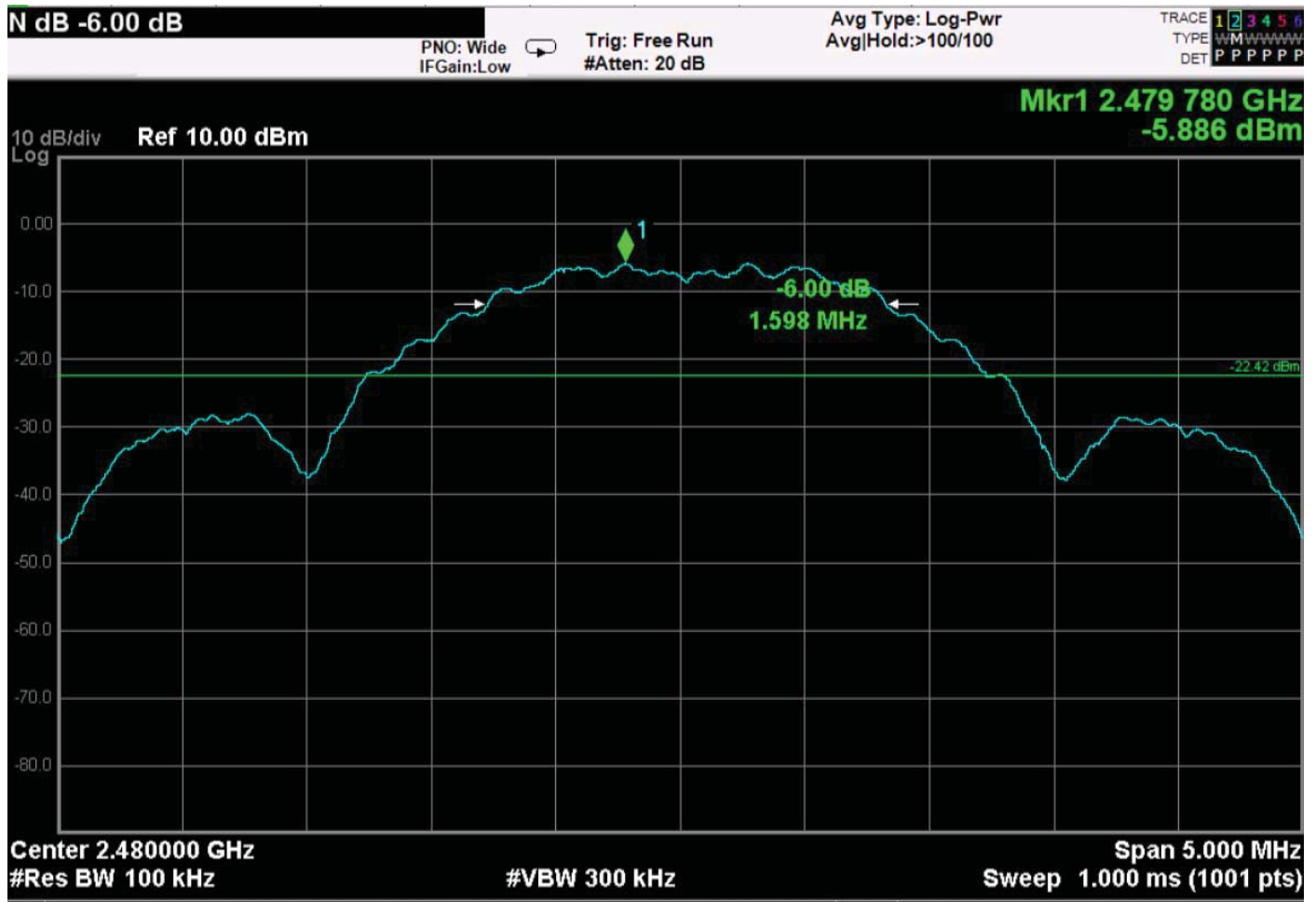


-6 dB Bandwidth – Middle Channel – Antenna #1

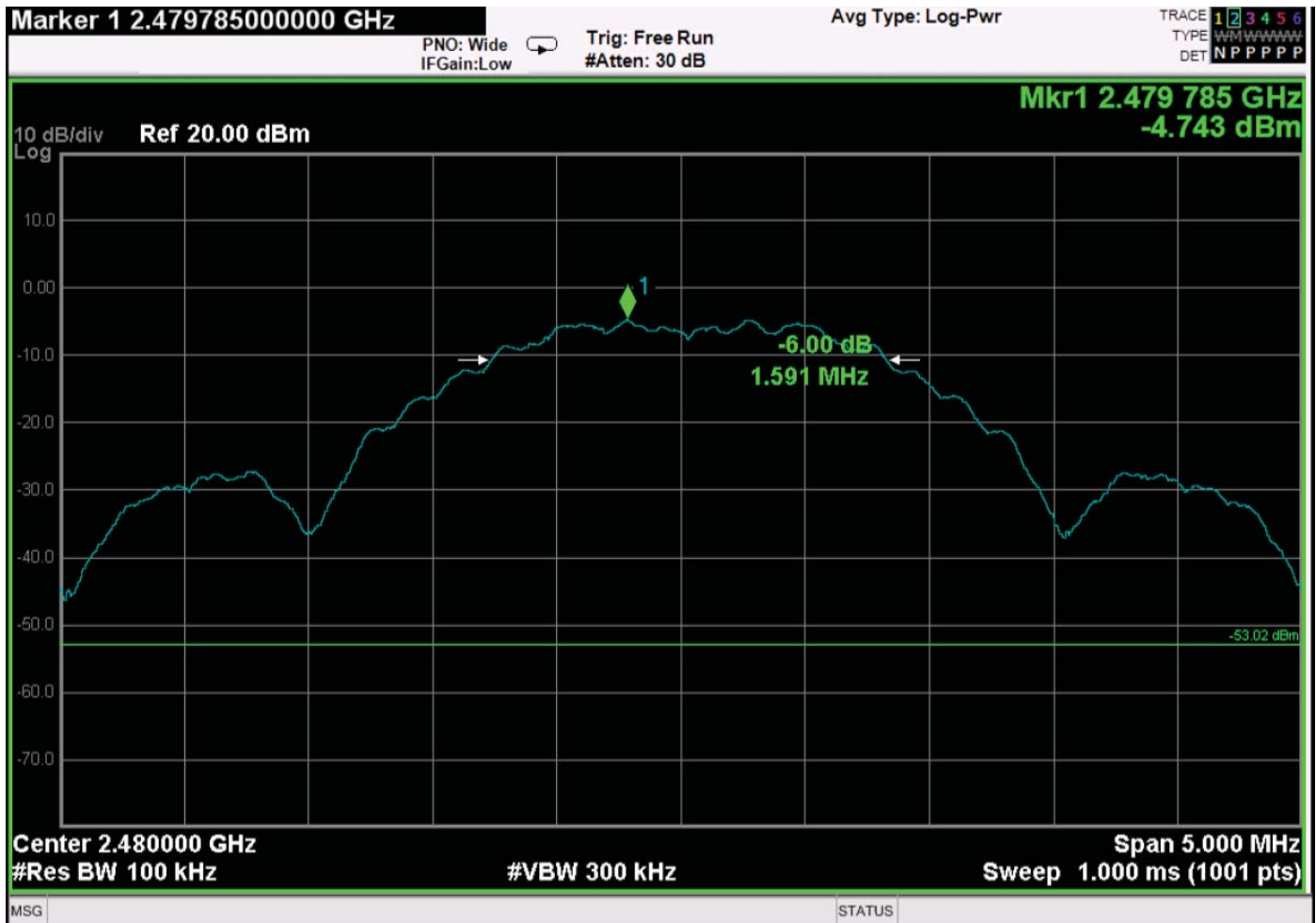


-6 dB Bandwidth – Middle Channel – Antenna #2





-6 dB Bandwidth – High Channel – Antenna #1

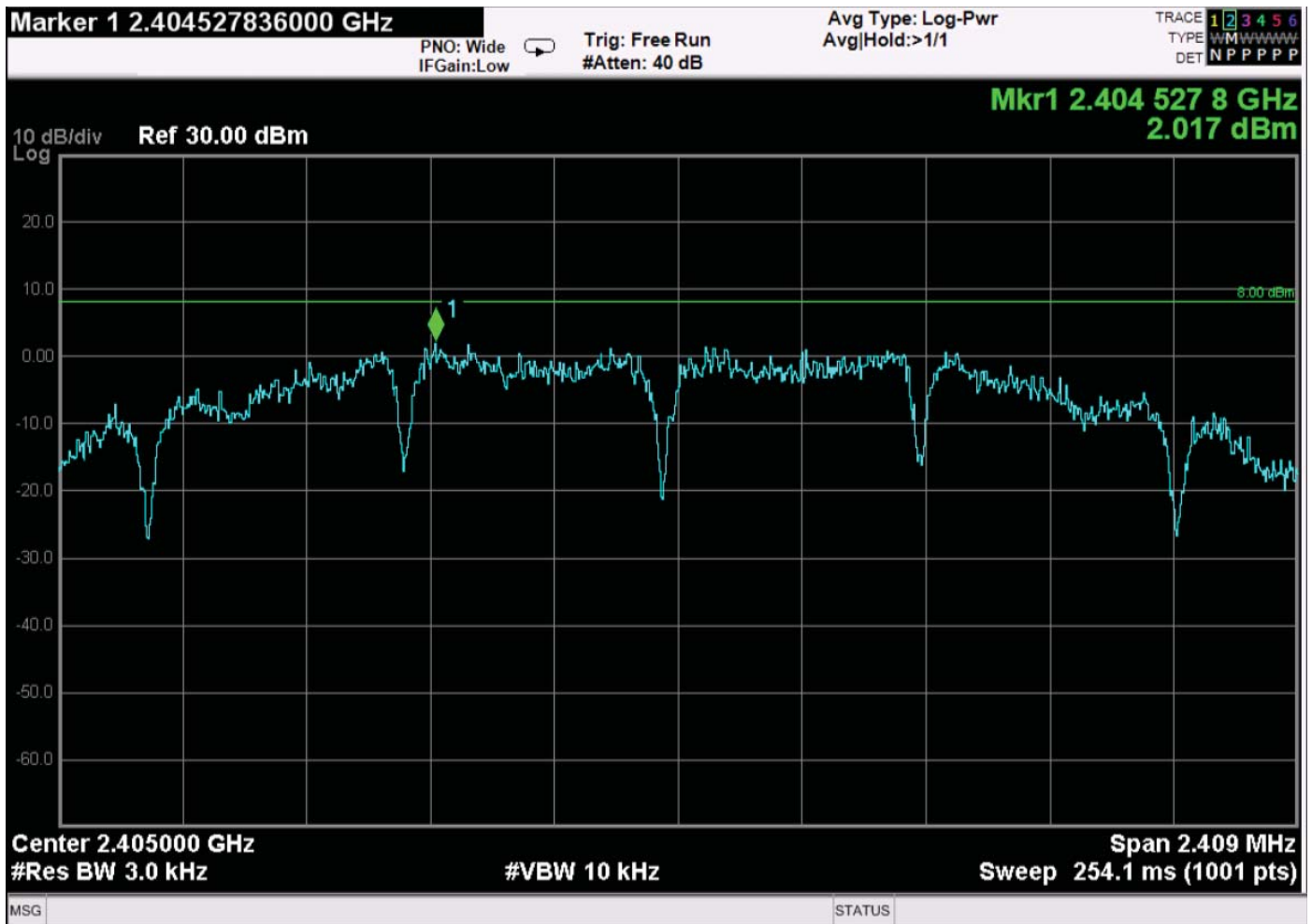


-6 dB Bandwidth – High Channel – Antenna #2

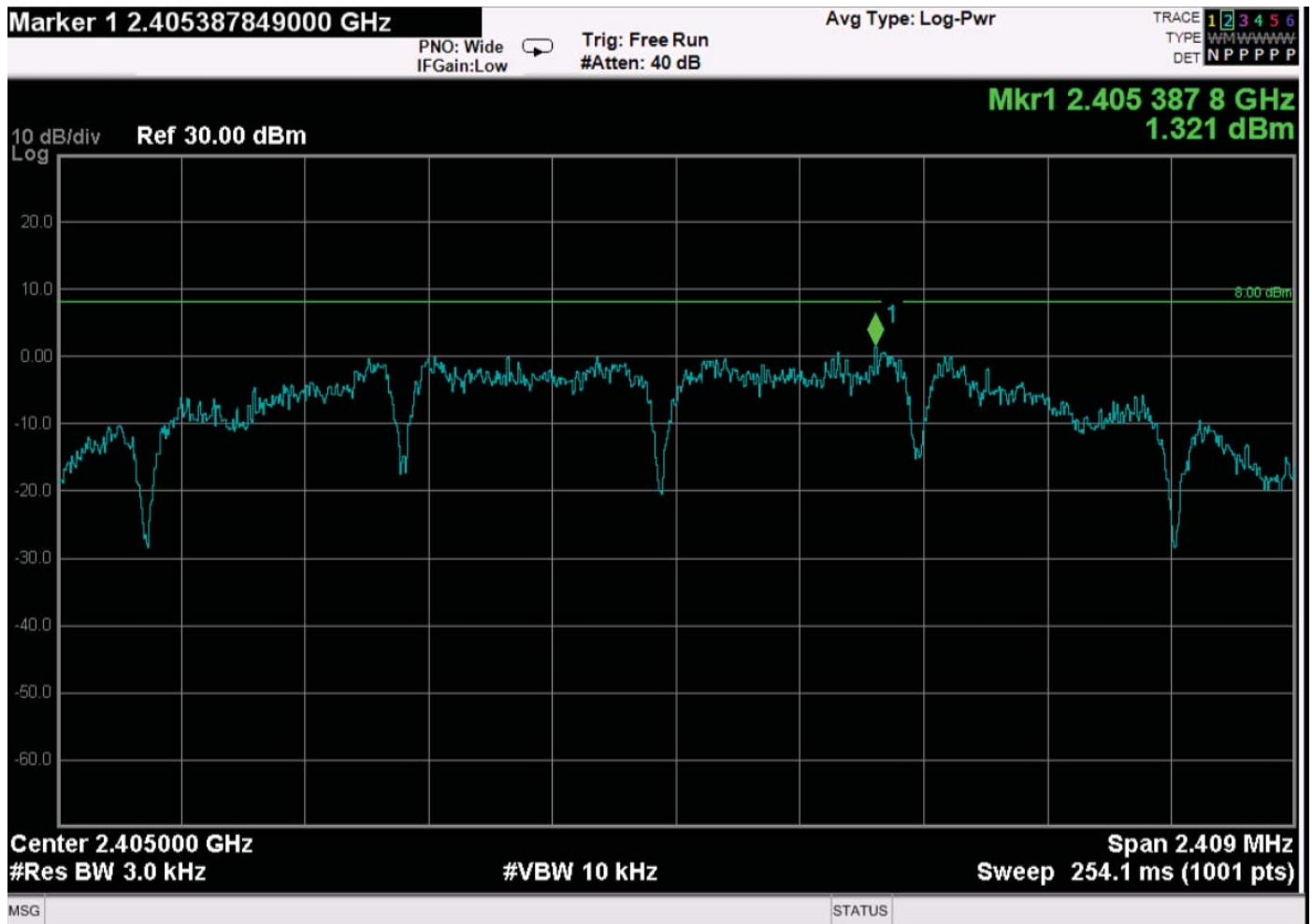


***SPECTRAL DENSITY OUTPUT***

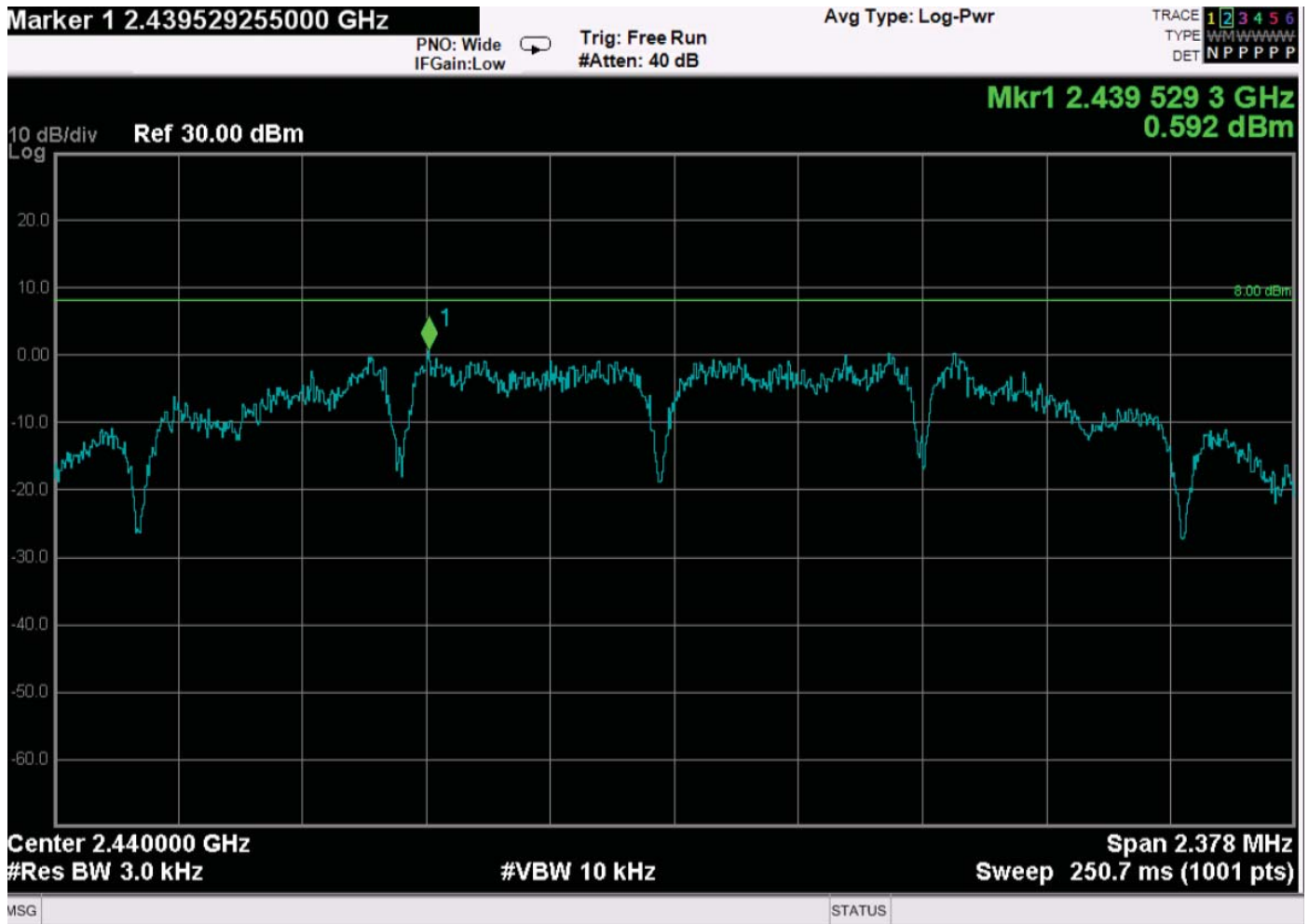
***DATA SHEETS***



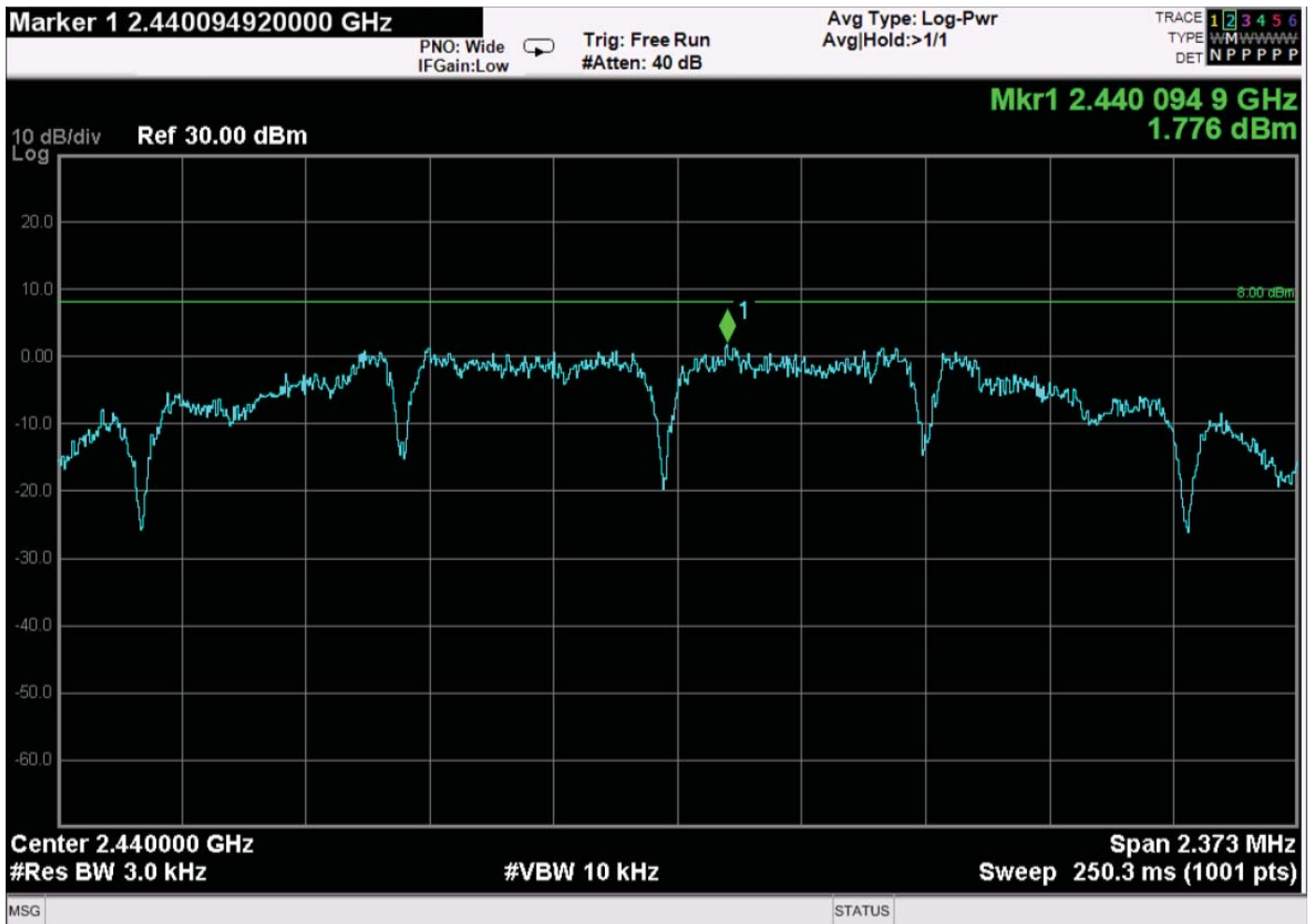
Spectral Density – Low Channel – Antenna #1



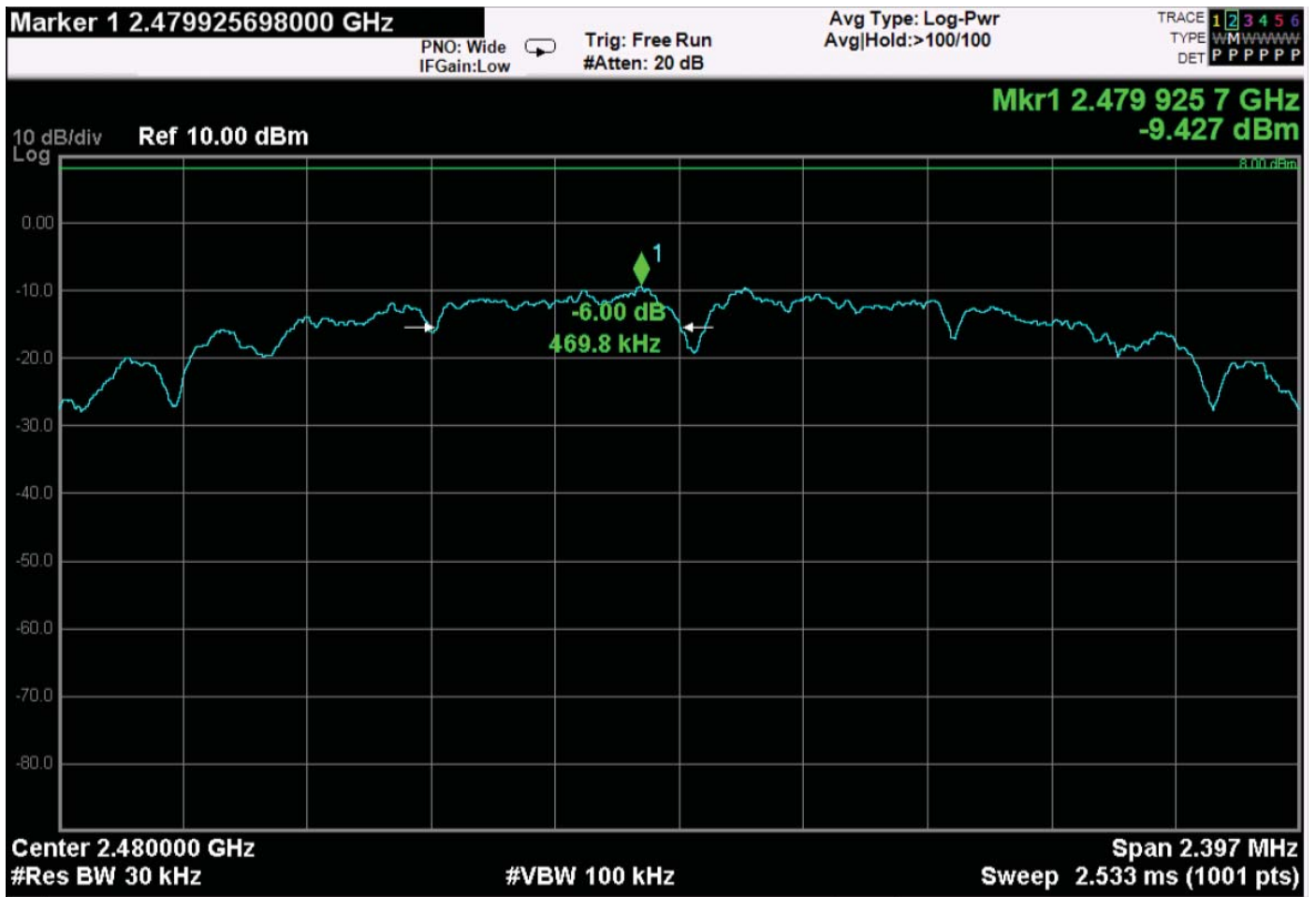
Spectral Density – Low Channel – Antenna #2



Spectral Density – Middle Channel – Antenna #1



Spectral Density – Middle Channel – Antenna #2

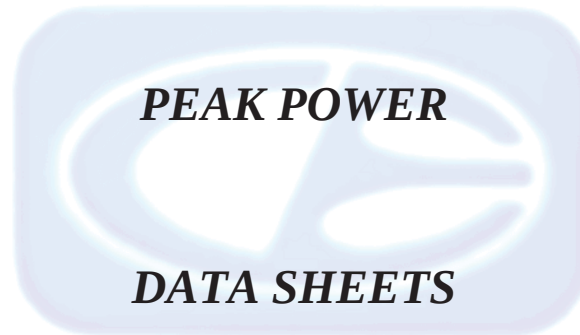


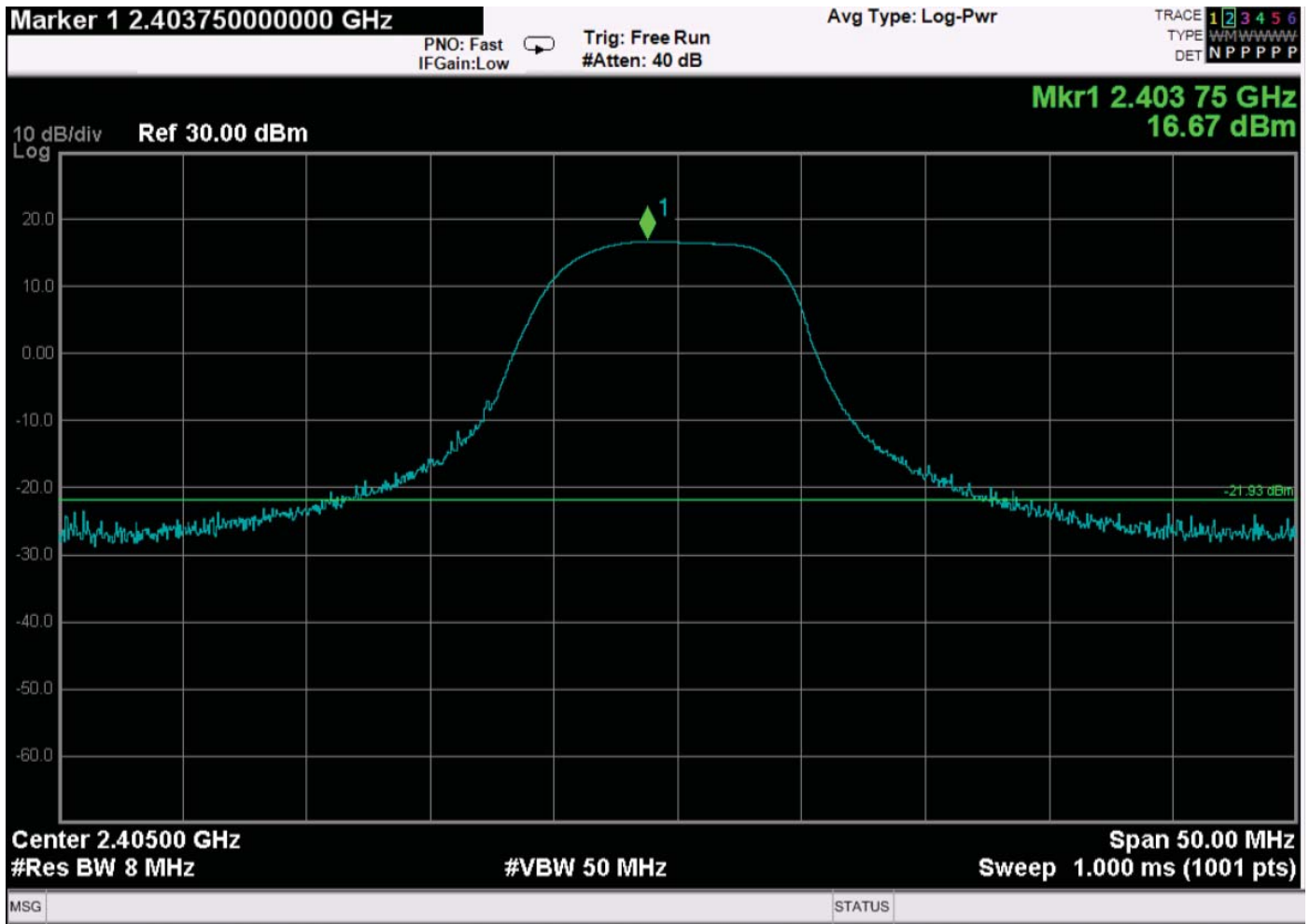
Spectral Density – High Channel – Antenna #1



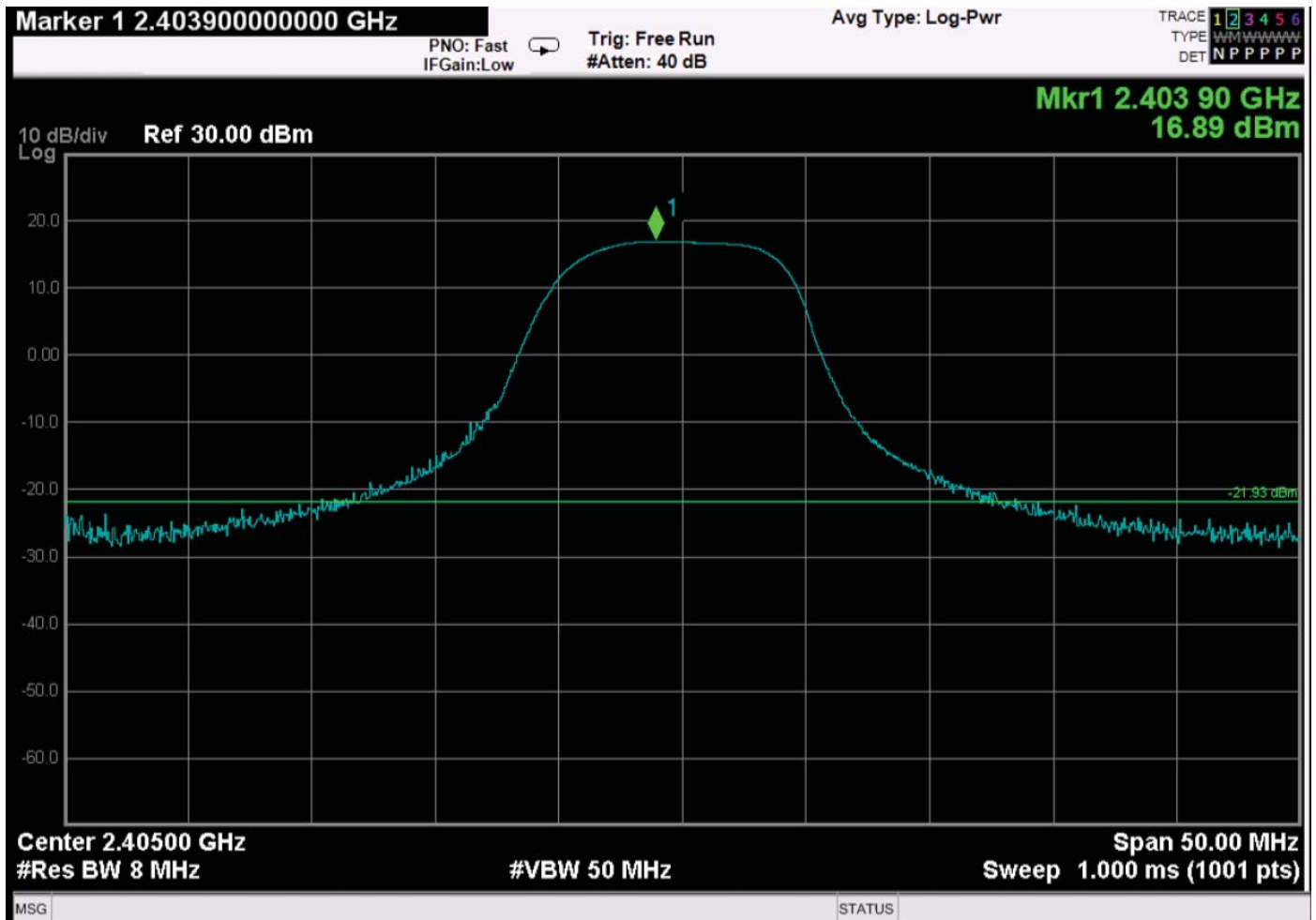


Spectral Density – High Channel – Antenna #2

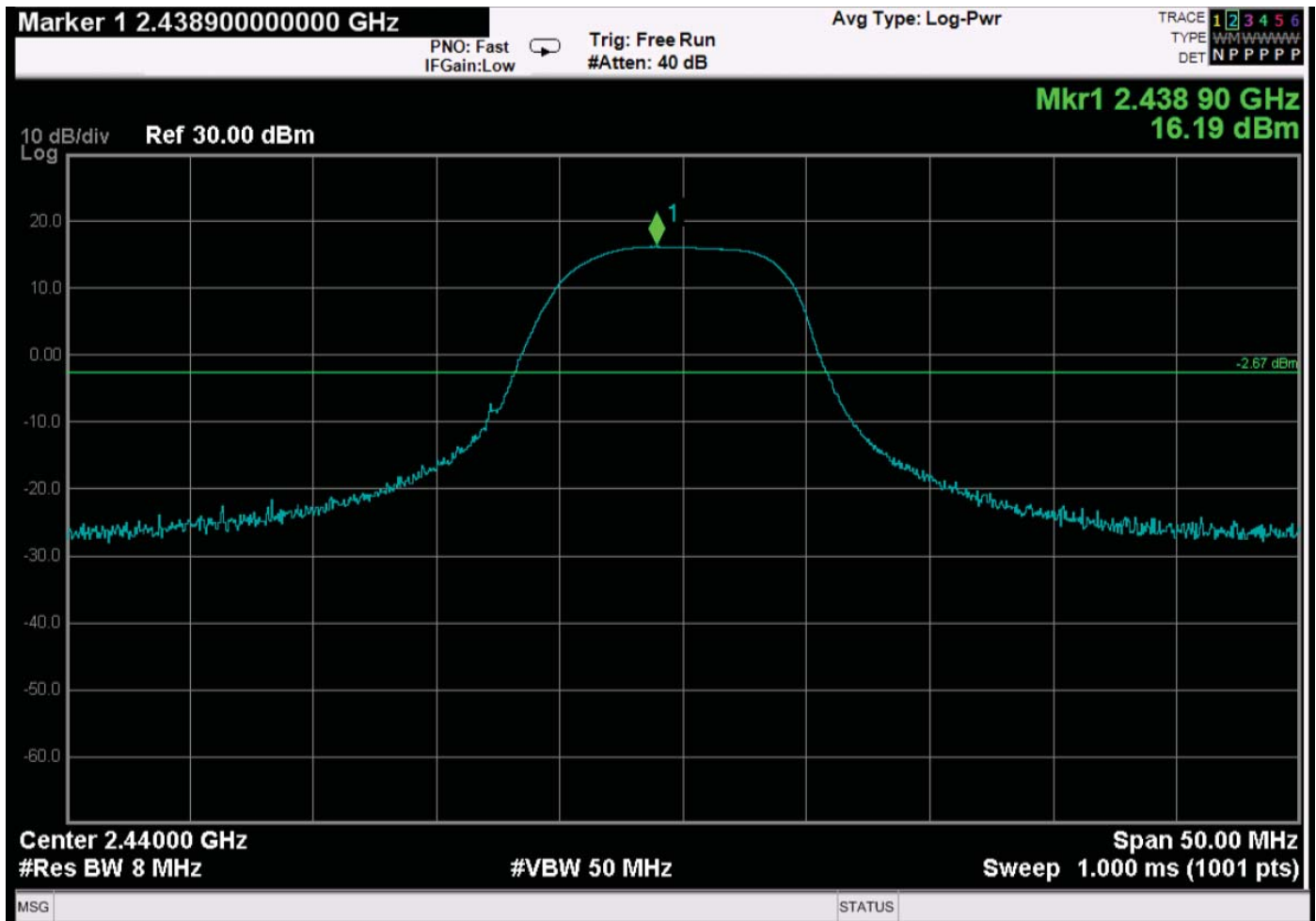




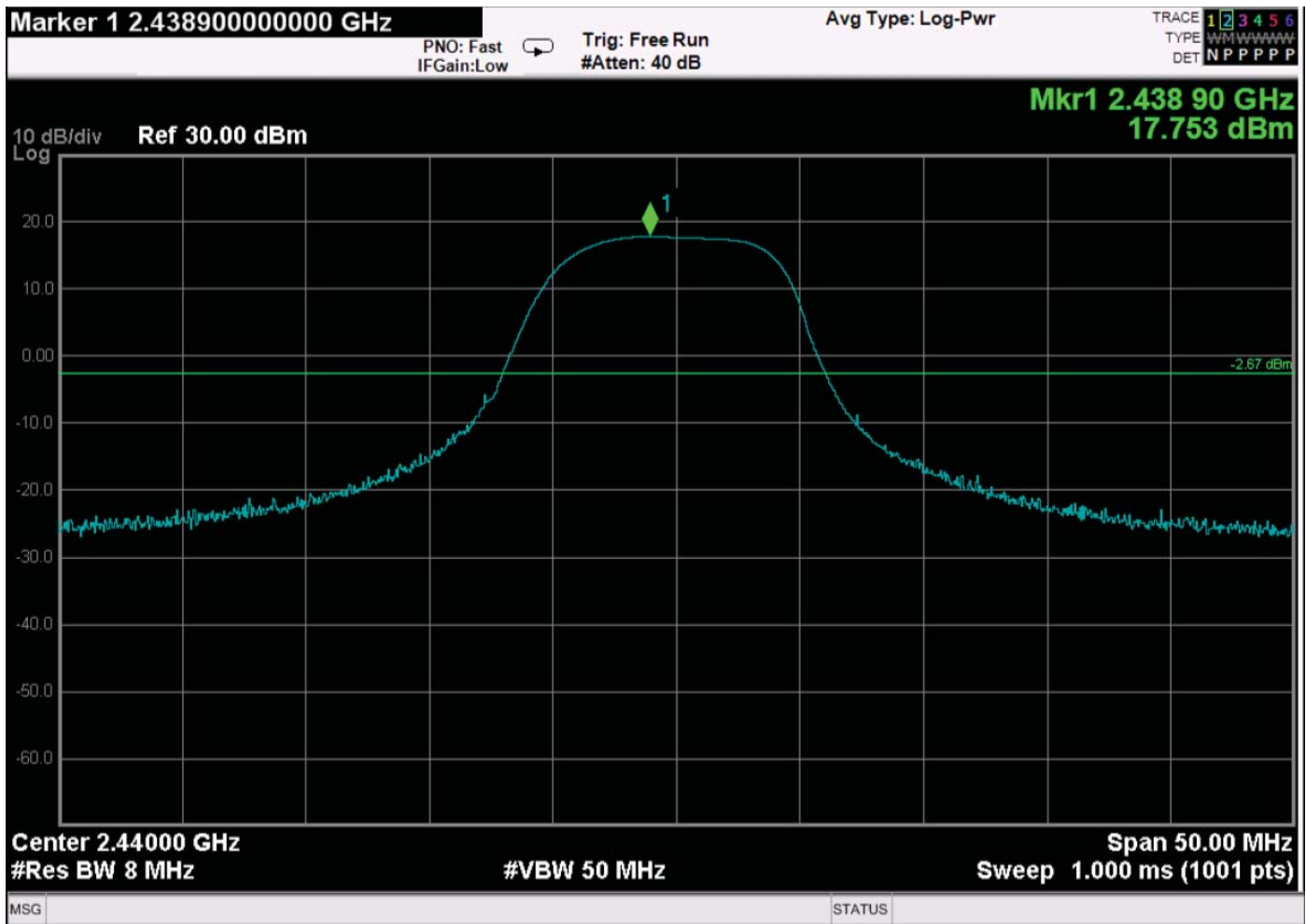
Peak Power Output – Low Channel – Antenna #1



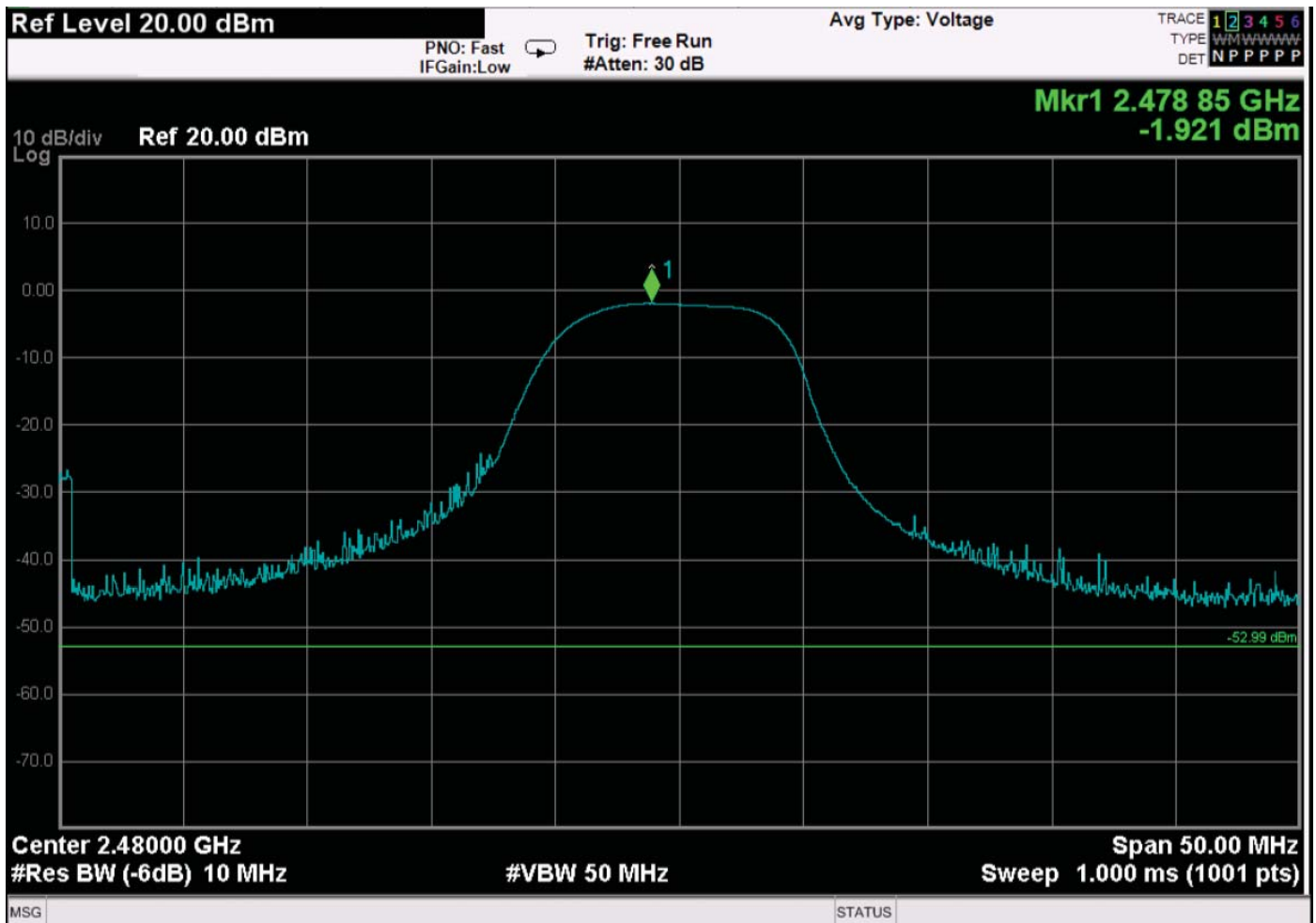
Peak Power Output – Low Channel – Antenna #2



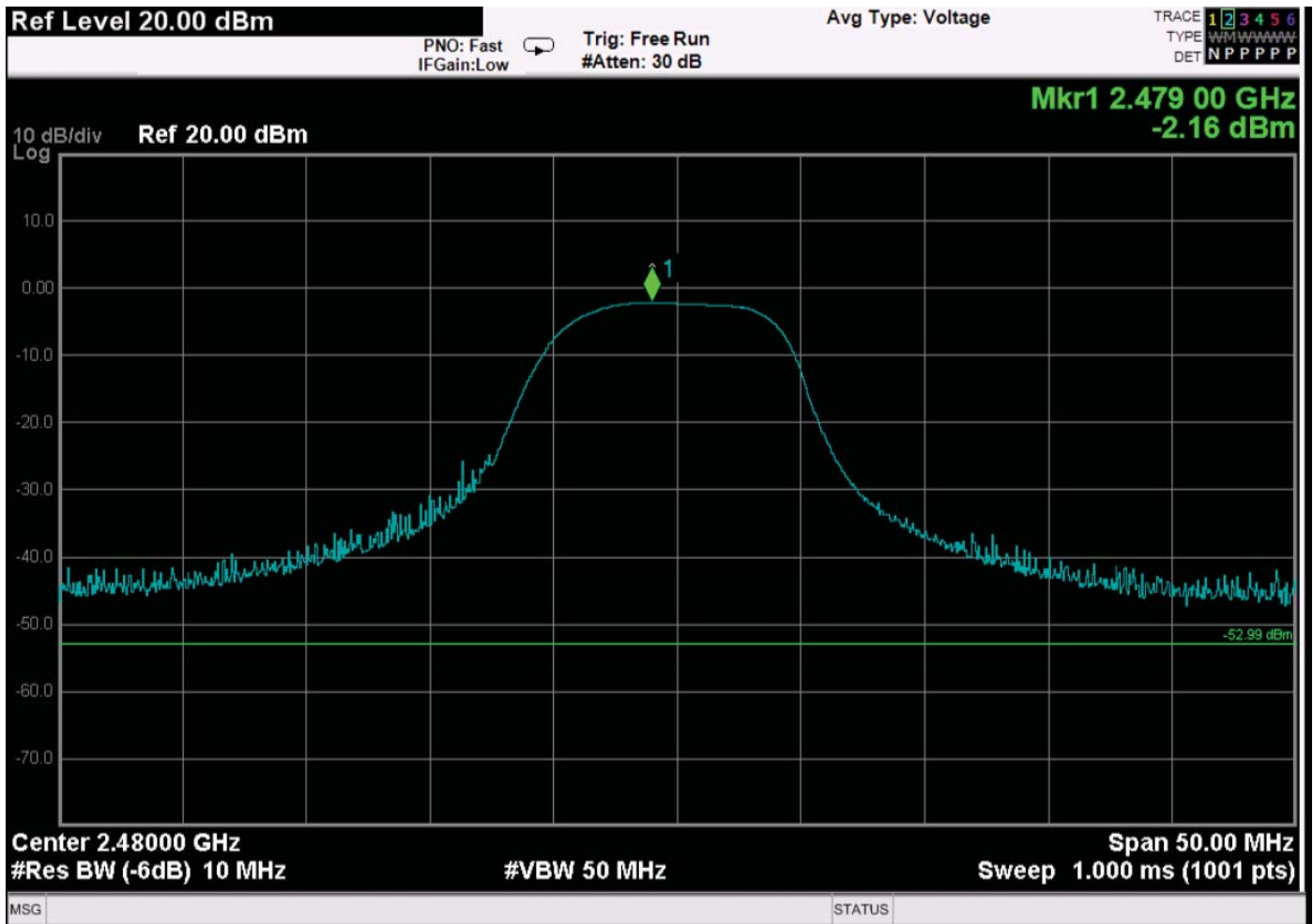
Peak Power Output – Middle Channel – Antenna #1



Peak Power Output – Middle Channel – Antenna #2



Peak Power Output – High Channel – Antenna #1

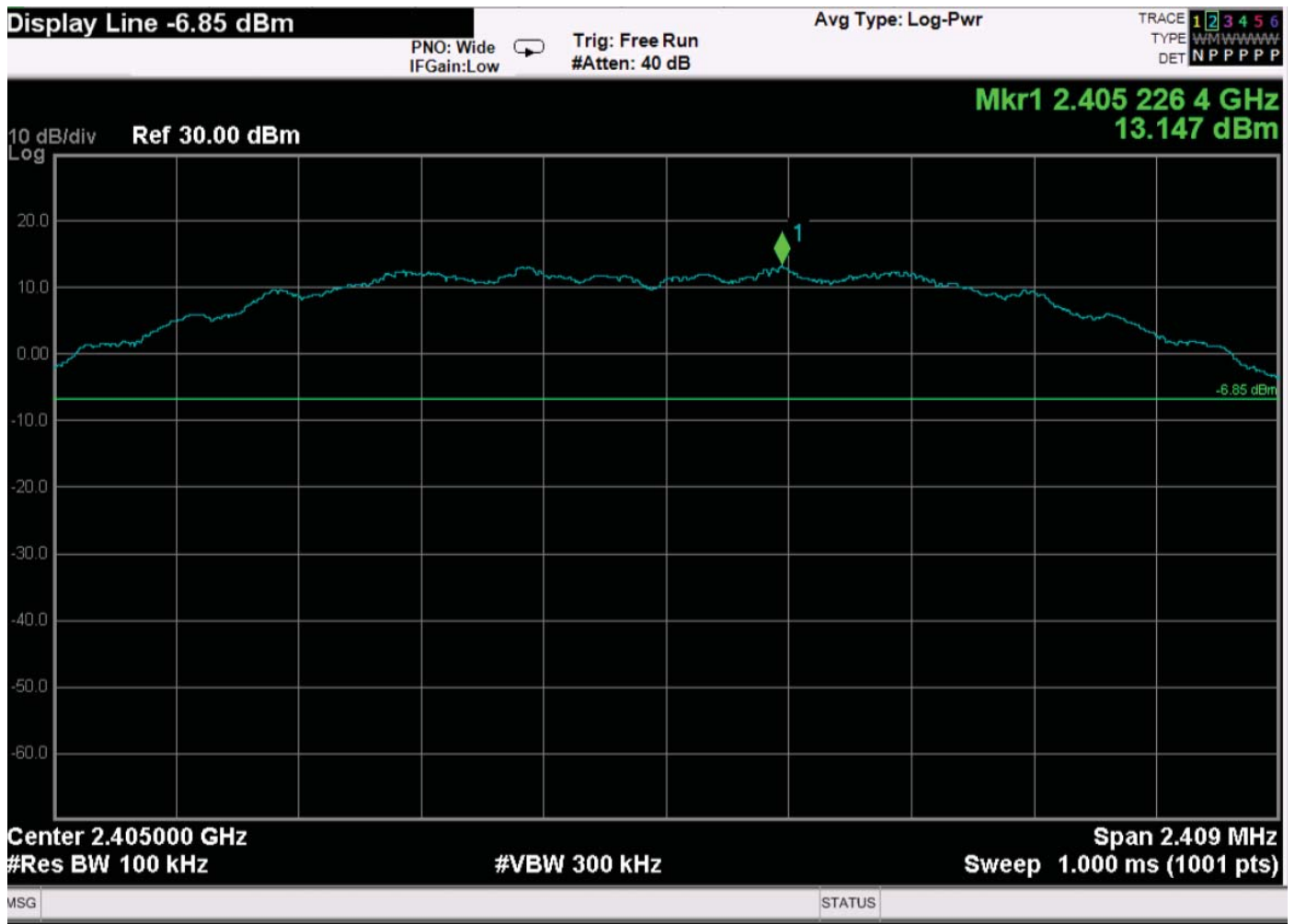


Peak Power Output – High Channel – Antenna #2



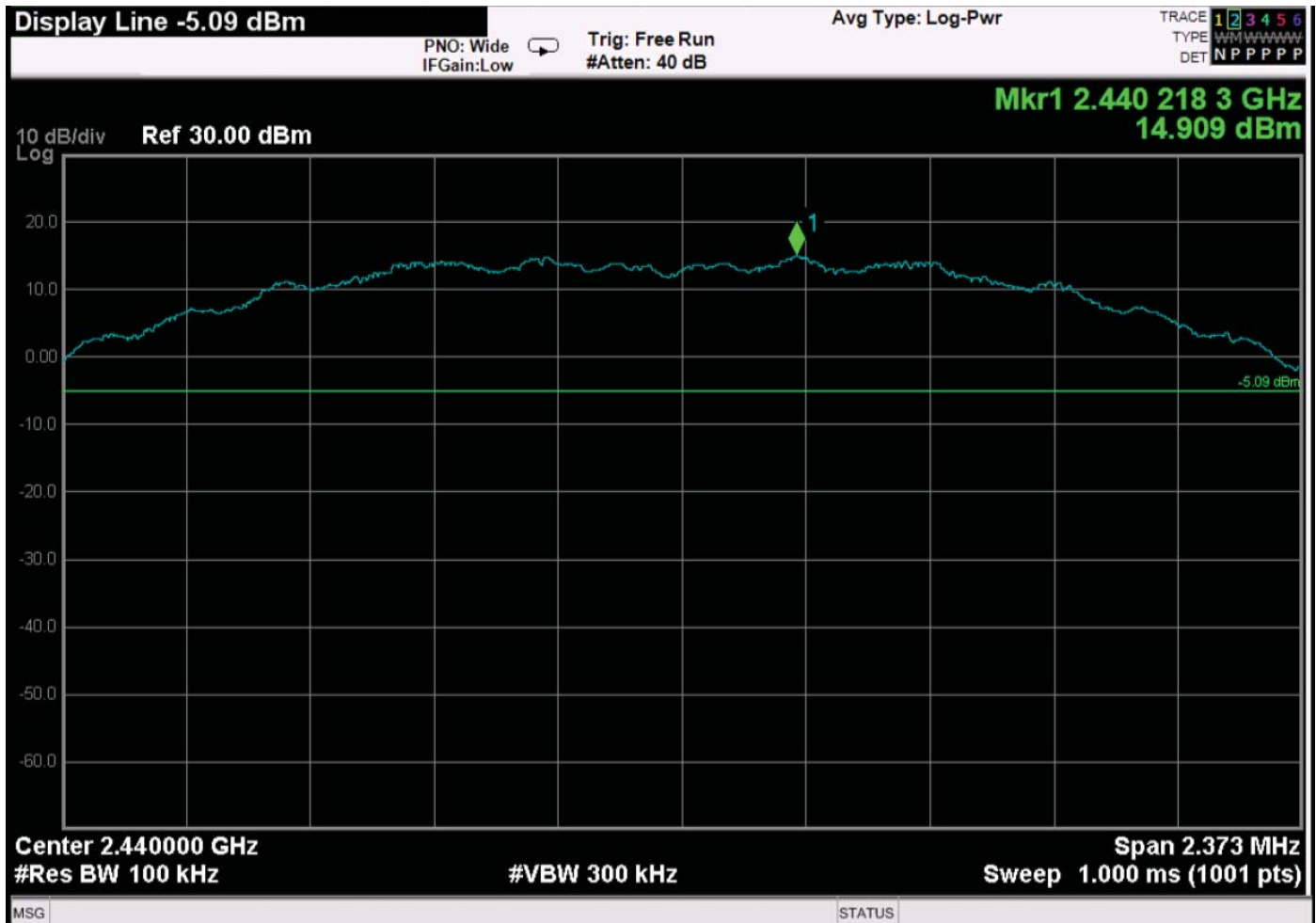


***HARMONIC EMISSIONS IN NON-RESTRICTED  
FREQUENCY BANDS  
DATA SHEETS***



RF Antenna Conducted – Reference Level – Low Channel (Worst Case) – Antenna #1

Note: Per Section 11.2 of KDB 558074 D01 DTS Meas Guidance v04, “Note that the channel found to contain the maximum PSD level can be used to establish the reference level.”



RF Antenna Conducted – Reference Level – Middle Channel (Worst Case) – Antenna #2

Note: Per Section 11.2 of KDB 558074 D01 DTS Meas Guidance v04, “Note that the channel found to contain the maximum PSD level can be used to establish the reference level.”



**FCC 15.247**Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECODate: 05/08/2017  
Lab: D  
Tested By: Kyle Fujimoto**Harmonic Emissions in Non-Restricted  
Frequency Bands – Antenna #1**

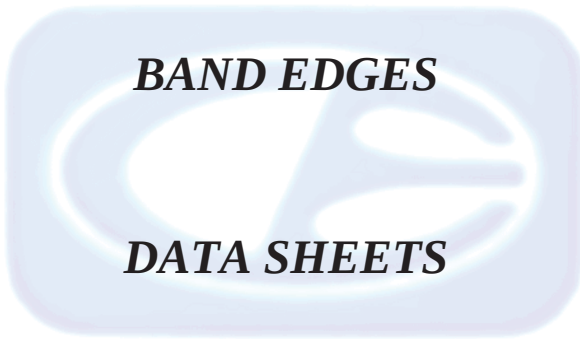
| Freq. (MHz) | Level (dBm) | Antenna | Limit  | Margin  | Peak / QP / Avg | Comments |
|-------------|-------------|---------|--------|---------|-----------------|----------|
| 9618        | -49.42      | 1       | -6.853 | -42.567 | Peak            |          |
|             |             |         |        |         |                 |          |
|             |             |         |        |         |                 |          |
| 9768        | -41.95      | 1       | -6.853 | -35.097 | Peak            |          |
|             |             |         |        |         |                 |          |
|             |             |         |        |         |                 |          |
| 9920        | -48.58      | 1       | -6.853 | -41.727 | Peak            |          |
|             |             |         |        |         |                 |          |
|             |             |         |        |         |                 |          |

**Highest Three Non-Restricted Band Harmonics for Antenna #1**

**FCC 15.247**Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECODate: 05/08/2017  
Lab: D  
Tested By: Kyle Fujimoto**Harmonic Emissions in Non-Restricted  
Frequency Bands – Antenna #2**

| Freq. (MHz) | Level (dBm) | Antenna | Limit  | Margin  | Peak / QP / Avg | Comments |
|-------------|-------------|---------|--------|---------|-----------------|----------|
| 9618        | -47.38      | 2       | -5.091 | -42.289 | Peak            |          |
|             |             |         |        |         |                 |          |
|             |             |         |        |         |                 |          |
| 9768        | -46.52      | 2       | -5.091 | -41.43  | Peak            |          |
|             |             |         |        |         |                 |          |
|             |             |         |        |         |                 |          |
| 9920        | -49.56      | 2       | -5.091 | -44.469 | Peak            |          |
|             |             |         |        |         |                 |          |
|             |             |         |        |         |                 |          |

**Highest Three Non-Restricted Band Harmonics for Antenna #2**



***BAND EDGES***

***DATA SHEETS***





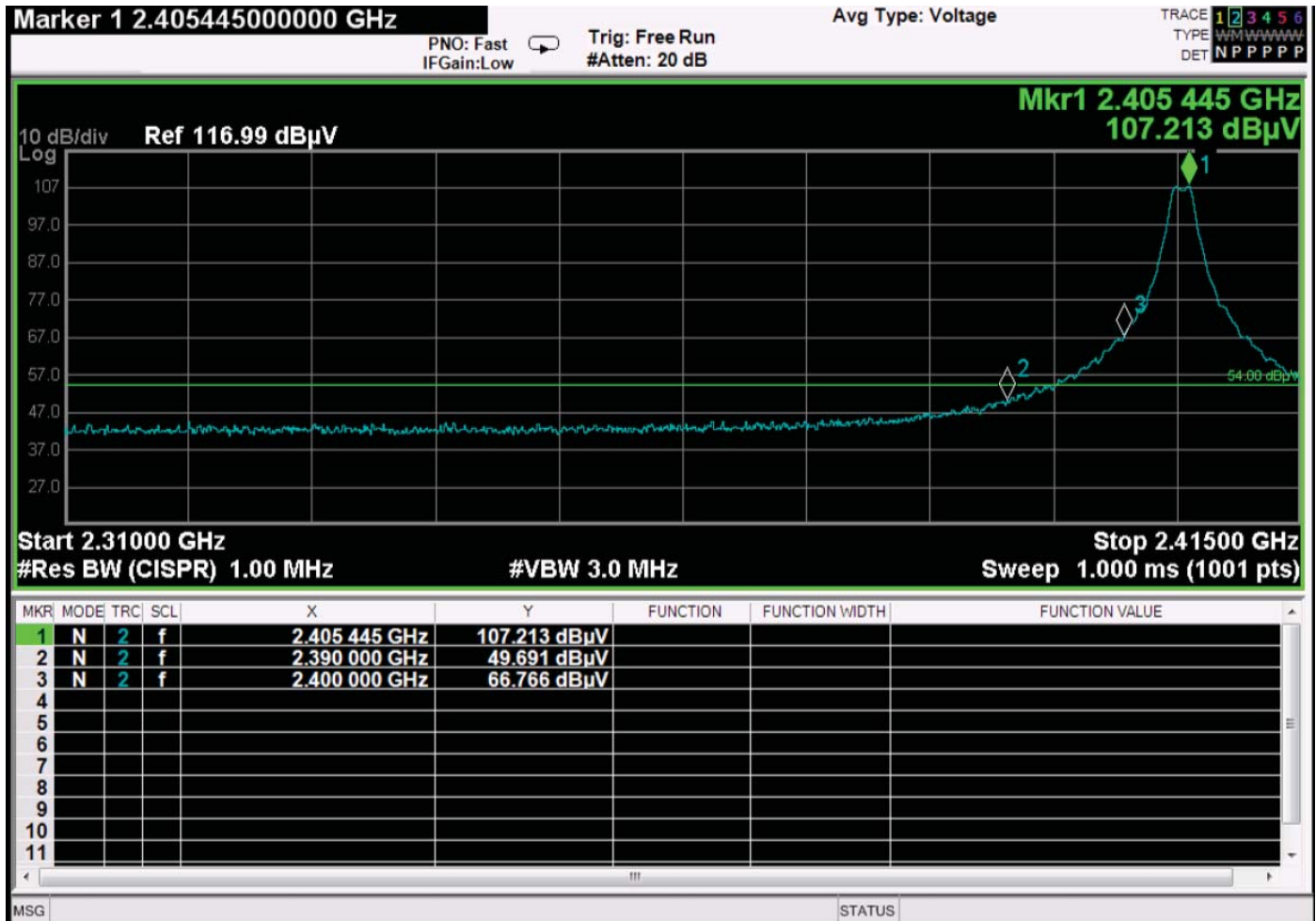
**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

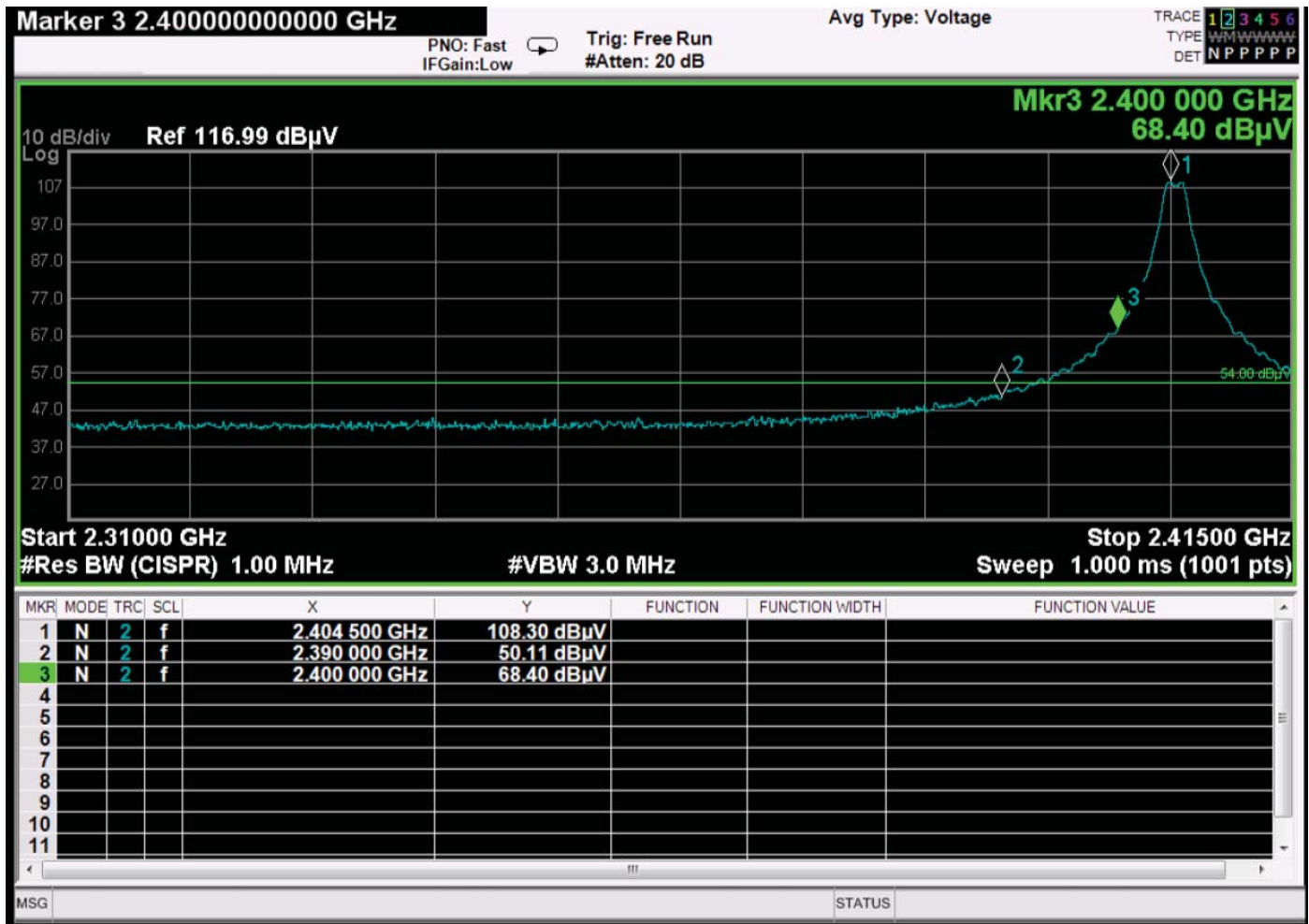
Date: 05/04/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Band Edge - High Channel - Antenna #1**

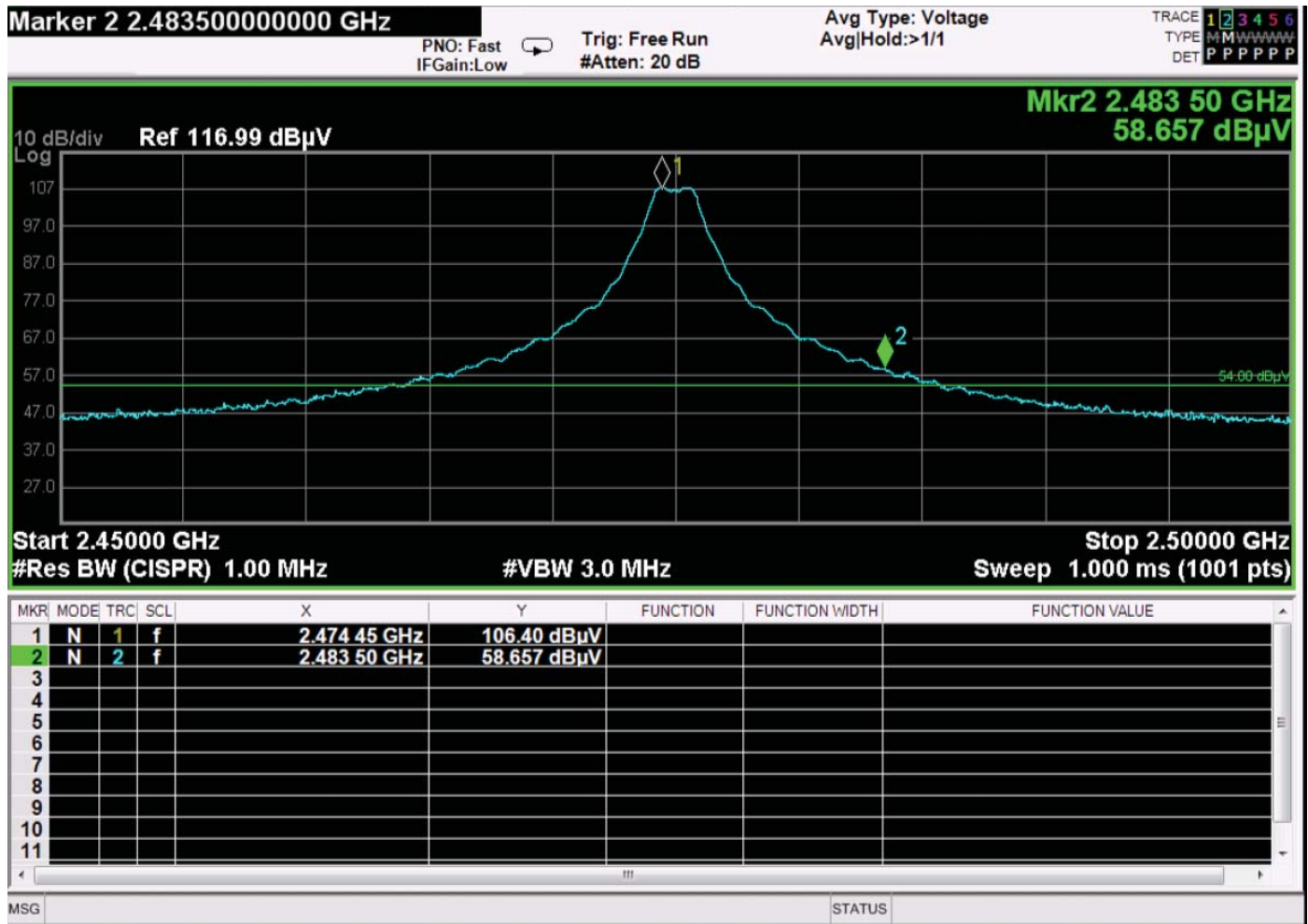
| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit  | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments              |
|-------------|--------------|-----------|--------|--------|-----------------|-------------------|------------------|-----------------------|
| 2480        | 94.47        | V         | 113.97 | -19.51 | Peak            | 160.50            | 134.50           | Fund. of High Channel |
| 2480        | 82.52        | V         | 93.97  | -11.46 | Avg             | 160.50            | 134.50           | Y-Axis Worst Case     |
| 2483.5      | 62.20        | V         | 73.97  | -11.77 | Peak            | 160.50            | 134.50           | Band Edge of High Ch. |
| 2483.5      | 50.25        | V         | 53.97  | -3.72  | Avg             | 160.50            | 134.50           | Y-Axis Worst Case     |
| 2480        | 94.27        | H         | 113.97 | -19.70 | Peak            | 355.00            | 143.64           | Fund. of High Channel |
| 2480        | 82.32        | H         | 93.97  | -11.65 | Avg             | 355.00            | 143.64           | X-Axis Worst Case     |
| 2483.5      | 62.08        | H         | 73.97  | -11.89 | Peak            | 355.00            | 143.64           | Fund. of High Channel |
| 2483.5      | 50.13        | H         | 53.97  | -3.84  | Avg             | 355.00            | 143.64           | X-Axis Worst Case     |
| 2475        | 106.40       | V         | --     | --     | Peak            | 190.00            | 165.49           | Fundamental           |
| 2475        | 94.45        | V         | --     | --     | Avg             | 190.00            | 165.49           | Y-Axis Worst Case     |
| 2483.5      | 58.66        | V         | 73.97  | -15.31 | Peak            | 190.00            | 165.49           | Band Edge             |
| 2483.5      | 46.71        | V         | 53.97  | -7.26  | Avg             | 190.00            | 165.49           | Y-Axis Worst Case     |
| 2475        | 107.31       | H         | --     | --     | Peak            | 281.25            | 188.47           | Fundamental           |
| 2475        | 95.36        | H         | --     | --     | Avg             | 281.25            | 188.47           | X-Axis Worst Case     |
| 2483.5      | 58.71        | H         | 73.97  | -15.26 | Peak            | 281.25            | 188.47           | Band Edge             |
| 2483.5      | 46.76        | H         | 53.97  | -7.21  | Avg             | 281.25            | 188.47           | X-Axis Worst Case     |
|             |              |           |        |        |                 |                   |                  |                       |
|             |              |           |        |        |                 |                   |                  |                       |
|             |              |           |        |        |                 |                   |                  |                       |
|             |              |           |        |        |                 |                   |                  |                       |



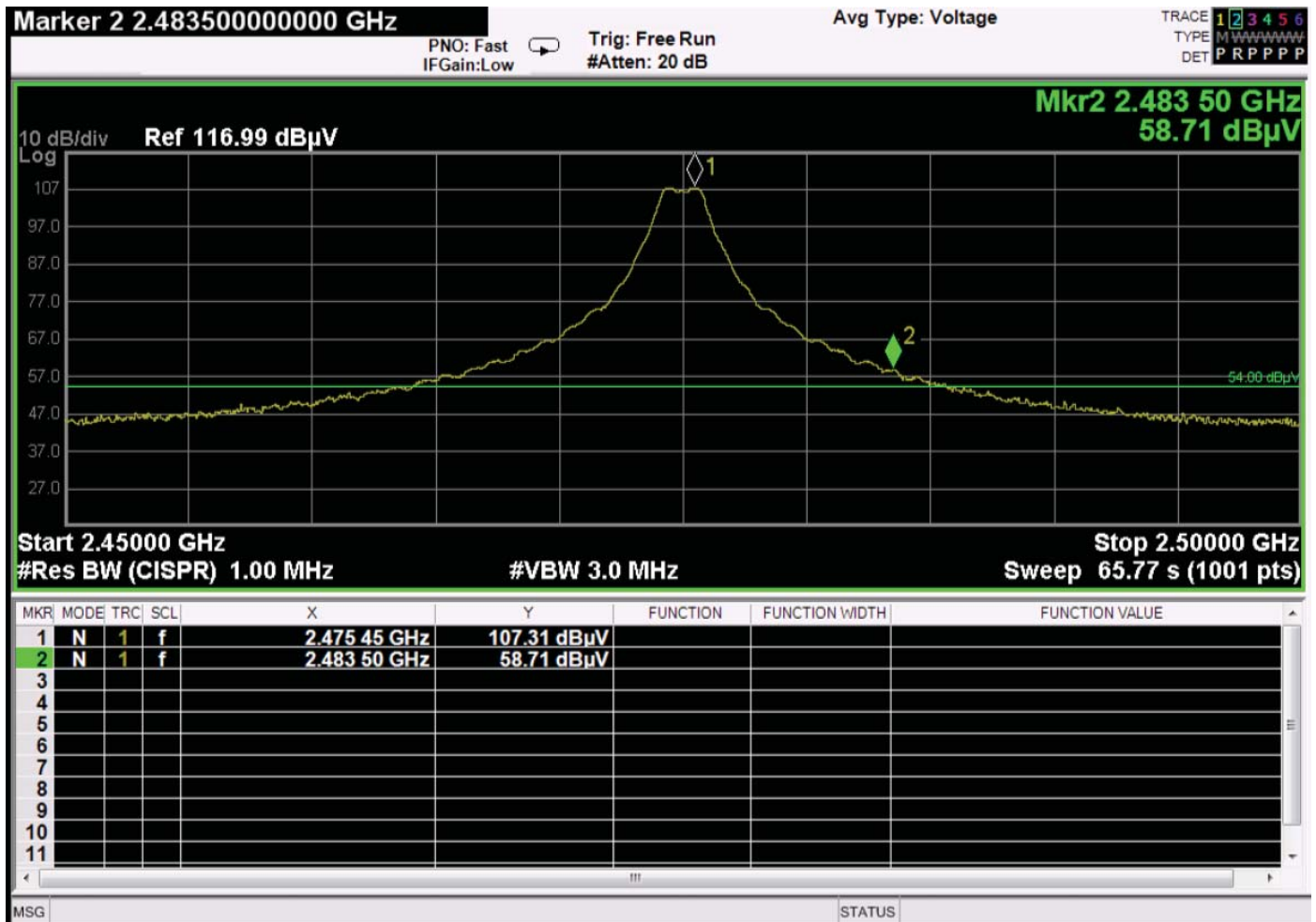
Band Edge – Low Channel – Vertical – Z-Axis – Worst Case – Antenna #1



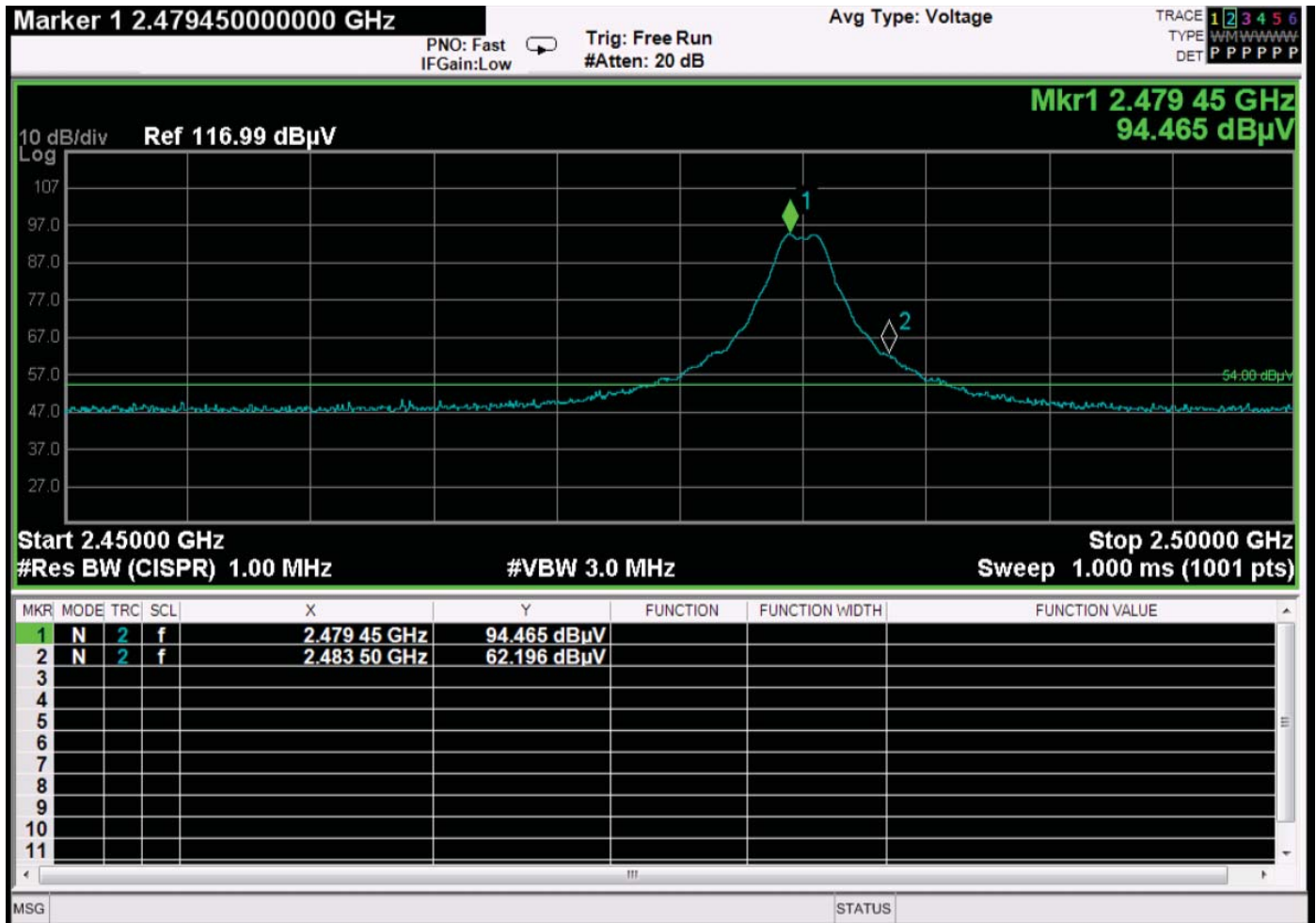
Band Edge – Low Channel – Horizontal – X-Axis – Worst Case – Antenna #1



Band Edge – High Channel (2475 MHz) – Vertical – Y-Axis – Worst Case – Antenna #1

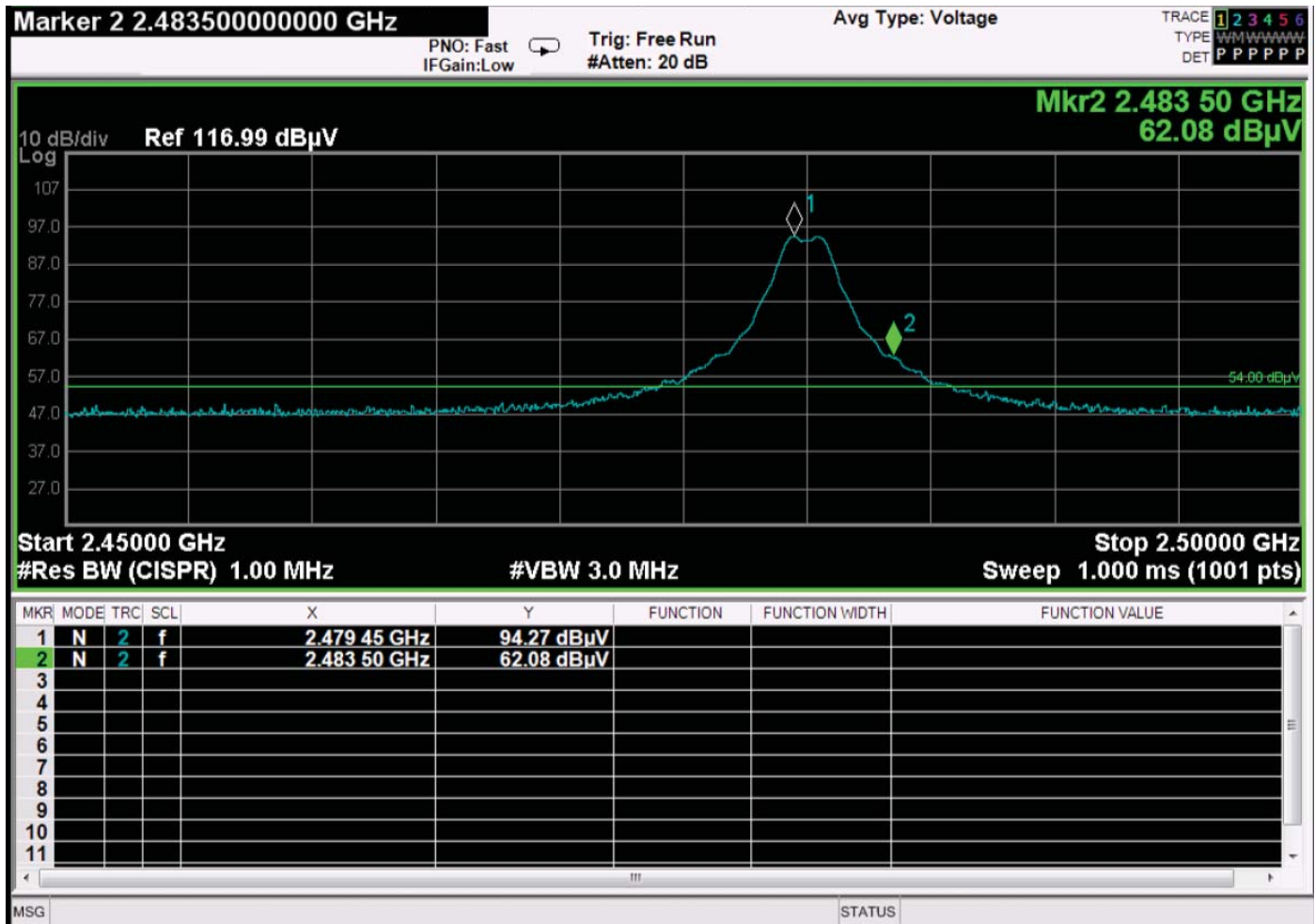


Band Edge – High Channel (2475 MHz) – Horizontal – X-Axis – Worst Case – Antenna #1



Band Edge – High Channel (2480 MHz) – Vertical – Y-Axis – Worst Case – Antenna #1





Band Edge – High Channel (2480 MHz) – Horizontal – X-Axis – Worst Case – Antenna #1





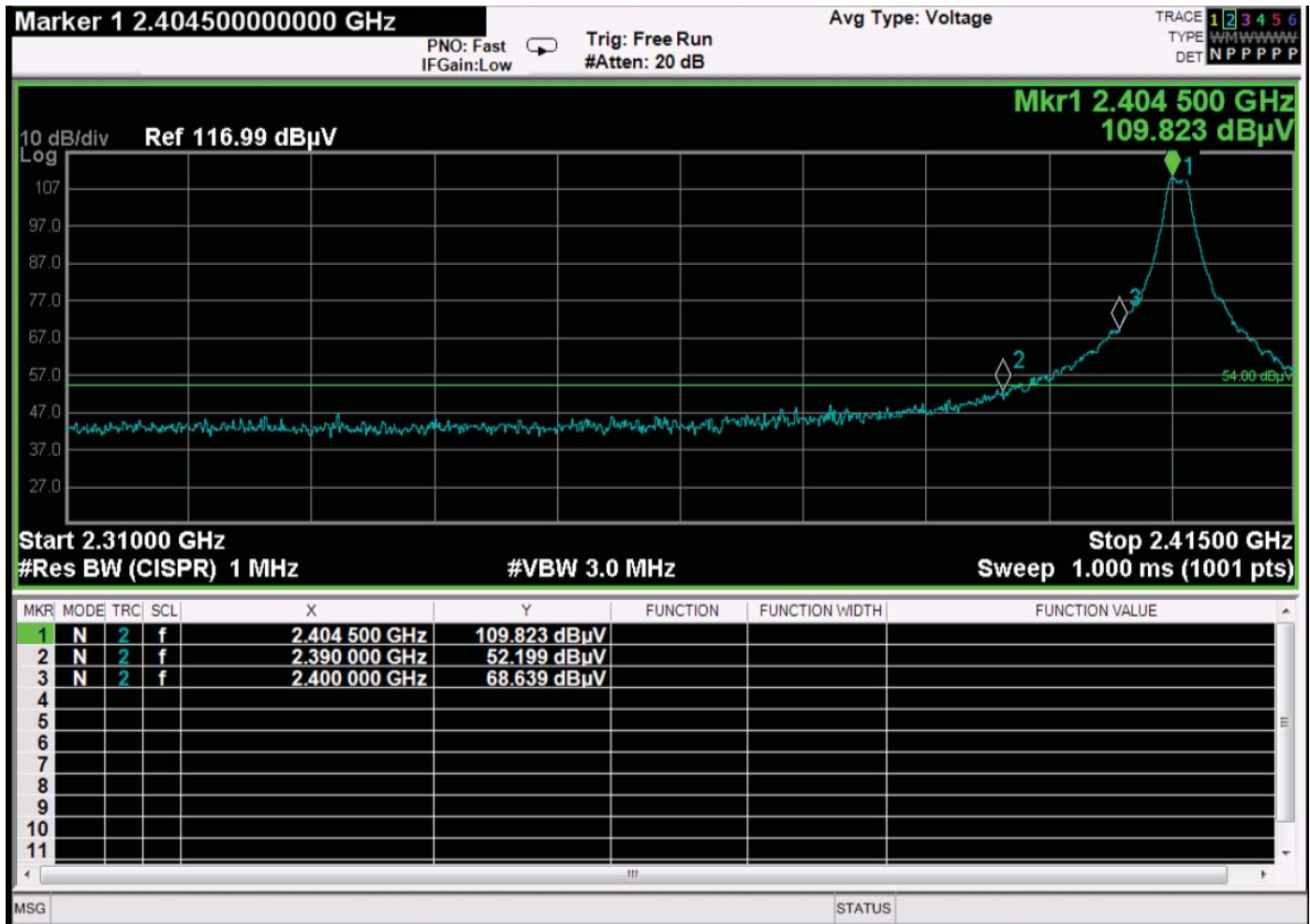
**FCC 15.247**

Ecolink Intelligent Technology, Inc.  
Ecolink Pet Immune Motion Detector  
Model: PIRZB1-ECO

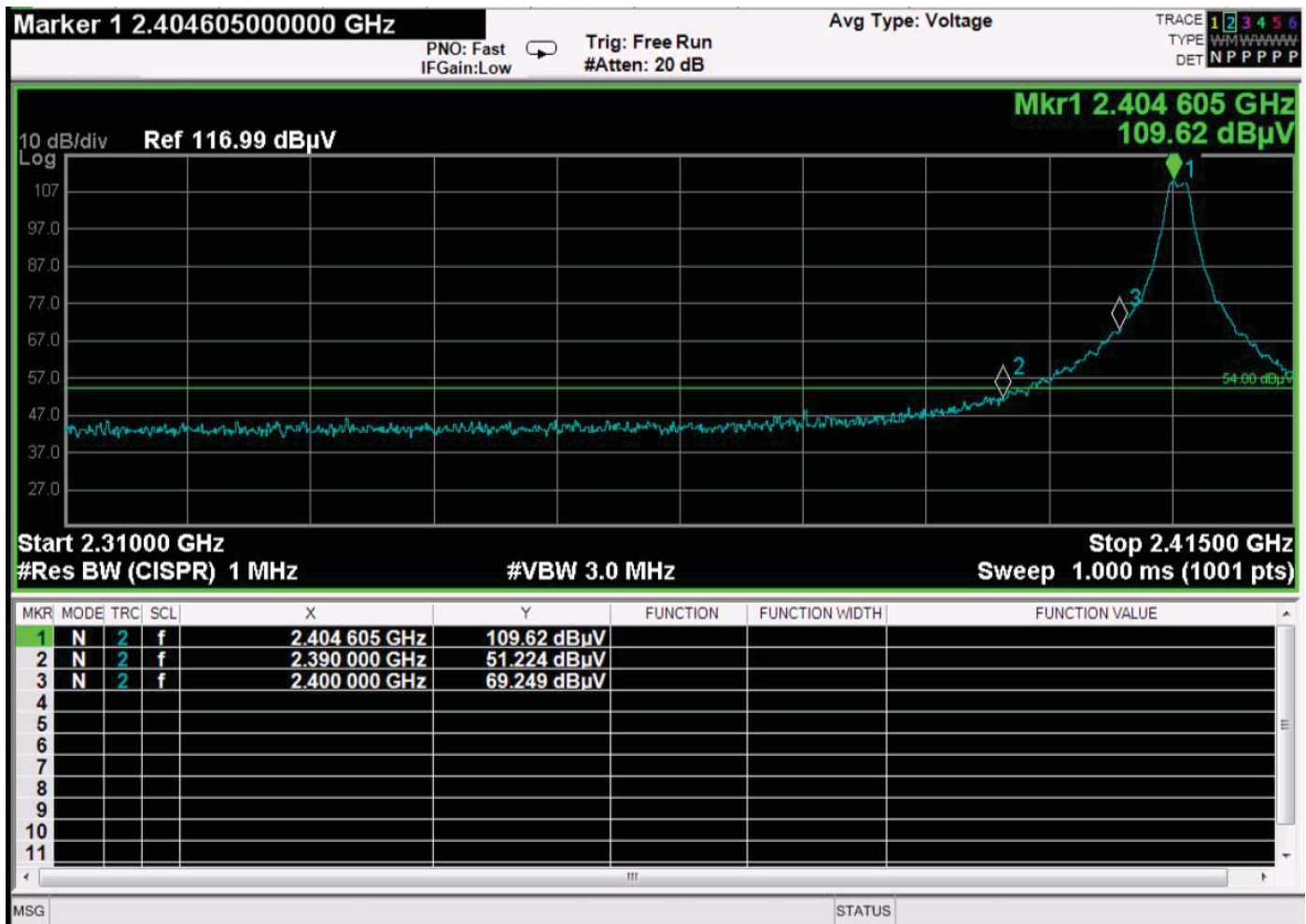
Date: 05/04/2017  
Lab: D  
Tested By: Kyle Fujimoto

**Band Edge - High Channel - Antenna #2**

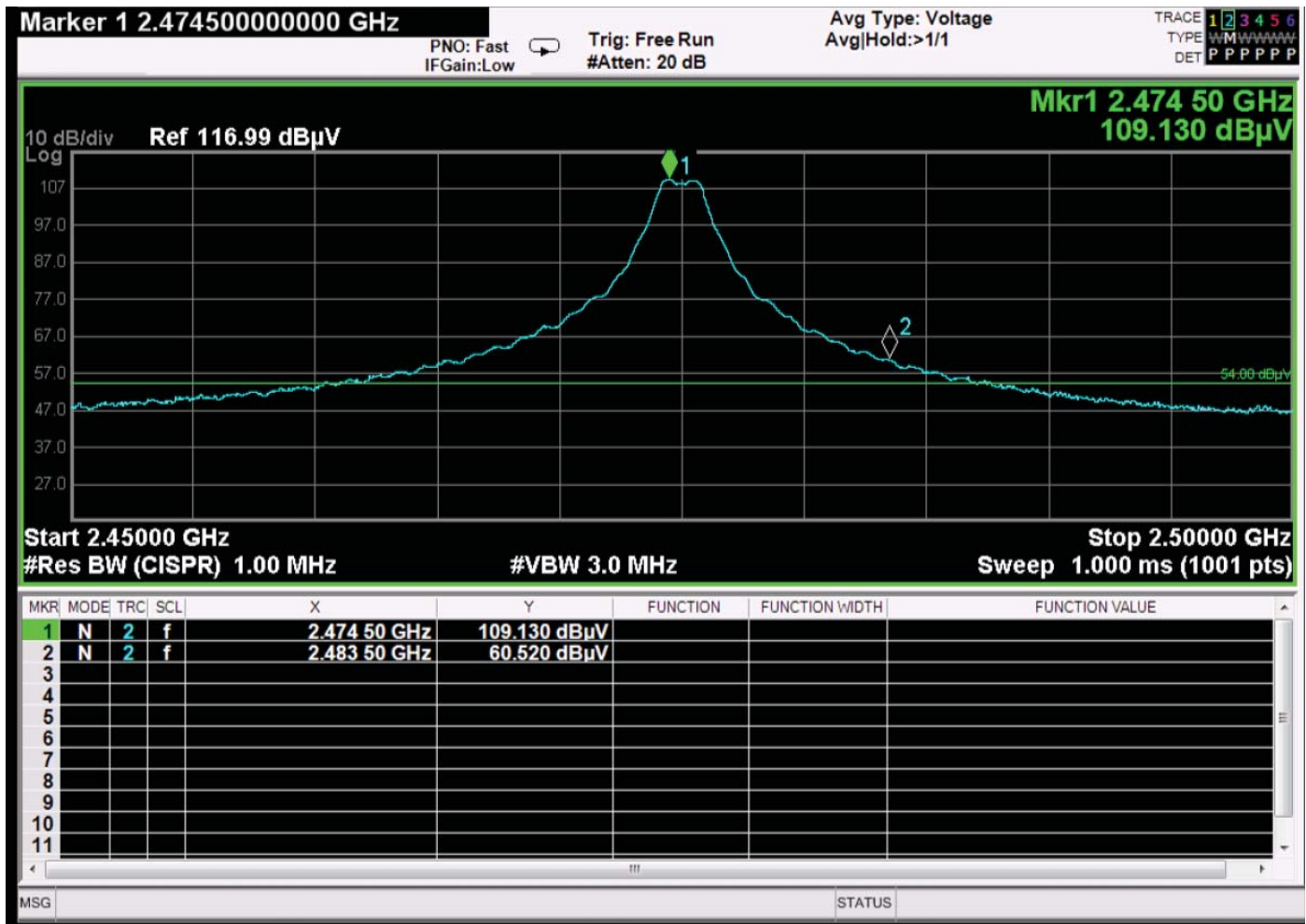
| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit  | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments              |
|-------------|--------------|-----------|--------|--------|-----------------|-------------------|------------------|-----------------------|
| 2480        | 95.74        | V         | 113.97 | -18.23 | Peak            | 350.00            | 172.11           | Fund. of High Channel |
| 2480        | 83.79        | V         | 93.97  | -10.18 | Avg             | 350.00            | 172.11           | Y-Axis Worst Case     |
| 2483.5      | 63.37        | V         | 73.97  | -10.60 | Peak            | 350.00            | 172.11           | Band Edge of High Ch. |
| 2483.5      | 51.42        | V         | 53.97  | -2.55  | Avg             | 350.00            | 172.11           | Y-Axis Worst Case     |
| 2480        | 94.71        | H         | 113.97 | -19.26 | Peak            | 144.75            | 137.49           | Fund. of High Channel |
| 2480        | 82.76        | H         | 93.97  | -11.21 | Avg             | 144.75            | 137.49           | X-Axis Worst Case     |
| 2483.5      | 61.79        | H         | 73.97  | -12.18 | Peak            | 144.75            | 137.49           | Fund. of High Channel |
| 2483.5      | 49.84        | H         | 53.97  | -4.13  | Avg             | 144.75            | 137.49           | X-Axis Worst Case     |
| 2475        | 109.13       | V         | --     | --     | Peak            | 123.50            | 153.31           | Fundamental           |
| 2475        | 97.18        | V         | --     | --     | Avg             | 123.50            | 153.31           | Y-Axis Worst Case     |
| 2483.5      | 60.52        | V         | 73.97  | -13.45 | Peak            | 123.50            | 153.31           | Band Edge             |
| 2483.5      | 48.57        | V         | 53.97  | -5.40  | Avg             | 123.50            | 153.31           | Y-Axis Worst Case     |
| 2475        | 108.70       | H         | --     | --     | Peak            | 136.75            | 152.35           | Fundamental           |
| 2475        | 96.75        | H         | --     | --     | Avg             | 136.75            | 152.35           | X-Axis Worst Case     |
| 2483.5      | 59.70        | H         | 73.97  | -14.27 | Peak            | 136.75            | 152.35           | Band Edge             |
| 2483.5      | 47.75        | H         | 53.97  | -6.22  | Avg             | 136.75            | 152.35           | X-Axis Worst Case     |
|             |              |           |        |        |                 |                   |                  |                       |
|             |              |           |        |        |                 |                   |                  |                       |
|             |              |           |        |        |                 |                   |                  |                       |
|             |              |           |        |        |                 |                   |                  |                       |



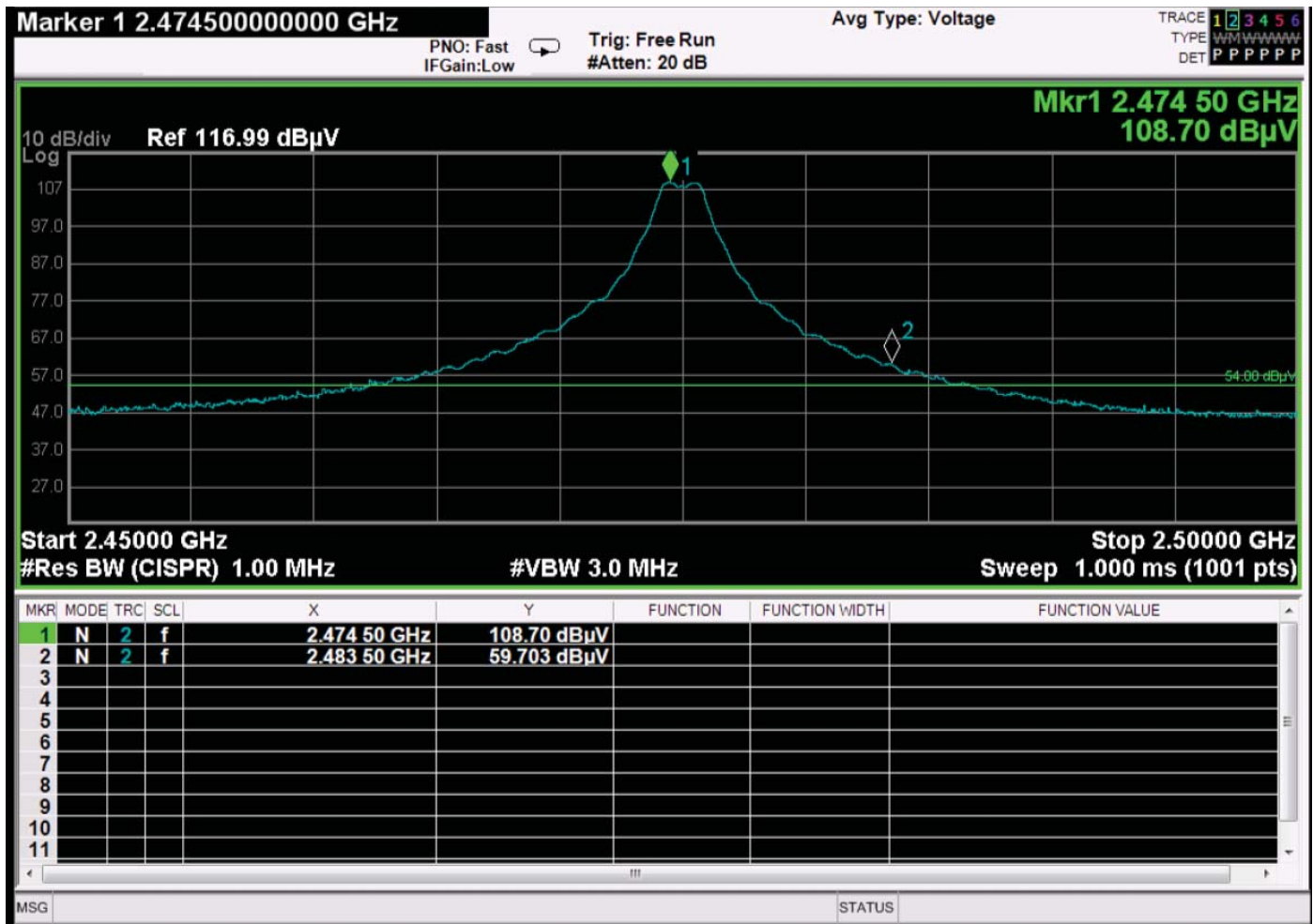
Band Edge – Low Channel – Vertical – Z-Axis – Worst Case – Antenna #2



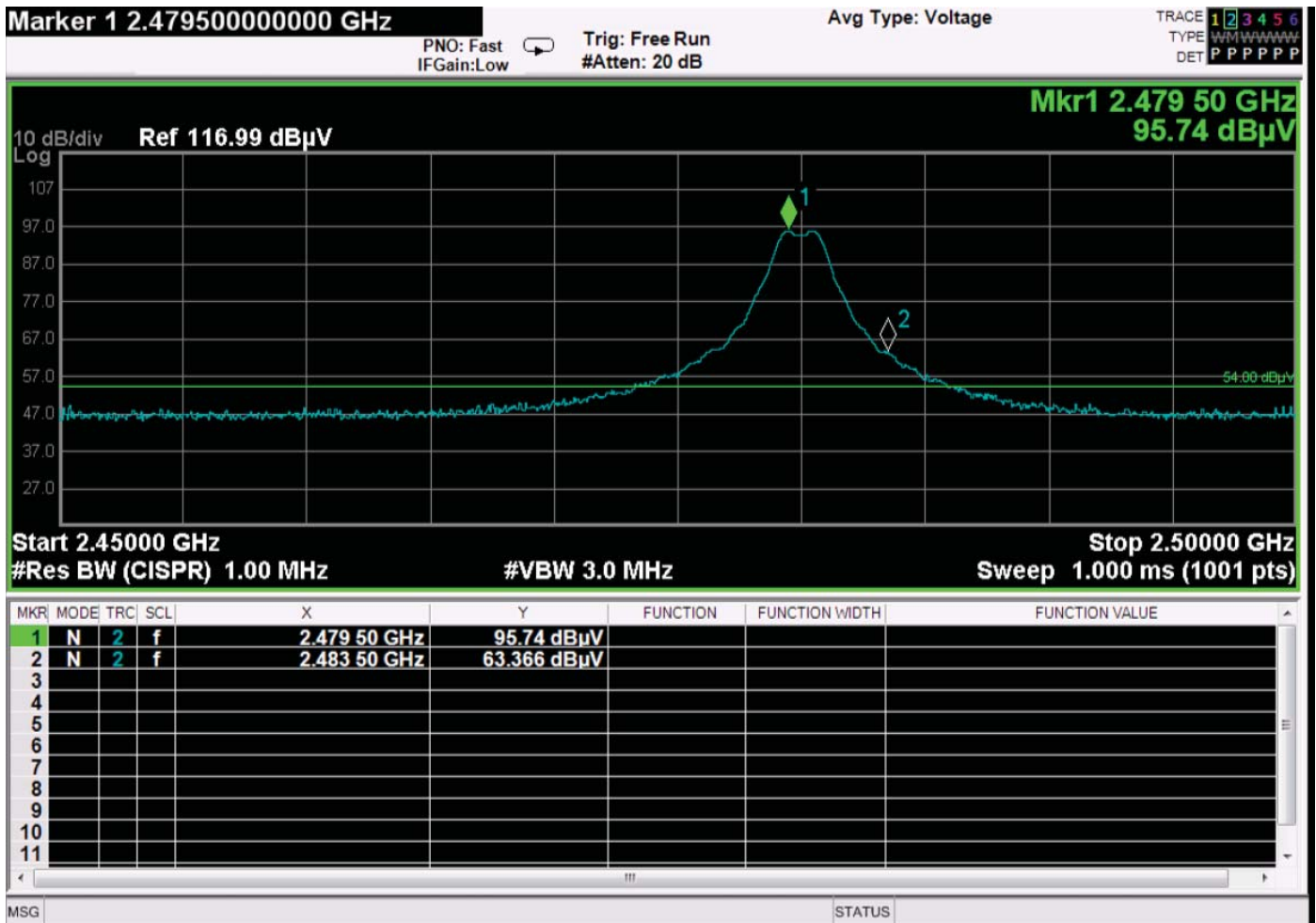
Band Edge – Low Channel – Horizontal – X-Axis – Worst Case – Antenna #2



Band Edge – High Channel (2475 MHz) – Vertical – Y-Axis – Worst Case – Antenna #2

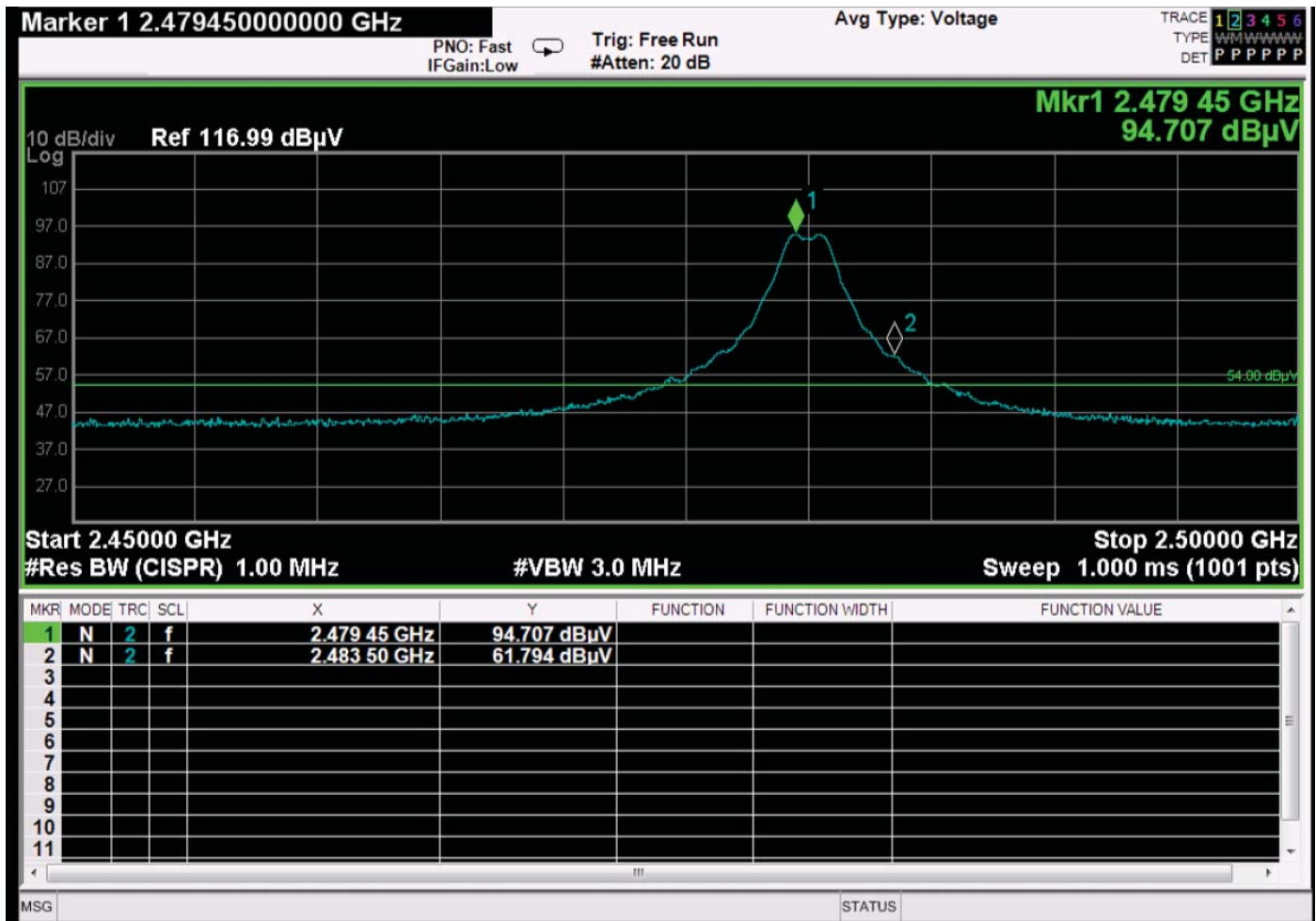


Band Edge – High Channel (2475 MHz) – Horizontal – X-Axis – Worst Case – Antenna #2



Band Edge – High Channel (2480 MHz) – Vertical – Y-Axis – Worst Case – Antenna #2





Band Edge – High Channel (2480 MHz) – Horizontal – X-Axis – Worst Case – Antenna #2

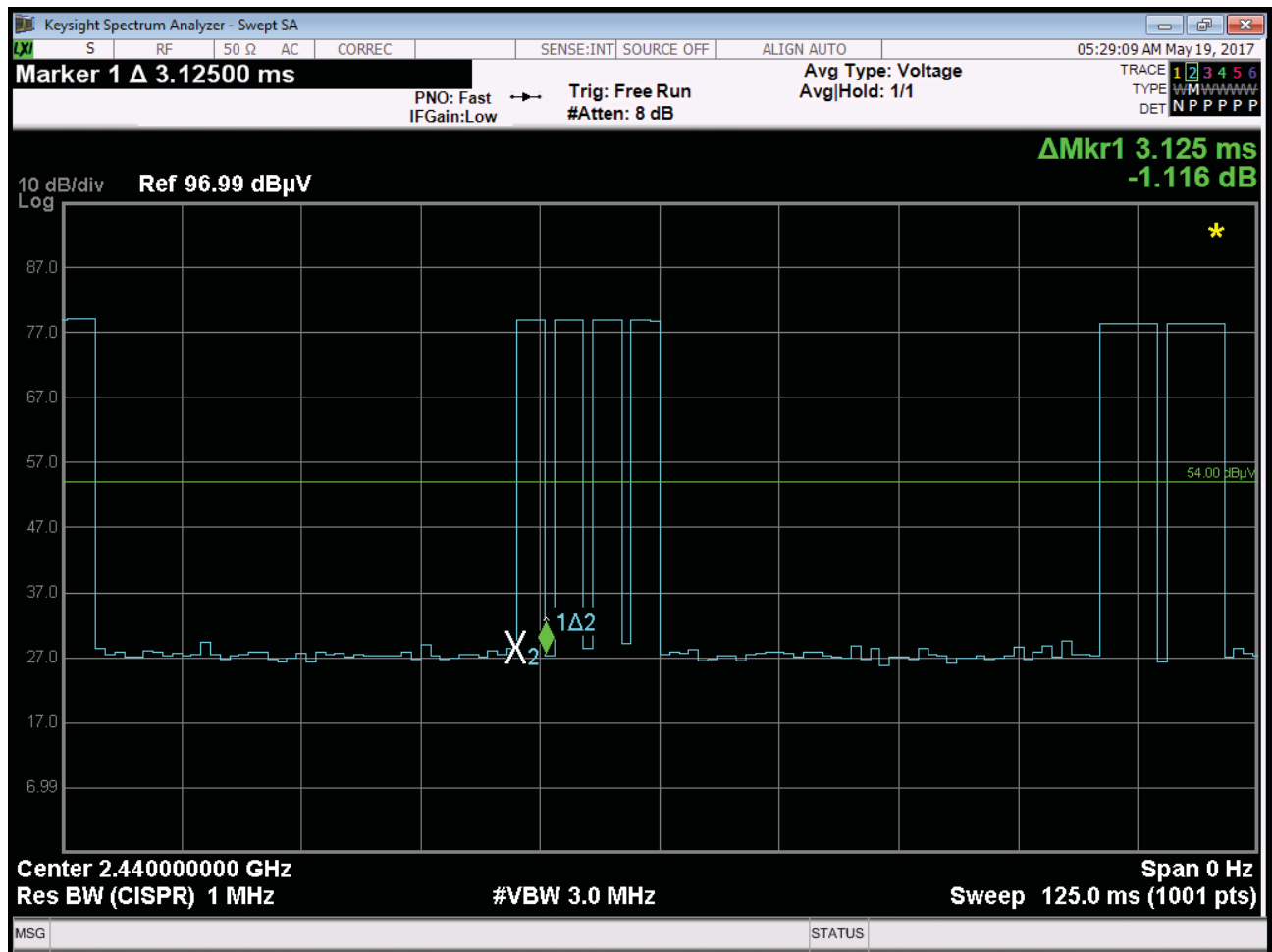
***DUTY CYCLE***

***DATA SHEETS***

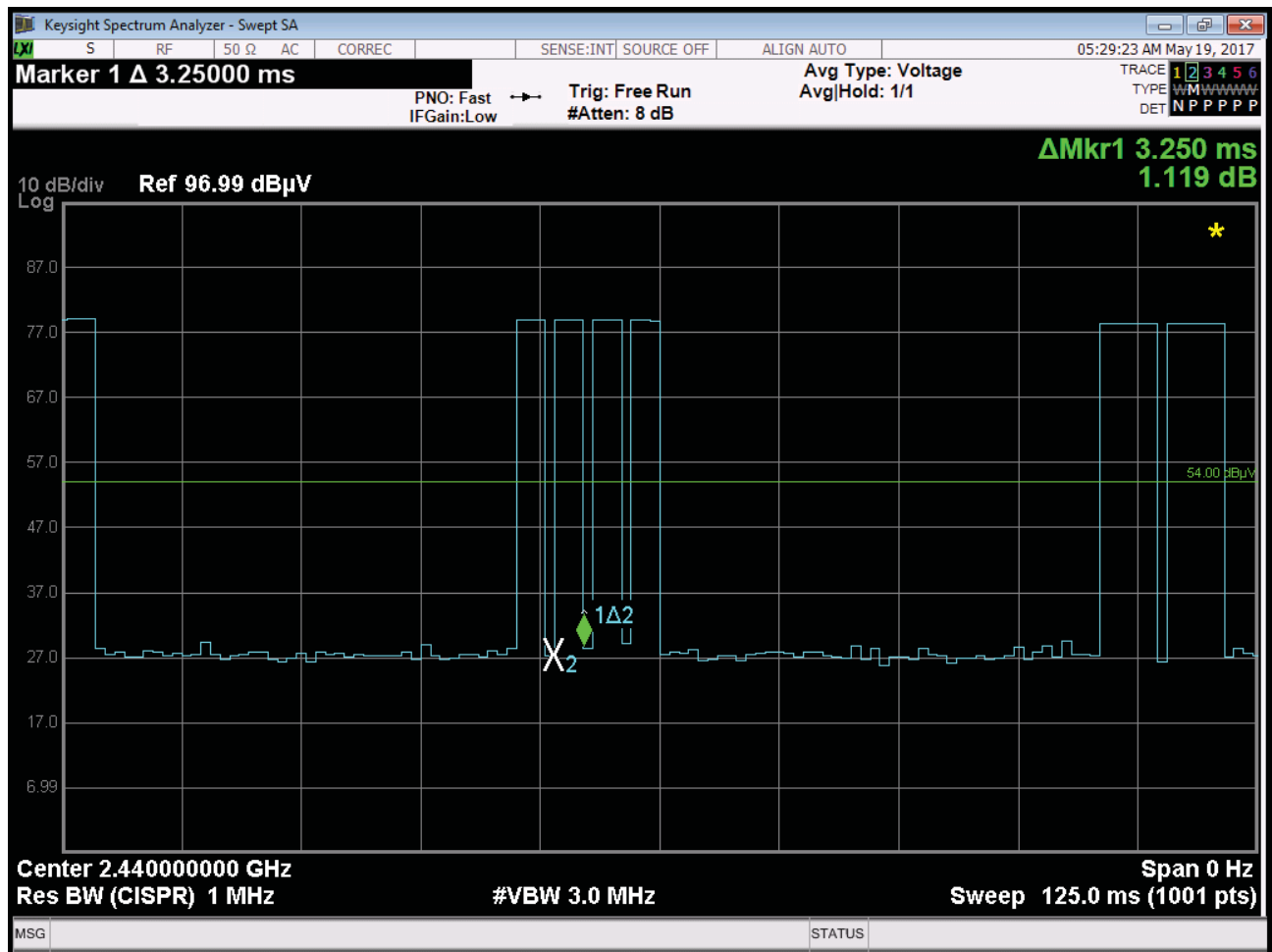




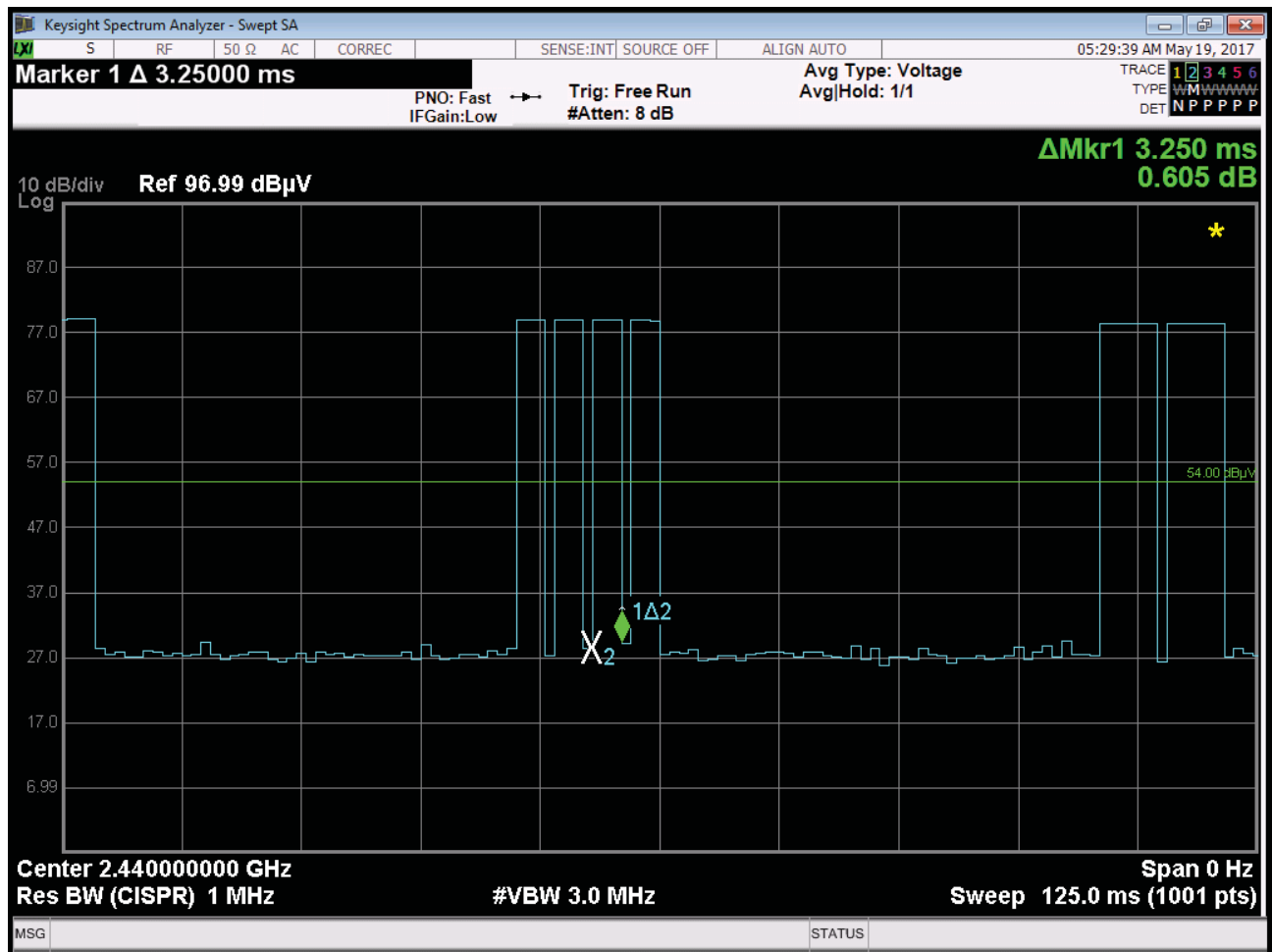
Worst Case 100 ms – Attempting to Pair when Control Device is Off



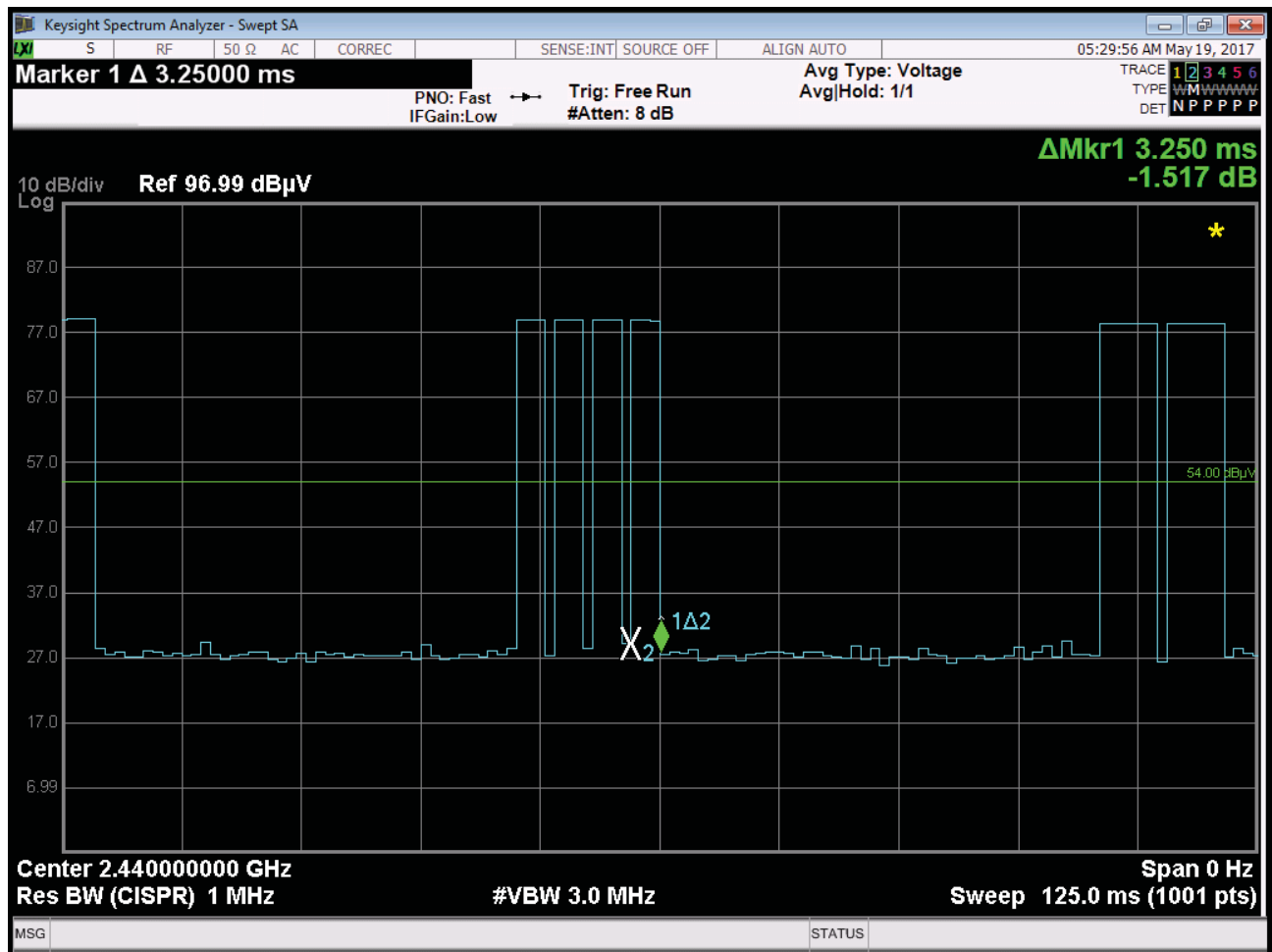
Pulse #1 – 3.125 ms – Attempting to Pair when Control Device is Off



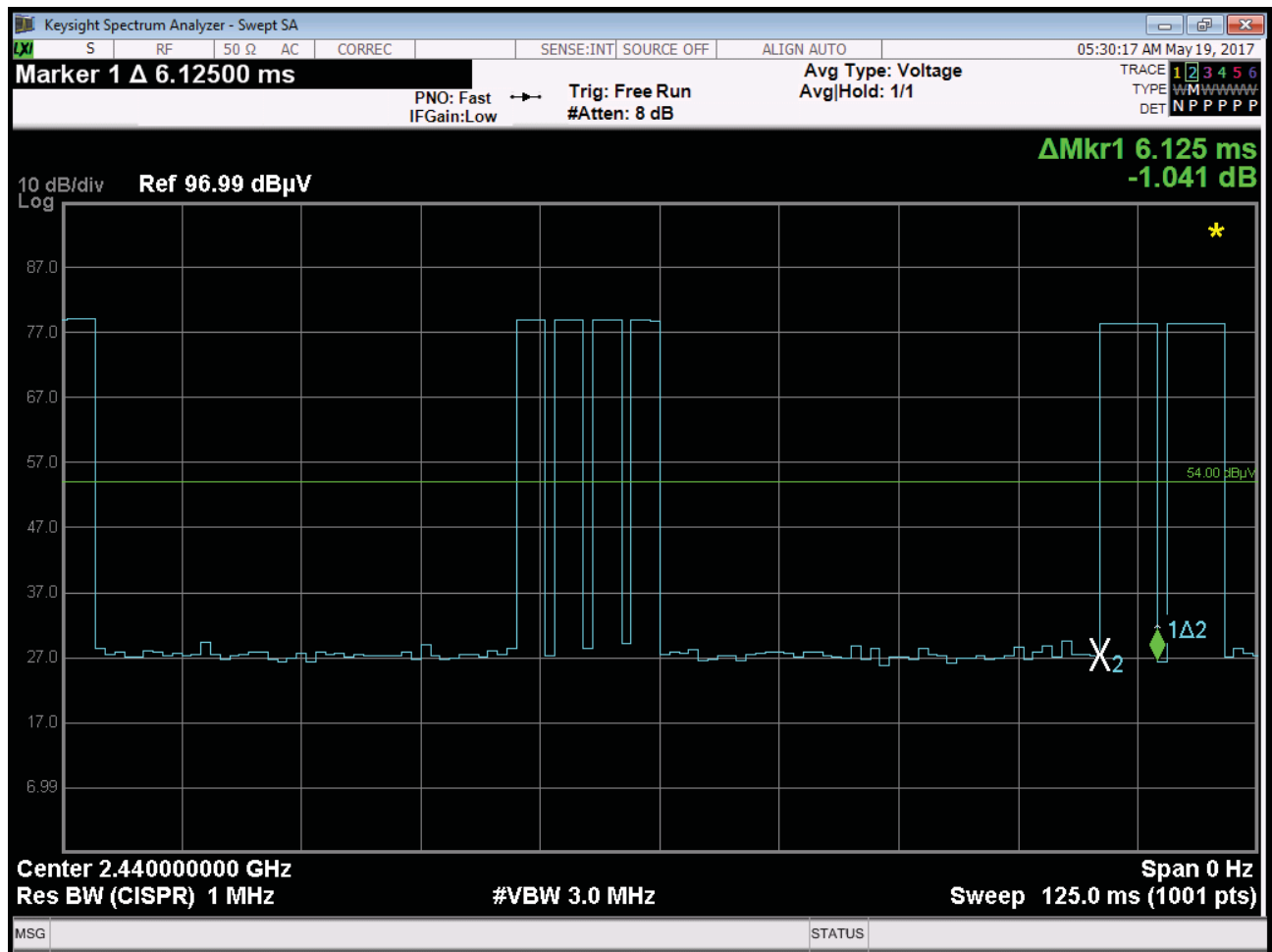
Pulse #2 – 3.25 ms – Attempting to Pair when Control Device is Off



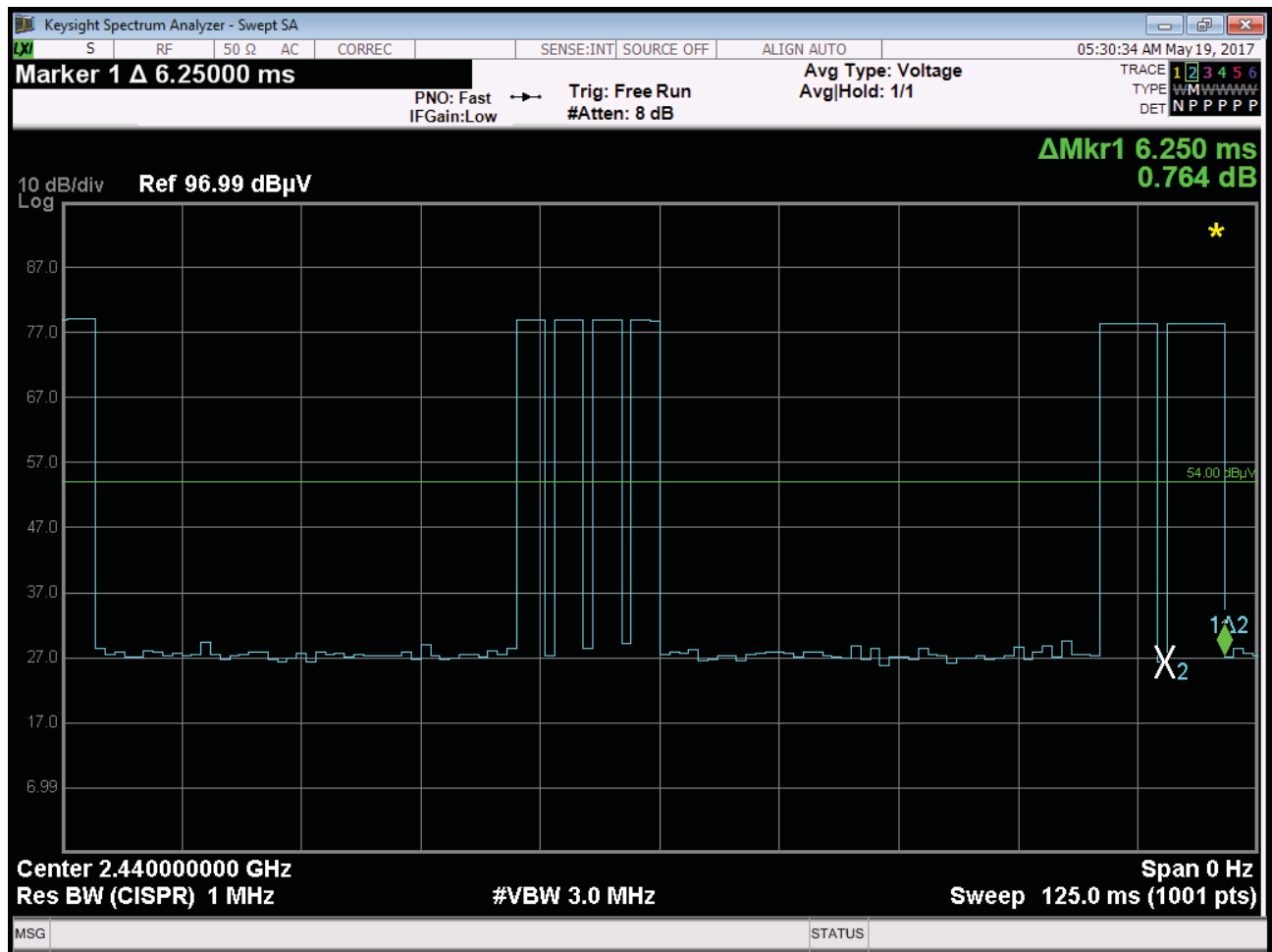
Pulse #3 – 3.25 ms – Attempting to Pair when Control Device is Off



Pulse #4 – 3.25 ms – Attempting to Pair when Control Device is Off



Pulse #5 – 6.125 ms – Attempting to Pair when Control Device is Off



Pulse #6 – 6.25 ms – Attempting to Pair when Control Device is Off

Total On Time = 25.25 ms  
 Total Duty Cycle = 25.25 ms / 100 ms = 25.25%  
 Peak to Average Ratio = -11.95 dB