

*FCC PART 15, SUBPART B and C; RSS-247 and RSS-GEN  
TEST REPORT*

*for*

**STREAMCASTER 4200 TACTICAL MIMO RADIO**

**MODEL: SC4210E-245-EB**

Prepared for

**SILVUS TECHNOLOGIES  
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**DATE: JUNE 7, 2019**

|       | REPORT<br>BODY | APPENDICES |   |   |    |     | TOTAL |
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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: StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB  
S/N: N/A

Product Description: The EUT is a stand-alone IP based, 4 antenna MIMO (multiple input multiple output), Coded OFDM radio that provides improved LOS (line-of-sight) range, greater connectivity in NLOS (non-line-of-sight) environments and high data throughput rates.

Modifications: The EUT was not modified during the testing.

Customer: Silvus Technologies  
10990 Wilshire Boulevard, Suite 1500  
Los Angeles, California 90024

Test Dates: March 25, 26, 27, 28, and 29, 2018; April 1, 2019; and June 7, 2019

Test Specifications covered by accreditation:

Emissions requirements  
CFR Title 47, Part 15, Subpart B; and  
Subpart C, sections 15.205, 15.207, 15.209, and 15.247  
RSS-GEN, Issue 5; and RSS-247, Issue 2

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



## SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION                                                                                            | RESULTS                                                                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Conducted RF Emissions, 150 kHz – 30 MHz                                                               | The EUT complies with the <b>Class B</b> limits of CFR Title 47, Part 15 Subpart B; the limits of CFR Title 47, Part 15, Subpart C, section 15.207 and RSS-GEN |
| 2    | Spurious Radiated RF Emissions, 30 MHz – 1000 MHz                                                      | The EUT complies with the <b>Class B</b> limits of CFR Title 47, Part 15 Subpart B; the limits of CFR Title 47, Part 15, Subpart C, section 15.209 and RSS-247 |
| 3    | Spurious Radiated RF Emissions, 9 kHz – 30 MHz and 1000 MHz – 25000 MHz                                | The EUT complies with the <b>Class B</b> limits of CFR Title 47, Part 15, Subpart B; CFR Title 47, Part 15, Subpart C, section 15.247(d); and RSS-247          |
| 4    | 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) and RSS-247                                                     |
| 5    | 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, section 15.247 (d) and RSS-247                            |
| 6    | DTS Bandwidth                                                                                          | Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (a)(2) and RSS-247                                                 |
| 7    | Maximum Conducted Output Power                                                                         | Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (b)(3) and RSS-247                                                 |
| 8    | RF Conducted Antenna Test                                                                              | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (d) and RSS-247                                                    |
| 9    | 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) and RSS-247                                                    |

## 1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the StreamCaster 4200 Tactical MIMO Radio, Model: SC4210E-245-EB. 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; RSS-GEN and RSS-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

Silvus Technologies

Kathleen Smidt Cook                      Vice President of Operations

Compatible Electronics Inc.

Thomas Szynal                              Test Technician  
Kyle Fujimoto                              Test Engineer

### 2.4 Date Test Sample was Received

The test sample was received on March 23, 2019.

### 2.5 Disposition of the Test Sample

The test sample has not been returned to Silvus Technologies 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                       |

### 3. APPLICABLE DOCUMENTS

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

| SPEC                                  | TITLE                                                                                                                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC Title 47,<br>Part 15<br>Subpart C | FCC Rules - Radio frequency devices (including digital devices) – Intentional Radiators                                                                                                             |
| ANSI C63.4<br>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<br>2013                   | American National Standard for Testing Unlicensed Wireless Devices                                                                                                                                  |
| FCC Title 47,<br>Part 15<br>Subpart B | FCC Rules - Radio frequency devices (including digital devices) – Unintentional Radiators                                                                                                           |
| KDB 662911<br>D01 v02r01              | Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)                                                                                           |
| KDB 558074<br>D01 v05r02              | Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of the FCC Rules |
| RSS-GEN,<br>Issue 5                   | General Requirements for Compliance of Radio Apparatus                                                                                                                                              |
| RSS-247,<br>Issue 2                   | Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices                                                                        |



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

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

The StreamCaster 4200 Tactical MIMO Radio Model: SC4210E-245-EB (EUT) was connected to a junction box, push to talk; USB stick and laptop via its PRI, PTT, and AUX ports, respectively. The junction box was also connected to an AC Adapter and laptop. The laptop was also connected to the AC Adapter, headphones, and mouse via its power, headphones, and mouse ports, respectively.

The EUT was continuously transmitting at 2430 MHz and 2440 MHz during the testing.

The EUT voltage was also varied between 85% and 115% using a variable transformer and the fundamental was verified to not change.

The firmware used for the EUT is stored on the company's servers.

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. 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**

- Cable 1** This is a 1-meter unshielded cable connecting the Push to Talk to the EUT. The cable has a 7-pin LEMO connector at the EUT end and is hard wired into the Push to Talk.
- Cable 2** This is a 2-meter unshielded cable connecting the AC Adapter to the laptop. The cable has a 1/8 inch power connector at the laptop end and is hard wired into the AC Adapter.
- Cable 3** This is a 1-meter unshielded cable connecting the headphones to the laptop. The cable has a 1/8 inch stereo connector at the laptop end and is hard wired into the headphones.
- Cable 4** This is a 10-centimeter unshielded cable connecting the cable creation dongle to the laptop. The cable has a USB type 'A' connector the laptop end and is hard wired into the cable creation dongle.
- Cable 5** This is a 1.25-meter foil shielded cable connecting the cable creation dongle to the junction box. The cable has an RJ-45 connector at the cable creation dongle end and is hard wired into the junction box. This cable along with cable #6 was bundled to a length of 1-meter. The shield of the cable was grounded to the chassis via the connector.
- Cable 6** This is a 1.25-meter foil shielded cable connecting the junction box to the EUT. The cable is hard wired at the junction box end and has a 10-pin LEMO connector at the EUT end. The cable was bundled to a length of 1-meter. The shield of the cable was grounded to the chassis via the connectors.
- Cable 7** This is a 20-centimeter foil shielded cable connecting the EUT to the USB stick. The cable has an 8-pin LEMO connector at the EUT end and a USB type 'A' connector at the USB stick end. The shield of the cable was grounded to the chassis via the connectors.
- Cable 8** This is a 20-centimeter foil shielded cable connecting the EUT to cable #9. The cable has a 10-pin LEMO connector at the EUT end and a USB type 'A' connector at the cable #9 end. The shield of the cable was grounded to the chassis via the connectors.
- Cable 9** This is a 2-meter braid shielded cable connecting cable #8 to the laptop. The cable has a USB type 'A' connector at each end. The cable was bundled to a length of 1-meter. The shield of the cable was grounded to the chassis via the connectors.
- Cable 10** This is a 2-meter unshielded cable connecting the AC Adapter to the junction box. The cable is hard wired at each end. The cable is bundled to a length of 1-meter.
- Cable 11** This is a 2-meter braid shielded cable connecting the mouse to the laptop. The cable has a USB type 'A' connector at the mouse end and is hard wired into the laptop. The shield of the cable is grounded to the chassis via the connector.

## 5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

### 5.1 EUT and Accessory List

| EQUIPMENT                                  | MANUFACTURER                    | MODEL NUMBER      | SERIAL NUMBER  | FCC ID        |
|--------------------------------------------|---------------------------------|-------------------|----------------|---------------|
| STREAMCASTER 4200<br>TACTICAL MIMO RADIO   | SILVUS<br>TECHNOLOGIES          | SC4210E-245-EB    | N/A            | N2S-SC42E-245 |
| AC ADAPTER FOR<br>LAPTOP                   | ASUS                            | N/A               | N/A            | N/A           |
| USB STICK                                  | COMPATIBLE<br>ELECTRONICS, INC. | N/A               | N/A            | N/A           |
| HEADPHONES                                 | N/A                             | N/A               | N/A            | N/A           |
| LAPTOP                                     | ASUS                            | UX303U            | GSNDCJ00L1869C | N/A           |
| PUSH TO TALK                               | IMPACT                          | S2226             | N/A            | N/A           |
| JUNCTION BOX                               | N/A                             | N/A               | N/A            | N/A           |
| AC ADAPTER (EUT)                           | EDAC POWER<br>ELECTRONICS       | EA10523C-120      | N/A            | N/A           |
| (2) OMNIDIRECTIONAL<br>ANTENNAS – 2.15 dBi | SILVUS<br>TECHNOLOGIES          | AOV2D230515G – TM | N/A            | N/A           |
| (2) OMNIDIRECTIONAL<br>ANTENNAS – 4 dBi    | SILVUS<br>TECHNOLOGIES          | AOV45235S – TM    | N/A            | N/A           |
| FIRMWARE FOR EUT*                          | SILVUS<br>TECNOLOGIES           | 3.12.6.8          | N/A            | N/A           |
| MOUSE                                      | LOGITECH                        | M-U0026           | N/A            | N/A           |

\*Used to program the EUT to transmit at 2430 MHz and 2440 MHz on a continuous basis.

## 5.2 Emissions Test Equipment

| EQUIPMENT TYPE                 | MANU-FACTURER              | MODEL NUMBER | SERIAL NUMBER  | CALIBRATION DATE   | CAL. CYCLE |
|--------------------------------|----------------------------|--------------|----------------|--------------------|------------|
| TDK TestLab                    | TDK RF Solutions, Inc.     | 9.22         | 700145         | N/A                | N/A        |
| CombiLog Antenna               | Com-Power                  | AC-220       | 61060          | July 27, 2017      | 2 Year     |
| Horn Antenna                   | Com-Power                  | AH-118       | 071175         | February 22, 2018  | 2 Year     |
| EMI Receiver, 20 Hz – 26.5 GHz | Keysight Technologies      | N9038A       | MY51210150     | July 26, 2018      | 1 Year     |
| Preamplifier                   | Com-Power                  | PA-840       | 711919         | May 10, 2018       | 1 Year     |
| Loop Antenna                   | Com-Power                  | AL-130R      | 121090         | February 5, 2019   | 2 Year     |
| Preamplifier                   | Com-Power                  | PAM-118A     | 551024         | May 10, 2018       | 1 Year     |
| Digital Multimeter             | Fluke                      | 115          | 36601149WS     | September 20, 2018 | 2 Year     |
| Variable Transformer           | Superior Electric          | Type: 11560  | Spec: BP142056 | N/A                | N/A        |
| Horn Antenna                   | Com-Power                  | AH-826       | 71957          | N/A                | N/A        |
| Computer                       | Hewlett Packard            | p6716f       | MXX1030PX0     | N/A                | N/A        |
| LCD Monitor                    | Hewlett Packard            | 52031a       | 3CQ046N3MG     | 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        |
| Power Sensor                   | ETS-Lindgren               | 7002-006     | 00160367       | April 19, 2018     | 2 Year     |
| LISN (EUT)                     | Com-Power                  | LI-215A      | 191951         | January 10, 2019   | 1 Year     |
| LISN (ACC)                     | Com-Power                  | LI-215A      | 191952         | June 28, 2018      | 1 Year     |
| Attenuator, 10 dB              | SureCall                   | SC-ATT-10    | 17100025       | November 27, 2018  | 1 Year     |

## 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 grounded to earth ground via the safety ground of the AC Adapter.

## 7. CHARACTERISTICS OF THE TRANSMITTER

### 7.1 Channel Description and Frequencies

The EUT operates on two channels. The low channel is 2430 MHz and the high channel is 2440 MHz.

### 7.2 Antenna Gain

**Configuration #1:** The EUT utilizes two omnidirectional dipole antennas each antenna having 4.0 dBi gain.

**Configuration #2:** The EUT utilizes two omnidirectional sleeve dipole antennas with each antenna having 2.15 dBi gain.

## 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 EMI Receiver was used as a measuring meter. A 10 dB Attenuator was used for the protection of the EMI Receiver input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the EMI Receiver. 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 computer software. The final qualification data is located in Appendix E.

The six highest reading are listed in Table 1.0.

#### **Test Results:**

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; the limits of CFR Title 47, Part 15, Subpart C, Section 15.207; and RSS-GEN for conducted emissions. Please see Appendix E for the data sheets.

### 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. At frequencies above 1 GHz, external preamplifiers were used. 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. A quasi-peak reading was taken only for those readings, which are marked accordingly on the data sheets.

The frequencies above 1 GHz were averaged by using the RMS detector function on the EMI Receiver.

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.

The six highest reading are listed in Table 2.0.

#### Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; the limits of CFR Title 47, Part 15, Subpart C, Sections 15.209 and 15.247 (d); and RSS-GEN and RSS-247 for radiated emissions. Please see Appendix E for the data sheets.

### 8.1.3 RF Emissions Test Results

Table 1.0 CONDUCTED EMISSION RESULTS  
StreamCaster 4200 Tactical MIMO Radio, Model: SC4210E-245-EB

| Frequency<br>MHz                                      | Corrected<br>Reading*<br>dBuV | Specification Limit<br>dBuV | Delta<br>(Cor. Reading – Spec.<br>Limit)<br>dB |
|-------------------------------------------------------|-------------------------------|-----------------------------|------------------------------------------------|
| 0.466 (BL) (4 dBi Antennas)<br>(2440 MHz – 20 MHz BW) | 36.36 (Avg)                   | 46.53                       | -10.17                                         |
| 0.450 (BL) (4 dBi Antennas)<br>(2440 MHz – 20 MHz BW) | 36.01 (Avg)                   | 46.54                       | -10.52                                         |
| 0.466 (WL) (4 dBi Antennas)<br>(2440 MHz – 20 MHz BW) | 35.44 (Avg)                   | 46.54                       | -11.10                                         |
| 0.470 (WL) (4 dBi Antennas)<br>(2440 MHz – 20 MHz BW) | 34.92 (Avg)                   | 46.58                       | -11.66                                         |
| 0.462 (WL) (4 dBi Antennas)<br>(2440 MHz – 20 MHz BW) | 34.64 (Avg)                   | 46.62                       | -11.98                                         |
| 0.462 (BL) (4dBi Antennas)<br>(2440 MHz – 20 MHz BW)  | 34.19 (Avg)                   | 46.63                       | -12.44                                         |

BL Black Lead  
WL White Lead  
Avg Average  
Tx Transmit  
Rx Receive



Table 2.0      **RADIATED EMISSION RESULTS**  
StreamCaster 4200 Tactical MIMO Radio, Model: SC4210E-245-EB

| Frequency<br>MHz                                     | Corrected<br>Reading*<br>dBuV/m | Specification Limit<br>dBuV | Delta<br>(Cor. Reading – Spec.<br>Limit)<br>dB |
|------------------------------------------------------|---------------------------------|-----------------------------|------------------------------------------------|
| 78.80 (V) (4 dBi Antennas)<br>(2430 MHz – 10 MHz BW) | 35.350 (QP)                     | 40.00                       | -4.70                                          |
| 78.40 (V) (4 dBi Antennas)<br>(2440 MHz – 10 MHz BW) | 35.23 (QP)                      | 40.00                       | -4.77                                          |
| 77.30 (V) (4 dBi Antennas)<br>(2430 MHz – 10 MHz BW) | 35.03 (QP)                      | 40.00                       | -4.97                                          |
| 79.20 (V) (4 dBi Antennas)<br>(2430 MHz – 10 MHz BW) | 34.75 (QP)                      | 40.00                       | -5.25                                          |
| 81.10 (V) (4 dBi Antennas)<br>(2430 MHz – 10 MHz BW) | 34.68 (QP)                      | 40.00                       | -5.32                                          |
| 82.20 (V) (4 dBi Antennas)<br>(2440 MHz – 10 MHz BW) | 34.65 (QP)                      | 40.00                       | -5.35                                          |

QP      Quasi-Peak Reading  
H      Horizontal Polarization

Avg      Average Reading  
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 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); and RSS-247.

## 8.3 Maximum Conducted Output Power

The Conducted Average Output Power was measured using the Power Meter. The average output power was measured using the average power measurement procedure described in section 8.3.2.3 of KDB 558074 v05r02. The Maximum Conducted Output Power was then taken.

The power at each port was summed per section (E)(1) of KDB 662911 D01 v02r01.

### Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (b)(3); and RSS-247.

#### 8.4 Emissions in Non-Restricted Bands

The emissions in the non-restricted frequency bands measurements were performed using the EMI receiver directly connected to the EUT. The reference level was established by setting the instrument center frequency to DTS channel center frequency. The span was set to  $\geq 1.5$  times the DTS bandwidth. The RBW was set to 100 kHz and the VBW was set to 300 kHz. 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 30 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. The RBW was set to 100 kHz and the VBW was set to 300 kHz. 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); and RSS-247.

#### 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; and RSS-247. 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 at least 1.5 times the OBW.
3. Set the RBW to 3 kHz  $\leq$  RBW  $\leq$  100 kHz
4. Set the VBW  $\geq$  3 X RBW
5. Detector = power averaging (RMS)
6. Ensure that the number of measurement points in the sweep  $\geq$  2 x span/RBW
7. Sweep time = auto couple
8. Employ trace averaging (RMS) mode over a minimum of 100 traces
9. Use the peak marker function to determine the maximum amplitude level
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

The spectral density at each port was summed per Section (E)(2)(c) of KDB 662911 D01 v02r01.

### Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (e) and RSS-247.

## 8.7 Variation of the Input Power

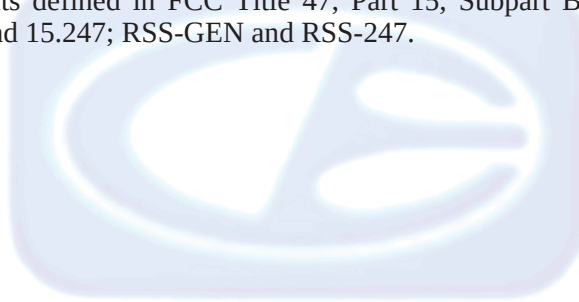
The variation of the input power test was performed using the EMI Receiver. The EUT input power was varied between 85% and 115% of the nominal rated supply voltage. The carrier frequency was monitored for any change in amplitude.

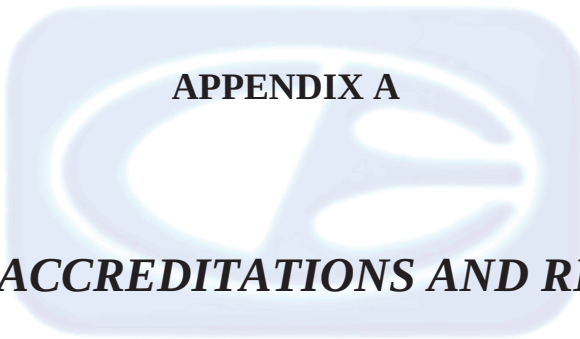
### Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart A section 15.31 (e) and RSS-GEN.

## 9. CONCLUSIONS

The StreamCaster 4200 Tactical MIMO Radio, Model: SC4210E-245-EB, as tested, meets all of the specification limits defined in FCC Title 47, Part 15, Subpart B, and Subpart C, sections 15.205, 15.207, 15.209 and 15.247; RSS-GEN and RSS-247.





## APPENDIX A

# ***LABORATORY ACCREDITATIONS AND RECOGNITIONS***

---

**Brea Division**  
114 Olinda Drive  
Brea, CA 92823  
(714) 579-0500

**Newbury Park Division**  
1050 Lawrence Drive  
Newbury Park, CA 91320  
(805) 480-4044

**Lake Forest Division**  
20621 Pascal Way  
Lake Forest, CA 92630  
(949) 587-0400

## 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."





**APPENDIX B**

***MODIFICATIONS TO THE EUT***



## MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC Subpart B, FCC 15.247, RSS-GEN and RSS-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***

---

**Brea Division**  
114 Olinda Drive  
Brea, CA 92823  
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**Lake Forest Division**  
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Lake Forest, CA 92630  
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## **ADDITIONAL MODELS COVERED UNDER THIS REPORT**

USED FOR THE PRIMARY TEST

StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB  
S/N: N/A

There are no additional models covered under this report.

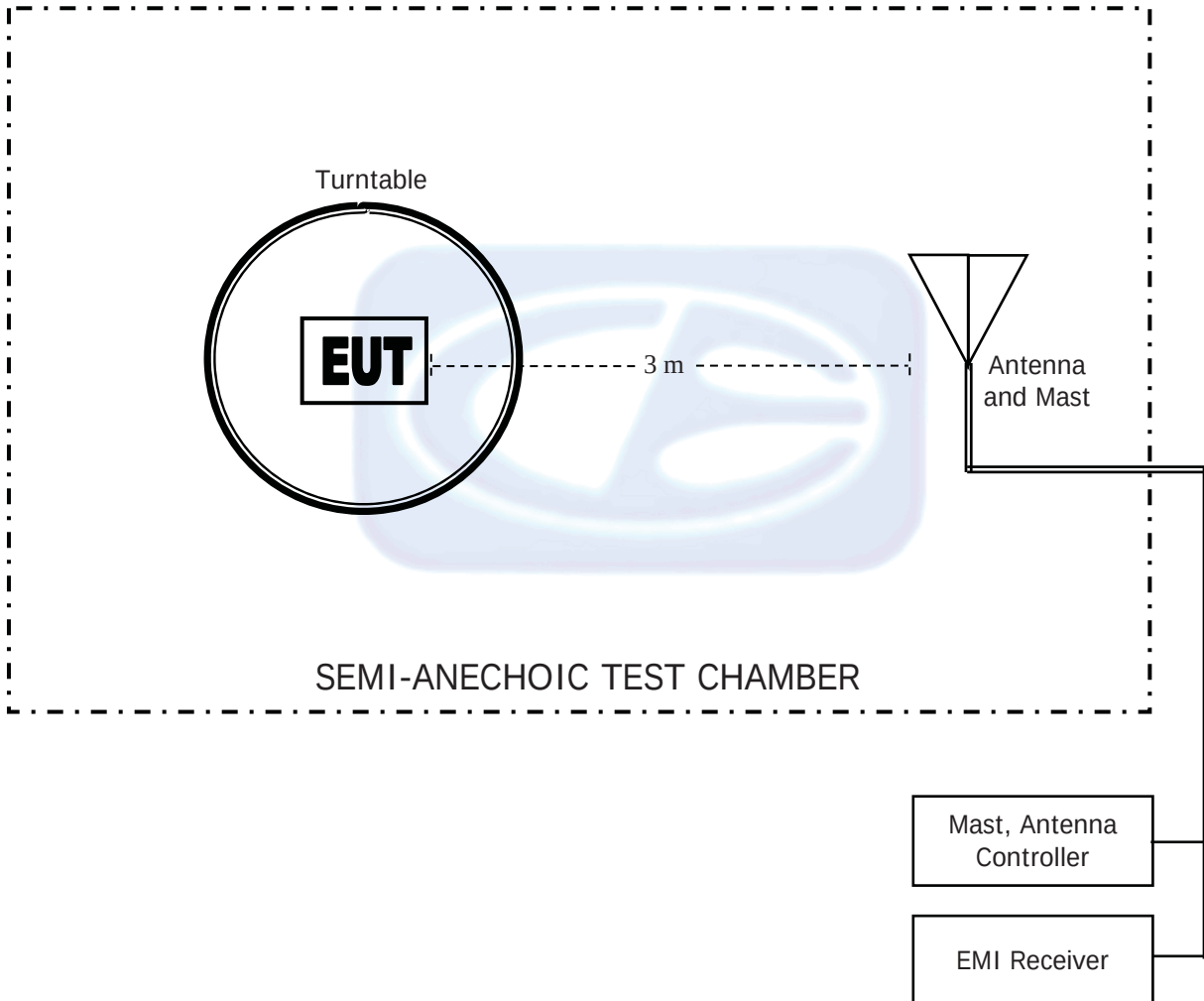




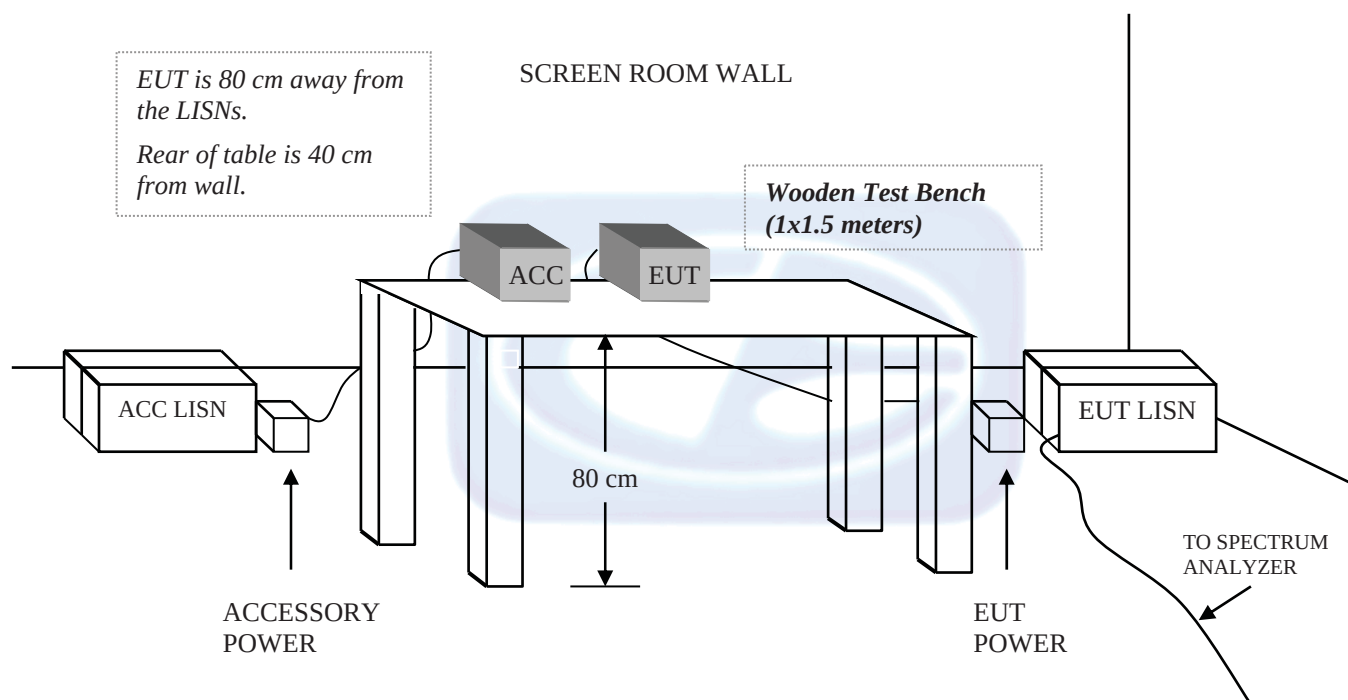
**APPENDIX D**

***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 5, 2019

| <b>FREQUENCY<br/>(MHz)</b> | <b>MAGNETIC<br/>(dB/m)</b> | <b>ELECTRIC<br/>(dB/m)</b> |
|----------------------------|----------------------------|----------------------------|
| 0.01                       | 15.6                       | -35.9                      |
| 0.02                       | 14.8                       | -36.7                      |
| 0.03                       | 15.6                       | -35.9                      |
| 0.04                       | 15.1                       | -36.4                      |
| 0.05                       | 14.4                       | -37.0                      |
| 0.06                       | 14.6                       | -36.9                      |
| 0.07                       | 14.4                       | -37.1                      |
| 0.08                       | 14.3                       | -37.1                      |
| 0.09                       | 14.5                       | -36.9                      |
| 0.10                       | 14.1                       | -37.3                      |
| 0.20                       | 14.1                       | -37.3                      |
| 0.30                       | 14.0                       | -37.4                      |
| 0.40                       | 14.0                       | -37.4                      |
| 0.50                       | 14.2                       | -37.2                      |
| 0.60                       | 14.2                       | -37.2                      |
| 0.70                       | 14.2                       | -37.2                      |
| 0.80                       | 14.2                       | -37.3                      |
| 0.90                       | 14.3                       | -37.2                      |
| 1.00                       | 14.5                       | -37.0                      |
| 2.00                       | 14.5                       | -36.9                      |
| 3.00                       | 14.5                       | -36.9                      |
| 4.00                       | 14.7                       | -36.8                      |
| 5.00                       | 14.6                       | -36.9                      |
| 6.00                       | 14.6                       | -36.9                      |
| 7.00                       | 14.6                       | -36.9                      |
| 8.00                       | 14.6                       | -36.9                      |
| 9.00                       | 14.6                       | -36.9                      |
| 10.00                      | 14.8                       | -36.6                      |
| 11.00                      | 14.9                       | -36.6                      |
| 12.00                      | 14.8                       | -36.6                      |
| 13.00                      | 14.8                       | -36.7                      |
| 14.00                      | 14.6                       | -36.8                      |
| 15.00                      | 14.5                       | -36.9                      |
| 16.00                      | 14.5                       | -37.0                      |
| 17.00                      | 14.6                       | -36.9                      |
| 18.00                      | 14.7                       | -36.7                      |
| 19.00                      | 14.8                       | -36.6                      |
| 20.00                      | 14.9                       | -36.6                      |
| 21.00                      | 14.6                       | -36.8                      |
| 22.00                      | 14.2                       | -37.2                      |
| 23.00                      | 13.7                       | -37.7                      |
| 24.00                      | 13.3                       | -38.2                      |
| 25.00                      | 13.0                       | -38.5                      |
| 26.00                      | 12.9                       | -38.6                      |
| 27.00                      | 13.0                       | -38.5                      |
| 28.00                      | 13.1                       | -38.4                      |
| 29.00                      | 13.1                       | -38.4                      |
| 30.00                      | 12.9                       | -38.5                      |

COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61060

CALIBRATION DATE: JULY 27, 2017

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 30                 | 23.80          | 200                | 14.10          |
| 35                 | 24.00          | 250                | 15.30          |
| 40                 | 24.70          | 300                | 17.70          |
| 45                 | 22.90          | 350                | 17.70          |
| 50                 | 22.10          | 400                | 19.00          |
| 60                 | 17.60          | 450                | 21.30          |
| 70                 | 12.70          | 500                | 21.00          |
| 80                 | 11.20          | 550                | 22.30          |
| 90                 | 13.10          | 600                | 23.40          |
| 100                | 14.40          | 650                | 22.90          |
| 120                | 15.30          | 700                | 24.60          |
| 125                | 15.00          | 750                | 24.50          |
| 140                | 12.80          | 800                | 25.40          |
| 150                | 16.50          | 850                | 26.40          |
| 160                | 12.90          | 900                | 27.20          |
| 175                | 14.30          | 950                | 27.80          |
| 180                | 14.50          | 1000               | 26.80          |



**COM POWER AH-118****HORN ANTENNA****S/N: 071175****CALIBRATION DATE: FEBRUARY 22, 2018**

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 23.71                  | 10.0                       | 40.08                  |
| 1.5                        | 25.46                  | 10.5                       | 40.75                  |
| 2.0                        | 29.26                  | 11.0                       | 41.78                  |
| 2.5                        | 27.95                  | 11.5                       | 41.02                  |
| 3.0                        | 29.03                  | 12.0                       | 40.32                  |
| 3.5                        | 29.70                  | 12.5                       | 40.96                  |
| 4.0                        | 30.71                  | 13.0                       | 40.29                  |
| 4.5                        | 31.62                  | 13.5                       | 39.48                  |
| 5.0                        | 33.23                  | 14.0                       | 39.89                  |
| 5.5                        | 35.07                  | 14.5                       | 42.75                  |
| 6.0                        | 34.43                  | 15.0                       | 40.98                  |
| 6.5                        | 34.98                  | 15.5                       | 38.54                  |
| 7.0                        | 36.75                  | 16.0                       | 39.40                  |
| 7.5                        | 37.10                  | 16.5                       | 39.40                  |
| 8.0                        | 37.66                  | 17.0                       | 41.74                  |
| 8.5                        | 39.29                  | 17.5                       | 42.58                  |
| 9.0                        | 37.75                  | 18.0                       | 44.68                  |
| 9.5                        | 38.23                  |                            |                        |

**COM-POWER PAM-118A****PREAMPLIFIER****S/N: 551024****CALIBRATION DATE: MAY 10, 2018**

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1.0                        | 40.99                  | 6.0                        | 39.01                  |
| 1.1                        | 39.77                  | 6.5                        | 39.00                  |
| 1.2                        | 39.02                  | 7.0                        | 39.69                  |
| 1.3                        | 39.44                  | 7.5                        | 38.96                  |
| 1.4                        | 39.64                  | 8.0                        | 38.57                  |
| 1.5                        | 40.23                  | 8.5                        | 39.17                  |
| 1.6                        | 40.17                  | 9.0                        | 38.82                  |
| 1.7                        | 40.23                  | 9.5                        | 39.30                  |
| 1.8                        | 39.48                  | 10.0                       | 38.90                  |
| 1.9                        | 39.85                  | 11.0                       | 38.86                  |
| 2.0                        | 39.99                  | 12.0                       | 39.87                  |
| 2.5                        | 40.38                  | 13.0                       | 39.55                  |
| 3.0                        | 40.64                  | 14.0                       | 38.92                  |
| 3.5                        | 40.68                  | 15.0                       | 39.33                  |
| 4.0                        | 40.87                  | 16.0                       | 39.60                  |
| 4.5                        | 40.04                  | 17.0                       | 40.28                  |
| 5.0                        | 39.54                  | 18.0                       | 39.58                  |
| 5.5                        | 39.58                  |                            |                        |

**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                   |

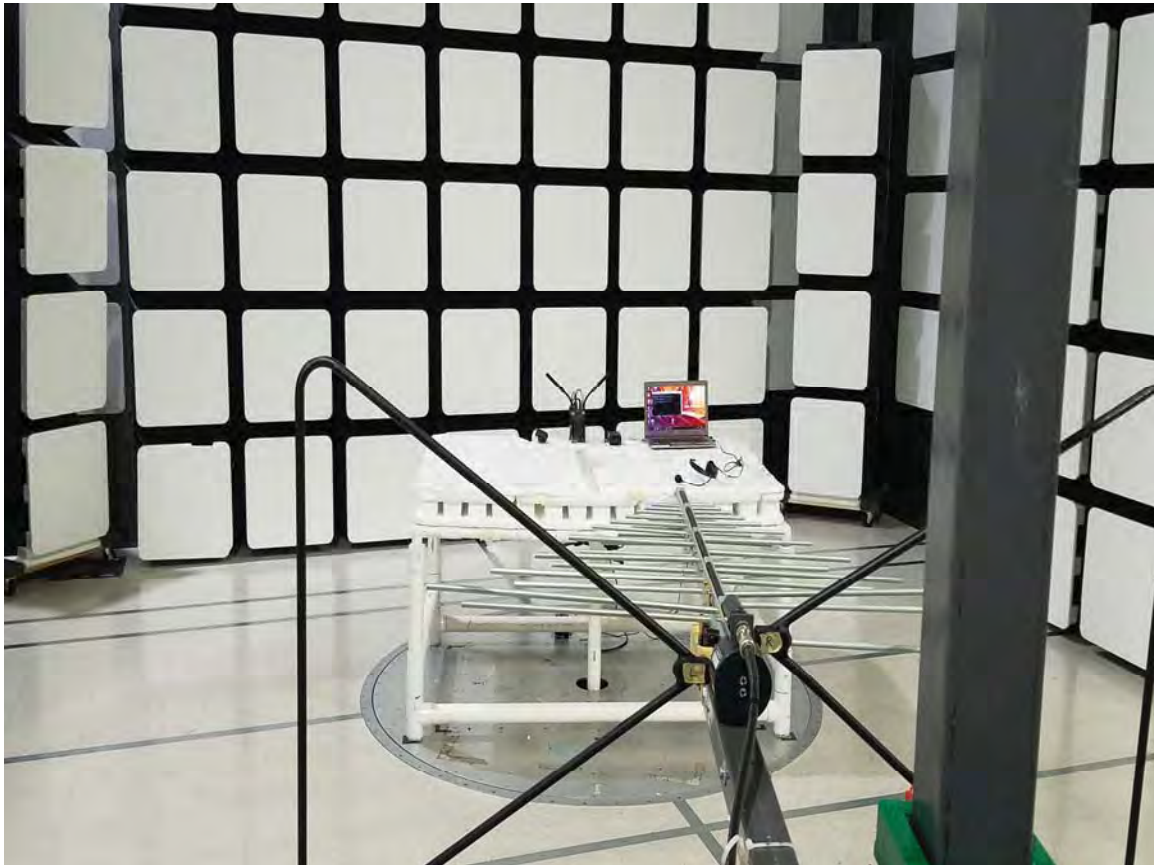
**COM-POWER PA-840**

**MICROWAVE PREAMPLIFIER**

**S/N: 711919**

**CALIBRATION DATE: MAY 10, 2018**

| <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(GHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 18.0                       | 27.17                  | 31.0                       | 28.04                  |
| 19.0                       | 28.16                  | 31.5                       | 27.69                  |
| 20.0                       | 29.34                  | 32.0                       | 27.07                  |
| 21.0                       | 28.08                  | 32.5                       | 26.90                  |
| 22.0                       | 27.07                  | 33.0                       | 27.39                  |
| 23.0                       | 27.23                  | 33.5                       | 26.29                  |
| 24.0                       | 26.89                  | 34.0                       | 26.79                  |
| 25.0                       | 28.43                  | 34.5                       | 26.38                  |
| 26.0                       | 27.29                  | 35.0                       | 26.01                  |
| 26.5                       | 28.40                  | 35.5                       | 25.27                  |
| 27.0                       | 26.68                  | 36.0                       | 27.18                  |
| 27.5                       | 26.63                  | 36.5                       | 26.28                  |
| 28.0                       | 27.28                  | 37.0                       | 26.45                  |
| 28.5                       | 27.47                  | 37.5                       | 25.99                  |
| 29.0                       | 27.12                  | 38.0                       | 27.91                  |
| 29.5                       | 27.04                  | 38.5                       | 28.41                  |
| 30.0                       | 27.42                  | 39.0                       | 28.97                  |
| 30.5                       | 27.70                  | 39.5                       | 28.66                  |
|                            |                        | 40.0                       | 26.38                  |



**FRONT VIEW**

**SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB  
FCC SUBPART B AND C; AND RSS-247 – RADIATED EMISSIONS – 2.15 dBi ANTENNAS  
BELOW 1 GHz**

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

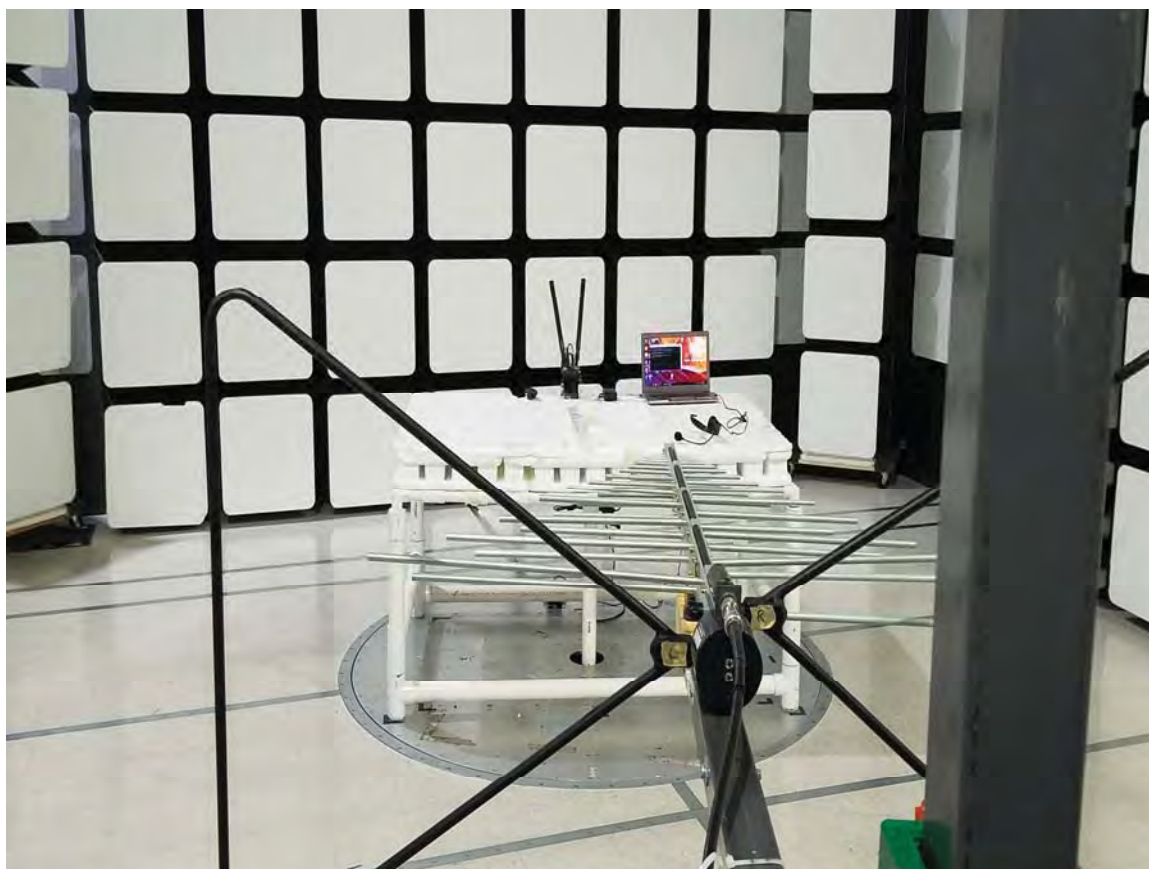


**REAR VIEW**

**SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB  
FCC SUBPART B AND C; AND RSS-247 – RADIATED EMISSIONS – 2.15 dBi ANTENNAS  
BELOW 1 GHz**

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





**FRONT VIEW**

SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB  
FCC SUBPART B AND C; AND RSS-247 – RADIATED EMISSIONS – 4 dBi ANTENNAS  
BELOW 1 GHz

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

Brea Division  
114 Olinda Drive  
Brea, CA 92823  
(714) 579-0500

Newbury Park Division  
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Newbury Park, CA 91320  
(805) 480-4044

Lake Forest Division  
20621 Pascal Way  
Lake Forest, CA 92630  
(949) 587-0400



**REAR VIEW**

SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB  
FCC SUBPART B AND C; AND RSS-247 – RADIATED EMISSIONS – 4 dBi ANTENNAS  
BELOW 1 GHz

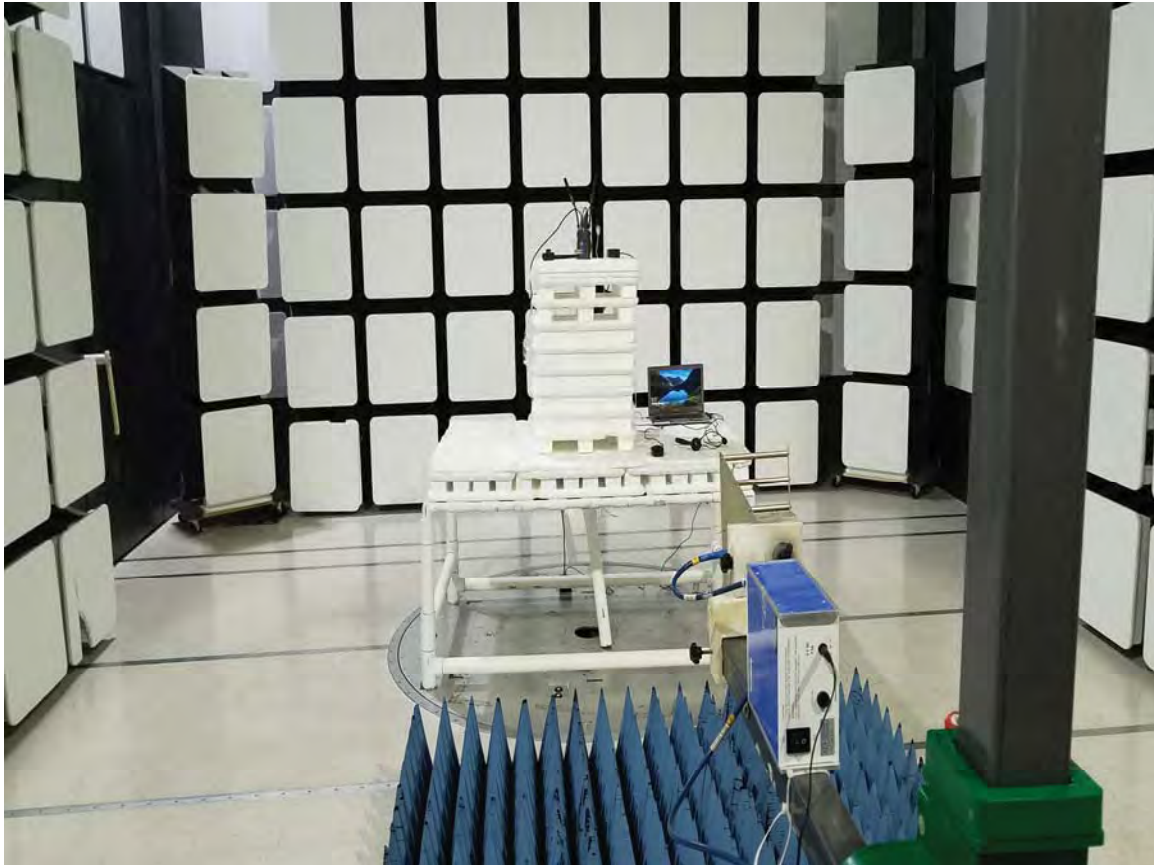
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

**Brea Division**  
114 Olinda Drive  
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**FRONT VIEW**

**SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB  
FCC SUBPART B AND C; AND RSS-247 – RADIATED EMISSIONS – 2.15 dBi ANTENNAS  
ABOVE 1 GHz**

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

**Brea Division  
114 Olinda Drive  
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**REAR VIEW**

SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB  
FCC SUBPART B AND C; AND RSS-247 – RADIATED EMISSIONS – 2.15 dBi ANTENNAS  
ABOVE 1 GHz

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



**FRONT VIEW**

SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB  
FCC SUBPART B AND C; AND RSS-247 – RADIATED EMISSIONS – 4 dBi ANTENNAS  
ABOVE 1 GHz

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

Brea Division  
114 Olinda Drive  
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**REAR VIEW**

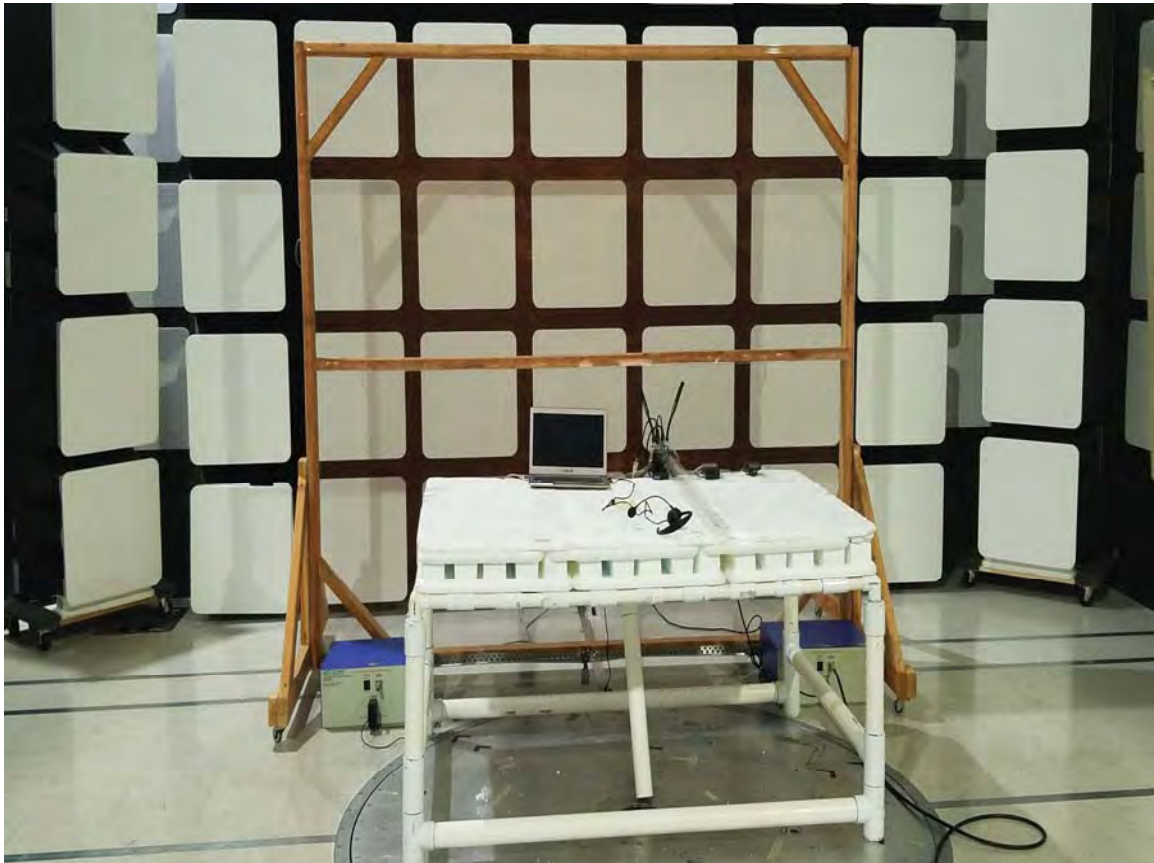
SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB  
FCC SUBPART B AND C; AND RSS-247 – RADIATED EMISSIONS – 4 dBi ANTENNAS  
ABOVE 1 GHz

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

Brea Division  
114 Olinda Drive  
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**FRONT VIEW**

SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB  
FCC SUBPART B AND C; AND RSS-GEN – 2.15 dBi ANTENNAS – CONDUCTED EMISSIONS

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

**Brea Division**  
114 Olinda Drive  
Brea, CA 92823  
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(949) 587-0400



**REAR VIEW**

SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB

FCC SUBPART B AND C; AND RSS-GEN – 2.15 dBi ANTENNAS – CONDUCTED EMISSIONS

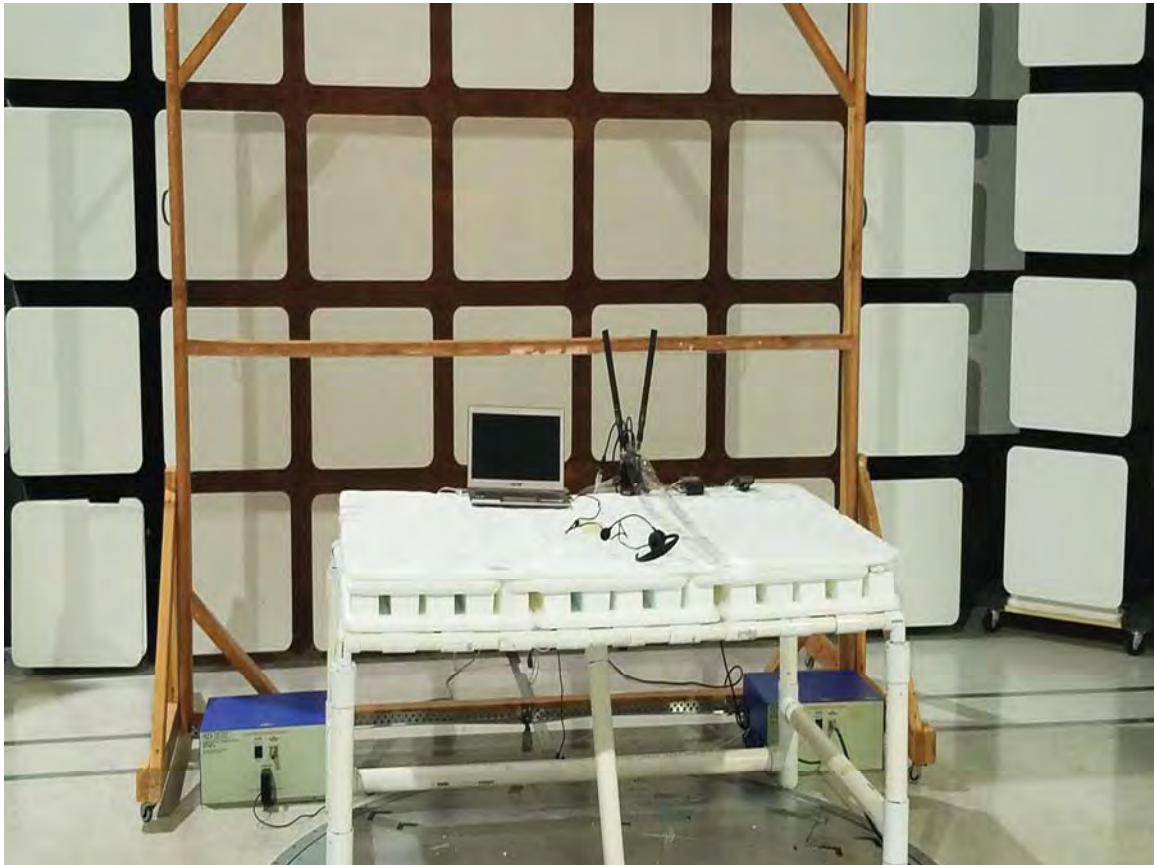
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

**Brea Division**  
114 Olinda Drive  
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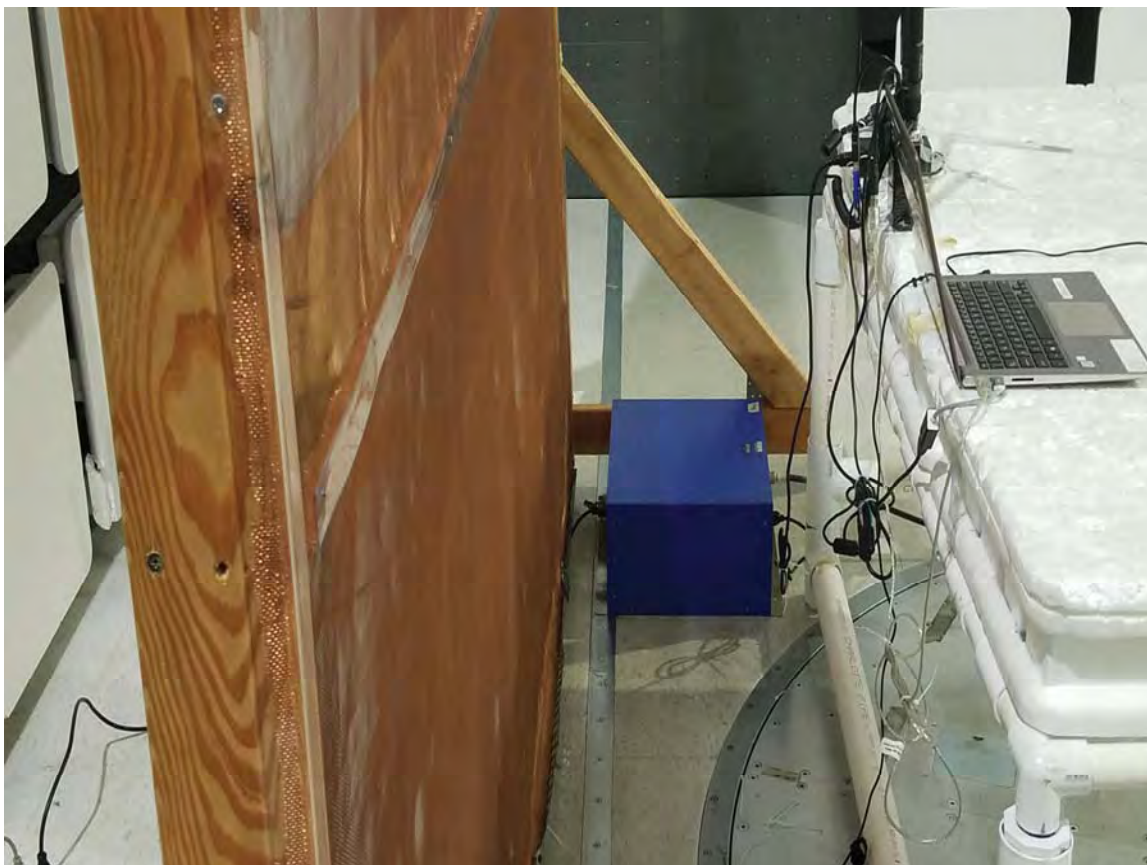




**FRONT VIEW**

SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB  
FCC SUBPART B AND C; AND RSS-GEN – 4 dBi ANTENNAS – CONDUCTED EMISSIONS

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



**REAR VIEW**

SILVUS TECHNOLOGIES  
STREAMCASTER 4200 TACTICAL MIMO RADIO  
MODEL: SC4210E-245-EB  
FCC SUBPART B AND C; AND RSS-GEN – 4 dBi ANTENNAS – CONDUCTED EMISSIONS

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





**APPENDIX E**

***DATA SHEETS***



***RADIATED EMISSIONS  
DATA SHEETS***

**FCC 15.247 and RSS-247**Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EBDate: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - X-Axis****2430 MHz Fundamental****10 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 41.83          | V         | 73.97 | -32.14 | Peak            | 57.00             | 111.20           |                        |
| 4860        | 30.89          | V         | 53.97 | -23.08 | Avg             | 57.00             | 111.20           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 50.15          | V         | 73.97 | -23.82 | Peak            | 62.25             | 127.20           |                        |
| 7290        | 39.53          | V         | 53.97 | -14.44 | Avg             | 62.25             | 127.20           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Y-Axis**

**2430 MHz Fundamental**

**10 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 41.23          | V         | 73.97 | -32.74 | Peak            | 53.75             | 249.91           |                        |
| 4860        | 30.16          | V         | 53.97 | -23.81 | Avg             | 53.75             | 249.91           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 49.74          | V         | 73.97 | -24.23 | Peak            | 63.50             | 127.20           |                        |
| 7290        | 39.57          | V         | 53.97 | -14.40 | Avg             | 63.50             | 127.20           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Z-Axis**

**2430 MHz Fundamental**

**10 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 40.47          | V         | 73.97 | -33.50 | Peak            | 144.00            | 249.91           |                        |
| 4860        | 29.97          | V         | 53.97 | -24.00 | Avg             | 144.00            | 249.91           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 49.56          | V         | 73.97 | -24.41 | Peak            | 59.00             | 127.14           |                        |
| 7290        | 39.01          | V         | 53.97 | -14.96 | Avg             | 59.00             | 127.14           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247 and RSS-247**Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EBDate: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - X-Axis****2430 MHz Fundamental****10 MHz BW - 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 41.18          | H         | 73.97 | -32.79 | Peak            | 38.00             | 175.68           |                        |
| 4860        | 30.31          | H         | 53.97 | -23.66 | Avg             | 38.00             | 175.68           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 44.98          | H         | 73.97 | -28.99 | Peak            | 229.50            | 222.91           |                        |
| 7290        | 34.64          | H         | 53.97 | -19.33 | Avg             | 229.50            | 222.91           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Y-Axis**
**2430 MHz Fundamental**
**10 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 40.54          | H         | 73.97 | -33.43 | Peak            | 359.50            | 127.68           |                        |
| 4860        | 30.23          | H         | 53.97 | -23.74 | Avg             | 359.50            | 127.68           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 45.38          | H         | 73.97 | -28.59 | Peak            | 94.25             | 158.85           |                        |
| 7290        | 34.90          | H         | 53.97 | -19.07 | Avg             | 94.25             | 158.85           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |



**FCC 15.247 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Z-Axis**

**2430 MHz Fundamental**

**10 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 43.99          | H         | 73.97 | -29.98 | Peak            | 345.25            | 120.25           |                        |
| 4860        | 33.21          | H         | 53.97 | -23.74 | Avg             | 345.25            | 120.25           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 46.38          | H         | 73.97 | -27.59 | Peak            | 100.25            | 160.25           |                        |
| 7290        | 35.29          | H         | 53.97 | -18.68 | Avg             | 100.25            | 160.25           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - X-Axis**

**2440 MHz Fundamental**

**10 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.59          | V         | 73.97 | -32.38 | Peak            | 60.00             | 159.14           |                        |
| 4880        | 31.16          | V         | 53.97 | -22.81 | Avg             | 60.00             | 159.14           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 49.69          | V         | 73.97 | -24.28 | Peak            | 61.25             | 143.38           |                        |
| 7320        | 38.90          | V         | 53.97 | -15.07 | Avg             | 61.25             | 143.38           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Y-Axis**

**2440 MHz Fundamental**

**10 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.51          | V         | 73.97 | -32.46 | Peak            | 247.75            | 143.08           |                        |
| 4880        | 30.88          | V         | 53.97 | -23.09 | Avg             | 247.75            | 143.08           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 50.00          | V         | 73.97 | -23.97 | Peak            | 60.25             | 127.32           |                        |
| 7320        | 39.04          | V         | 53.97 | -14.93 | Avg             | 60.25             | 127.32           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Z-Axis**

**2440 MHz Fundamental**

**10 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 42.38          | V         | 73.97 | -31.59 | Peak            | 177.00            | 190.01           |                        |
| 4880        | 31.08          | V         | 53.97 | -22.89 | Avg             | 177.00            | 190.01           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 49.83          | V         | 73.97 | -24.14 | Peak            | 59.75             | 127.08           |                        |
| 7320        | 38.83          | V         | 53.97 | -15.14 | Avg             | 59.75             | 127.08           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - X-Axis**

**2440 MHz Fundamental**

**10 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.44          | H         | 73.97 | -32.53 | Peak            | 339.75            | 190.97           |                        |
| 4880        | 30.50          | H         | 53.97 | -23.47 | Avg             | 339.75            | 190.97           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 46.03          | H         | 73.97 | -27.94 | Peak            | 97.00             | 190.79           |                        |
| 7320        | 35.08          | H         | 53.97 | -18.89 | Avg             | 97.00             | 190.79           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Y-Axis**

**2440 MHz Fundamental**

**10 MHz BW – 2.15 dBi Antennas**

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Pol (v/h) | Limit | Margin | Peak /<br>QP /<br>Avg | Table<br>Angle<br>(deg) | Ant.<br>Height<br>(cm) | Comments               |
|----------------|-------------------|-----------|-------|--------|-----------------------|-------------------------|------------------------|------------------------|
| 4880           | 41.56             | H         | 73.97 | -32.41 | Peak                  | 256.25                  | 207.20                 |                        |
| 4880           | 30.50             | H         | 53.97 | -23.47 | Avg                   | 256.25                  | 207.20                 |                        |
|                |                   |           |       |        |                       |                         |                        |                        |
| 7320           | 46.00             | H         | 73.97 | -27.97 | Peak                  | 245.75                  | 175.20                 |                        |
| 7320           | 35.43             | H         | 53.97 | -18.54 | Avg                   | 245.75                  | 175.20                 |                        |
|                |                   |           |       |        |                       |                         |                        |                        |
| 9760           |                   |           |       |        |                       |                         |                        | Done Via Conducted     |
| 9760           |                   |           |       |        |                       |                         |                        | Not in Restricted Band |
|                |                   |           |       |        |                       |                         |                        |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Z-Axis**

**2440 MHz Fundamental**

**10 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 43.59          | H         | 73.97 | -30.38 | Peak            | 255.25            | 209.20           |                        |
| 4880        | 32.52          | H         | 53.97 | -21.45 | Avg             | 255.25            | 209.20           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 48.32          | H         | 73.97 | -25.65 | Peak            | 247.52            | 176.20           |                        |
| 7320        | 37.53          | H         | 53.97 | -16.44 | Avg             | 247.52            | 176.20           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
 StreamCaster 4200 Tactical MIMO Radio  
 Model: SC4210E-245-EB

Date: 03/28/2019  
 Lab: D  
 Tested By: Kyle Fujimoto

**Harmonics - X-Axis**

**2440 MHz Fundamental**

**20 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.78          | V         | 73.97 | -32.19 | Peak            | 108.00            | 249.91           |                        |
| 4880        | 30.71          | V         | 53.97 | -23.26 | Avg             | 108.00            | 249.91           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 50.13          | V         | 73.97 | -23.84 | Peak            | 59.25             | 127.38           |                        |
| 7320        | 39.21          | V         | 53.97 | -14.76 | Avg             | 59.25             | 127.38           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EBDate: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - Y-Axis****2440 MHz Fundamental****20 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.22          | V         | 73.97 | -32.75 | Peak            | 291.25            | 111.44           |                        |
| 4880        | 30.85          | V         | 53.97 | -23.12 | Avg             | 291.25            | 111.44           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 50.93          | V         | 73.97 | -23.04 | Peak            | 60.25             | 127.32           |                        |
| 7320        | 39.29          | V         | 53.97 | -14.68 | Avg             | 60.25             | 127.32           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Z-Axis**

**2440 MHz Fundamental**

**20 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.31          | V         | 73.97 | -32.66 | Peak            | 241.75            | 111.56           |                        |
| 4880        | 30.60          | V         | 53.97 | -23.37 | Avg             | 241.75            | 111.56           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 49.84          | V         | 73.97 | -24.13 | Peak            | 63.00             | 127.32           |                        |
| 7320        | 39.63          | V         | 53.97 | -14.34 | Avg             | 63.00             | 127.32           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - X-Axis**

**2440 MHz Fundamental**

**20 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.53          | H         | 73.97 | -32.44 | Peak            | 306.50            | 223.02           |                        |
| 4880        | 30.66          | H         | 53.97 | -23.31 | Avg             | 306.50            | 223.02           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 45.53          | H         | 73.97 | -28.44 | Peak            | 5.25              | 238.85           |                        |
| 7320        | 34.82          | H         | 53.97 | -19.15 | Avg             | 5.25              | 238.85           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Y-Axis**

**2440 MHz Fundamental**

**20 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.20          | H         | 73.97 | -32.77 | Peak            | 228.50            | 159.14           |                        |
| 4880        | 30.69          | H         | 53.97 | -23.28 | Avg             | 228.50            | 159.14           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 45.42          | H         | 73.97 | -28.55 | Peak            | 181.50            | 111.38           |                        |
| 7320        | 34.70          | H         | 53.97 | -19.27 | Avg             | 181.50            | 111.38           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EBDate: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - Z-Axis****2440 MHz Fundamental****20 MHz BW – 2.15 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 43.25          | H         | 73.97 | -30.72 | Peak            | 249.50            | 160.15           |                        |
| 4880        | 32.68          | H         | 53.97 | -21.29 | Avg             | 249.50            | 160.15           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 47.39          | H         | 73.97 | -26.58 | Peak            | 183.50            | 125.32           |                        |
| 7320        | 36.83          | H         | 53.97 | -17.14 | Avg             | 183.50            | 125.32           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**2.15 dBi Antennas**

**Non Harmonic Emissions from the Tx and Digital Portion - 9 kHz to 30 MHz**

**Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz to 25 GHz**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments                         |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|----------------------------------|
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | No Emissions Found for the       |
|             |                |           |       |        |                 |                   |                  | Digital Portion                  |
|             |                |           |       |        |                 |                   |                  | from 9 kHz to 30 MHz             |
|             |                |           |       |        |                 |                   |                  | for both Vertical and Horizontal |
|             |                |           |       |        |                 |                   |                  | Polarizations                    |
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | No Non Harmonic Emissions Found  |
|             |                |           |       |        |                 |                   |                  | for the Tx Mode                  |
|             |                |           |       |        |                 |                   |                  | from 9 kHz to 30 MHz             |
|             |                |           |       |        |                 |                   |                  | for both Vertical and Horizontal |
|             |                |           |       |        |                 |                   |                  | Polarizations                    |
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | No Emissions Found for the       |
|             |                |           |       |        |                 |                   |                  | Digital Portion                  |
|             |                |           |       |        |                 |                   |                  | from 1 GHz to 25 GHz             |
|             |                |           |       |        |                 |                   |                  | for both Vertical and Horizontal |
|             |                |           |       |        |                 |                   |                  | Polarizations                    |
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | No Non Harmonic Emissions Found  |
|             |                |           |       |        |                 |                   |                  | for the Tx Mode                  |
|             |                |           |       |        |                 |                   |                  | from 1 GHz to 25 GHz             |
|             |                |           |       |        |                 |                   |                  | for both Vertical and Horizontal |
|             |                |           |       |        |                 |                   |                  | Polarizations                    |
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | Investigated in the X-Axis,      |
|             |                |           |       |        |                 |                   |                  | Y-Axis, and Z-Axis               |
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | Investigated at                  |
|             |                |           |       |        |                 |                   |                  | 2430 MHz & 2440 MHz - 10 MHz BW  |
|             |                |           |       |        |                 |                   |                  | and 2440 MHz - 20 MHz BW         |
|             |                |           |       |        |                 |                   |                  |                                  |



**FCC 15.247 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/25/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - X-Axis**

**2430 MHz Fundamental**

**10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 44.89          | V         | 73.97 | -29.08 | Peak            | 183.25            | 111.26           |                        |
| 4860        | 34.33          | V         | 53.97 | -19.64 | Avg             | 183.25            | 111.26           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 50.51          | V         | 73.97 | -23.46 | Peak            | 65.50             | 127.14           |                        |
| 7290        | 39.64          | V         | 53.97 | -14.33 | Avg             | 65.50             | 127.14           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/25/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Y-Axis**

**2430 MHz Fundamental**

**10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 45.36          | V         | 73.97 | -28.61 | Peak            | 148.50            | 127.38           |                        |
| 4860        | 34.15          | V         | 53.97 | -19.82 | Avg             | 148.50            | 127.38           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 50.35          | V         | 73.97 | -23.62 | Peak            | 67.50             | 111.26           |                        |
| 7290        | 39.84          | V         | 53.97 | -14.13 | Avg             | 67.50             | 111.26           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247 and RSS-247**

Silvus Technologies, Inc.  
 StreamCaster 4200 Tactical MIMO Radio  
 Model: SC4210E-245-EB

Date: 03/25/2019  
 Lab: D  
 Tested By: Kyle Fujimoto

**Harmonics - Z-Axis**

**2430 MHz Fundamental**

**10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 45.62          | V         | 73.97 | -28.35 | Peak            | 124.00            | 159.14           |                        |
| 4860        | 34.65          | V         | 53.97 | -19.32 | Avg             | 124.00            | 159.14           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 45.38          | V         | 73.97 | -28.59 | Peak            | 67.00             | 239.02           |                        |
| 7290        | 34.79          | V         | 53.97 | -19.18 | Avg             | 67.00             | 239.02           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247 and RSS-247**Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EBDate: 03/25/2019  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - X-Axis****2430 MHz Fundamental****10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 41.69          | H         | 73.97 | -32.28 | Peak            | 128.75            | 191.02           |                        |
| 4860        | 30.48          | H         | 53.97 | -23.49 | Avg             | 128.75            | 191.02           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 46.45          | H         | 73.97 | -27.52 | Peak            | 302.75            | 238.91           |                        |
| 7290        | 34.85          | H         | 53.97 | -19.12 | Avg             | 302.75            | 238.91           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247 and RSS-247**Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EBDate: 03/25/2019  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - Y-Axis****2430 MHz Fundamental****10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 42.17          | H         | 73.97 | -31.80 | Peak            | 288.75            | 111.50           |                        |
| 4860        | 31.17          | H         | 53.97 | -22.80 | Avg             | 288.75            | 111.50           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 45.38          | H         | 73.97 | -28.59 | Peak            | 134.25            | 239.08           |                        |
| 7290        | 34.57          | H         | 53.97 | -19.40 | Avg             | 134.25            | 239.08           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247 and RSS-247**Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EBDate: 09/24/2018  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - Z-Axis****2430 MHz Fundamental****10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4860        | 44.69          | H         | 73.97 | -29.28 | Peak            | 302.75            | 125.50           |                        |
| 4860        | 33.58          | H         | 53.97 | -20.39 | Avg             | 302.75            | 125.50           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7290        | 48.02          | H         | 73.97 | -25.95 | Peak            | 144.25            | 245.09           |                        |
| 7290        | 38.21          | H         | 53.97 | -15.76 | Avg             | 144.25            | 245.09           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9720        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9720        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 12150       |                |           |       |        |                 |                   |                  | No Emissions           |
| 12150       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 14580       |                |           |       |        |                 |                   |                  | No Emissions           |
| 14580       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 17010       |                |           |       |        |                 |                   |                  | No Emissions           |
| 17010       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 19440       |                |           |       |        |                 |                   |                  | No Emissions           |
| 19440       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 21870       |                |           |       |        |                 |                   |                  | No Emissions           |
| 21870       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
| 24300       |                |           |       |        |                 |                   |                  | No Emissions           |
| 24300       |                |           |       |        |                 |                   |                  | Detected               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

**FCC 15.247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/25/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - X-Axis**  
**2440 MHz Fundamental**  
**10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 45.02          | V         | 73.97 | -28.95 | Peak            | 180.25            | 102.24           |                        |
| 4880        | 35.21          | V         | 53.97 | -18.76 | Avg             | 180.25            | 102.24           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 51.02          | V         | 73.97 | -22.95 | Peak            | 185.25            | 103.25           |                        |
| 7320        | 40.21          | V         | 53.97 | -13.76 | Avg             | 185.25            | 103.25           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EBDate: 03/25/2019  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - Y-Axis****2440 MHz Fundamental****10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 45.49          | V         | 73.97 | -28.48 | Peak            | 150.25            | 124.25           |                        |
| 4880        | 34.29          | V         | 53.97 | -19.68 | Avg             | 150.25            | 124.25           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 50.46          | V         | 73.97 | -23.51 | Peak            | 65.25             | 112.25           |                        |
| 7320        | 39.97          | V         | 53.97 | -14.00 | Avg             | 65.25             | 112.25           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EBDate: 03/25/2019  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - Z-Axis****2440 MHz Fundamental****10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 45.85          | V         | 73.97 | -28.12 | Peak            | 121.00            | 160.25           |                        |
| 4880        | 34.89          | V         | 53.97 | -19.08 | Avg             | 121.00            | 160.25           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 45.48          | V         | 73.97 | -28.49 | Peak            | 68.50             | 240.01           |                        |
| 7320        | 34.89          | V         | 53.97 | -19.08 | Avg             | 68.50             | 240.01           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/25/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - X-Axis**

**2440 MHz Fundamental**

**10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 42.06          | H         | 73.97 | -32.28 | Peak            | 130.25            | 193.05           |                        |
| 4880        | 34.89          | H         | 53.97 | -23.49 | Avg             | 130.25            | 193.05           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 46.99          | H         | 73.97 | -27.52 | Peak            | 303.25            | 29.95            |                        |
| 7320        | 35.87          | H         | 53.97 | -19.12 | Avg             | 303.25            | 239.95           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/25/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Y-Axis**

**2440 MHz Fundamental**

**10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 43.58          | H         | 73.97 | -31.80 | Peak            | 290.50            | 125.50           |                        |
| 4880        | 33.24          | H         | 53.97 | -22.80 | Avg             | 290.50            | 125.50           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 46.25          | H         | 73.97 | -28.59 | Peak            | 136.00            | 240.25           |                        |
| 7320        | 35.02          | H         | 53.97 | -19.40 | Avg             | 136.00            | 240.25           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/25/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Z-Axis**
**2440 MHz Fundamental**
**10 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 42.69          | H         | 73.97 | -31.28 | Peak            | 303.25            | 111.24           |                        |
| 4880        | 31.29          | H         | 53.97 | -22.68 | Avg             | 303.25            | 111.24           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 45.43          | H         | 73.97 | -28.54 | Peak            | 124.25            | 237.15           |                        |
| 7320        | 34.69          | H         | 53.97 | -19.28 | Avg             | 124.25            | 237.15           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/27/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - X-Axis**

**2440 MHz Fundamental**

**20 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 40.95          | V         | 73.97 | -33.02 | Peak            | 0.00              | 190.97           |                        |
| 4880        | 30.57          | V         | 53.97 | -23.40 | Avg             | 0.00              | 190.97           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 45.37          | V         | 73.97 | -28.60 | Peak            | 10.00             | 175.14           |                        |
| 7320        | 34.66          | V         | 53.97 | -19.31 | Avg             | 10.00             | 175.14           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EBDate: 03/27/2019  
Lab: D  
Tested By: Kyle Fujimoto**Harmonics - Y-Axis****2440 MHz Fundamental****20 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.43          | V         | 73.97 | -32.54 | Peak            | 176.50            | 175.02           |                        |
| 4880        | 30.46          | V         | 53.97 | -23.51 | Avg             | 176.50            | 175.02           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 45.32          | V         | 73.97 | -28.65 | Peak            | 275.75            | 127.26           |                        |
| 7320        | 34.89          | V         | 53.97 | -19.08 | Avg             | 275.75            | 127.26           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/27/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Z-Axis**

**2440 MHz Fundamental**

**20 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 42.59          | V         | 73.97 | -31.38 | Peak            | 178.50            | 178.32           |                        |
| 4880        | 32.59          | V         | 53.97 | -21.38 | Avg             | 178.50            | 178.32           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 46.58          | V         | 73.97 | -27.39 | Peak            | 280.25            | 134.52           |                        |
| 7320        | 36.29          | V         | 53.97 | -17.68 | Avg             | 280.25            | 134.52           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/27/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - X-Axis**

**2440 MHz Fundamental**

**20 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.82          | H         | 73.97 | -32.15 | Peak            | 103.25            | 222.97           |                        |
| 4880        | 30.47          | H         | 53.97 | -23.50 | Avg             | 103.25            | 222.97           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 45.42          | H         | 73.97 | -28.55 | Peak            | 123.75            | 223.08           |                        |
| 7320        | 34.67          | H         | 53.97 | -19.30 | Avg             | 123.75            | 223.08           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/27/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Y-Axis**

**2440 MHz Fundamental**

**20 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.52          | H         | 73.97 | -32.45 | Peak            | 301.75            | 207.02           |                        |
| 4880        | 30.47          | H         | 53.97 | -23.50 | Avg             | 301.75            | 207.02           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 45.13          | H         | 73.97 | -28.84 | Peak            | 200.00            | 175.02           |                        |
| 7320        | 34.67          | H         | 53.97 | -19.30 | Avg             | 200.00            | 175.02           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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               |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |
|             |                |           |       |        |                 |                   |                  |                        |

P

**FCC 15.247 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/27/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Harmonics - Z-Axis**
**2440 MHz Fundamental**
**20 MHz BW - 4 dBi Antennas**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments               |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|------------------------|
| 4880        | 41.11          | H         | 73.97 | -32.86 | Peak            | 0.25              | 143.32           |                        |
| 4880        | 30.39          | H         | 53.97 | -23.58 | Avg             | 0.25              | 143.32           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 7320        | 45.09          | H         | 73.97 | -28.88 | Peak            | 94.00             | 238.97           |                        |
| 7320        | 34.79          | H         | 53.97 | -19.18 | Avg             | 94.00             | 238.97           |                        |
|             |                |           |       |        |                 |                   |                  |                        |
| 9760        |                |           |       |        |                 |                   |                  | Done Via Conducted     |
| 9760        |                |           |       |        |                 |                   |                  | Not in Restricted Band |
|             |                |           |       |        |                 |                   |                  |                        |
| 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 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

Date: 03/28/2019  
Lab: D  
Tested By: Kyle Fujimoto

**4 dBi Antennas**

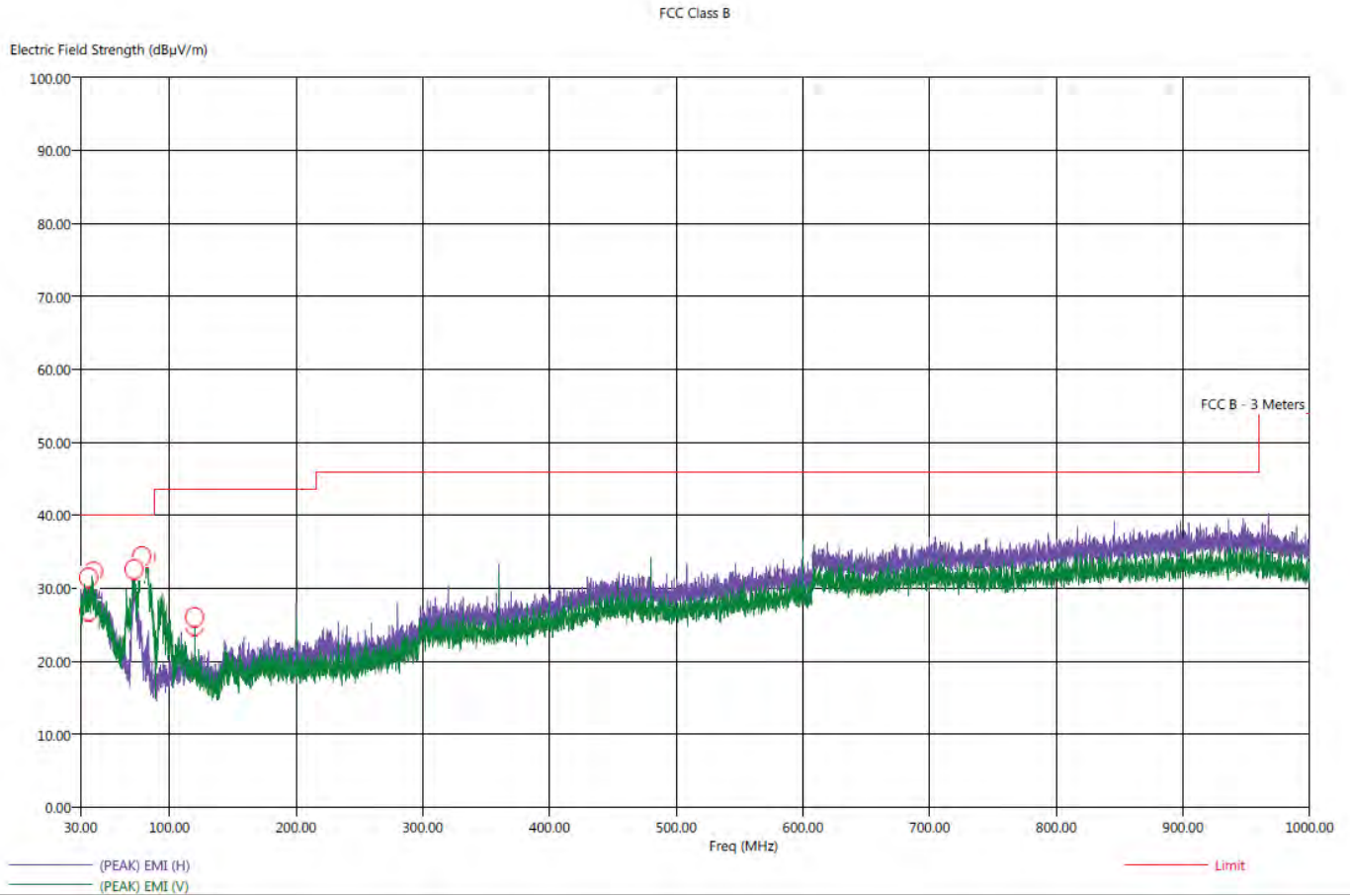
**Non Harmonic Emissions from the Tx and Digital Portion - 9 kHz to 30 MHz**

**Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz to 25 GHz**

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments                         |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|----------------------------------|
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | No Emissions Found for the       |
|             |                |           |       |        |                 |                   |                  | Digital Portion                  |
|             |                |           |       |        |                 |                   |                  | from 9 kHz to 30 MHz             |
|             |                |           |       |        |                 |                   |                  | for both Vertical and Horizontal |
|             |                |           |       |        |                 |                   |                  | Polarizations                    |
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | No Non Harmonic Emissions Found  |
|             |                |           |       |        |                 |                   |                  | for the Tx Mode                  |
|             |                |           |       |        |                 |                   |                  | from 9 kHz to 30 MHz             |
|             |                |           |       |        |                 |                   |                  | for both Vertical and Horizontal |
|             |                |           |       |        |                 |                   |                  | Polarizations                    |
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | No Emissions Found for the       |
|             |                |           |       |        |                 |                   |                  | Digital Portion                  |
|             |                |           |       |        |                 |                   |                  | from 1 GHz to 25 GHz             |
|             |                |           |       |        |                 |                   |                  | for both Vertical and Horizontal |
|             |                |           |       |        |                 |                   |                  | Polarizations                    |
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | No Non Harmonic Emissions Found  |
|             |                |           |       |        |                 |                   |                  | for the Tx Mode                  |
|             |                |           |       |        |                 |                   |                  | from 1 GHz to 25 GHz             |
|             |                |           |       |        |                 |                   |                  | for both Vertical and Horizontal |
|             |                |           |       |        |                 |                   |                  | Polarizations                    |
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | Investigated in the X-Axis,      |
|             |                |           |       |        |                 |                   |                  | Y-Axis, and Z-Axis               |
|             |                |           |       |        |                 |                   |                  |                                  |
|             |                |           |       |        |                 |                   |                  | Investigated at                  |
|             |                |           |       |        |                 |                   |                  | 2430 MHz & 2440 MHz - 10 MHz BW  |
|             |                |           |       |        |                 |                   |                  | and 2440 MHz - 20 MHz BW         |

Title: Radiated Emissions - FCC Class B  
File: 4 - Pre-Scan - 2.15 dBi Antennas.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2430 MHz at 10 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
2.15 dBi Antennas

3/25/2019 4:16:48 PM  
Sequence: Preliminary Scan



Title: Radiated Emissions - FCC Class B  
File: 4 - Final Scan - 2.15 dBi Antennas.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2430 MHz at 10 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
2.15 dBi Antennas

3/25/2019 4:25:21 PM  
Sequence: Final Measurements

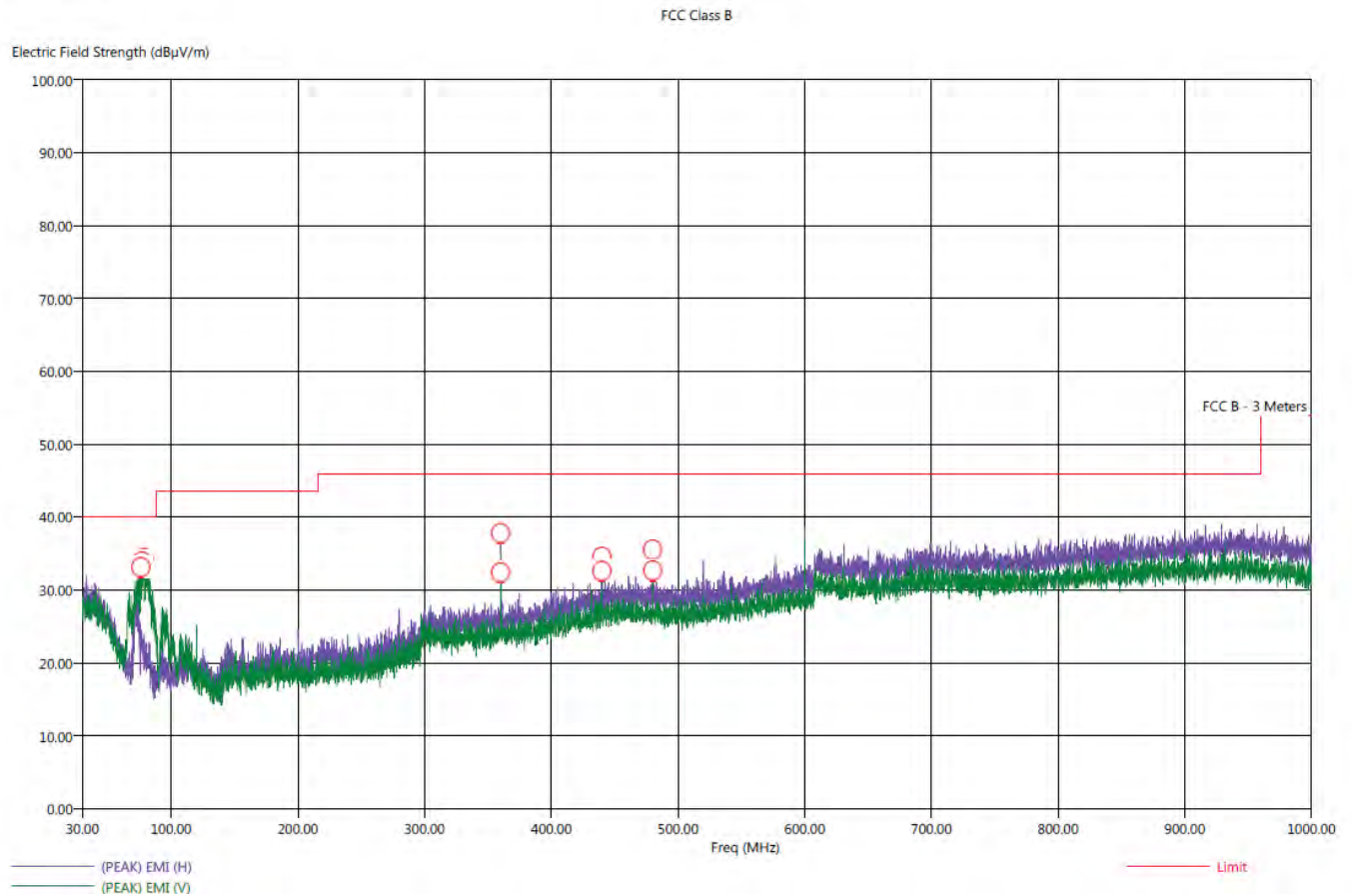
## FCC Class B

| 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>(deg) | Twr Ht<br>(cm) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|--------------------|---------------|-------------------|----------------|
| 36.30         | H   | 32.49                  | 26.89                | -7.51                 | -13.11              | 40.00             | 24.16              | 0.86          | 194.50            | 318.31         |
| 36.40         | H   | 31.87                  | 26.88                | -8.13                 | -13.12              | 40.00             | 24.18              | 0.87          | 138.50            | 206.91         |
| 40.10         | H   | 32.45                  | 27.25                | -7.55                 | -12.75              | 40.00             | 24.58              | 0.90          | 116.25            | 366.25         |
| 72.20         | V   | 33.48                  | 29.95                | -6.52                 | -10.05              | 40.00             | 12.33              | 1.02          | 7.50              | 175.08         |
| 72.30         | H   | 34.20                  | 30.04                | -5.80                 | -9.96               | 40.00             | 12.37              | 1.02          | 342.50            | 399.92         |
| 78.30         | V   | 37.43                  | 34.09                | -2.57                 | -5.91               | 40.00             | 11.41              | 1.09          | 355.75            | 111.44         |
| 81.30         | V   | 37.36                  | 33.98                | -2.64                 | -6.02               | 40.00             | 11.44              | 1.10          | 28.00             | 143.14         |
| 120.00        | H   | 27.93                  | 24.26                | -15.57                | -19.24              | 43.50             | 15.30              | 1.18          | 186.25            | 270.49         |
| 120.00        | V   | 29.67                  | 24.66                | -13.83                | -18.84              | 43.50             | 15.30              | 1.18          | 247.25            | 111.26         |



Title: Radiated Emissions - FCC Class B  
File: 5 - Pre-Scan - 2.15 dB Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2440 MHz at 10 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
2.15 dBi Antennas

3/26/2019 8:11:47 AM  
Sequence: Preliminary Scan





Title: Radiated Emissions - FCC Class B  
File: 5 - Final Scan - 2.15 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2440 MHz at 10 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
2.15 dBi Antennas

3/26/2019 8:20:56 AM  
Sequence: Final Measurements

FCC Class B

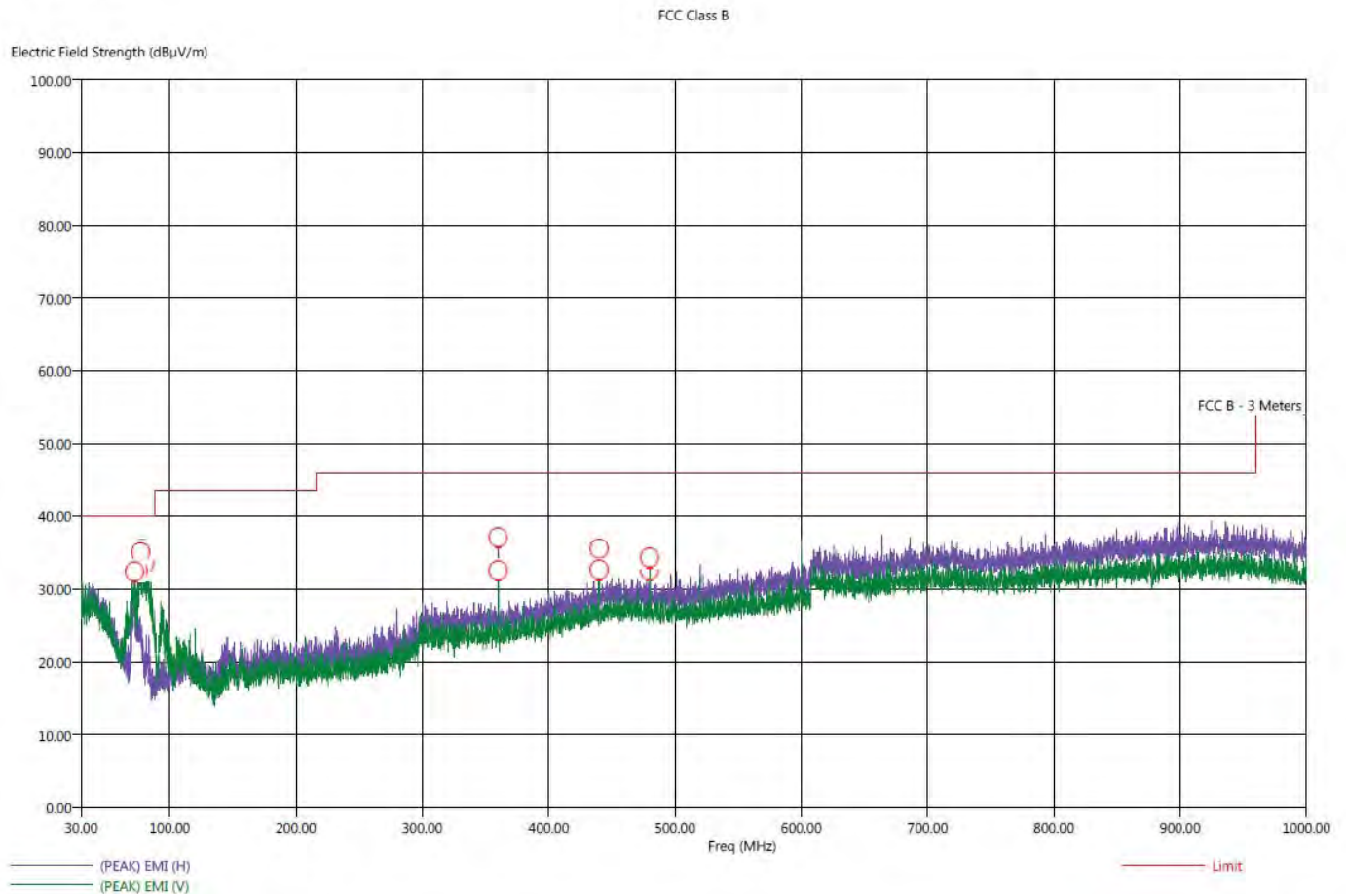
| Freq<br>(MHz) | Pol | (PEAK) EMI<br>(dBμV/m) | (QP) EMI<br>(dBμV/m) | (PEAK) Margin<br>(dB) | (QP) Margin<br>(dB) | Limit<br>(dBμV/m) | Transducer<br>(dB) | Cable<br>(dB) | Ttbl Aql<br>(deg) | Twr Ht<br>(cm) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|--------------------|---------------|-------------------|----------------|
| 76.10         | V   | 35.84                  | 31.67                | -4.16                 | -8.33               | 40.00             | 11.76              | 1.06          | 328.50            | 127.14         |
| 77.10         | V   | 35.47                  | 31.92                | -4.53                 | -8.08               | 40.00             | 11.59              | 1.07          | 0.50              | 206.85         |
| 78.60         | V   | 37.11                  | 33.40                | -2.89                 | -6.60               | 40.00             | 11.43              | 1.08          | 320.25            | 143.32         |
| 79.30         | V   | 37.34                  | 32.98                | -2.66                 | -7.02               | 40.00             | 11.29              | 1.09          | 310.50            | 190.97         |
| 80.70         | V   | 36.91                  | 32.58                | -3.09                 | -7.42               | 40.00             | 11.37              | 1.10          | 310.25            | 127.14         |
| 360.00        | H   | 38.43                  | 36.69                | -7.57                 | -9.31               | 46.00             | 17.97              | 1.94          | 283.25            | 110.49         |
| 360.00        | V   | 36.82                  | 31.38                | -9.18                 | -14.62              | 46.00             | 17.98              | 1.94          | 70.00             | 127.26         |
| 440.00        | H   | 37.45                  | 34.95                | -8.55                 | -11.05              | 46.00             | 20.86              | 2.18          | 194.50            | 127.08         |
| 440.00        | V   | 38.80                  | 36.60                | -7.20                 | -9.40               | 46.00             | 20.86              | 2.18          | 64.25             | 111.38         |
| 479.90        | H   | 38.02                  | 32.42                | -7.98                 | -13.58              | 46.00             | 21.12              | 2.20          | 1.75              | 127.20         |
| 480.10        | V   | 38.28                  | 34.59                | -7.72                 | -11.41              | 46.00             | 21.12              | 2.20          | 360.00            | 111.44         |





Title: Radiated Emissions - FCC Class B  
File: 6 - Pre-Scan - 2.15 dBi Antenna .set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2440 MHz at 20 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
2.15 dBi Antennas

3/26/2019 8:48:26 AM  
Sequence: Preliminary Scan



Title: Radiated Emissions - FCC Class B  
File: 6 - Final Scan - 2.15 dBi Antenna  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2440 MHz at 20 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
2.15 dBi Antennas

3/26/2019 8:57:37 AM  
Sequence: Final Measurements

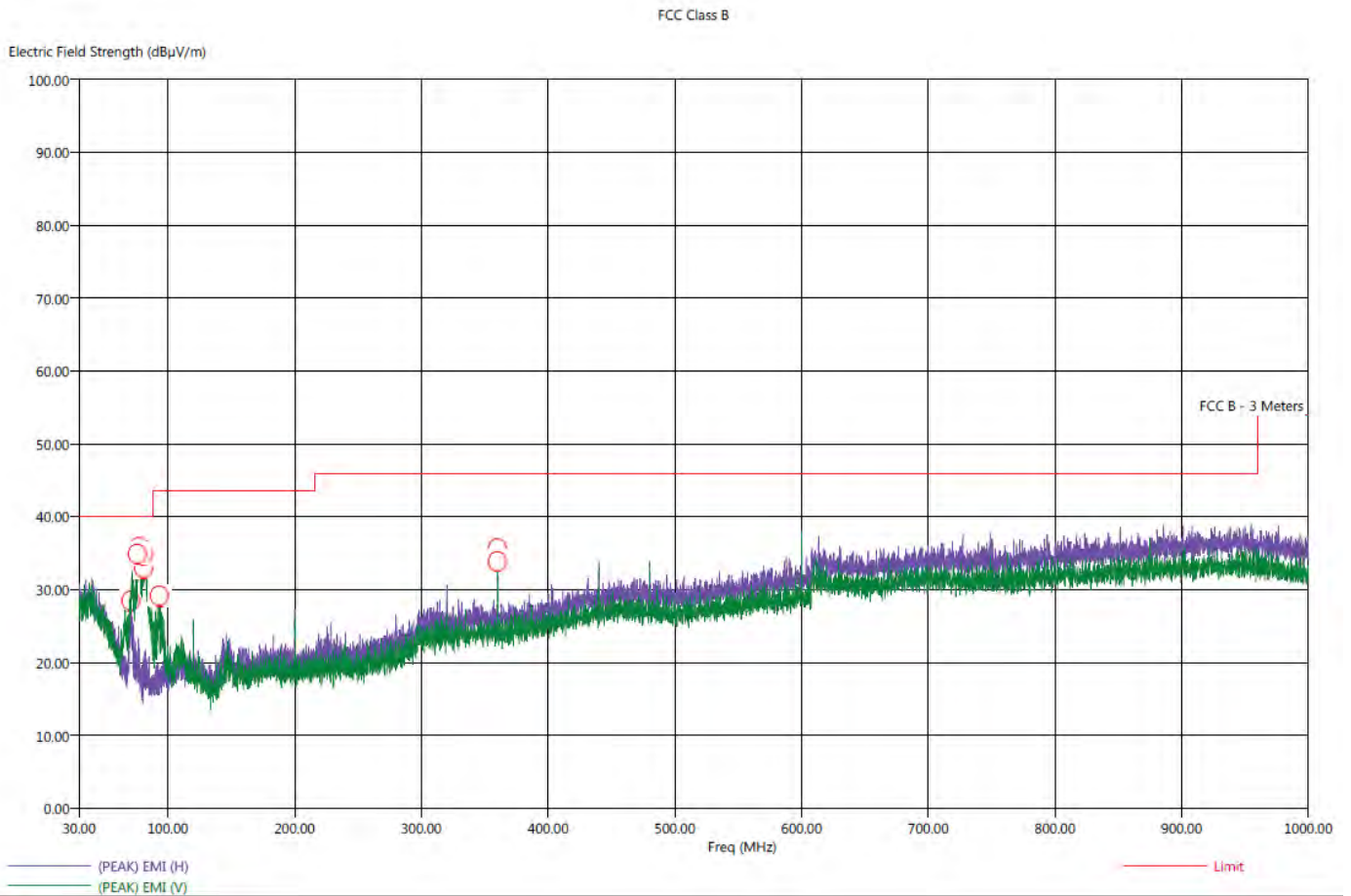
FCC Class B

| Freq<br>(MHz) | Pol | (PEAK) EMI<br>(dBμV/m) | (QP) 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>(deg) | Twr Ht<br>(cm) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|--------------------|---------------|-------------------|----------------|
| 72.20         | V   | 34.07                  | 30.33                | -5.93                 | -9.67               | 40.00             | 12.32              | 1.03          | 14.00             | 127.02         |
| 75.00         | V   | 34.36                  | 30.77                | -5.64                 | -9.23               | 40.00             | 11.90              | 1.05          | 354.25            | 159.14         |
| 77.10         | V   | 37.04                  | 33.55                | -2.96                 | -6.45               | 40.00             | 11.59              | 1.07          | 14.75             | 111.38         |
| 78.00         | V   | 37.02                  | 33.61                | -2.98                 | -6.39               | 40.00             | 11.51              | 1.08          | 325.00            | 175.14         |
| 80.50         | V   | 34.82                  | 31.03                | -5.18                 | -8.97               | 40.00             | 11.32              | 1.10          | 0.25              | 206.91         |
| 360.00        | H   | 36.60                  | 29.48                | -9.40                 | -16.52              | 46.00             | 17.97              | 1.94          | 306.25            | 270.49         |
| 360.00        | V   | 37.08                  | 34.55                | -8.92                 | -11.45              | 46.00             | 17.97              | 1.94          | 67.25             | 127.14         |
| 440.00        | H   | 38.30                  | 36.26                | -7.70                 | -9.74               | 46.00             | 20.86              | 2.18          | 198.00            | 111.44         |
| 440.00        | V   | 38.08                  | 35.35                | -7.92                 | -10.65              | 46.00             | 20.86              | 2.18          | 58.00             | 111.44         |
| 480.00        | H   | 37.00                  | 32.99                | -9.00                 | -13.01              | 46.00             | 21.12              | 2.20          | 208.50            | 111.32         |
| 480.00        | V   | 38.84                  | 35.50                | -7.16                 | -10.50              | 46.00             | 21.12              | 2.20          | 359.75            | 111.26         |



Title: Radiated Emissions - FCC Class B  
File: 1 - Pre-Scan - 4 dBi Antenna .set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2440 MHz at 20 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
4 dBi Antennas

3/25/2019 2:34:03 PM  
Sequence: Preliminary Scan



Title: Radiated Emissions - FCC Class B  
File: 1 - Final Scan - 4 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2440 MHz at 20 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
4 dBi Antennas

3/25/2019 2:45:21 PM  
Sequence: Final Measurements

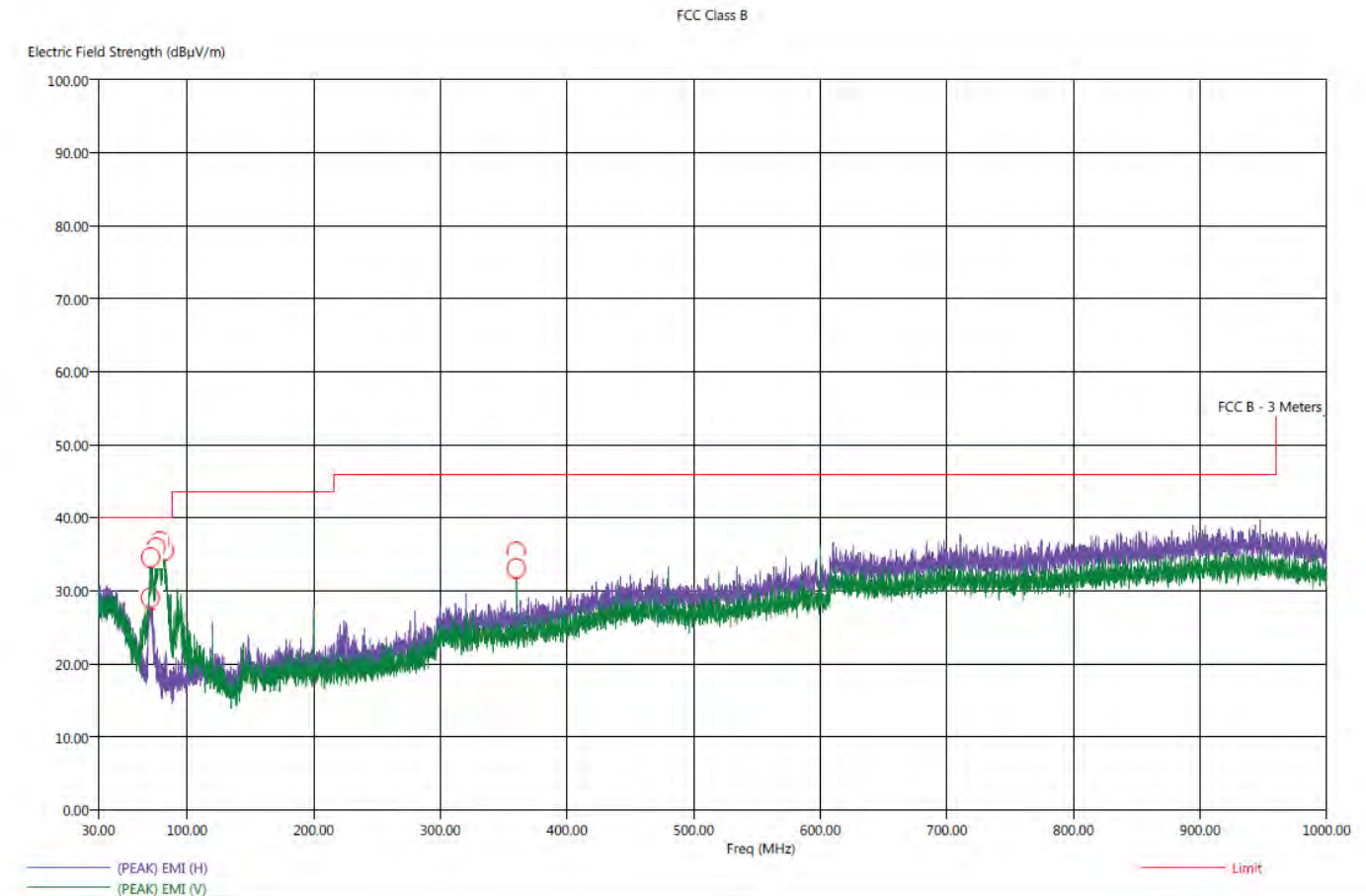
## FCC Class B

| Freq<br>(MHz) | Pol | (PEAK) EMI<br>(dBµV/m) | (QP) 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>(deg) | Twr Ht<br>(cm) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|--------------------|---------------|-------------------|----------------|
| 70.80         | H   | 30.48                  | 26.25                | -9.52                 | -13.75              | 40.00             | 12.55              | 1.01          | 359.00            | 254.85         |
| 75.90         | V   | 38.35                  | 34.55                | -1.65                 | -5.45               | 40.00             | 11.76              | 1.06          | 17.00             | 111.44         |
| 77.20         | V   | 38.47                  | 34.90                | -1.53                 | -5.10               | 40.00             | 11.59              | 1.07          | 344.25            | 111.44         |
| 80.70         | V   | 36.76                  | 32.99                | -3.24                 | -7.01               | 40.00             | 11.33              | 1.10          | 18.25             | 191.14         |
| 80.90         | V   | 37.37                  | 33.49                | -2.63                 | -6.51               | 40.00             | 11.36              | 1.10          | 360.00            | 111.32         |
| 82.10         | V   | 37.49                  | 34.06                | -2.51                 | -5.94               | 40.00             | 11.65              | 1.10          | 19.75             | 127.20         |
| 93.20         | V   | 32.50                  | 27.71                | -11.00                | -15.79              | 43.50             | 13.54              | 1.10          | 62.75             | 110.49         |
| 94.10         | V   | 31.39                  | 27.12                | -12.11                | -16.38              | 43.50             | 13.64              | 1.10          | 84.75             | 127.14         |
| 360.00        | H   | 35.98                  | 33.59                | -10.02                | -12.41              | 46.00             | 17.97              | 1.94          | 307.50            | 271.08         |
| 360.00        | V   | 38.69                  | 36.89                | -7.31                 | -9.11               | 46.00             | 17.97              | 1.94          | 360.00            | 111.38         |



Title: Radiated Emissions - FCC Class B  
File: 2 - Pre-Scan - 4 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2440 MHz at 10 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
4 dBi Antennas

3/25/2019 3:11:40 PM  
Sequence: Preliminary Scan



Title: Radiated Emissions - FCC Class B  
File: 2 - Final Scan - 4 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2440 MHz at 10 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
4 dBi Antennas

3/25/2019 3:20:25 PM  
Sequence: Final Measurements

## FCC Class B

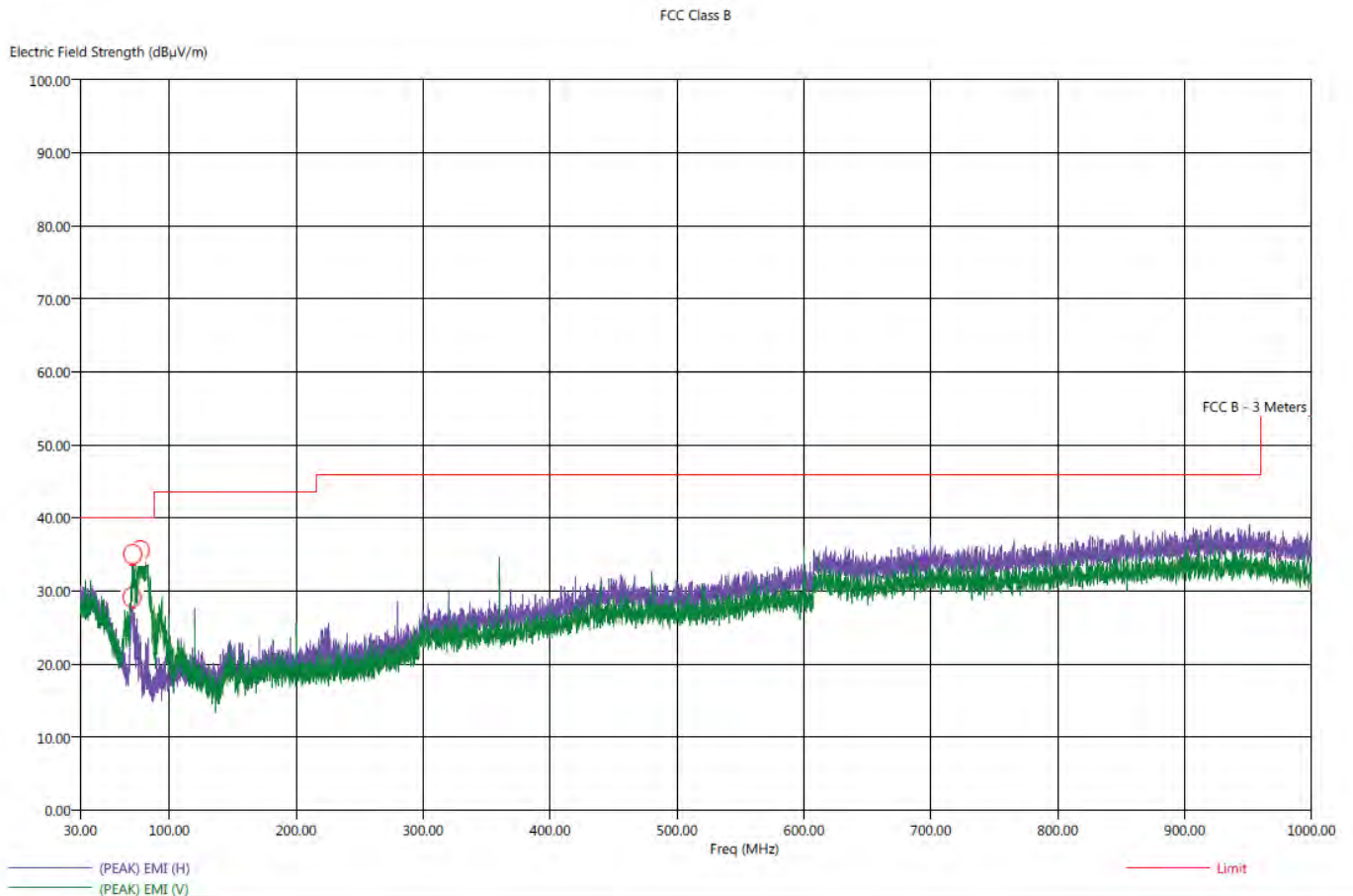
| Freq<br>(MHz) | Pol | (PEAK) EMI<br>(dBμV/m) | (QP) EMI<br>(dBμV/m) | (PEAK) Margin<br>(dB) | (QP) Margin<br>(dB) | Limit<br>(dBμV/m) | Transducer<br>(dB) | Cable<br>(dB) | Ttbl Aql<br>(deg) | Twr Ht<br>(cm) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|--------------------|---------------|-------------------|----------------|
| 71.00         | H   | 30.98                  | 25.69                | -9.02                 | -14.31              | 40.00             | 12.50              | 1.01          | 2.00              | 366.19         |
| 71.40         | V   | 36.68                  | 32.62                | -3.32                 | -7.38               | 40.00             | 12.41              | 1.02          | 0.00              | 143.26         |
| 72.00         | H   | 29.50                  | 25.36                | -10.50                | -14.64              | 40.00             | 12.41              | 1.02          | 342.00            | 286.67         |
| 75.50         | V   | 38.03                  | 34.54                | -1.97                 | -5.46               | 40.00             | 11.80              | 1.06          | 355.25            | 111.38         |
| 78.40         | V   | 38.40                  | 35.23                | -1.60                 | -4.77               | 40.00             | 11.45              | 1.08          | 20.50             | 111.32         |
| 82.20         | V   | 37.84                  | 34.65                | -2.16                 | -5.35               | 40.00             | 11.60              | 1.10          | 357.00            | 159.08         |
| 360.00        | H   | 34.54                  | 32.12                | -11.46                | -13.88              | 46.00             | 17.97              | 1.94          | 304.75            | 207.32         |
| 360.00        | V   | 38.68                  | 37.60                | -7.32                 | -8.40               | 46.00             | 17.97              | 1.94          | 18.75             | 111.26         |





Title: Radiated Emissions - FCC Class B  
File: 3 - Pre-Scan - 4 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2430 MHz at 10 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
4 dBi Antennas

3/25/2019 3:46:50 PM  
Sequence: Preliminary Scan



Title: Radiated Emissions - FCC Class B  
File: 3 - Final Scan - 4 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is transmitting at 2430 MHz at 10 MHz Bandwidth  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A  
Y-Axis - Worst Case  
4 dBi Antennas

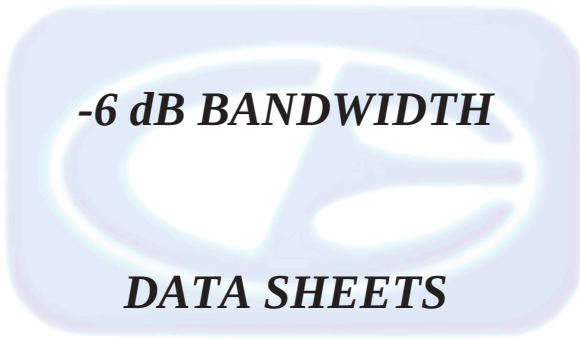
3/25/2019 3:55:22 PM  
Sequence: Final Measurements

## 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>(deg) | Twr Ht<br>(cm) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|--------------------|---------------|-------------------|----------------|
| 70.80         | H   | 32.40                  | 27.63                | -7.60                 | -12.37              | 40.00             | 12.57              | 1.01          | 338.50            | 270.91         |
| 71.20         | H   | 30.61                  | 26.08                | -9.39                 | -13.92              | 40.00             | 12.50              | 1.01          | 1.25              | 334.61         |
| 71.30         | V   | 36.59                  | 33.06                | -3.41                 | -6.94               | 40.00             | 12.46              | 1.02          | 360.00            | 111.38         |
| 77.30         | V   | 38.48                  | 35.03                | -1.52                 | -4.97               | 40.00             | 11.58              | 1.07          | 15.00             | 159.26         |
| 78.80         | V   | 38.67                  | 35.30                | -1.33                 | -4.70               | 40.00             | 11.40              | 1.09          | 350.50            | 111.26         |
| 79.20         | V   | 38.06                  | 34.75                | -1.94                 | -5.25               | 40.00             | 11.34              | 1.09          | 12.00             | 190.19         |
| 81.10         | V   | 38.02                  | 34.68                | -1.98                 | -5.32               | 40.00             | 11.45              | 1.10          | 355.25            | 174.97         |
| 81.70         | V   | 38.39                  | 34.90                | -1.61                 | -5.10               | 40.00             | 11.57              | 1.10          | 1.00              | 127.02         |

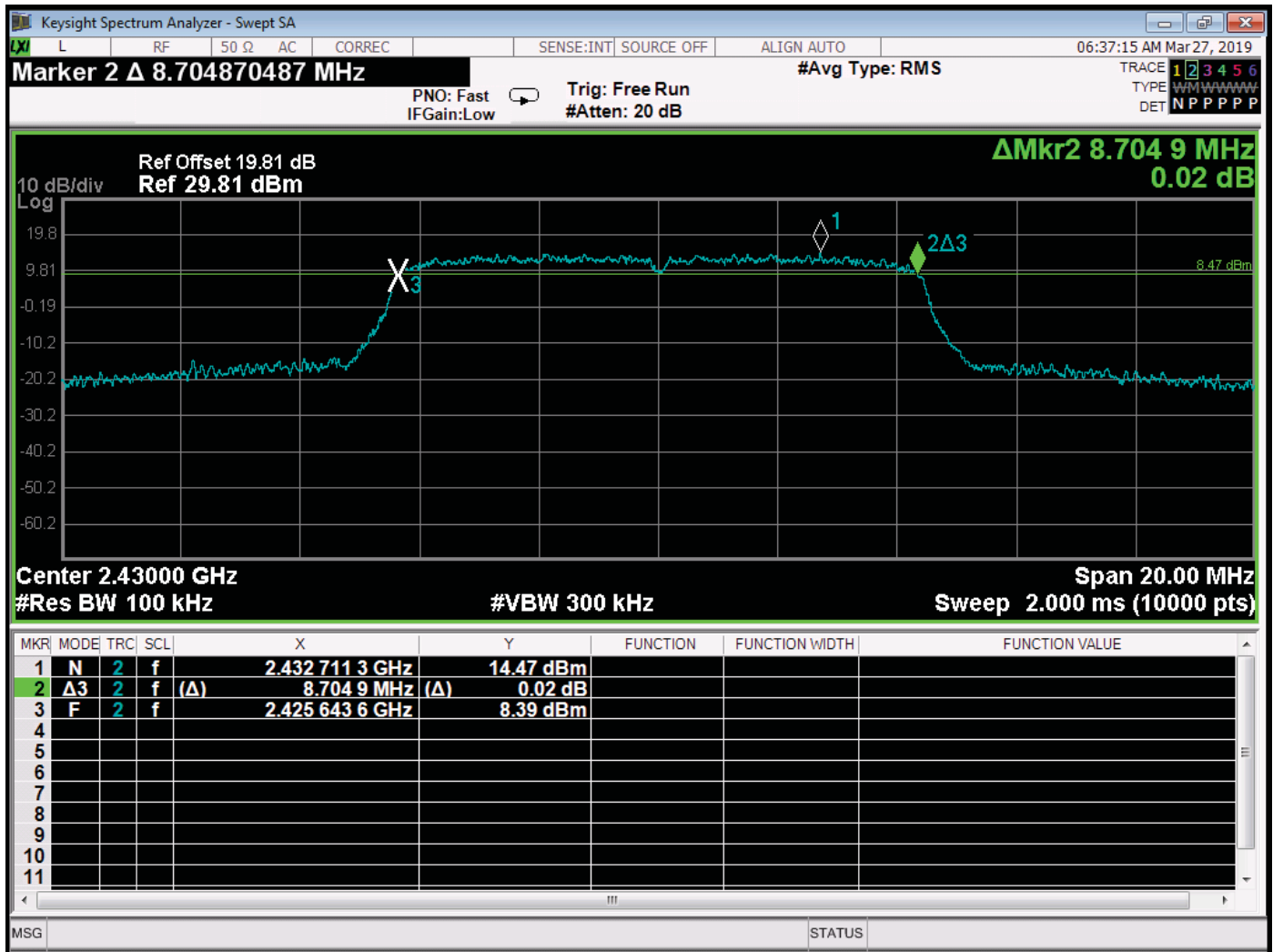




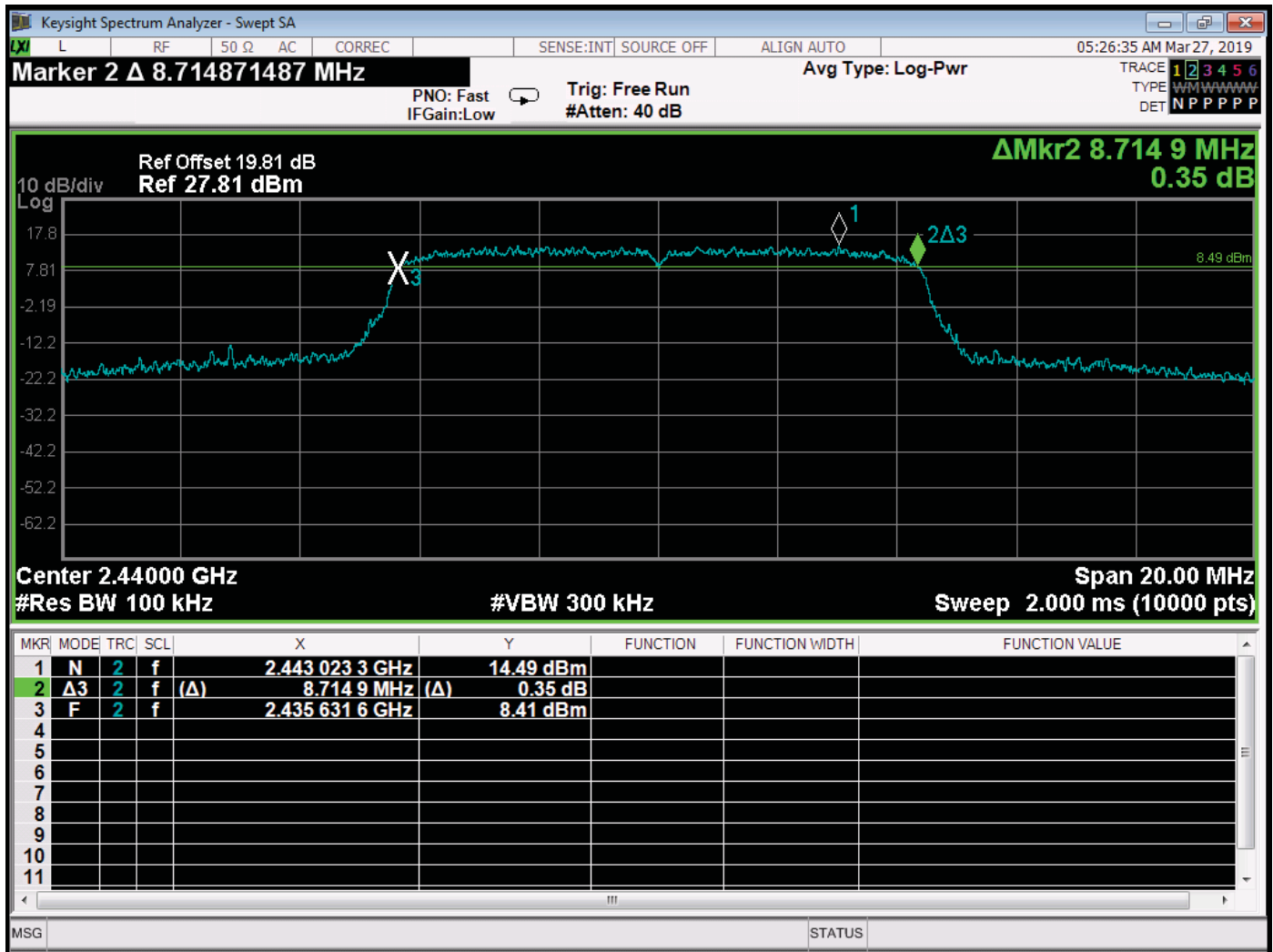


***-6 dB BANDWIDTH***

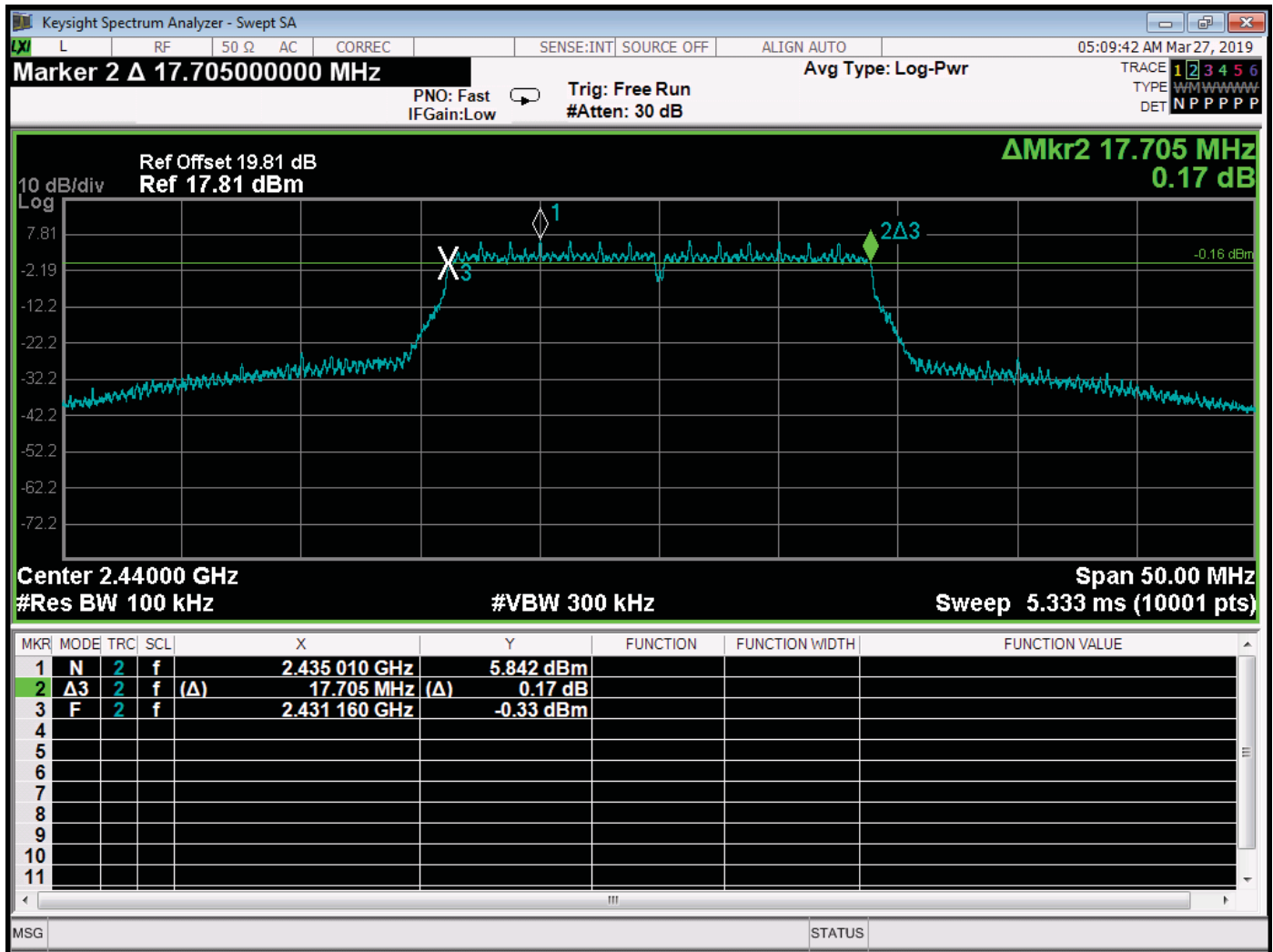
***DATA SHEETS***



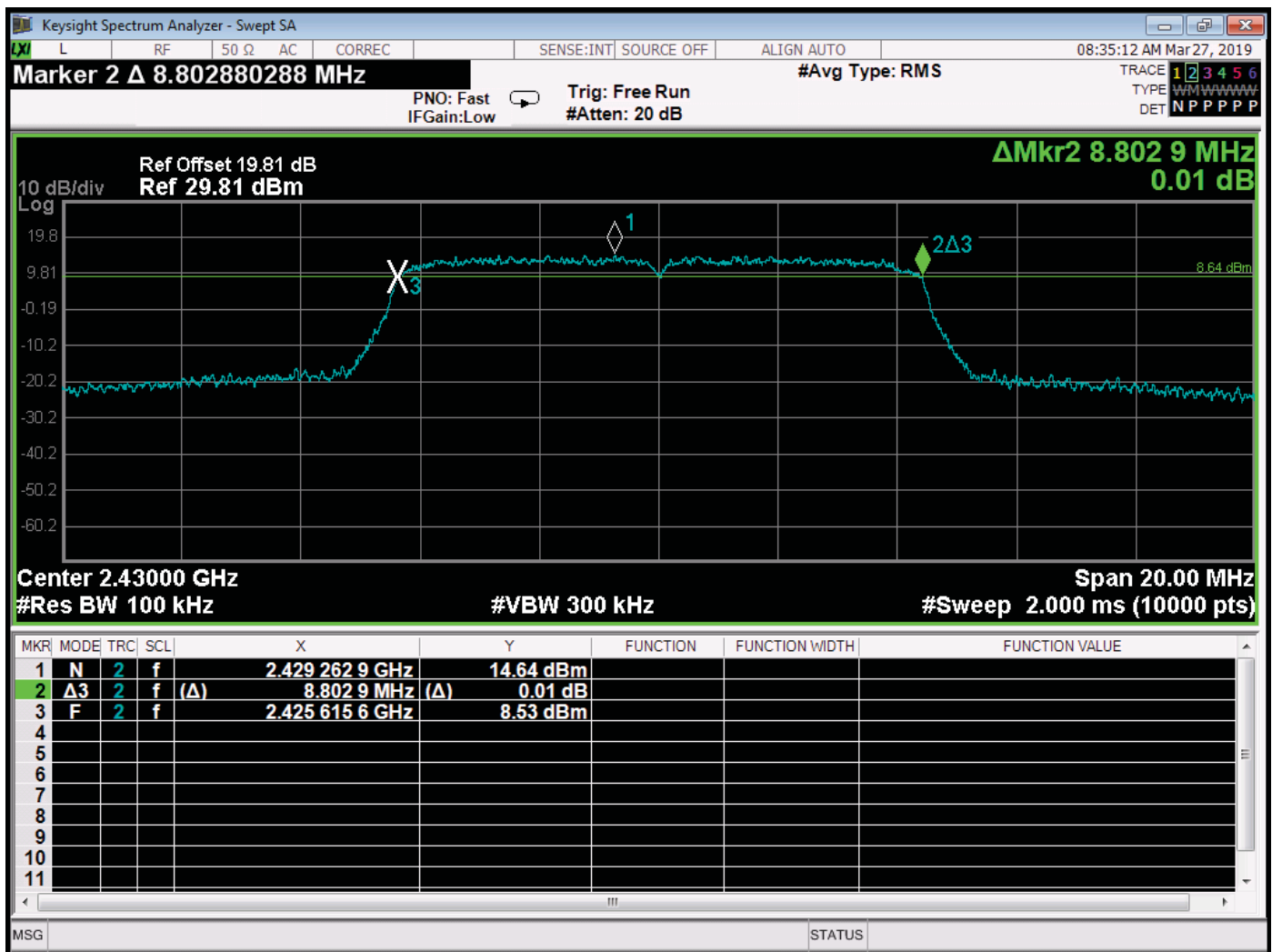
-6 dB Bandwidth – 2430 MHz – 10 MHz BW – Port #1



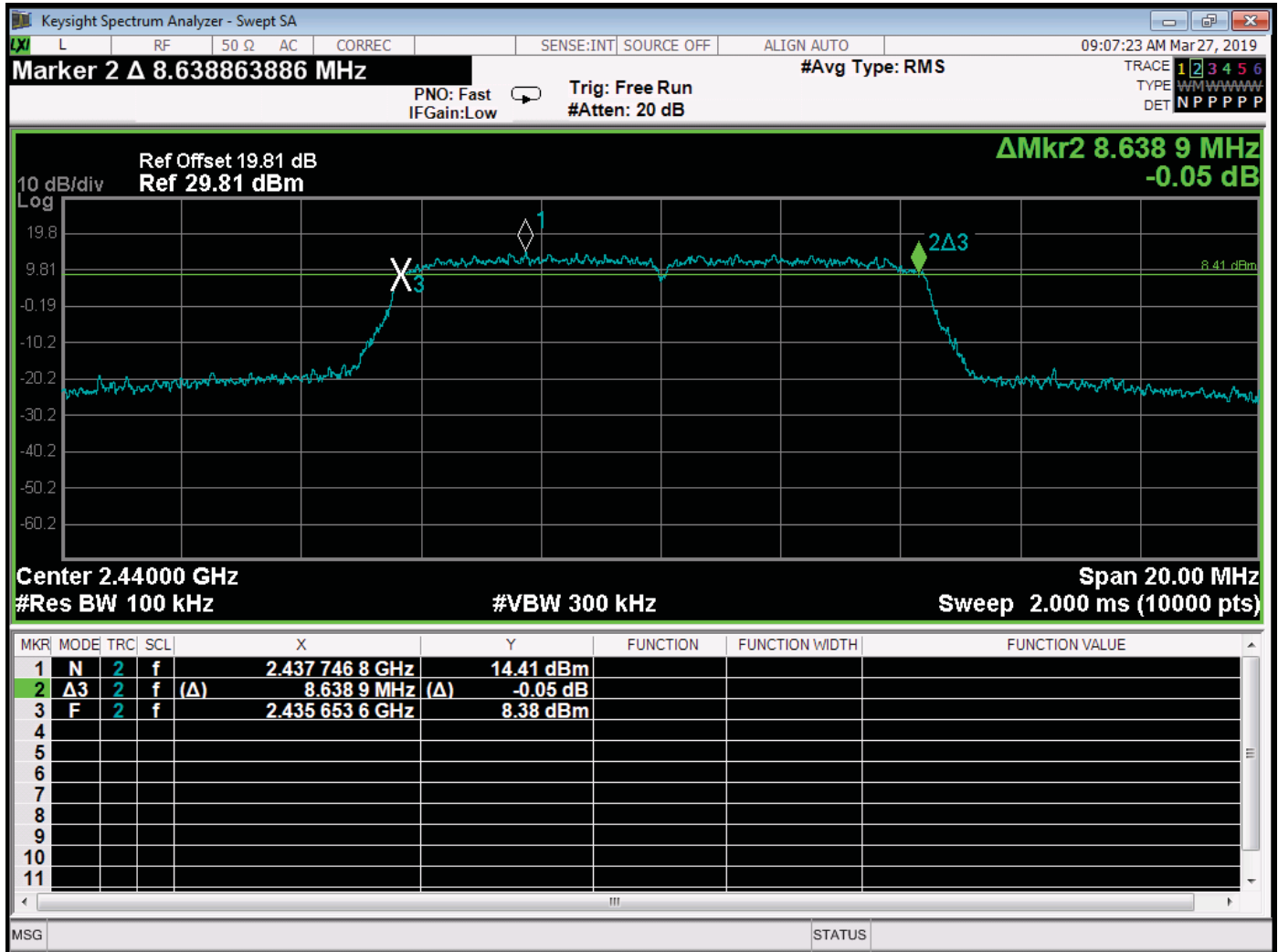
-6 dB Bandwidth – 2440 MHz – 10 MHz BW – Port #1



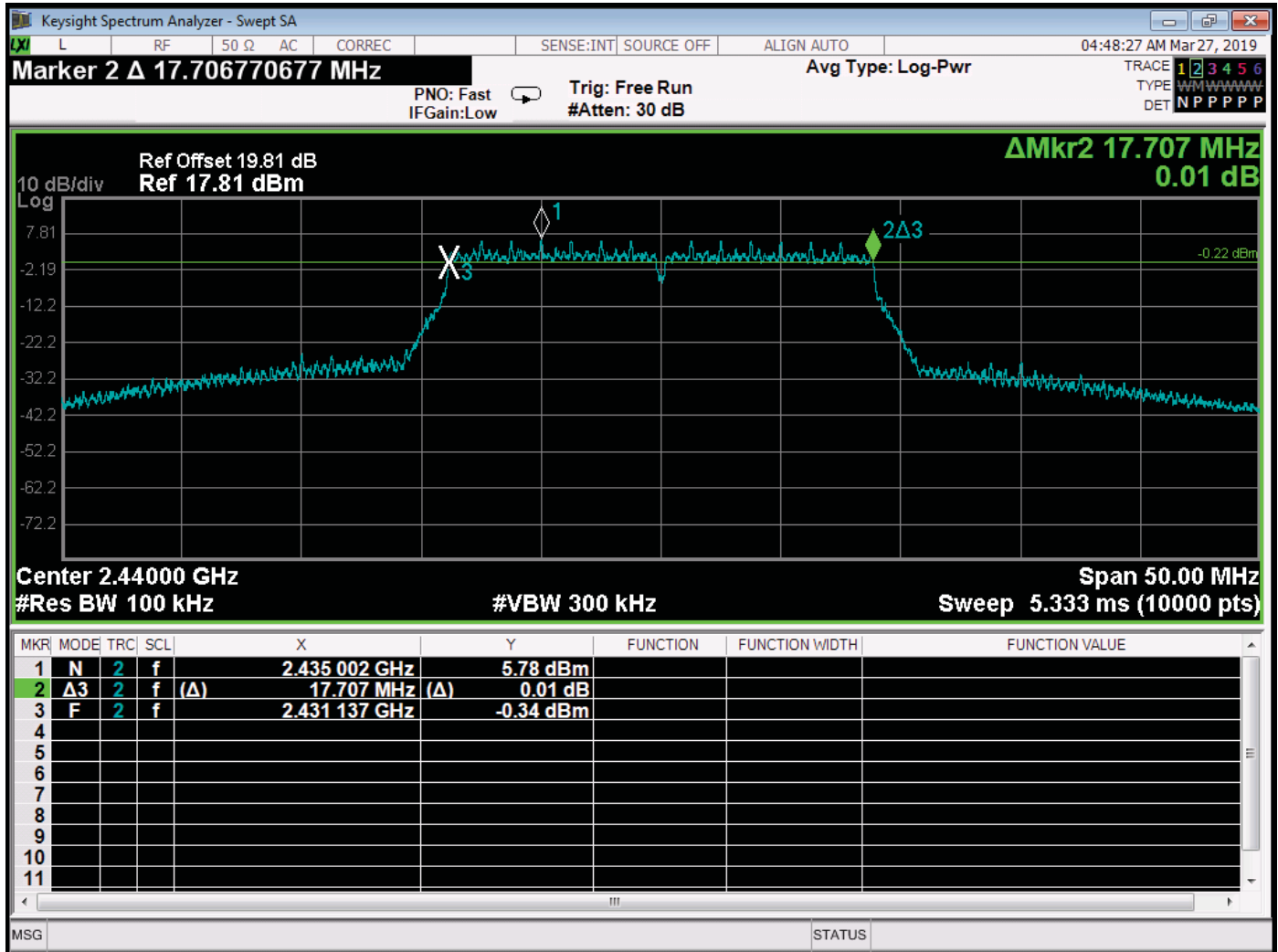
-6 dB Bandwidth – 2440 MHz – 20 MHz BW – Port #1



-6 dB Bandwidth – 2430 MHz – 10 MHz BW – Port #2



-6 dB Bandwidth – 2440 MHz – 10 MHz BW – Port #2



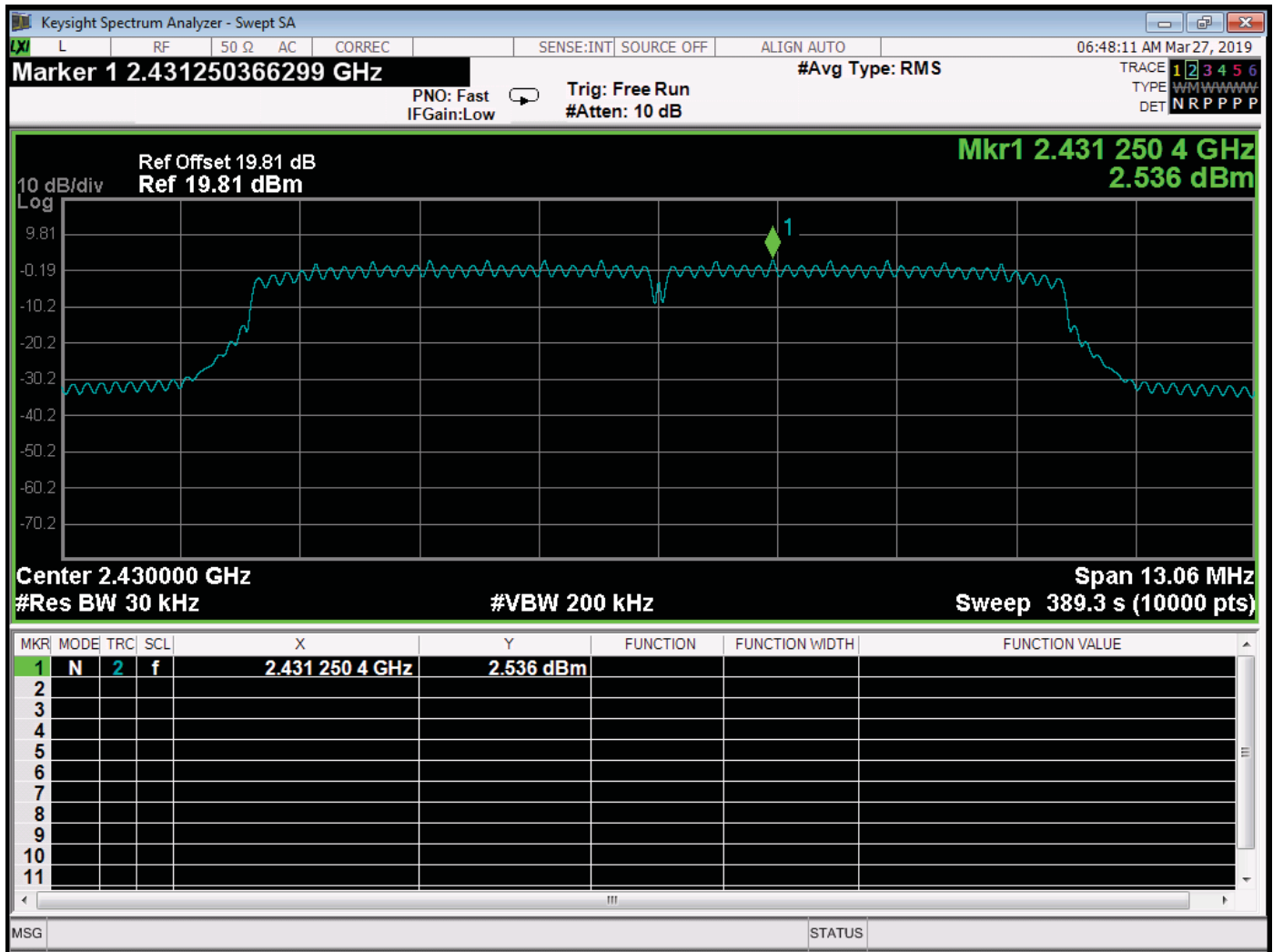
-6 dB Bandwidth – 2440 MHz – 20 MHz BW – Port #2



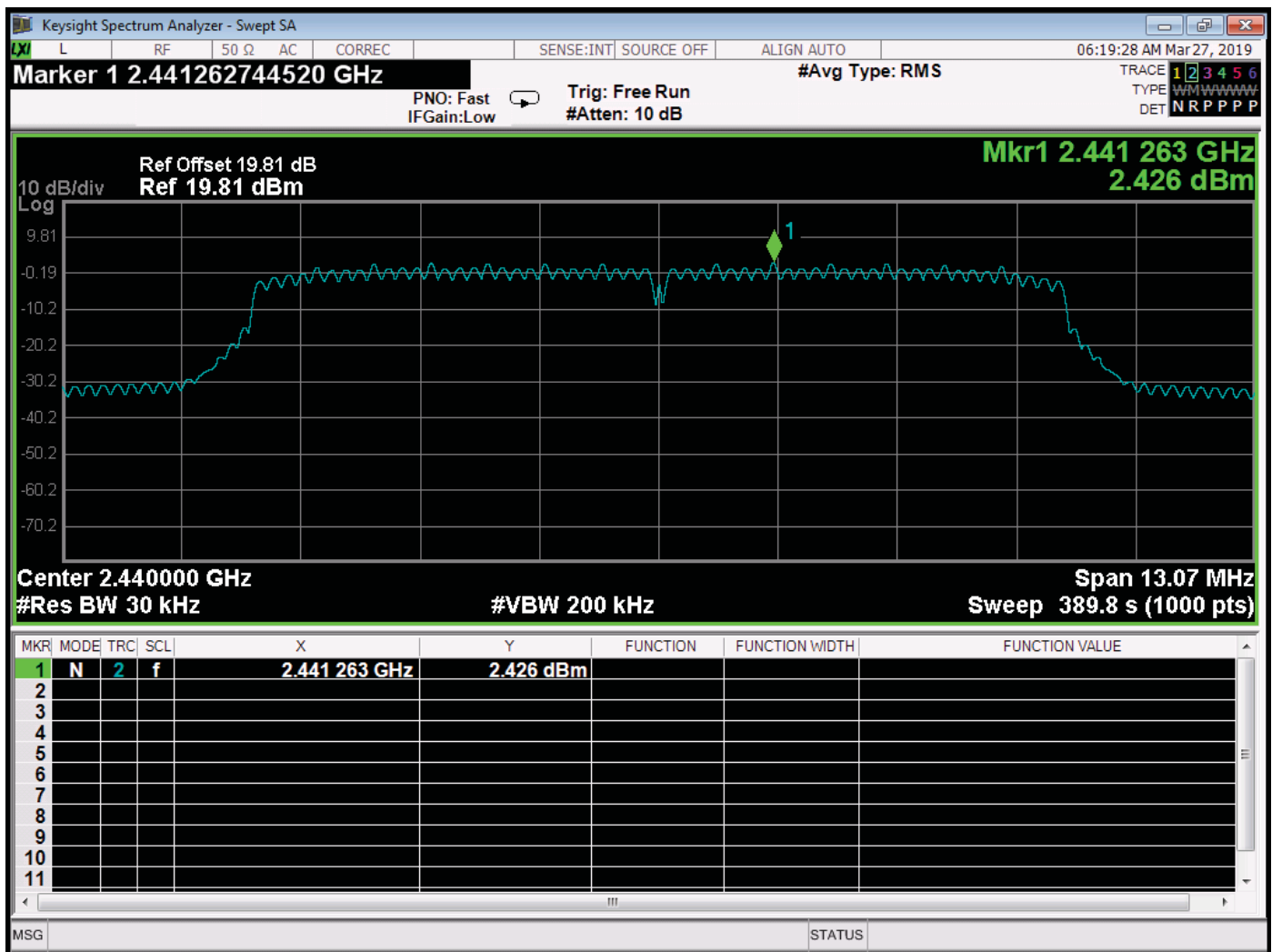


***SPECTRAL DENSITY OUTPUT***

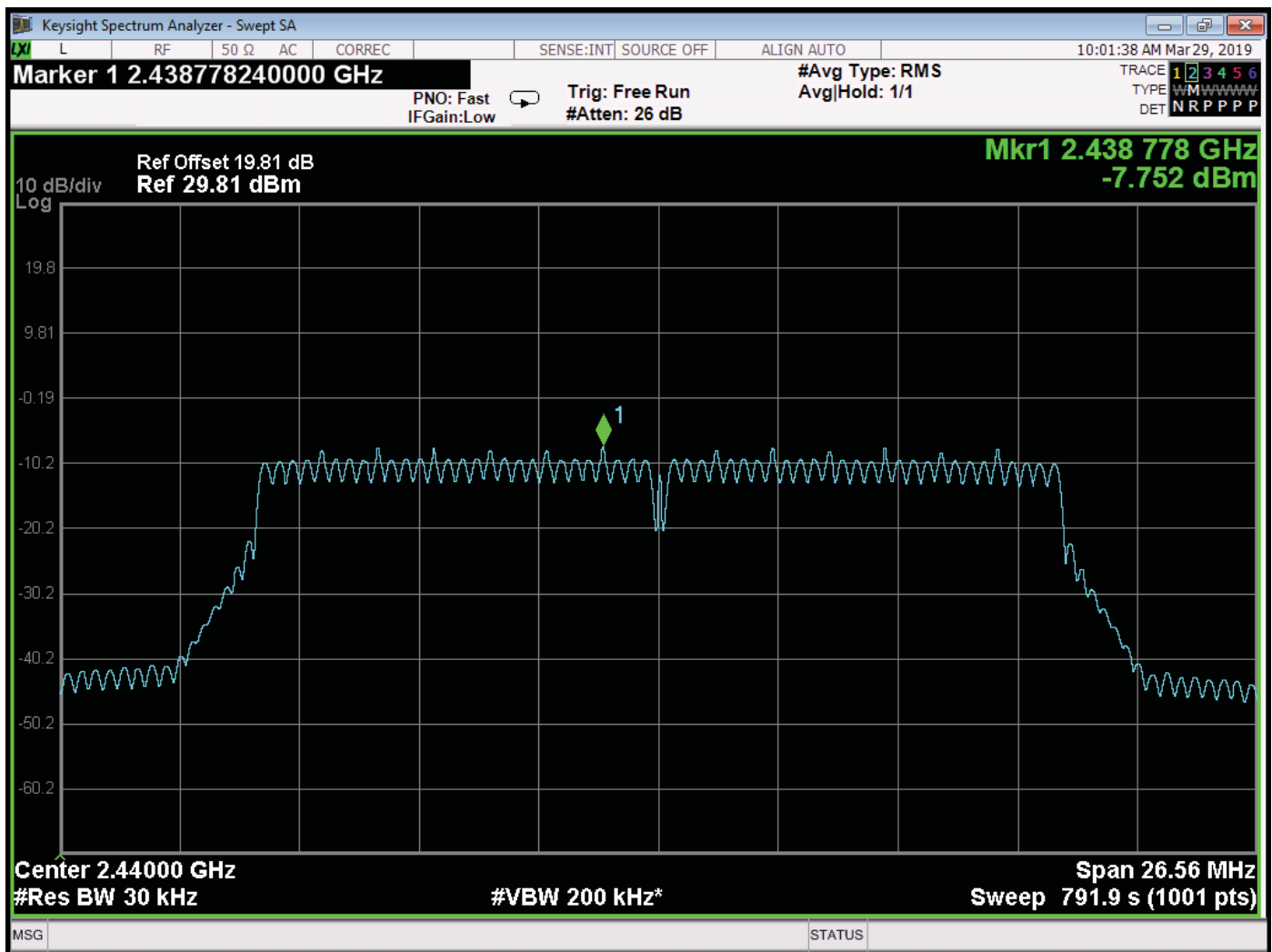
***DATA SHEETS***



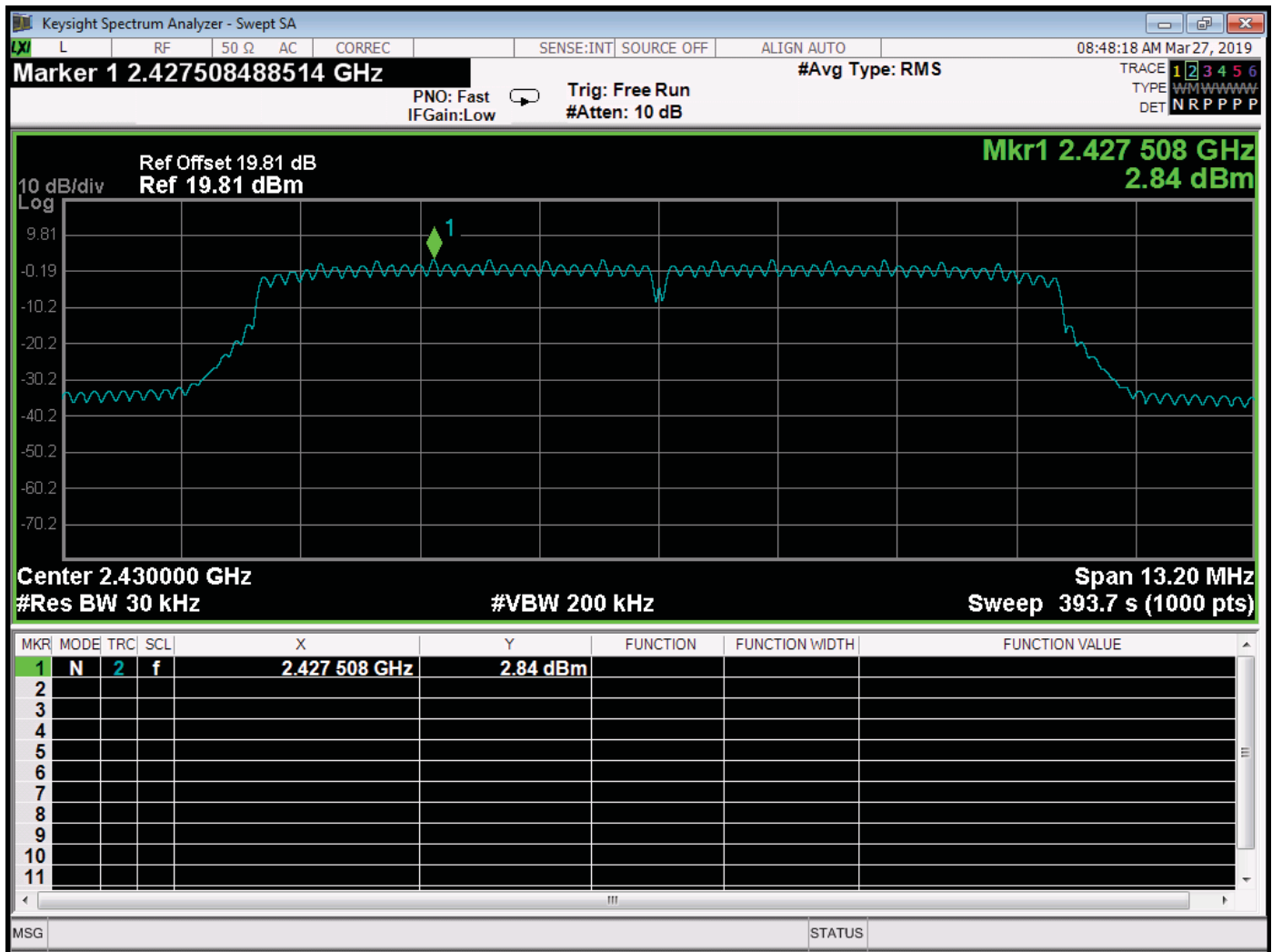
Spectral Density – 2430 MHz – 10 MHz BW – Port #1



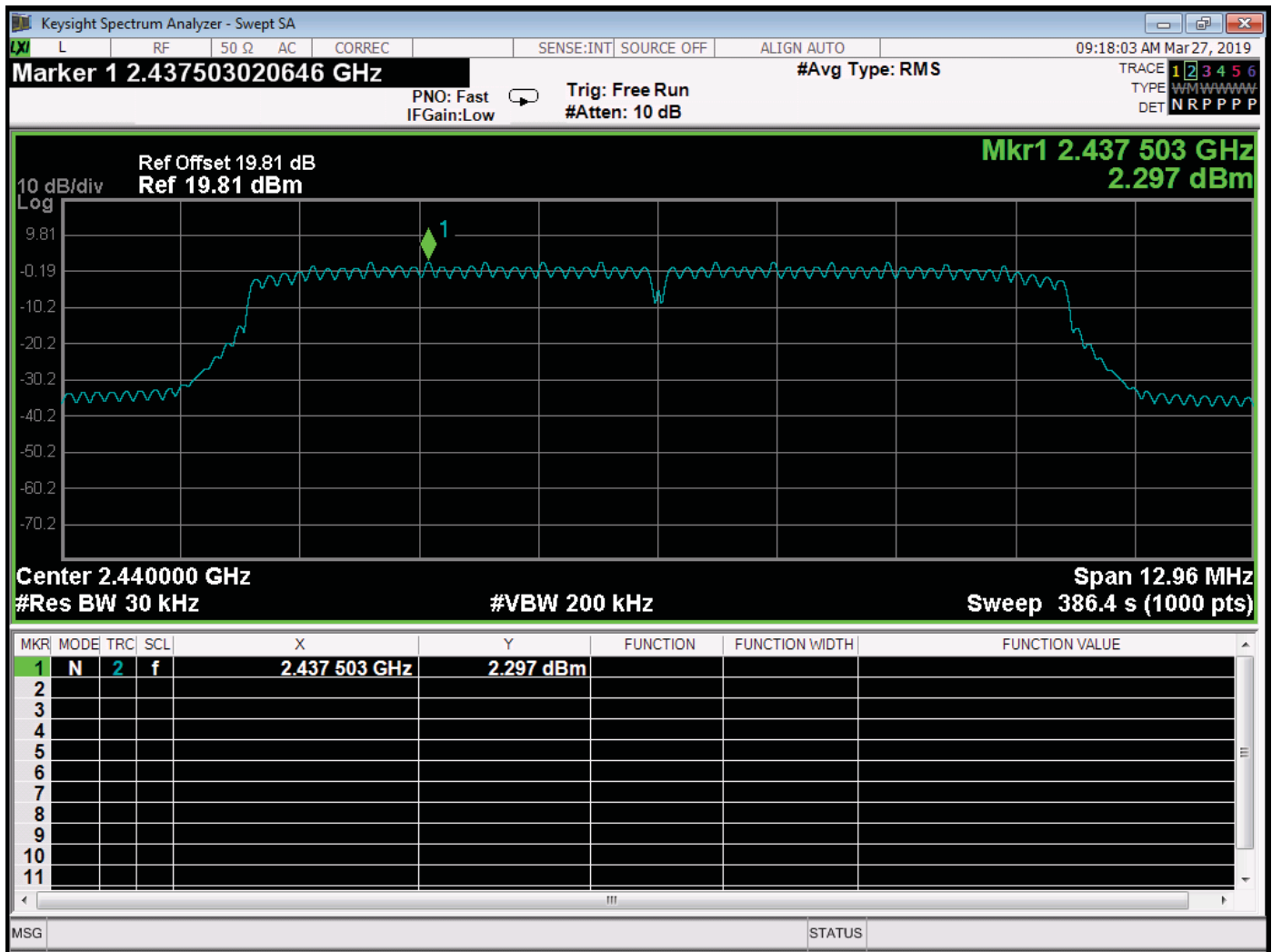
Spectral Density – 2440 MHz – 10 MHz BW – Port #1



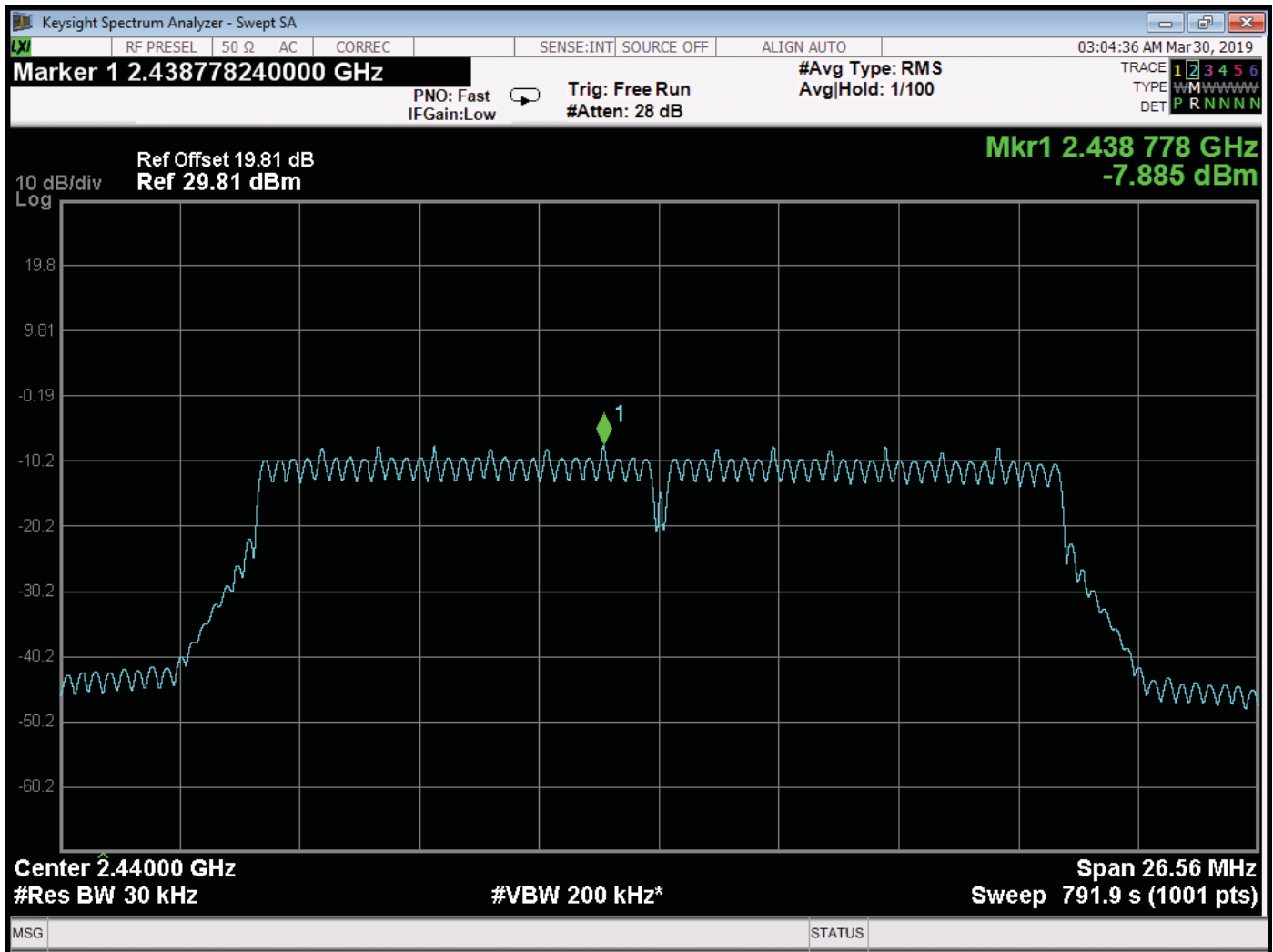
Spectral Density – 2440 MHz – 20 MHz BW – Port #1



Spectral Density – 2430 MHz – 10 MHz BW – Port #2



Spectral Density – 2440 MHz – 10 MHz BW – Port #2



Spectral Density – 2440 MHz – 20 MHz BW – Port #2

## SPECTRAL DENSITY

StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

OMNIDIRECTIONAL ANTENNA – P/N: AOV4S235S-TM  
SILVUS ANTENNA – P/N: AOV2D230515G-TM

Limit = 6.99 dBm

**2430 MHz – 10 MHz BW**

**Port 1 Gain Setting = 48**

**Port 2 Gain Setting = 49**

| ANTENNA<br>PORT | RMS<br>SD<br>(dBm) | 10 LOG (N) | EFFECTIVE<br>SD (dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|-----------------|--------------------|------------|-----------------------|----------------|----------------|
| 1               | 2.536              | 3.01       | 5.546                 | 6.99           | -1.444         |
| 2               | 2.840              | 3.01       | 5.850                 | 6.99           | -1.140         |



## SPECTRAL DENSITY

StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

OMNIDIRECTIONAL ANTENNA – P/N: AOV4S235S-TM  
SILVUS ANTENNA – P/N: AOV2D230515G-TM

Limit = 6.99 dBm

**2440 MHz – 10 MHz BW**

**Port 1 Gain Setting = 48**

**Port 2 Gain Setting = 49**

| ANTENNA<br>PORT | RMS<br>SD (dBm) | 10 LOG (N) | EFFECTIVE<br>SD (dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|-----------------|-----------------|------------|-----------------------|----------------|----------------|
| 1               | 2.426           | 3.01       | 5.436                 | 6.99           | -1.554         |
| 2               | 2.297           | 3.01       | 5.307                 | 6.99           | -1.683         |

## SPECTRAL DENSITY

StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

OMNIDIRECTIONAL ANTENNA – P/N: AOV4S235S-TM  
SILVUS ANTENNA – P/N: AOV2D230515G-TM

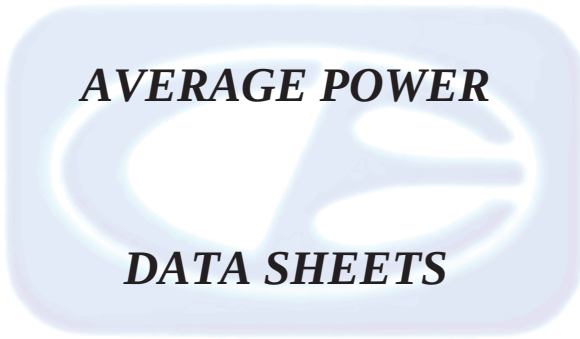
Limit = 6.99 dBm

**2440 MHz – 20 MHz BW**

**Port 1 Gain Setting = 39**

**Port 2 Gain Setting = 40**

| ANTENNA<br>PORT | RMS<br>SD (dBm) | 10 LOG (N) | EFFECTIVE<br>SD (dBm) | Limit<br>(dBm) | Margin<br>(dB) |
|-----------------|-----------------|------------|-----------------------|----------------|----------------|
| 1               | -7.752          | 3.01       | -4.742                | 6.99           | -11.732        |
| 2               | -7.885          | 3.01       | -4.875                | 6.99           | -11.865        |



***AVERAGE POWER***

***DATA SHEETS***

## AVERAGE OUTPUT POWER

StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

OMNIDIRECTIONAL ANTENNA – P/N: AOV4S235S-TM  
SILVUS ANTENNA – P/N: AOV2D230515G-TM

Limit = 28.99 dBm

**2440 MHz – 20 MHz BW**

**Port 1 Gain Setting = 39**

**Port 2 Gain Setting = 40**

| ANTENNA PORT | PEAK POWER<br>(dBm) | AVERAGE POWER<br>(dBm) | PEAK<br>POWER (mW) | AVERAGE<br>POWER (mW) |
|--------------|---------------------|------------------------|--------------------|-----------------------|
| 1            | 18.34               | 18.07                  | 68.23              | 64.12                 |
| 2            | 18.03               | 17.76                  | 63.53              | 59.70                 |
| Total Power: | 21.20               | 20.93                  | 131.76             | 123.82                |

## AVERAGE OUTPUT POWER

StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

OMNIDIRECTIONAL ANTENNA – P/N: AOV4S235S-TM  
SILVUS ANTENNA – P/N: AOV2D230515G-TM

Limit = 28.99 dBm

**2440 MHz – 10 MHz BW**

**Port 1 Gain Setting = 48**

**Port 2 Gain Setting = 49**

| ANTENNA PORT | PEAK POWER<br>(dBm) | AVERAGE<br>POWER<br>(dBm) | PEAK<br>POWER (mW) | AVERAGE<br>POWER (mW) |
|--------------|---------------------|---------------------------|--------------------|-----------------------|
| 1            | 26.34               | 26.07                     | 430.53             | 404.58                |
| 2            | 26.17               | 25.86                     | 414.00             | 385.48                |
| Total Power: | 29.27               | 28.98                     | 844.53             | 790.06                |

## AVERAGE OUTPUT POWER

StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

OMNIDIRECTIONAL ANTENNA – P/N: AOV4S235S-TM  
SILVUS ANTENNA – P/N: AOV2D230515G-TM

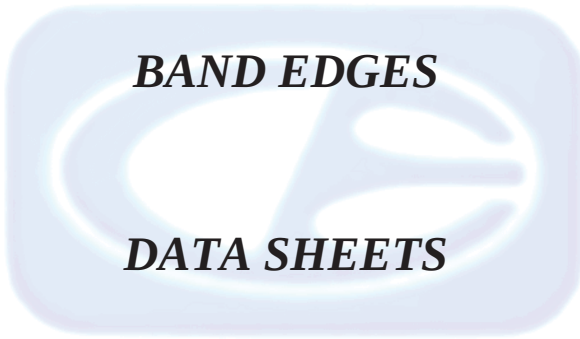
Limit = 28.99 dBm

**2430 MHz – 10 MHz BW**

**Port 1 Gain Setting = 48**

**Port 2 Gain Setting = 49**

| ANTENNA<br>PORT | PEAK POWER<br>(dBm) | AVERAGE POWER<br>(dBm) | PEAK<br>POWER (mW) | AVERAGE<br>POWER (mW) |
|-----------------|---------------------|------------------------|--------------------|-----------------------|
| 1               | 26.26               | 25.99                  | 422.67             | 397.19                |
| 2               | 26.20               | 25.94                  | 416.87             | 392.65                |
| Total Power:    | 29.24               | 28.98                  | 839.54             | 789.84                |



***BAND EDGES***

***DATA SHEETS***

**FCC 15.247 and RSS-247**

Silvus Technologies, Inc.  
StreamCaster 4200 Tactical MIMO Radio  
Model: SC4210E-245-EB

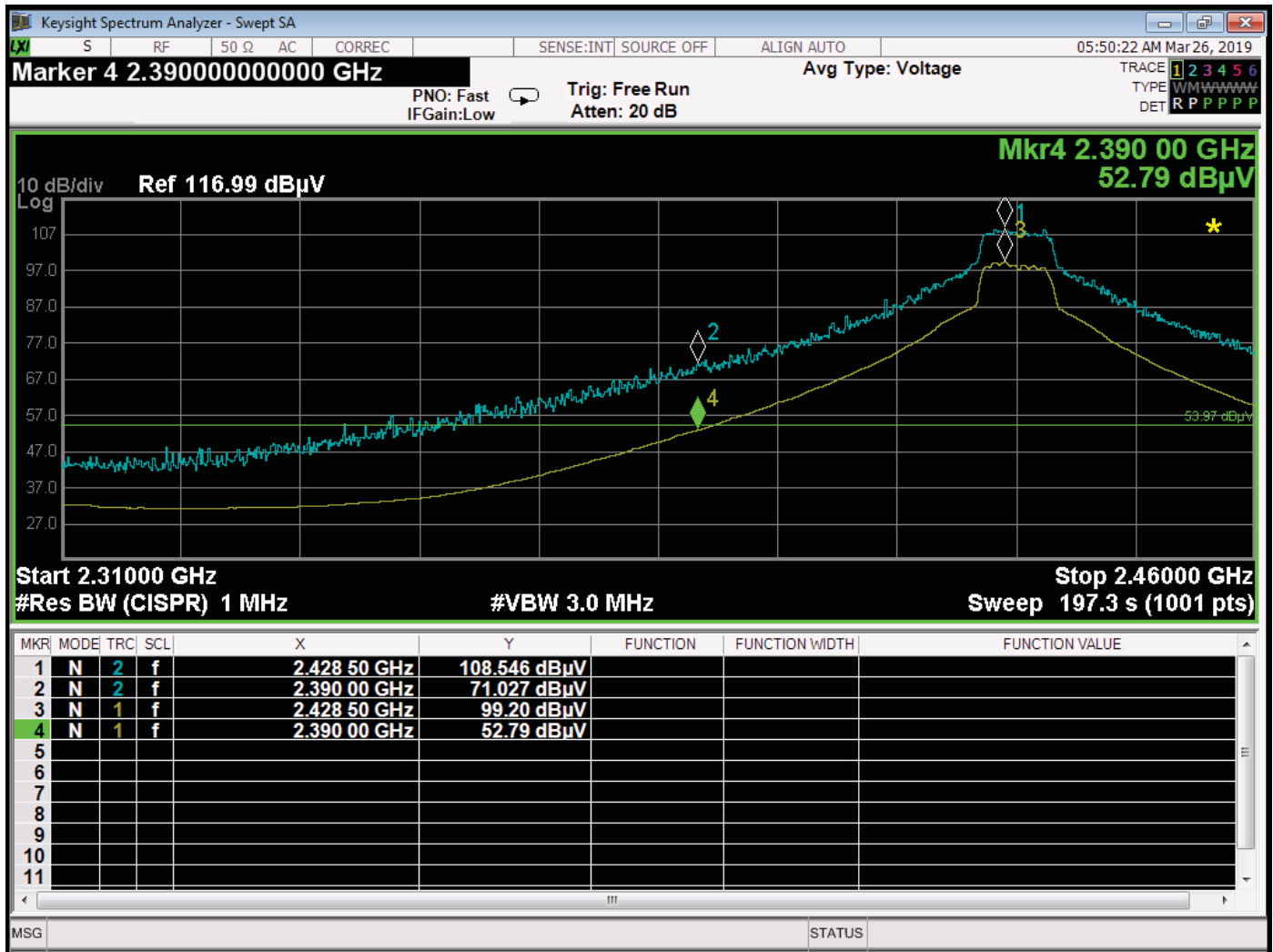
Date: 03/26/2019  
Lab: D  
Tested By: Kyle Fujimoto

**Band Edges - 2430 MHz @ 10 MHz – 2.15 dBi Antennas**

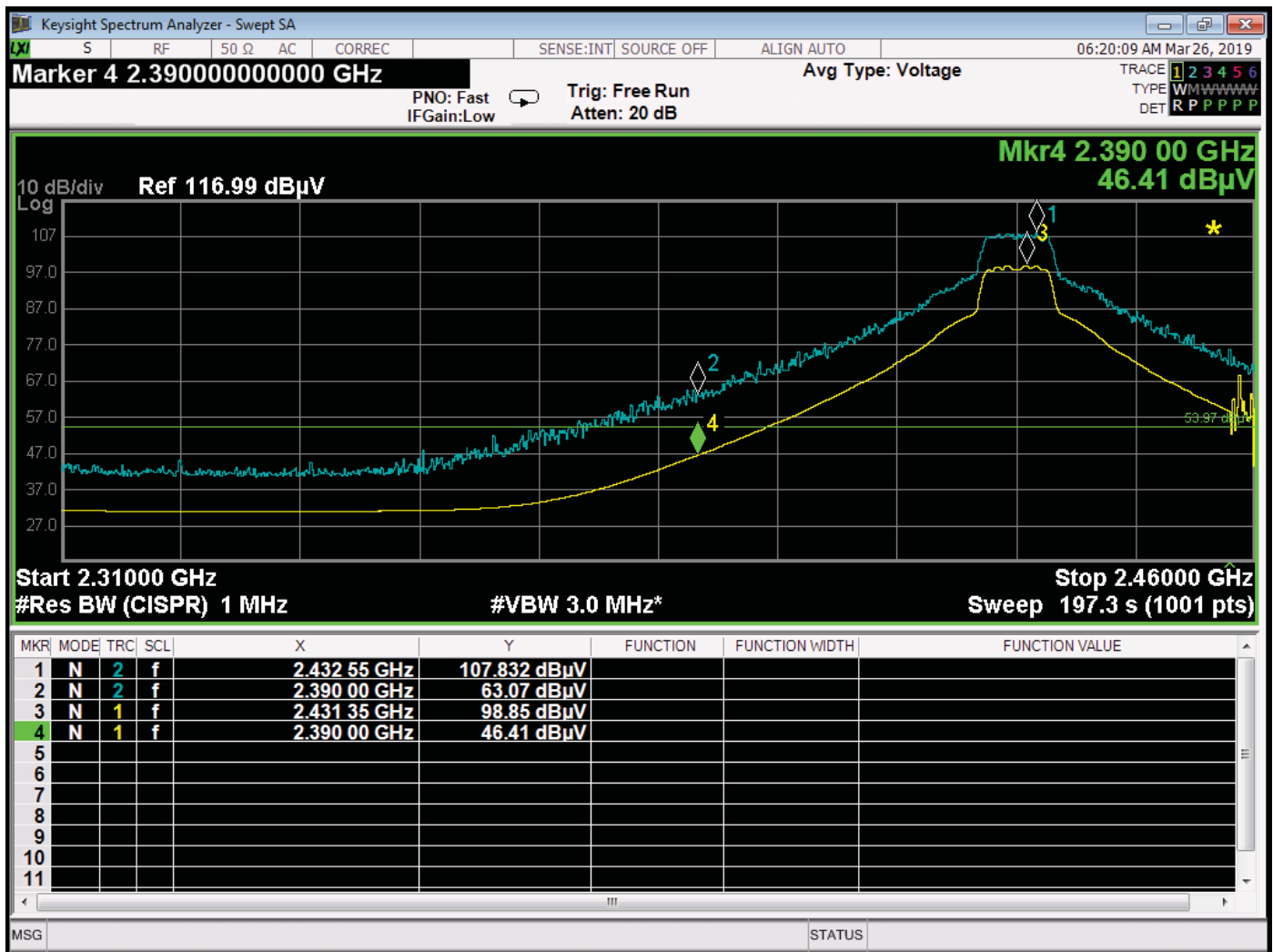
| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments             |
|-------------|----------------|-----------|-------|--------|-----------------|-------------------|------------------|----------------------|
| 2430.00     | 108.55         | V         | --    | --     | Peak            | 345.25            | 173.21           | Fundamental          |
| 2430.00     | 99.20          | V         | --    | --     | Avg             | 345.25            | 173.21           | 2430 MHz - 10 MHz BW |
| 2390.00     | 71.03          | V         | 73.97 | -2.94  | Peak            | 345.25            | 173.21           | Band Edge            |
| 2390.00     | 52.79          | V         | 53.97 | -1.18  | Avg             | 345.25            | 173.21           | 2390.00 MHz          |
| 2430.00     | 107.83         | H         | --    | --     | Peak            | 330.50            | 133.17           | Fundamental          |
| 2430.00     | 98.85          | H         | --    | --     | Avg             | 330.50            | 133.17           | 2430 MHz - 10 MHz BW |
| 2390.00     | 63.07          | H         | 73.97 | -10.90 | Peak            | 330.50            | 133.17           | Band Edge            |
| 2390.00     | 46.41          | H         | 53.97 | -7.56  | Avg             | 330.50            | 133.17           | 2390.00 MHz          |
|             |                |           |       |        |                 |                   |                  | X-Axis               |
|             |                |           |       |        |                 |                   |                  | Worst Case           |
|             |                |           |       |        |                 |                   |                  |                      |
|             |                |           |       |        |                 |                   |                  |                      |
|             |                |           |       |        |                 |                   |                  |                      |
|             |                |           |       |        |                 |                   |                  |                      |
|             |                |           |       |        |                 |                   |                  |                      |
|             |                |           |       |        |                 |                   |                  |                      |
|             |                |           |       |        |                 |                   |                  |                      |



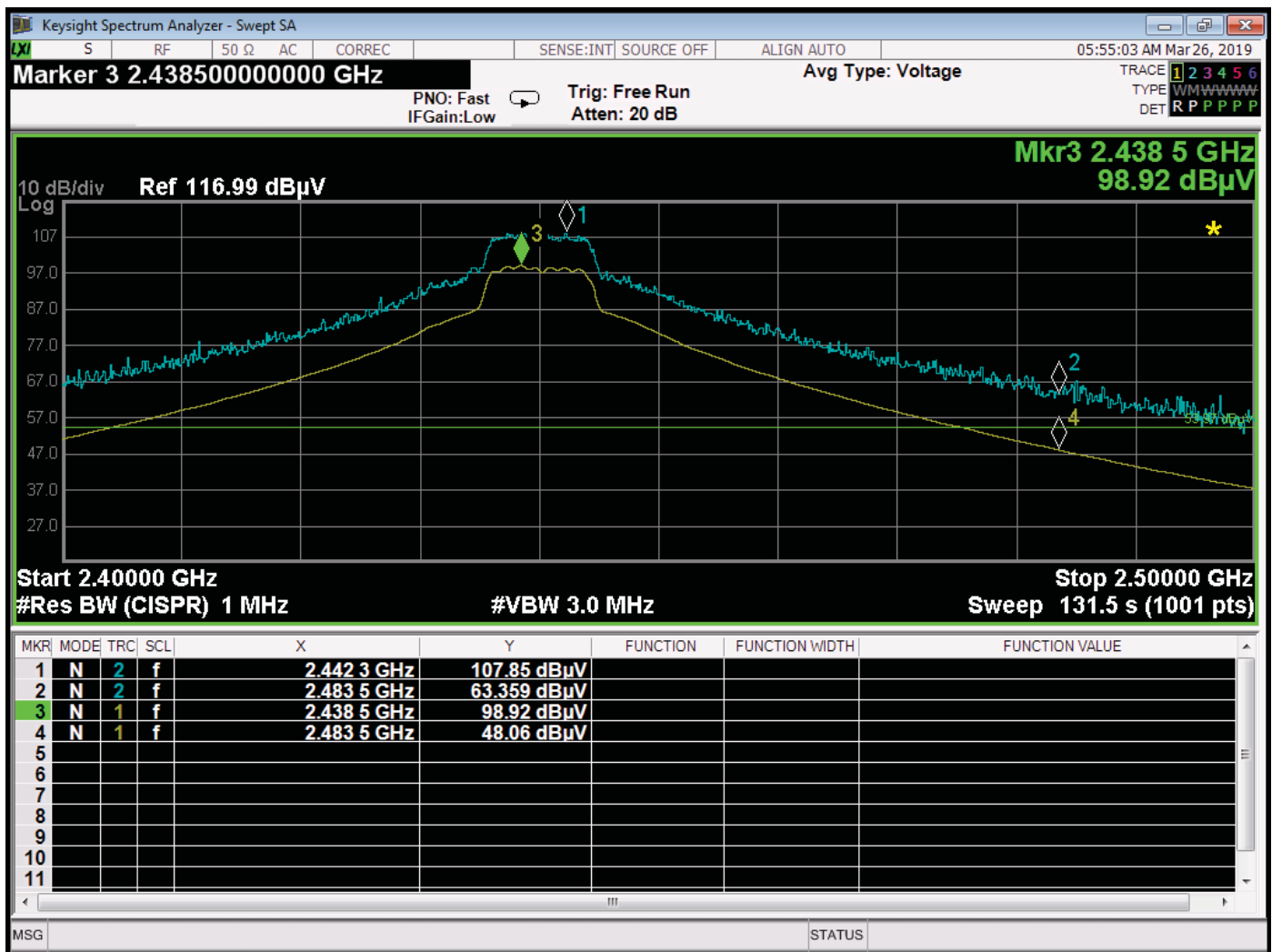




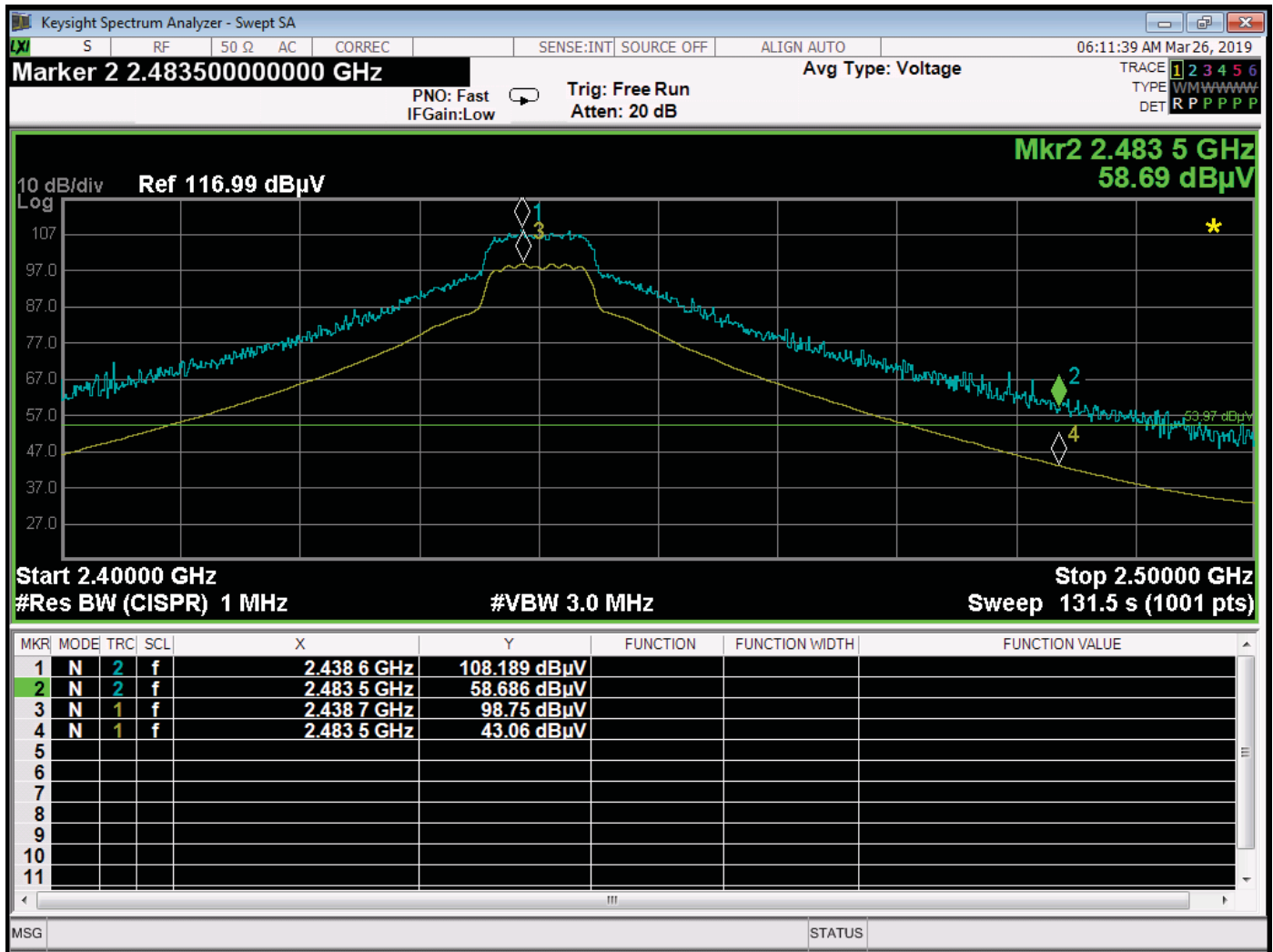
Band Edge – 2430 MHz – Vertical Polarization – 10 MHz BW – 2.15 dBi Antennas – X-Axis



Band Edge – 2430 MHz – Horizontal Polarization – 10 MHz BW – 2.15 dBi Antennas – X-Axis



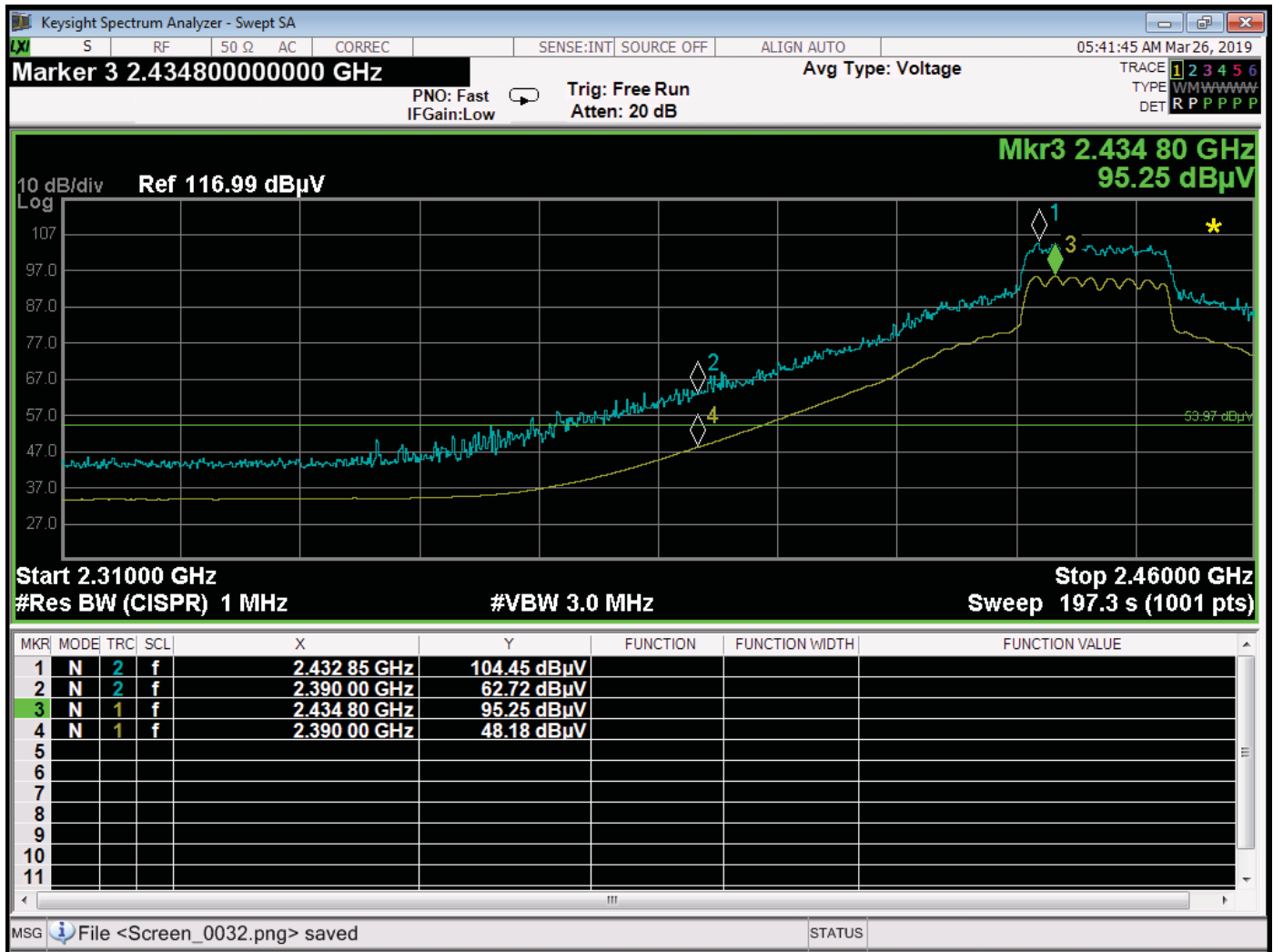
Band Edge – 2440 MHz – Vertical Polarization – 10 MHz BW – 2.15 dBi Antennas – X-Axis



Band Edge – 2440 MHz – Horizontal Polarization – 10 MHz BW – 2.15 dBi Antennas – X-Axis

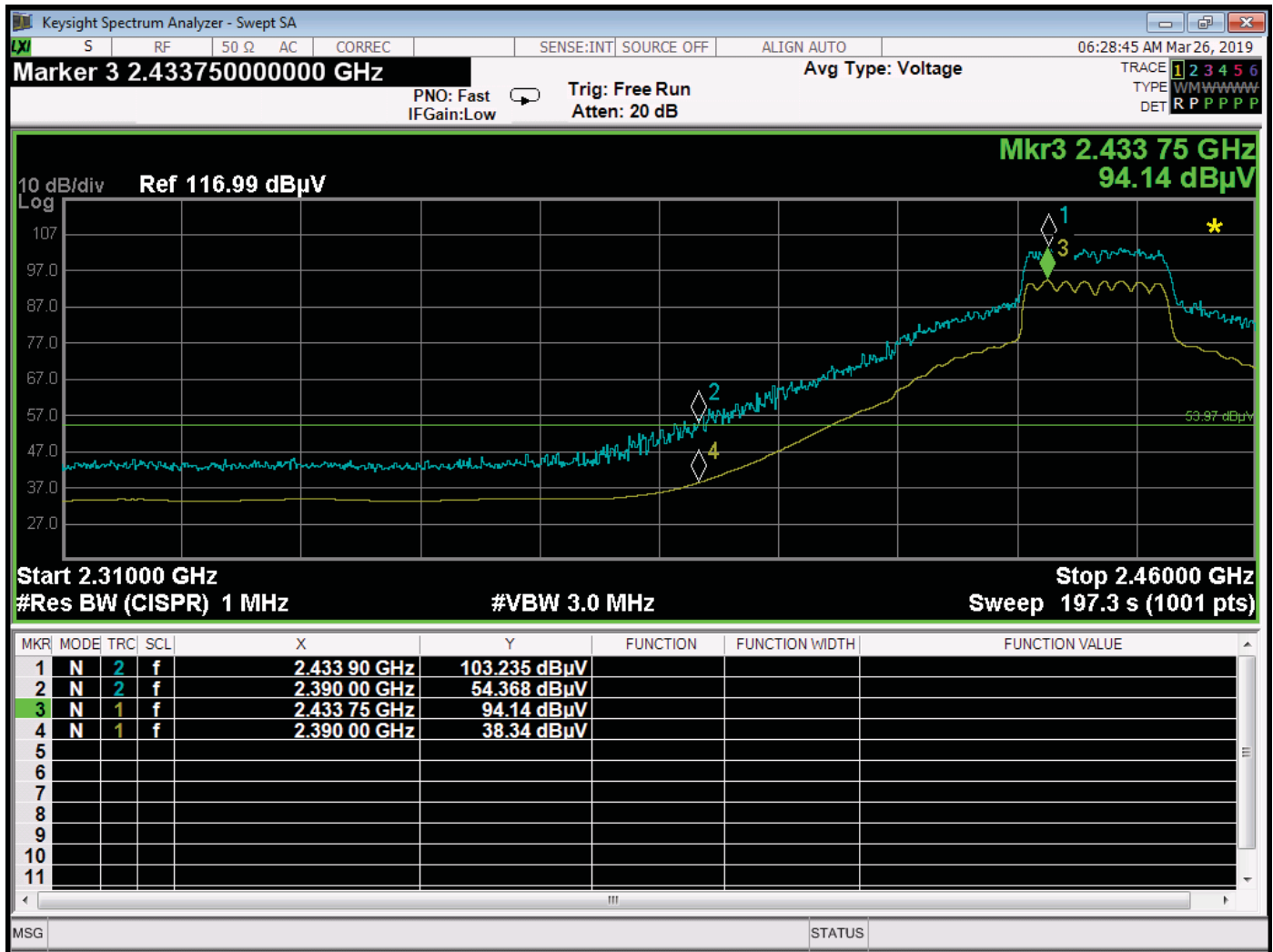




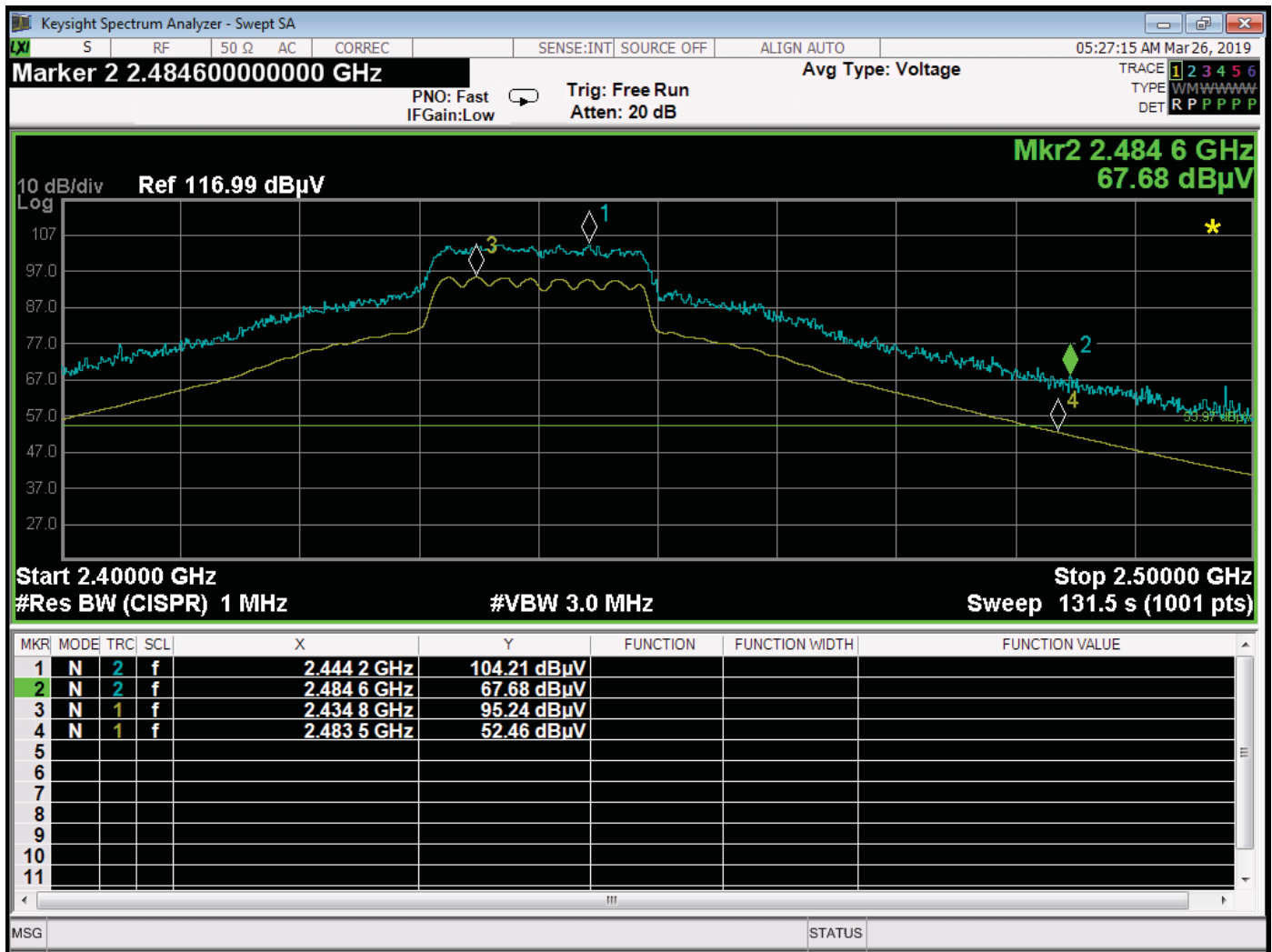


Lower Band Edge – 2440 MHz – Vertical Polarization – 20 MHz BW – 2.15 dBi Antennas – X-Axis

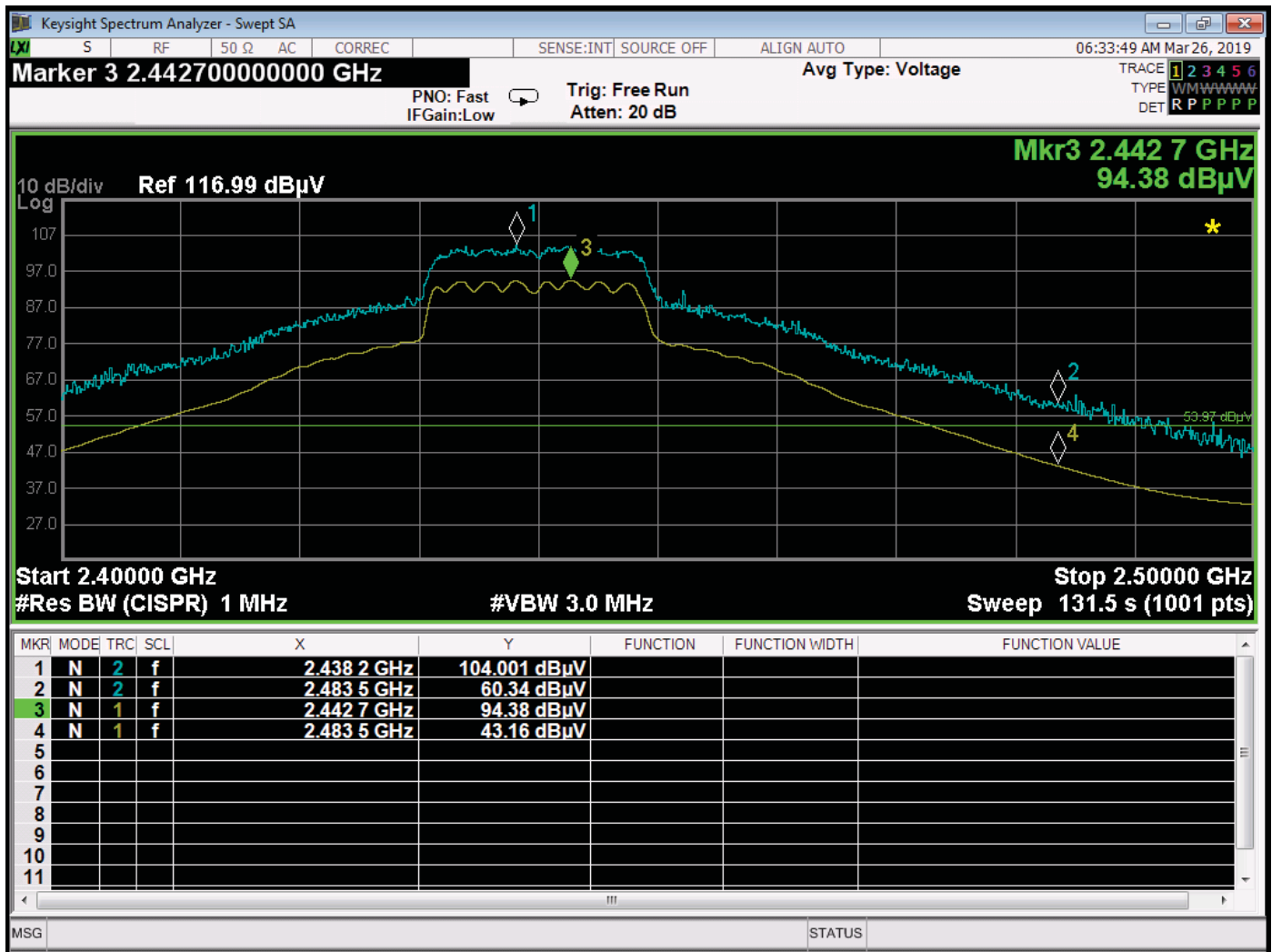




Lower Band Edge – 2440 MHz – Horizontal Polarization – 20 MHz BW – 2.15 dBi Antennas – X-Axis



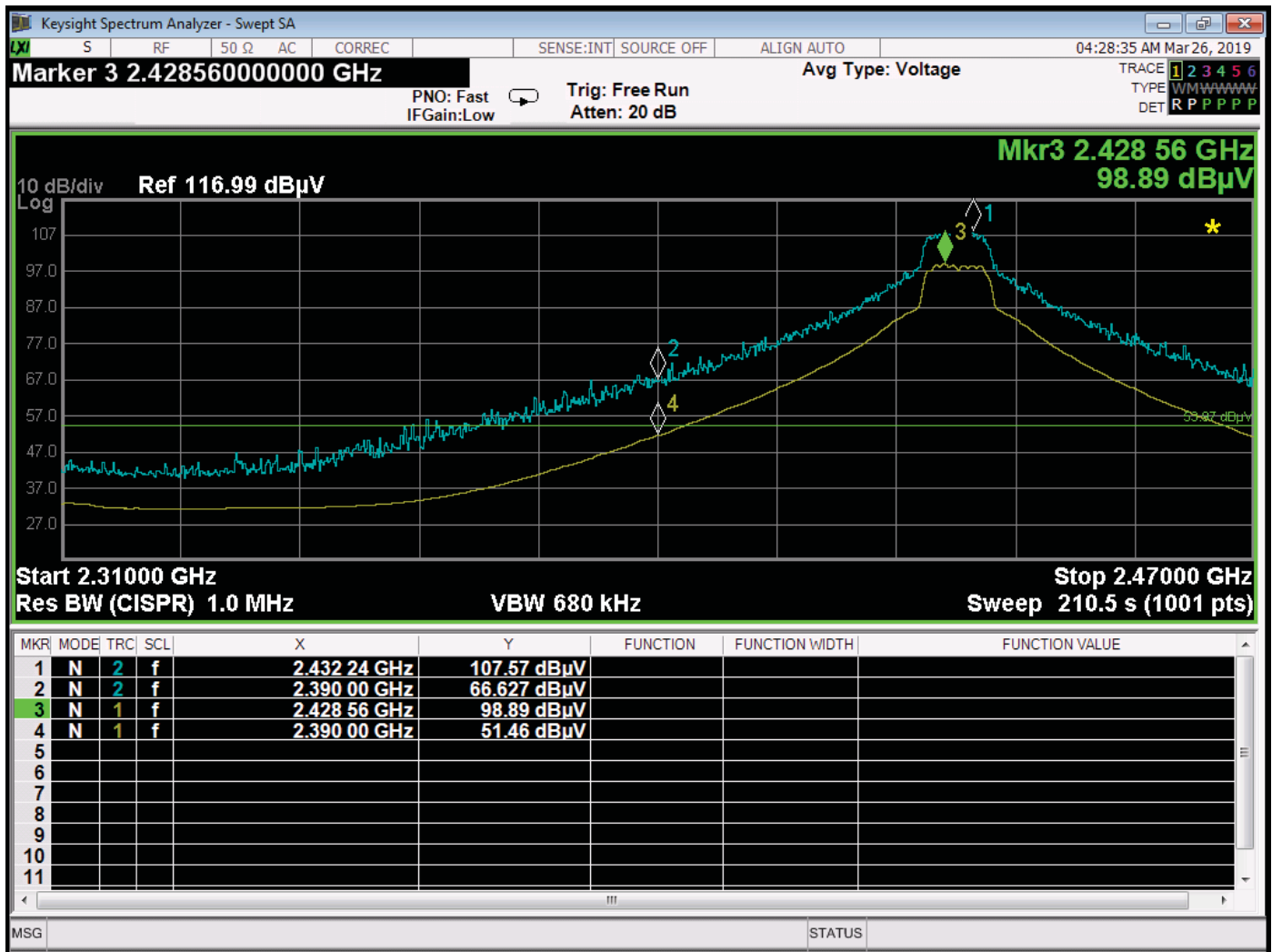
Upper Band Edge – 2440 MHz – Vertical Polarization – 20 MHz BW – 2.15 dBi Antennas – X-Axis



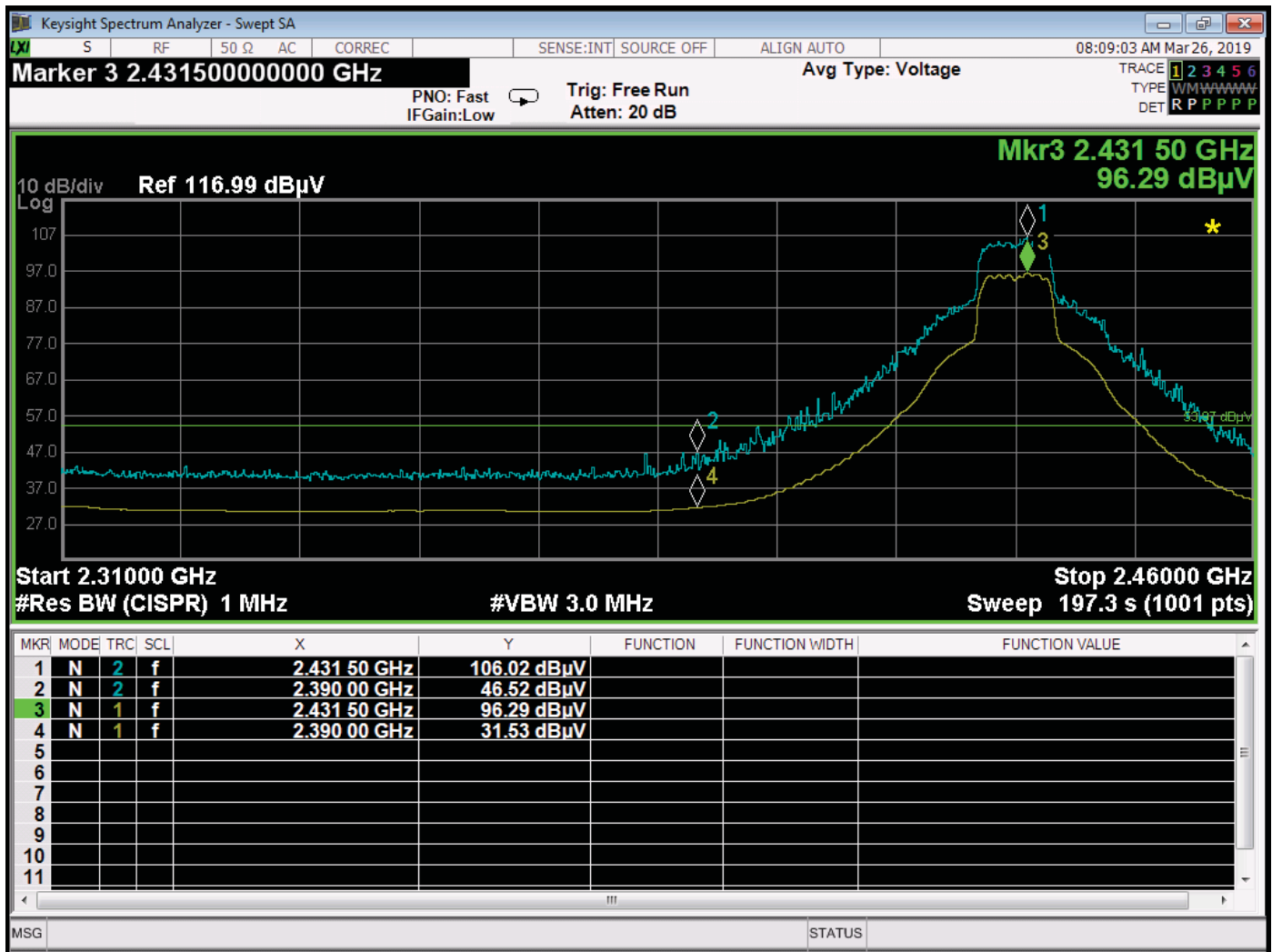
Upper Band Edge – 2440 MHz – Horizontal Polarization – 20 MHz BW – 2.15 dBi Antennas – X-Axis



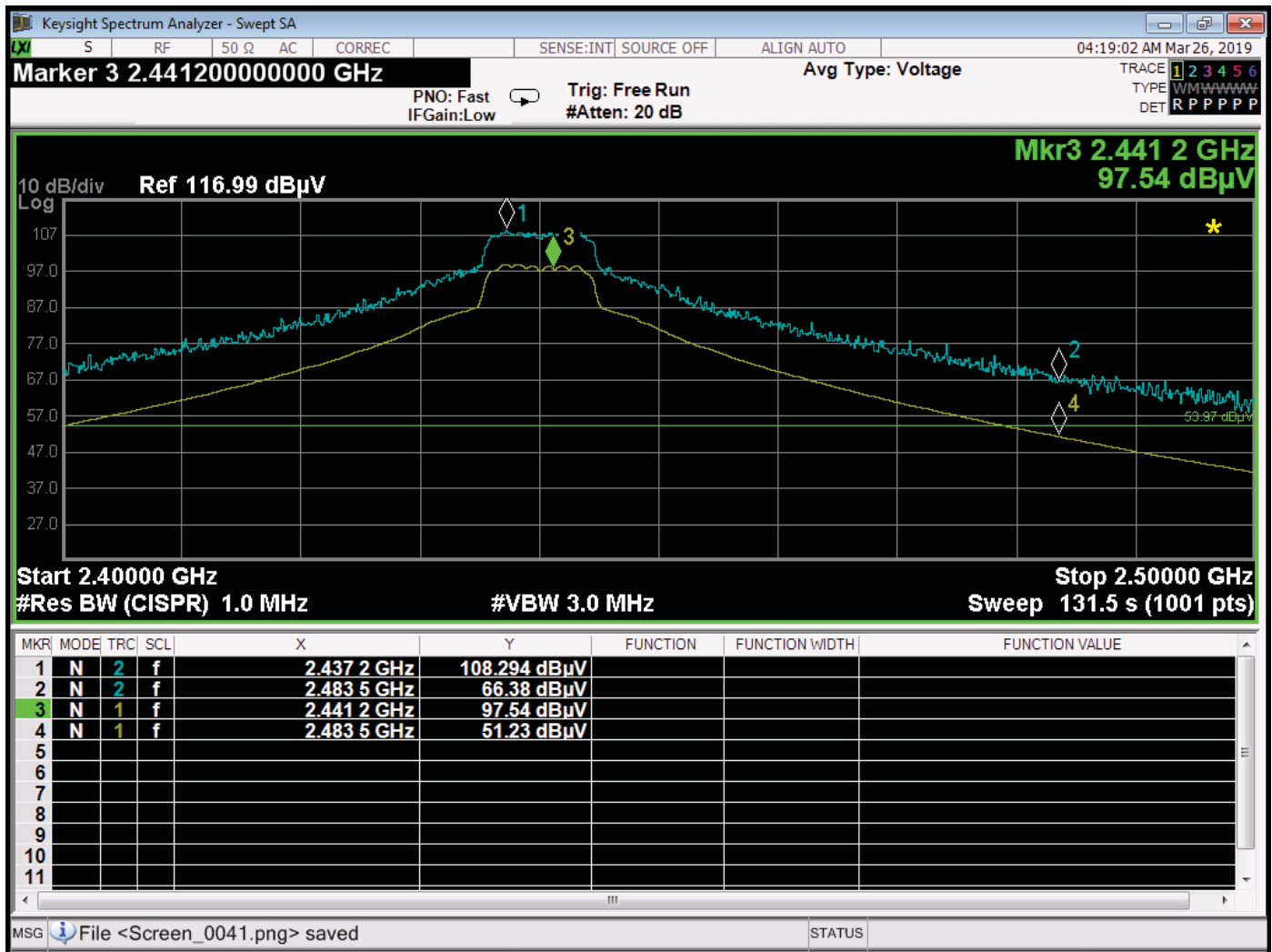




Lower Band Edge – 2430 MHz – Vertical Polarization – 10 MHz BW – 4 dBi Antennas – X-Axis

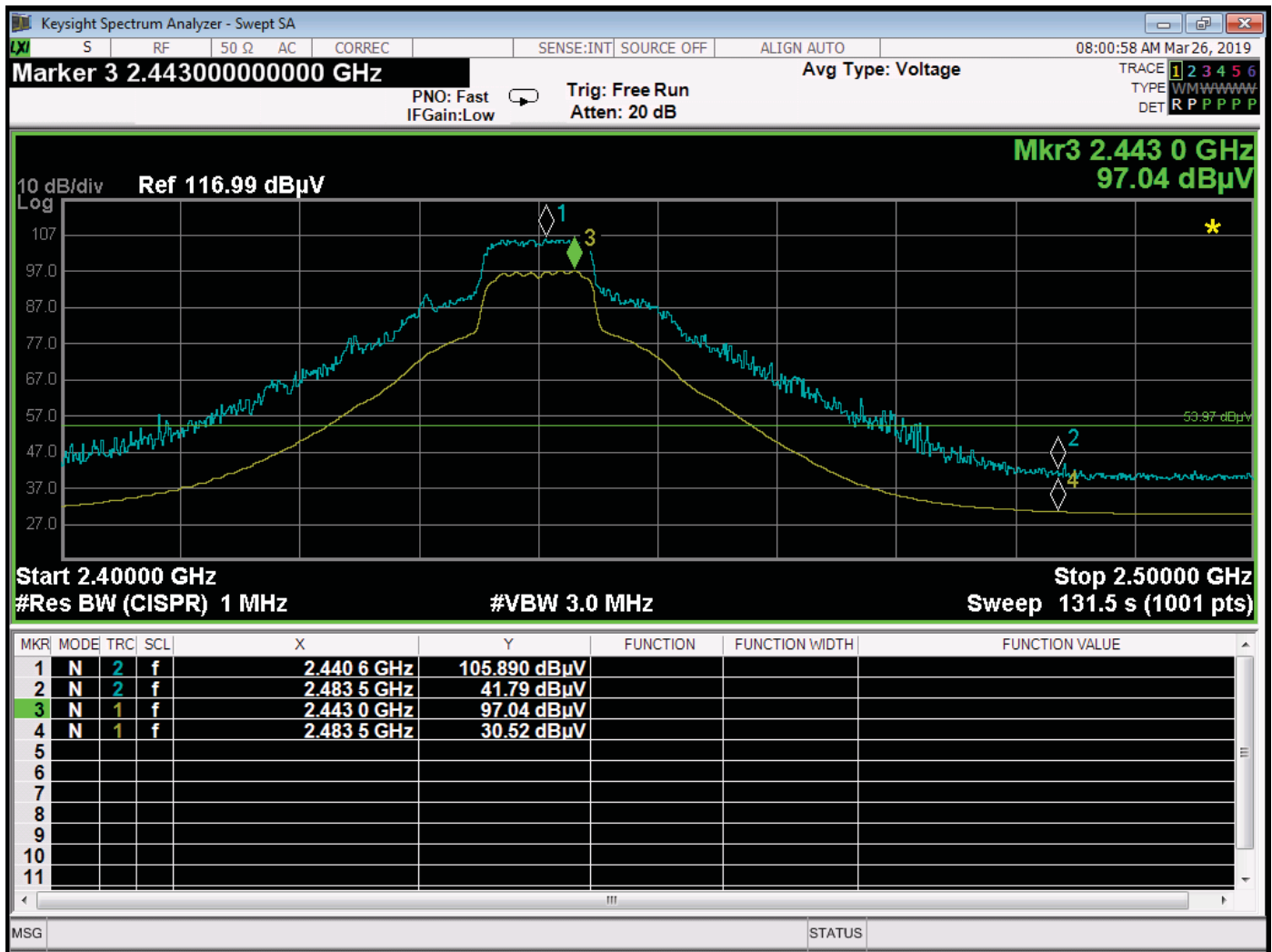


Lower Band Edge – 2430 MHz – Horizontal Polarization – 10 MHz BW – 4 dBi Antennas – X-Axis



Upper Band Edge – 2440 MHz – Vertical Polarization – 10 MHz BW – 4 dBi Antennas – X-Axis

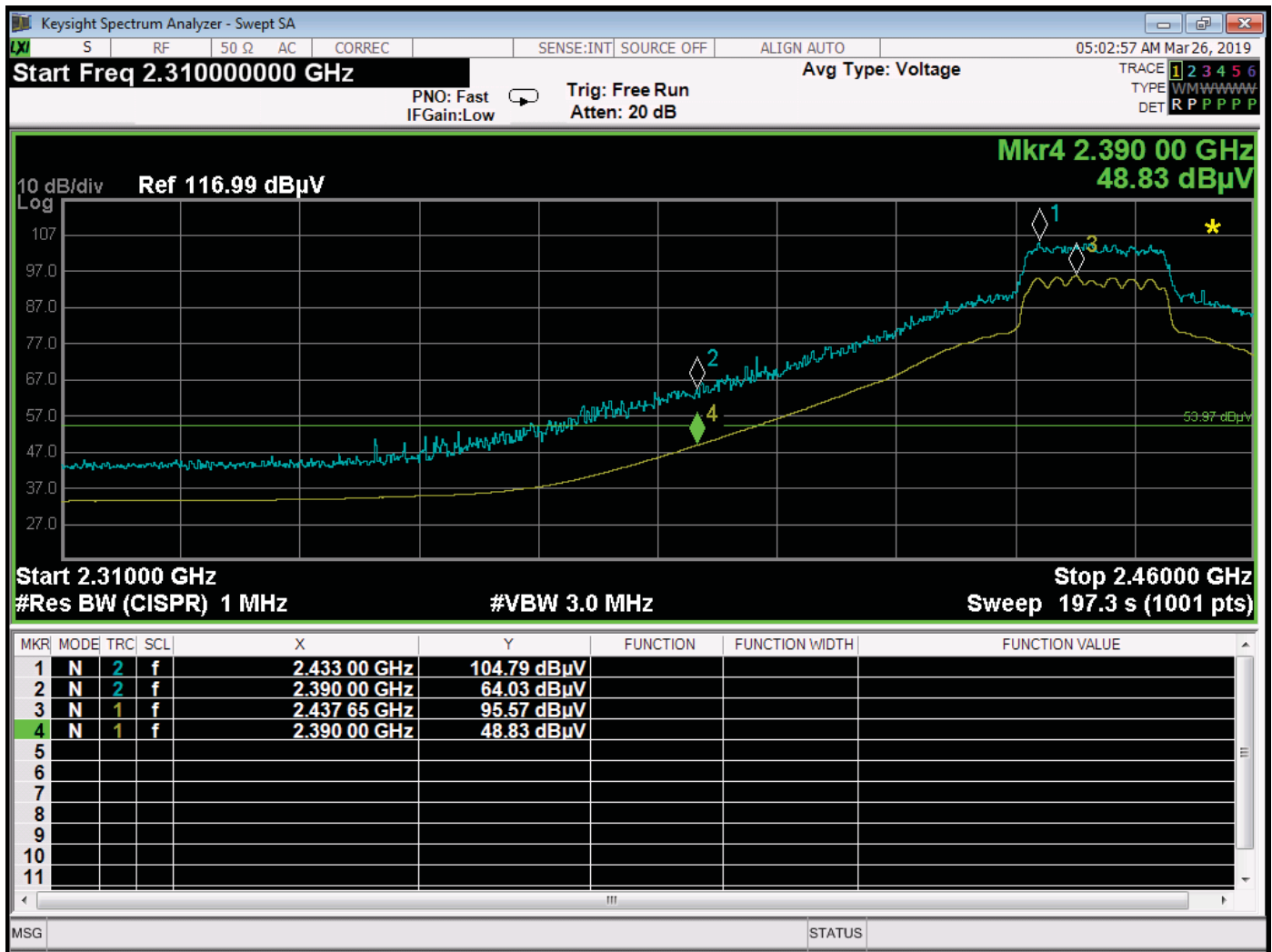




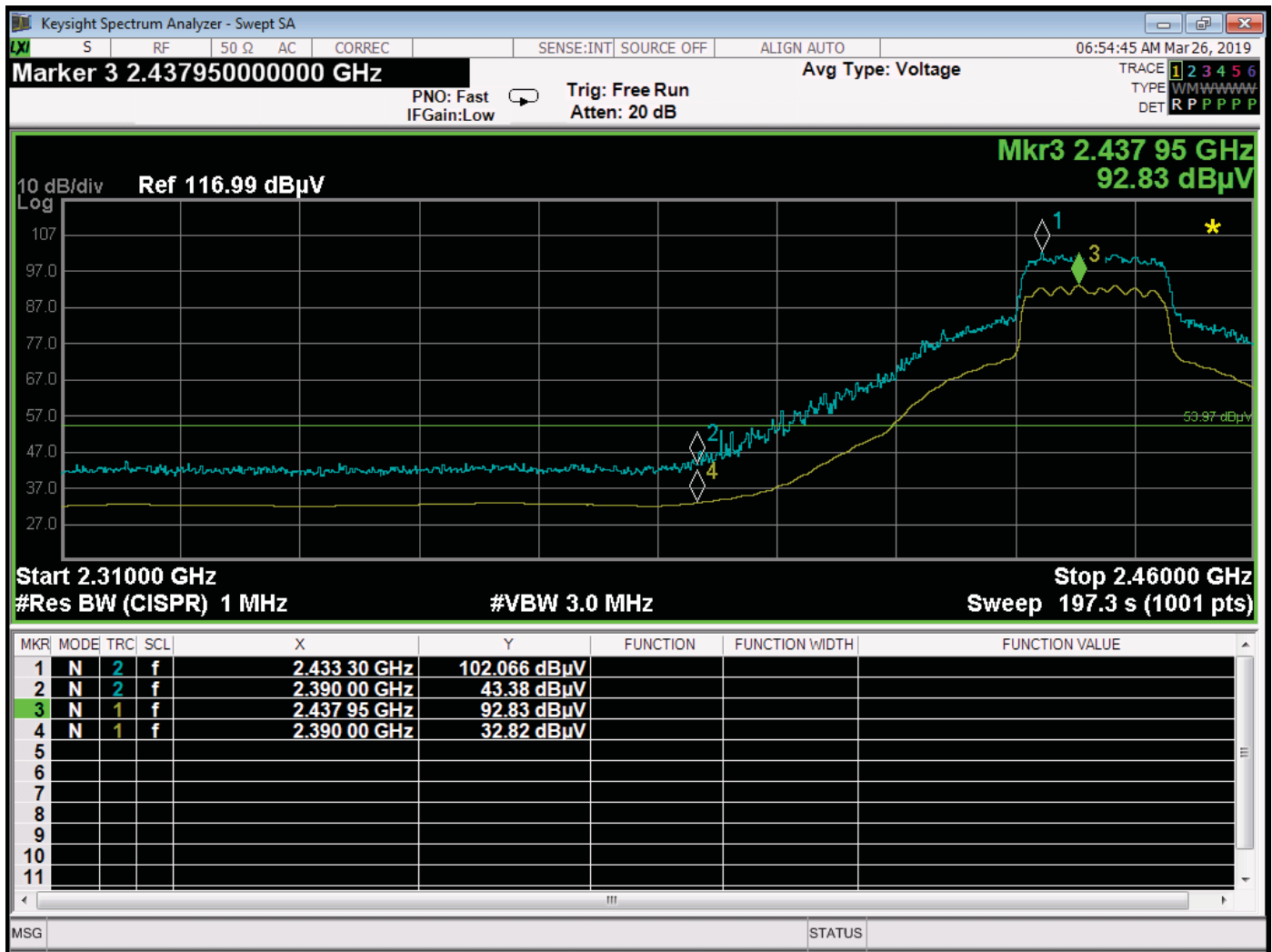
Upper Band Edge – 2440 MHz – Horizontal Polarization – 10 MHz BW – 4 dBi Antennas – X-Axis



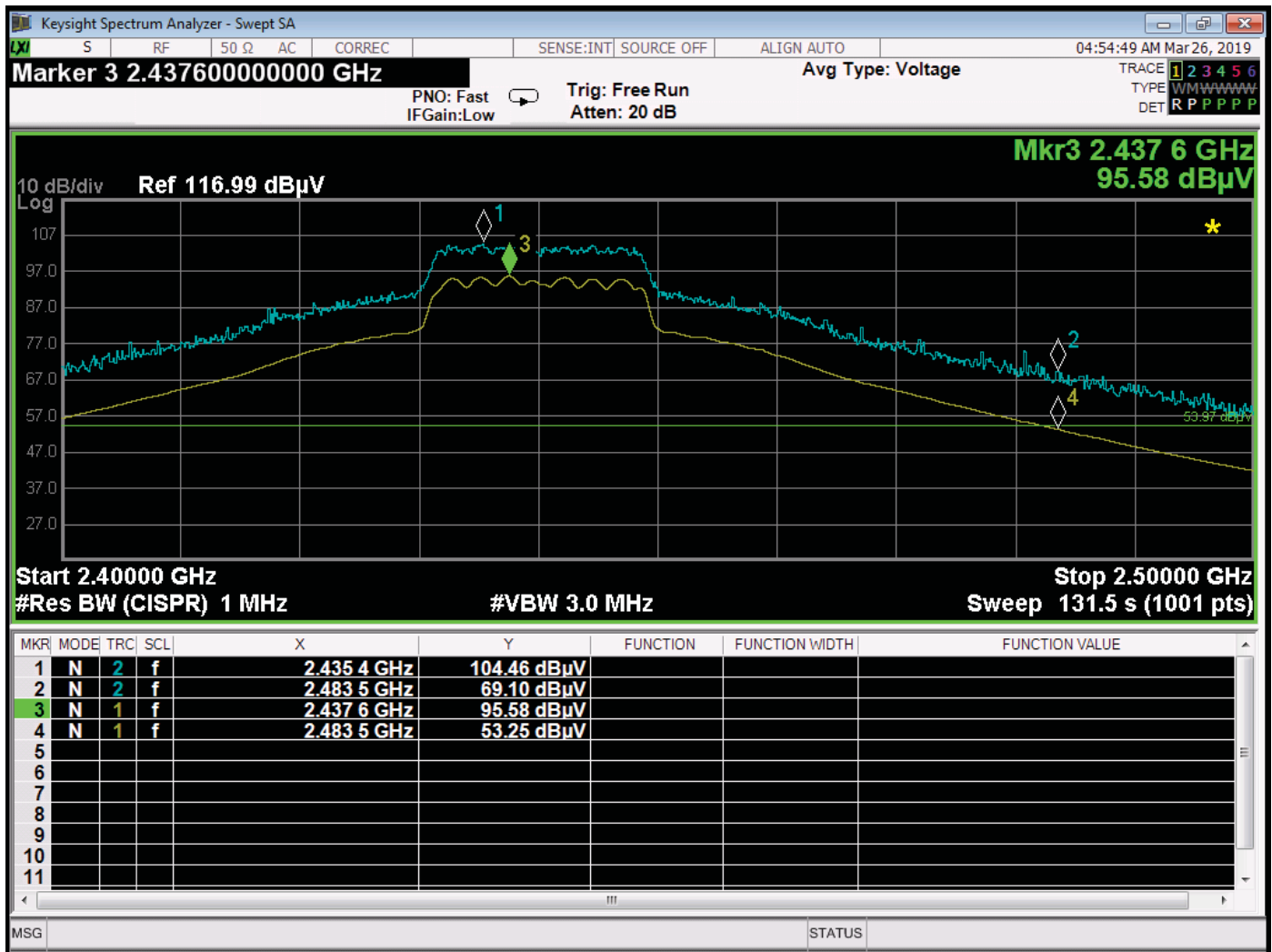




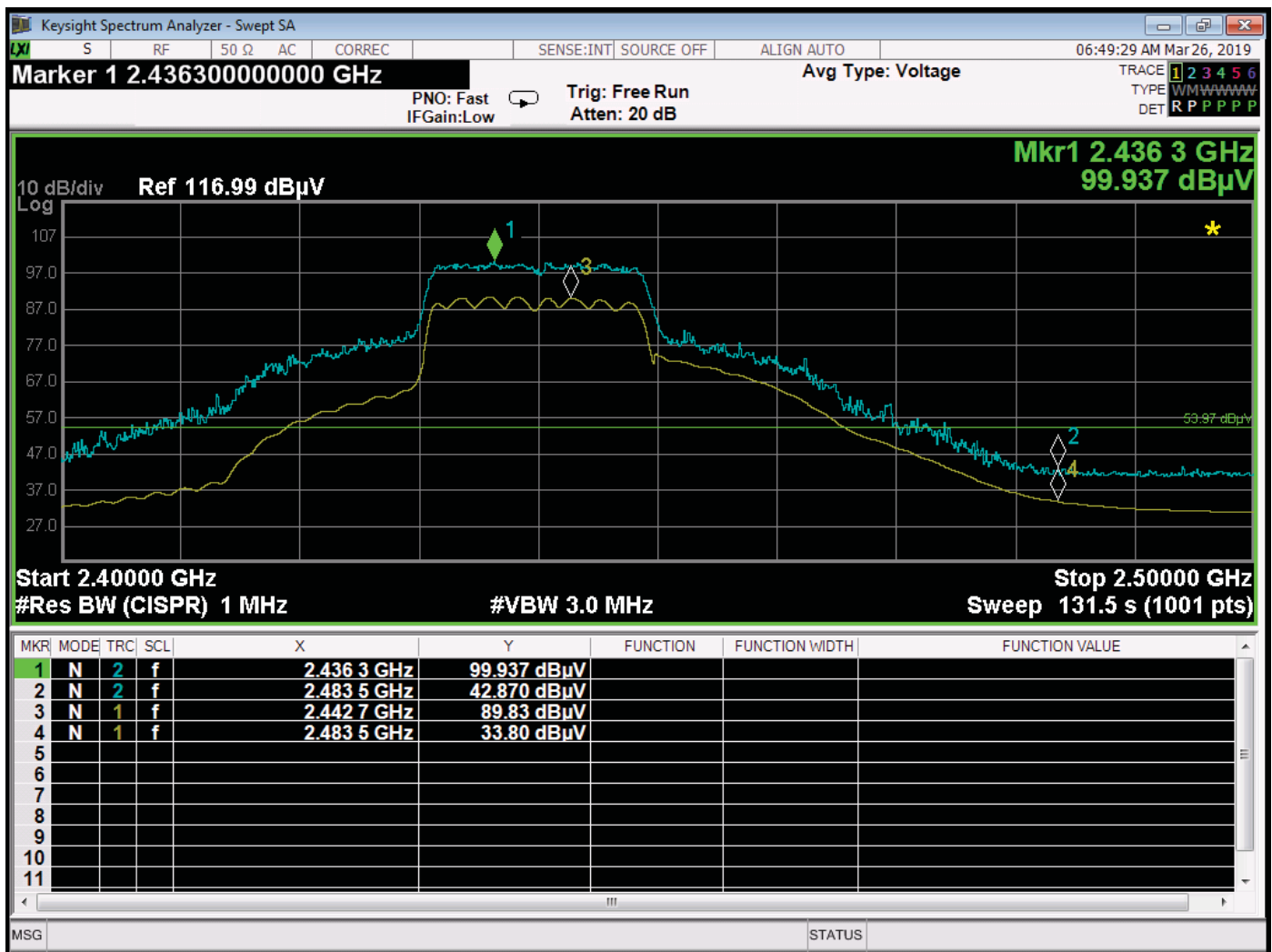
Lower Band Edge – 2440 MHz – Vertical Polarization – 20 MHz BW – 4 dBi Antennas – X-Axis



Lower Band Edge – 2440 MHz – Horizontal Polarization – 20 MHz BW – 4 dBi Antennas – X-Axis



Upper Band Edge – 2440 MHz – Vertical Polarization – 20 MHz BW – 4 dBi Antennas – X-Axis

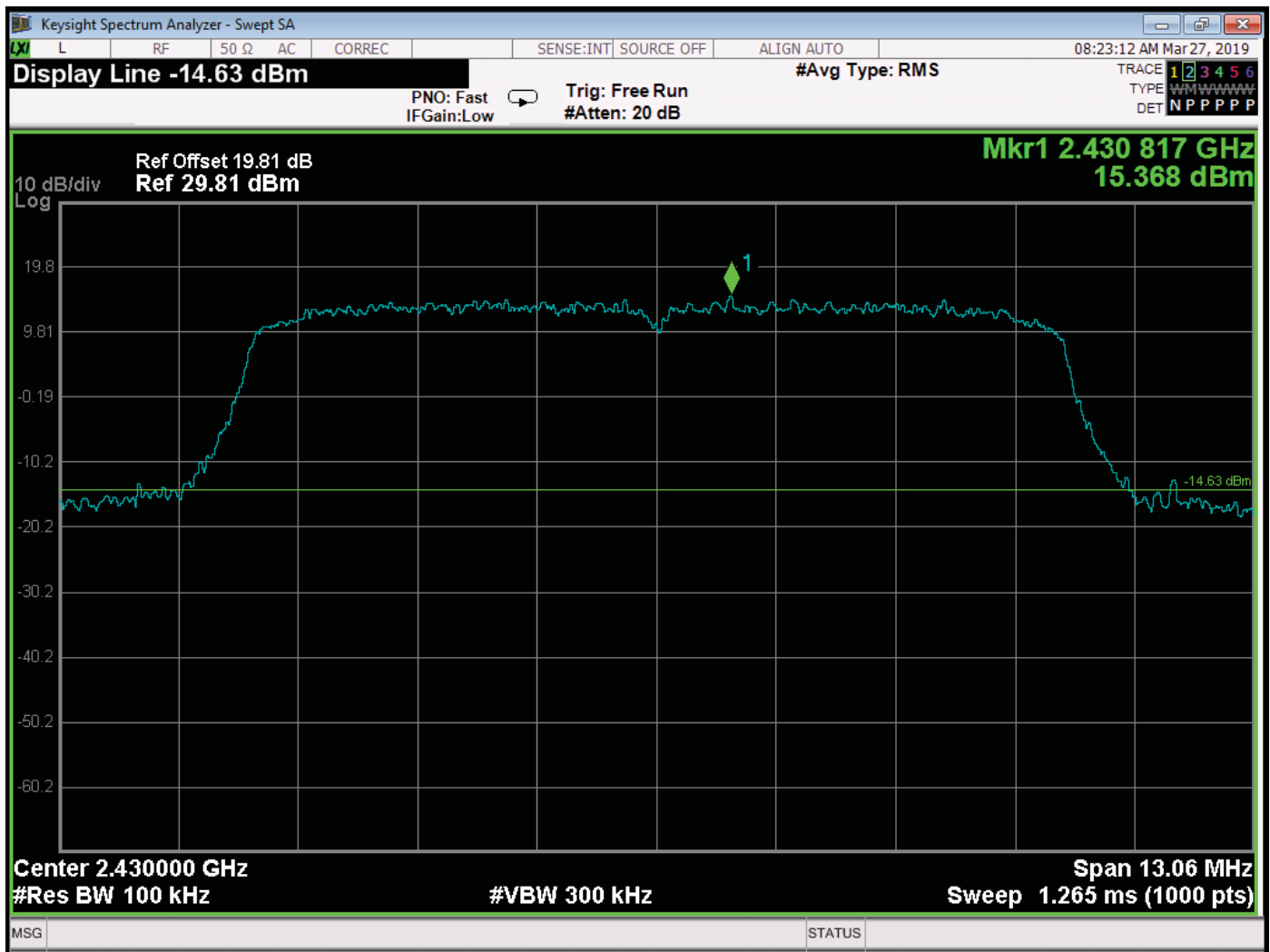


Upper Band Edge – 2440 MHz – Horizontal Polarization – 20 MHz BW – 4 dBi Antennas – X-Axis

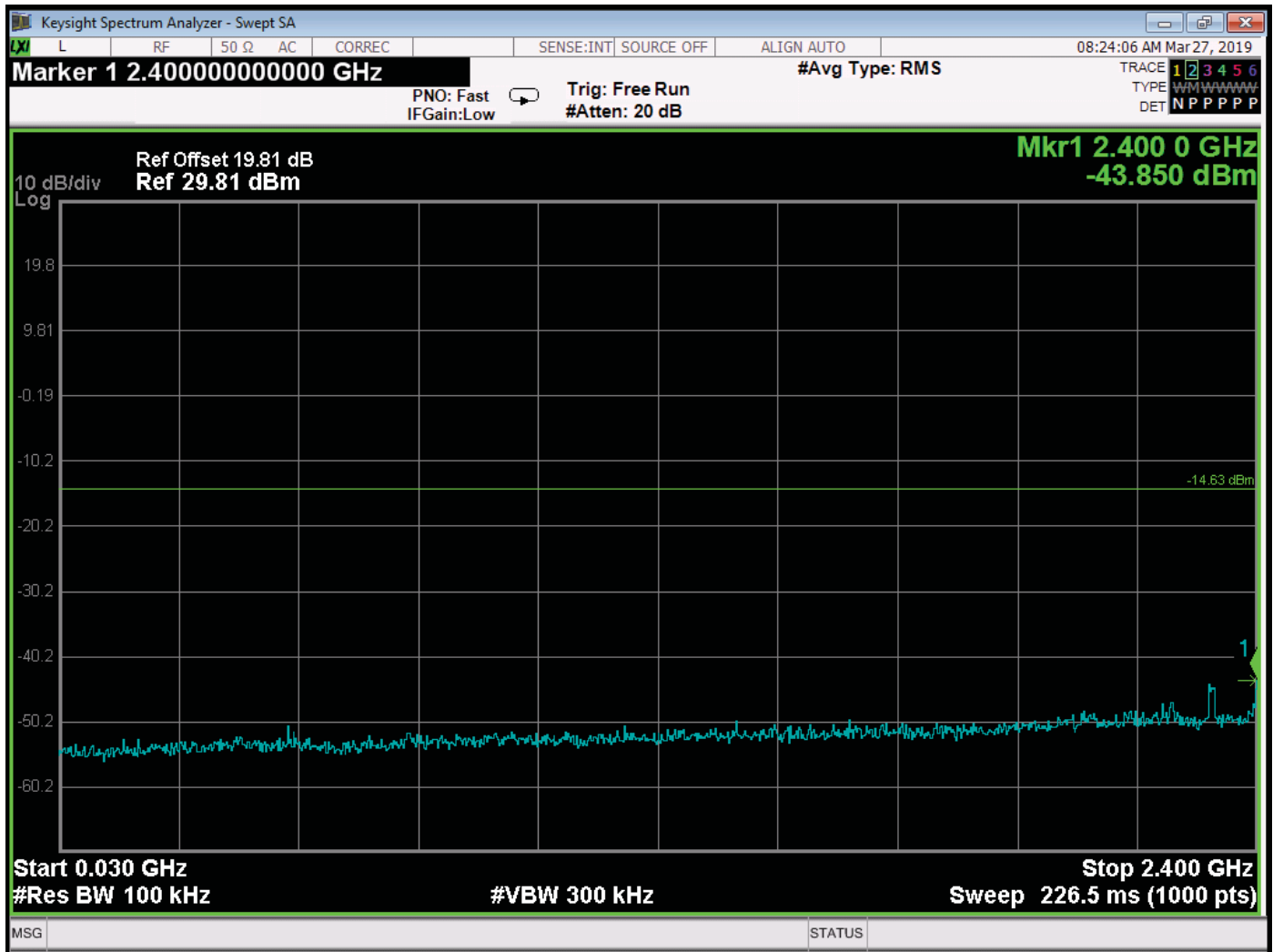


**EMISSIONS IN  
NON-RESRTICTED BANDS  
*DATA SHEETS***

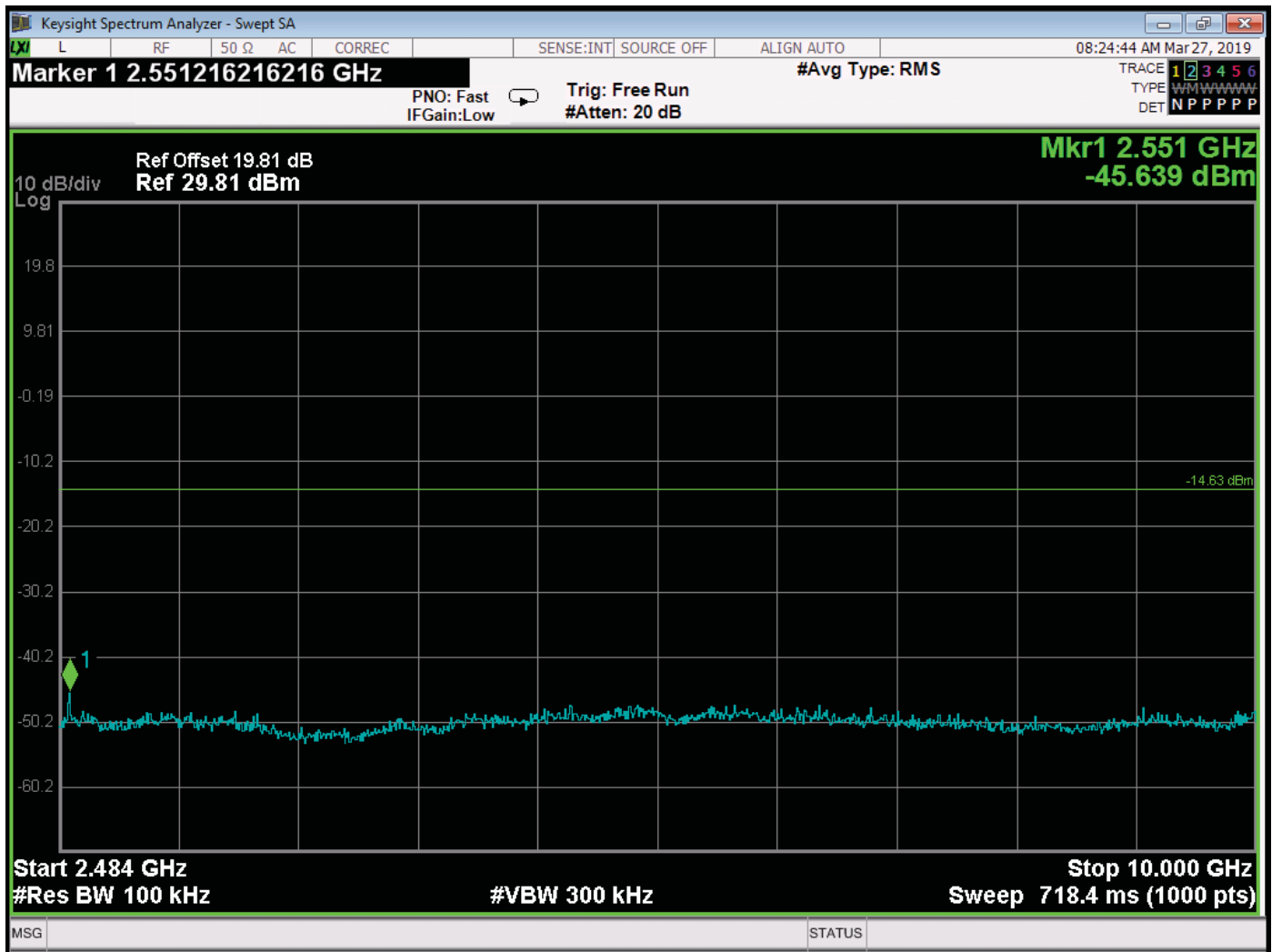




RF Antenna Conducted – Reference Level – 2430 MHz – 10 MHz BW – Port #1



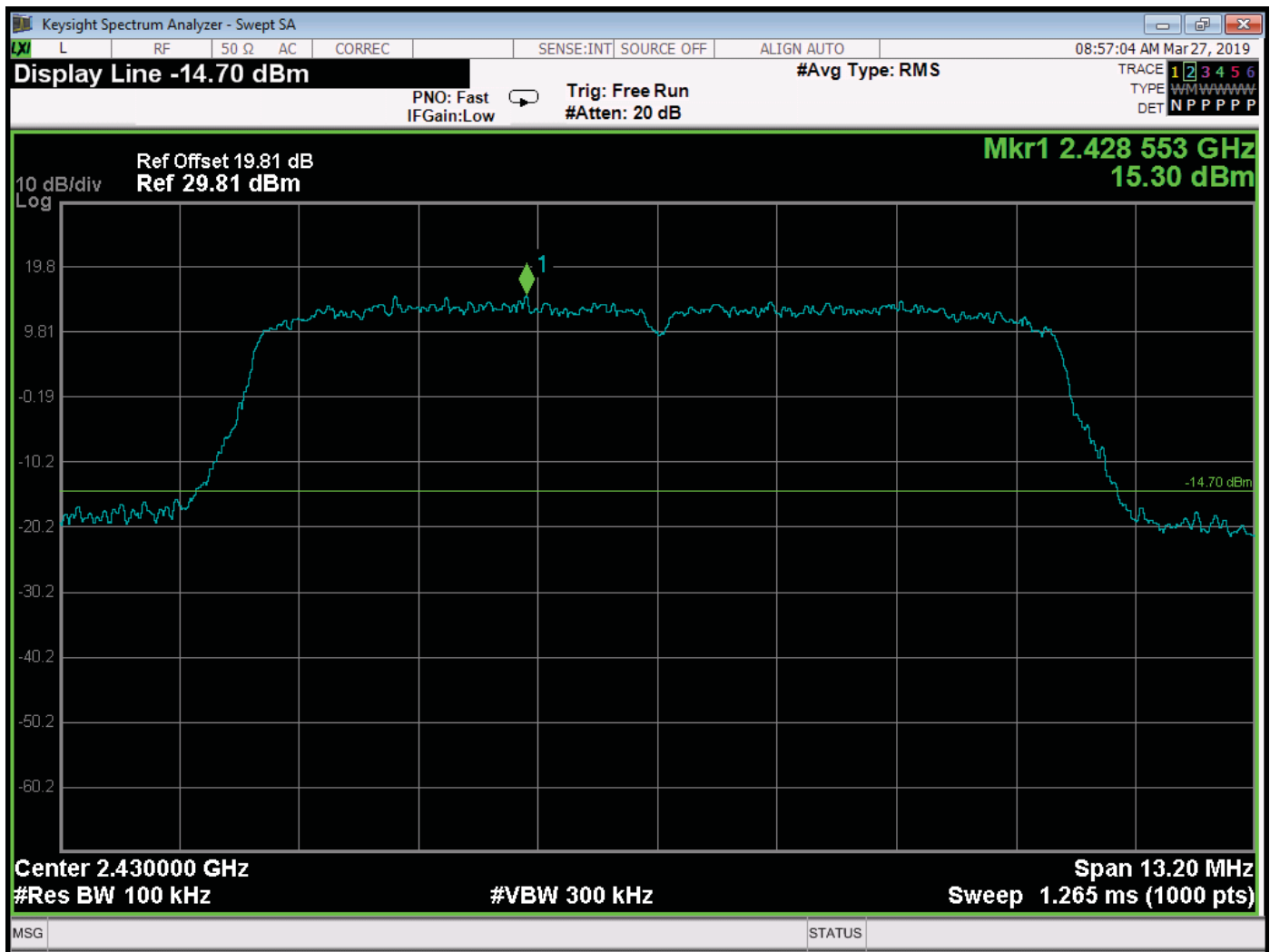
RF Antenna Conducted – 30 MHz to 2.4 GHz – 2430 MHz – 10 MHz BW – Port #1



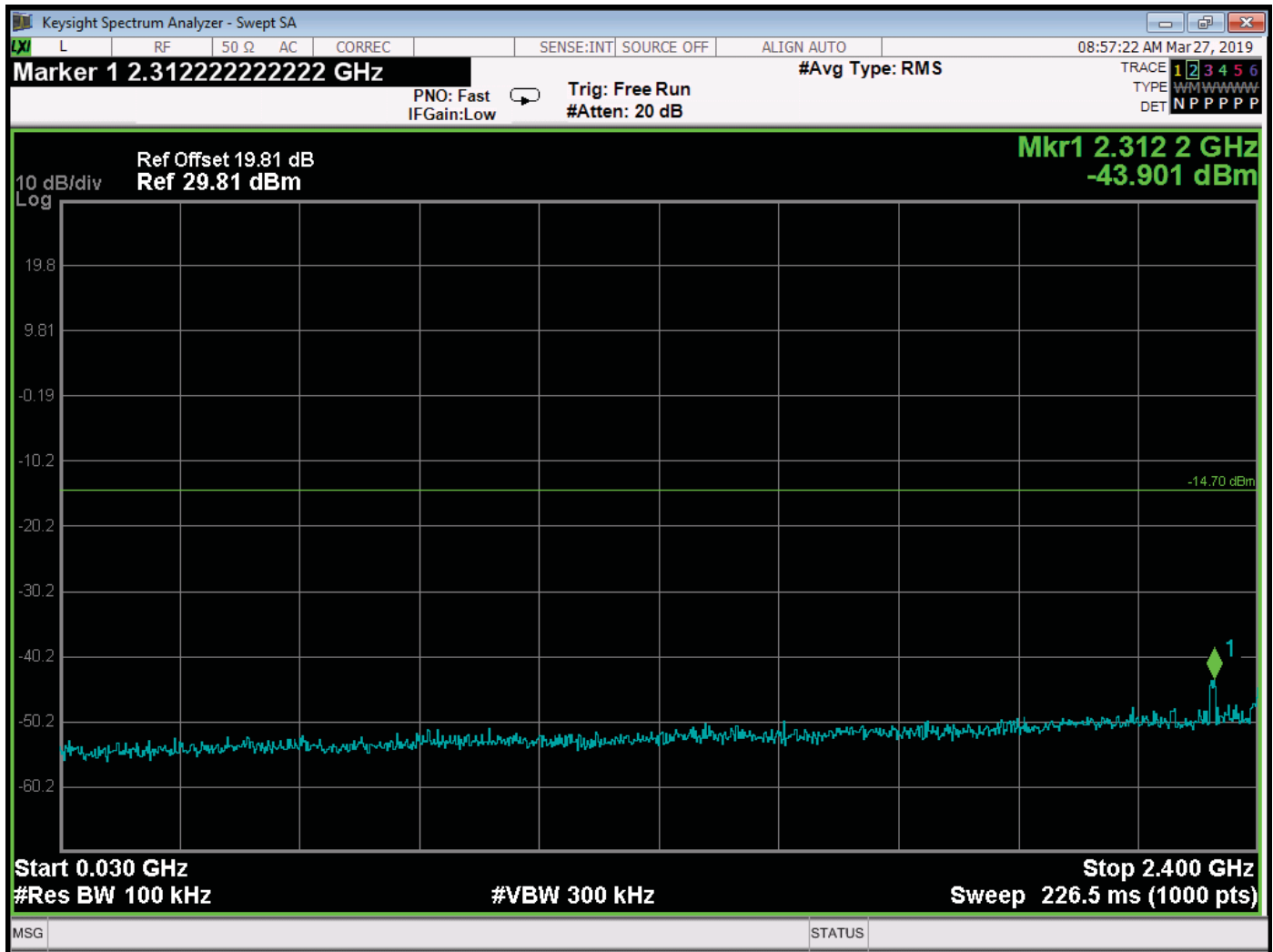
RF Antenna Conducted – 2483.5 MHz to 10 GHz – 2430 MHz – 10 MHz BW – Port #1



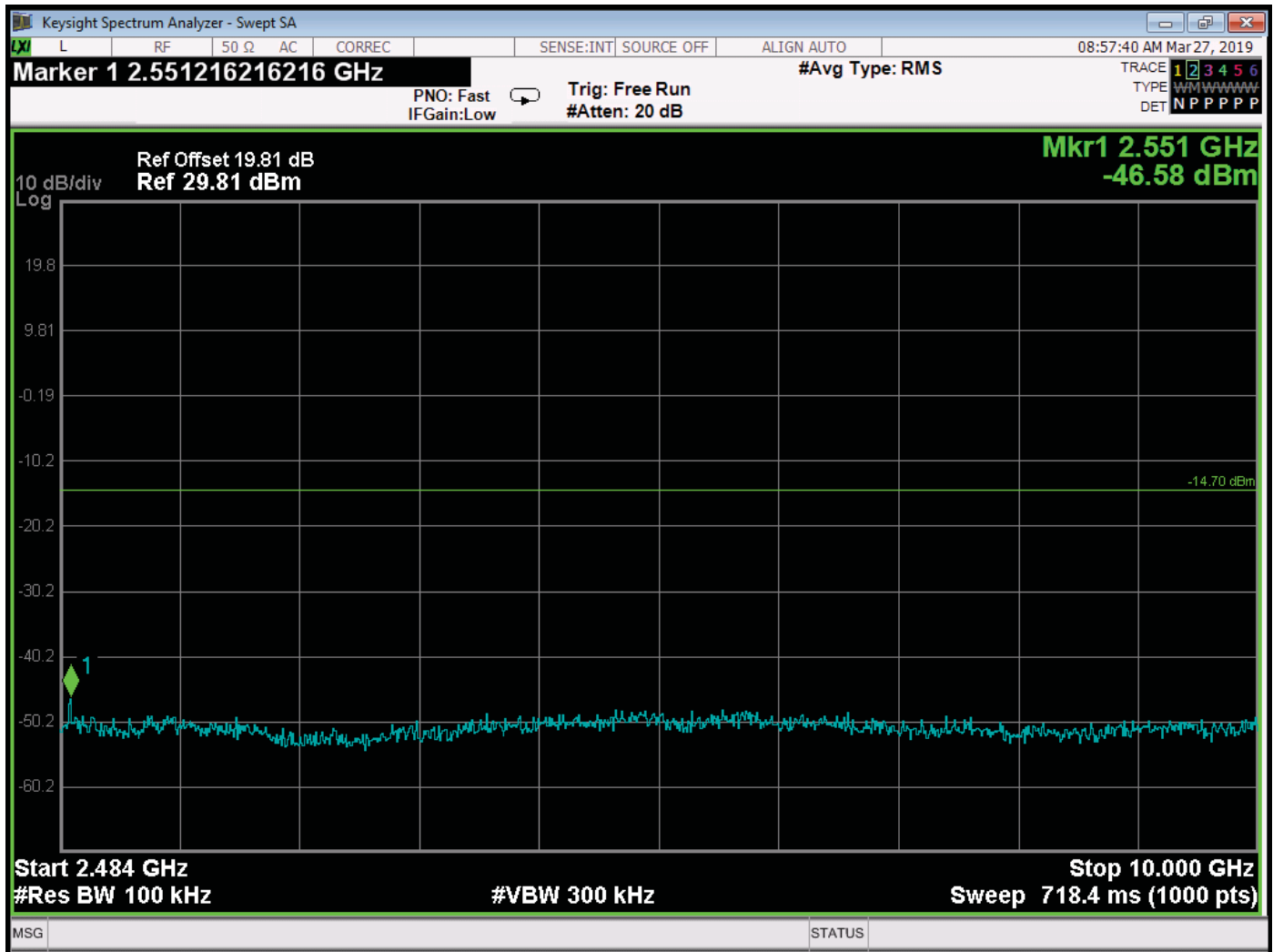
RF Antenna Conducted – 10 GHz to 25 GHz – 2430 MHz – 10 MHz BW – Port #1



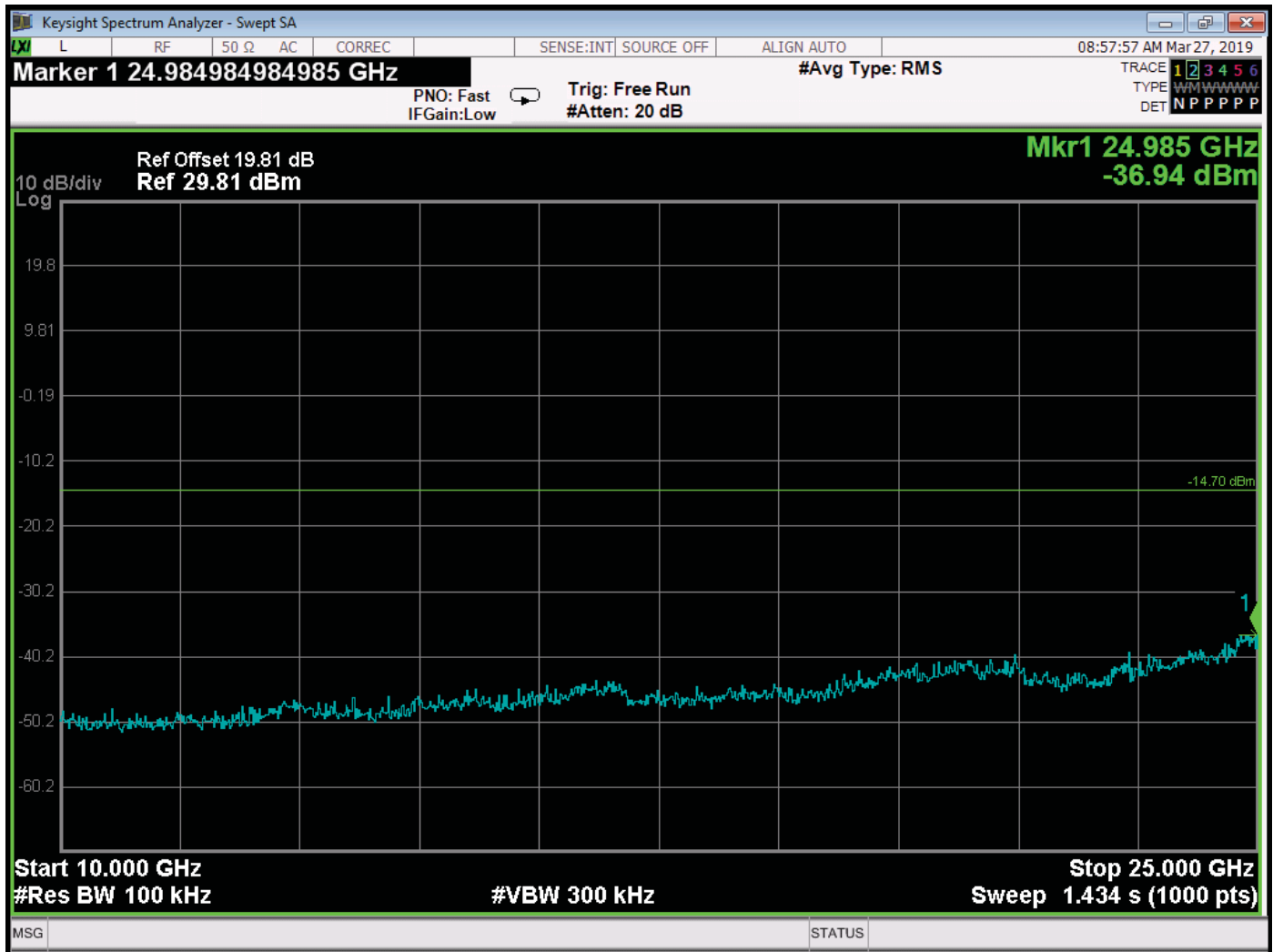
RF Antenna Conducted – Reference Level – 2430 MHz – 10 MHz BW – Port #2



RF Antenna Conducted – 30 MHz to 2.4 GHz – 2430 MHz – 10 MHz BW – Port #2

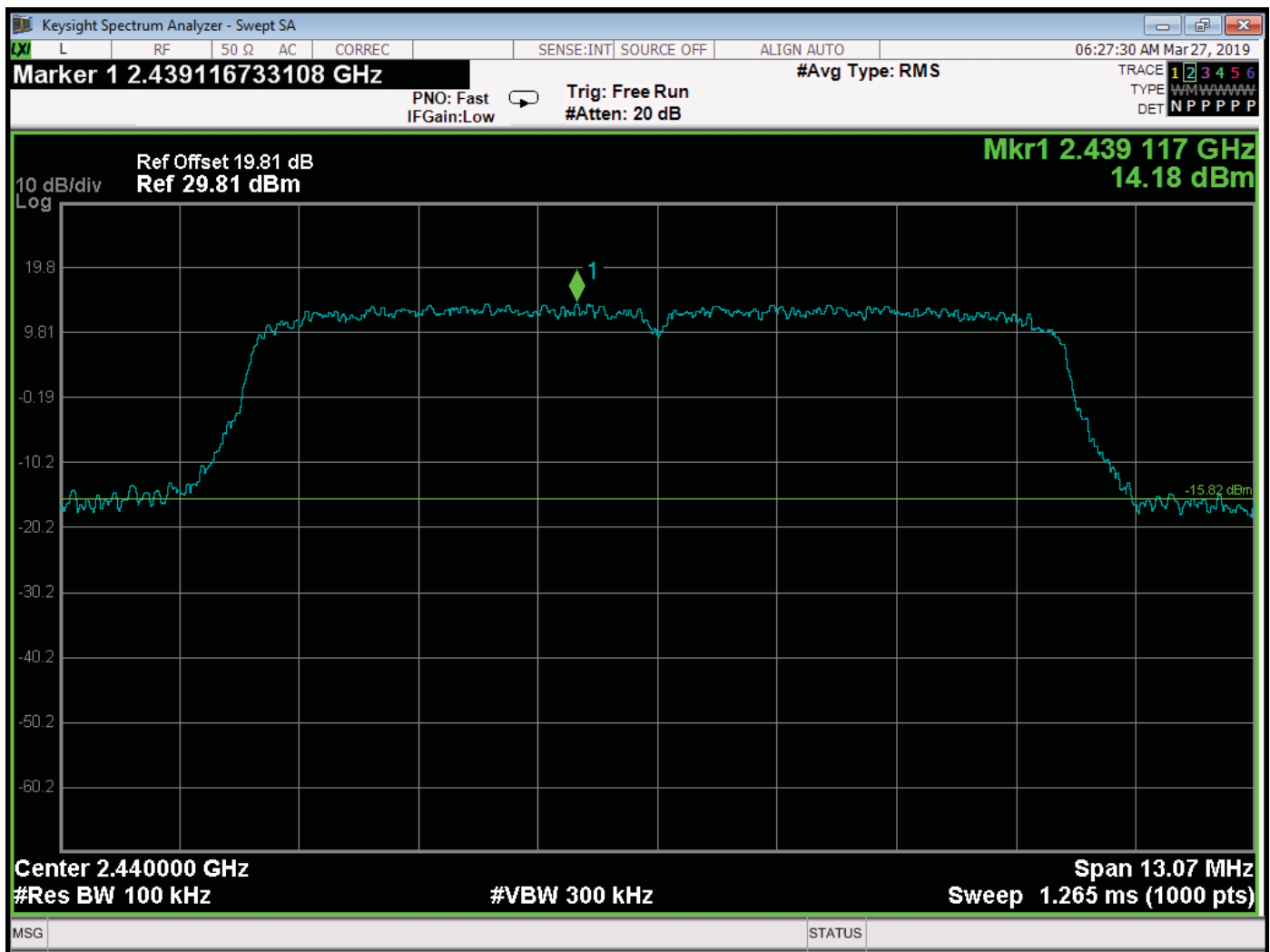


RF Antenna Conducted – 2483.5 MHz to 10 GHz – 2430 MHz – 10 MHz BW – Port #2

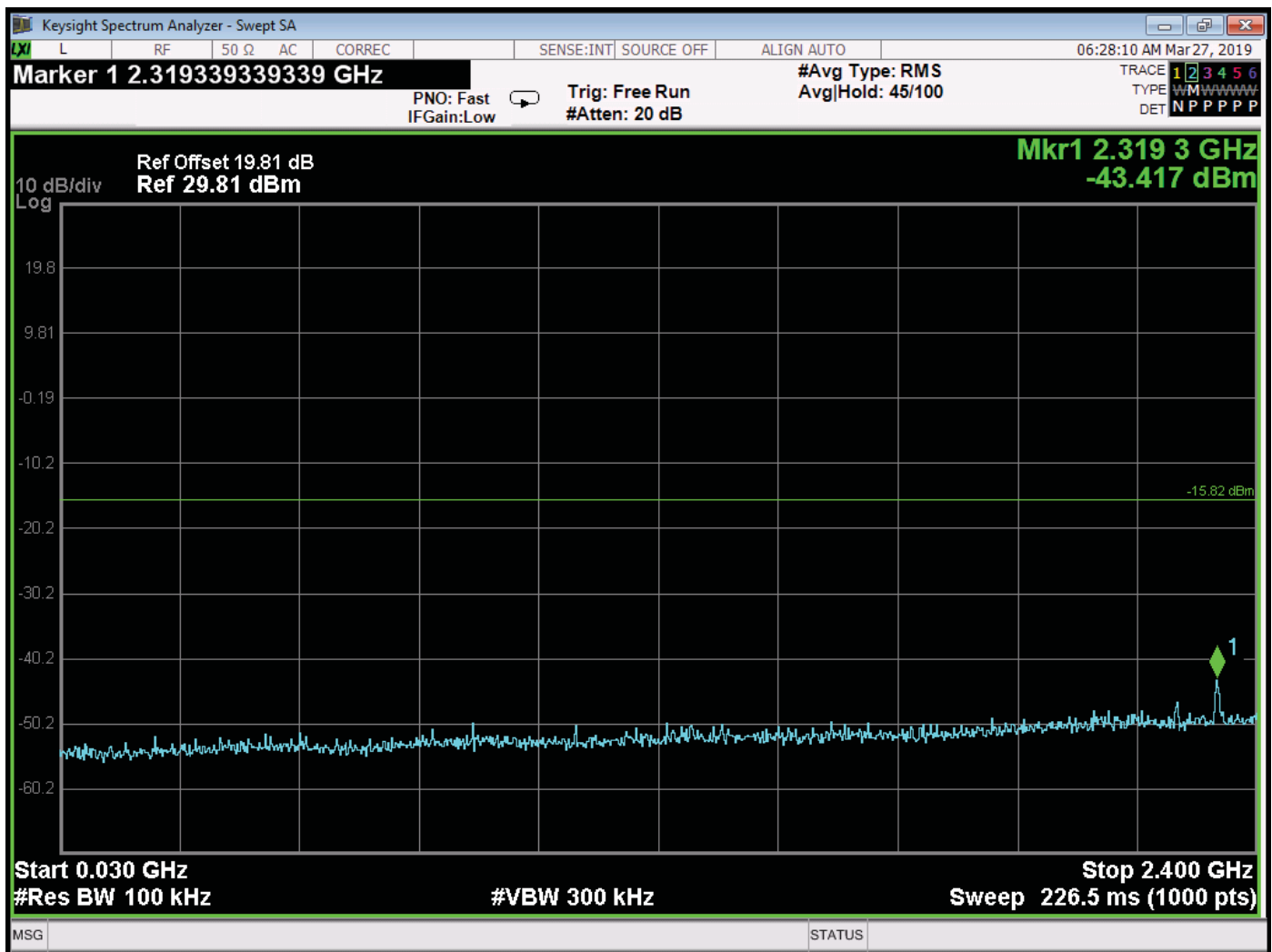


RF Antenna Conducted – 10 GHz to 25 GHz – 2430 MHz – 10 MHz BW – Port #2

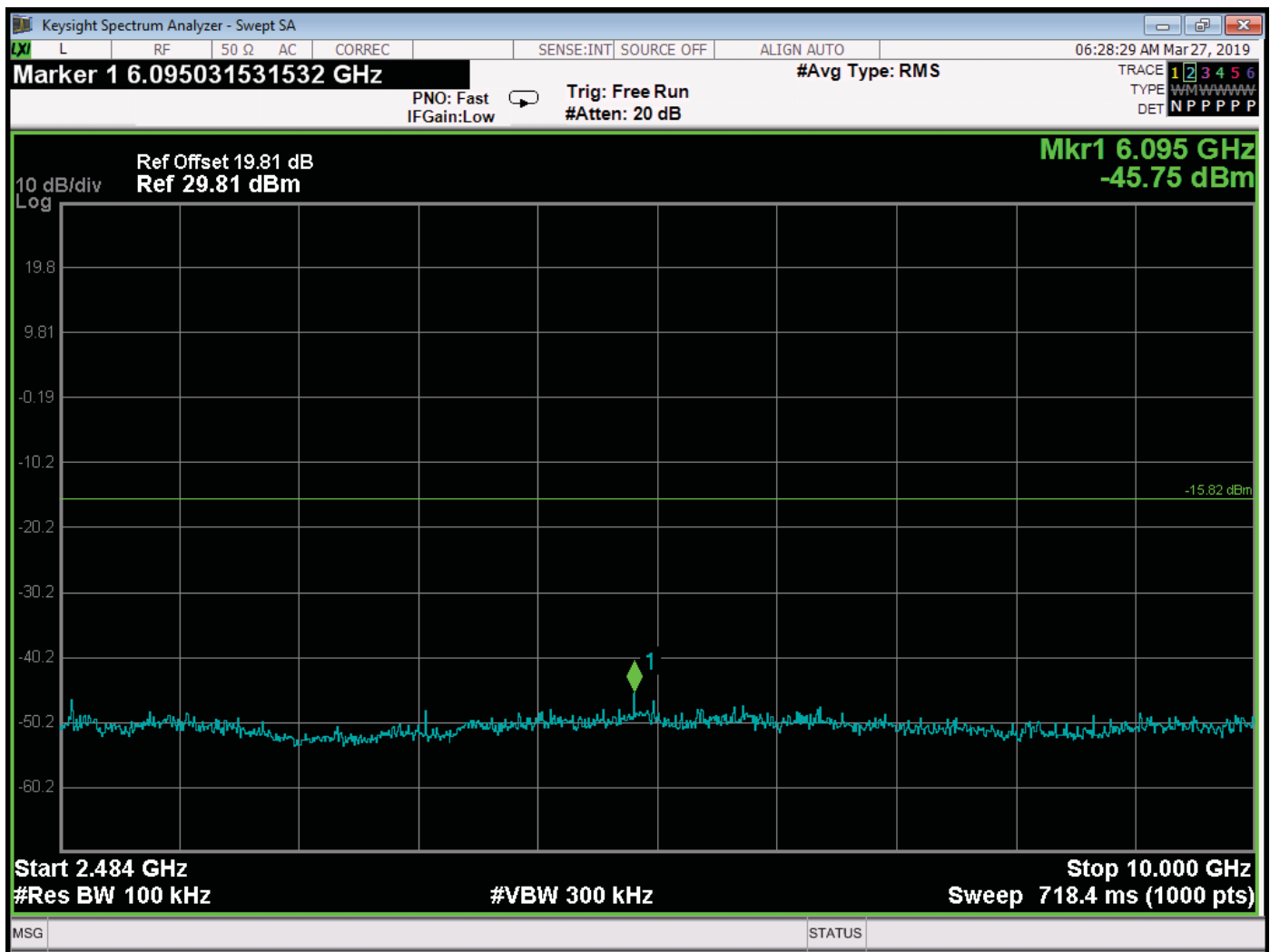




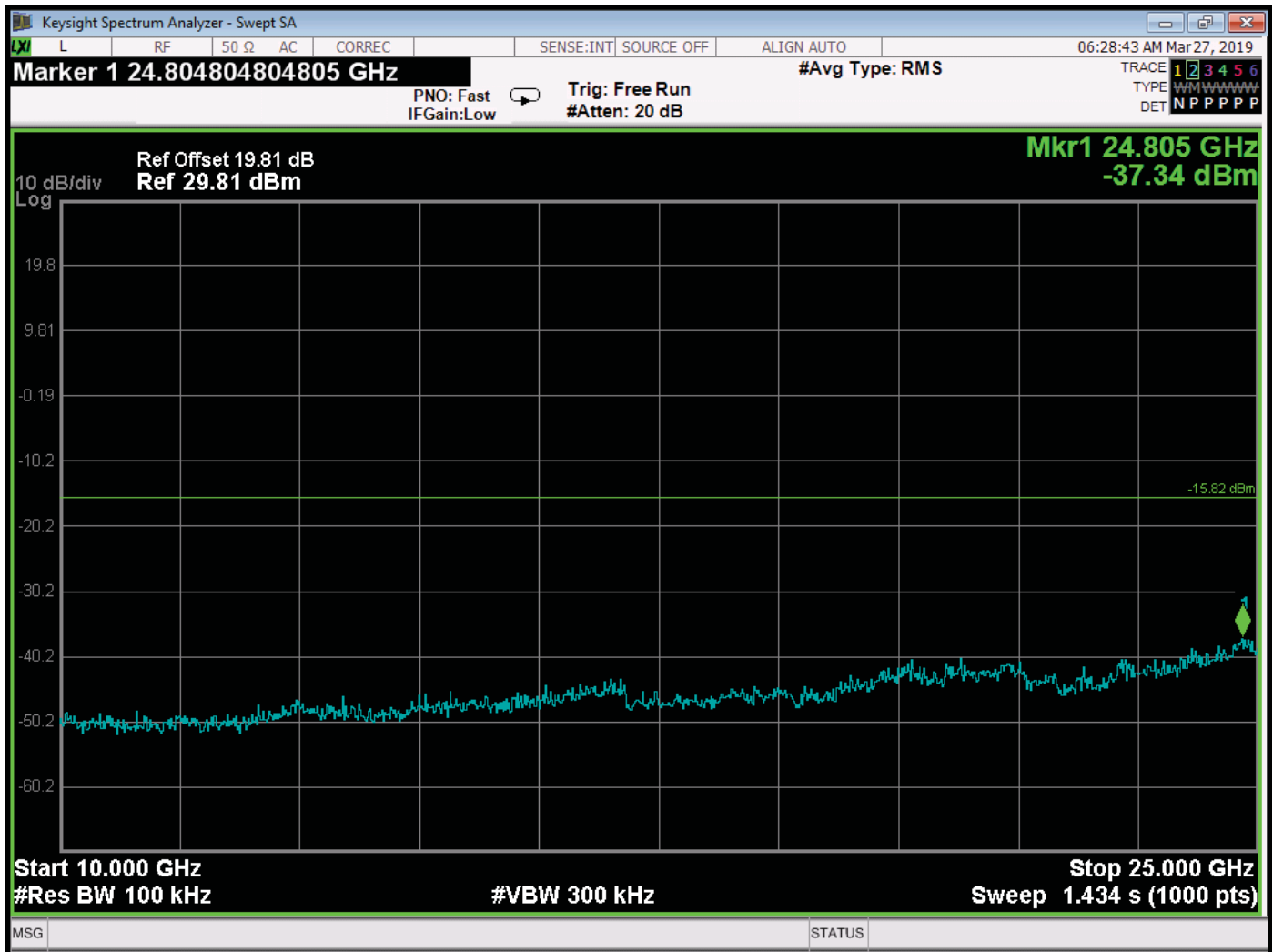
RF Antenna Conducted – Reference Level – 2440 MHz – 10 MHz BW – Port #1



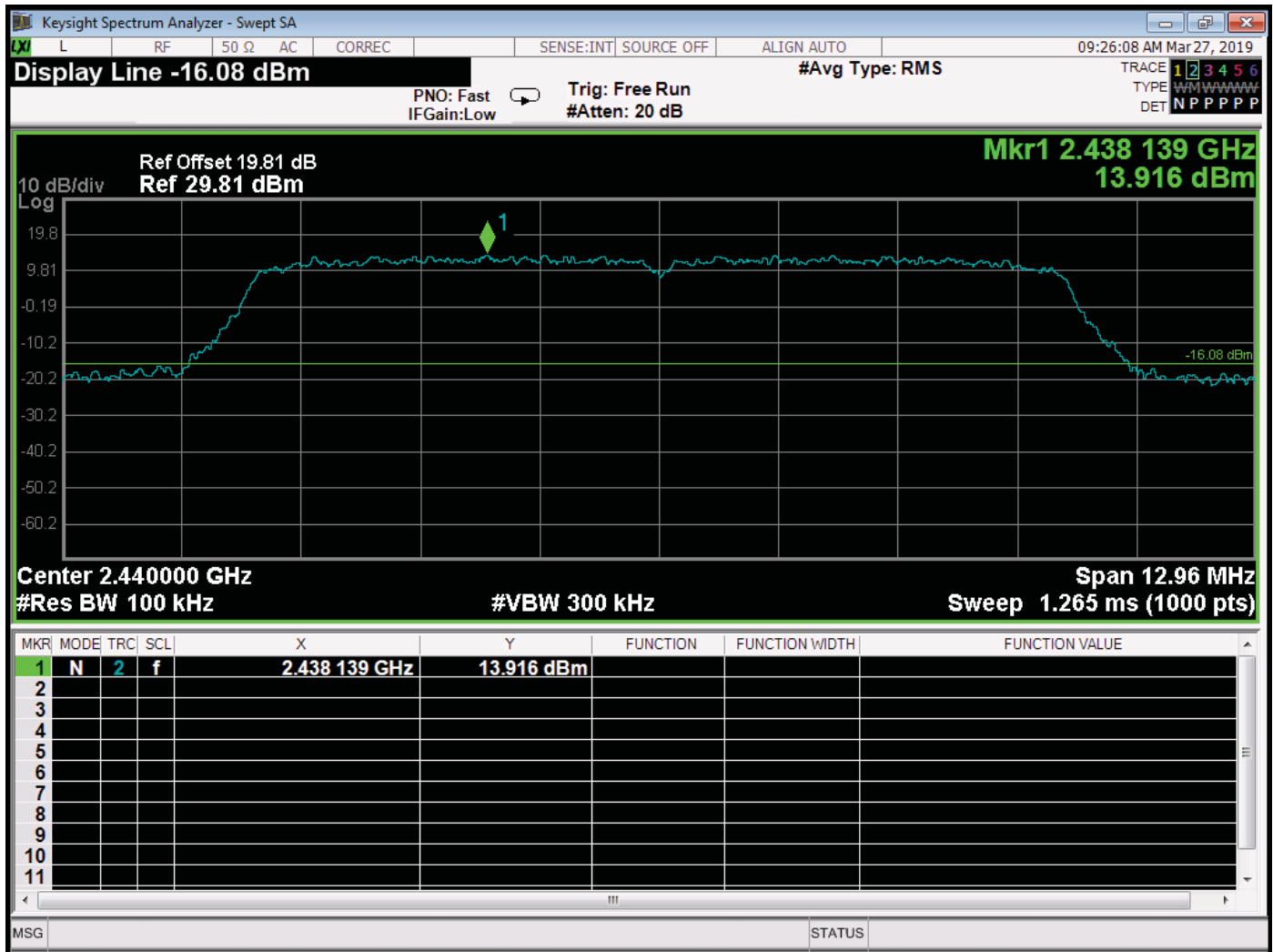
RF Antenna Conducted – 30 MHz to 2.4 GHz – 2440 MHz – 10 MHz BW – Port #1



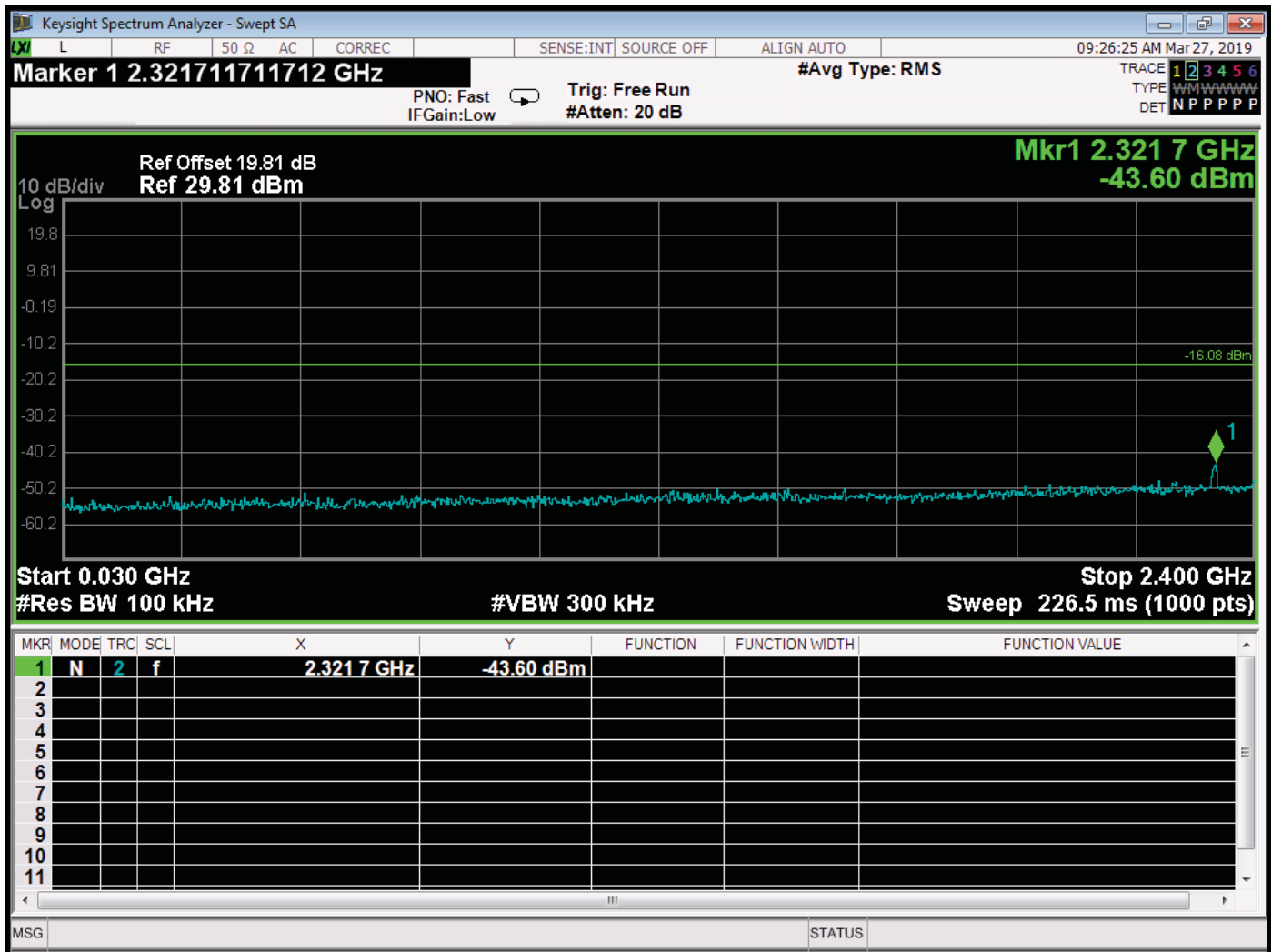
RF Antenna Conducted – 2483.5 MHz to 10 GHz – 2440 MHz – 10 MHz BW – Port #1



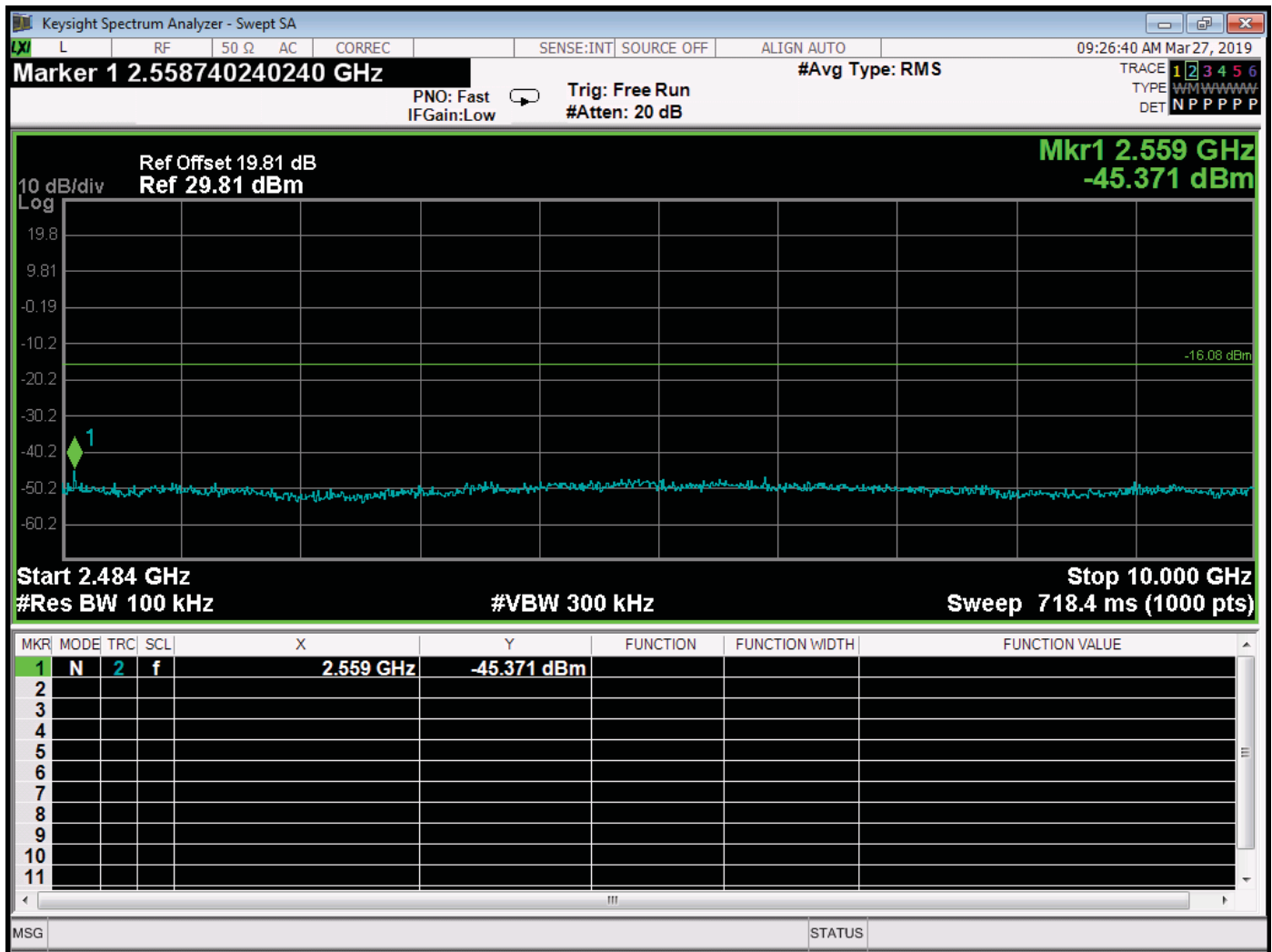
RF Antenna Conducted – 10 GHz to 25 GHz – 2440 MHz – 10 MHz BW – Port #1



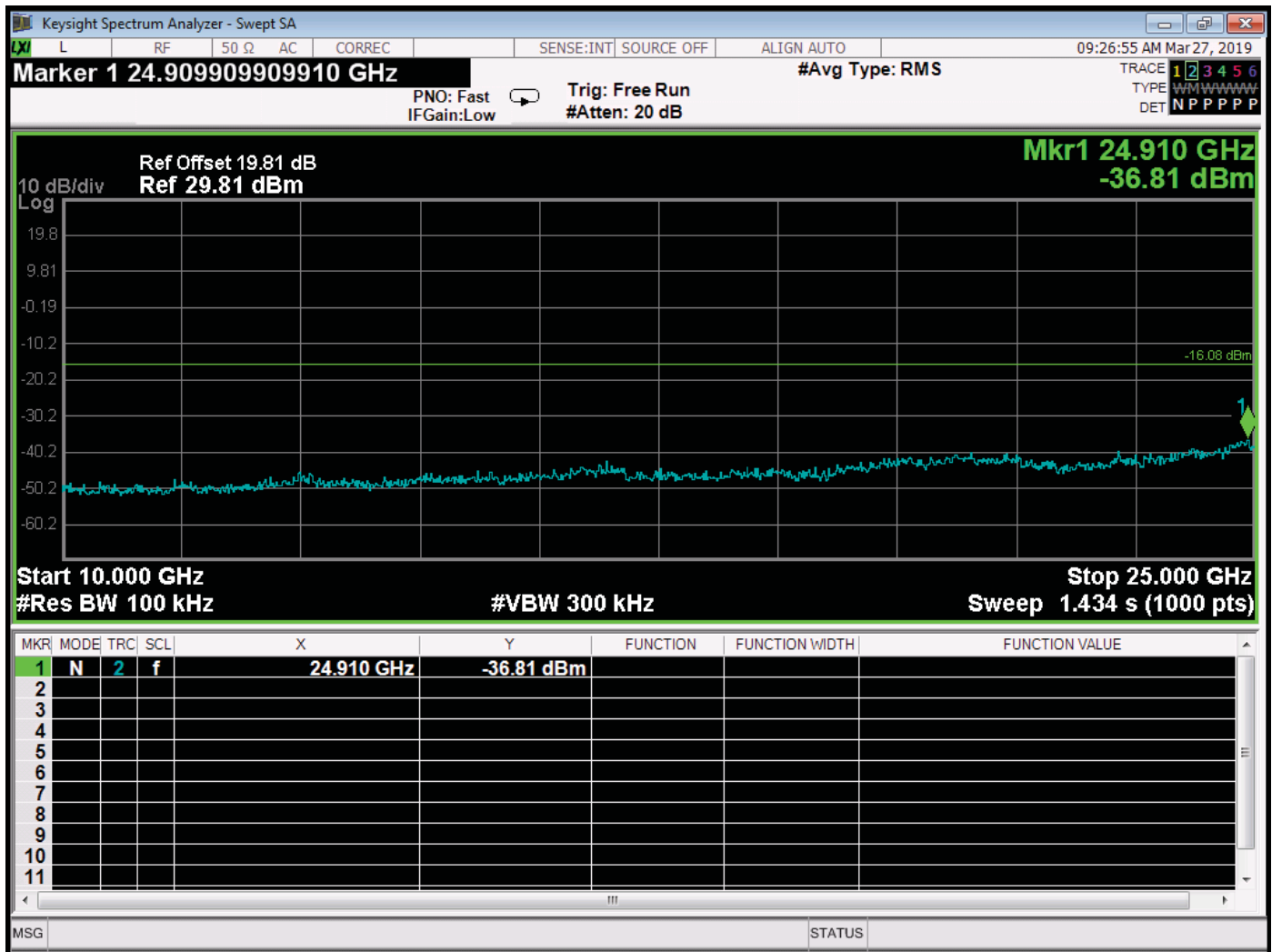
RF Antenna Conducted – Reference Level – 2440 MHz – 10 MHz BW – Port #2



RF Antenna Conducted – 30 MHz to 2.4 GHz – 2440 MHz – 10 MHz BW – Port #2

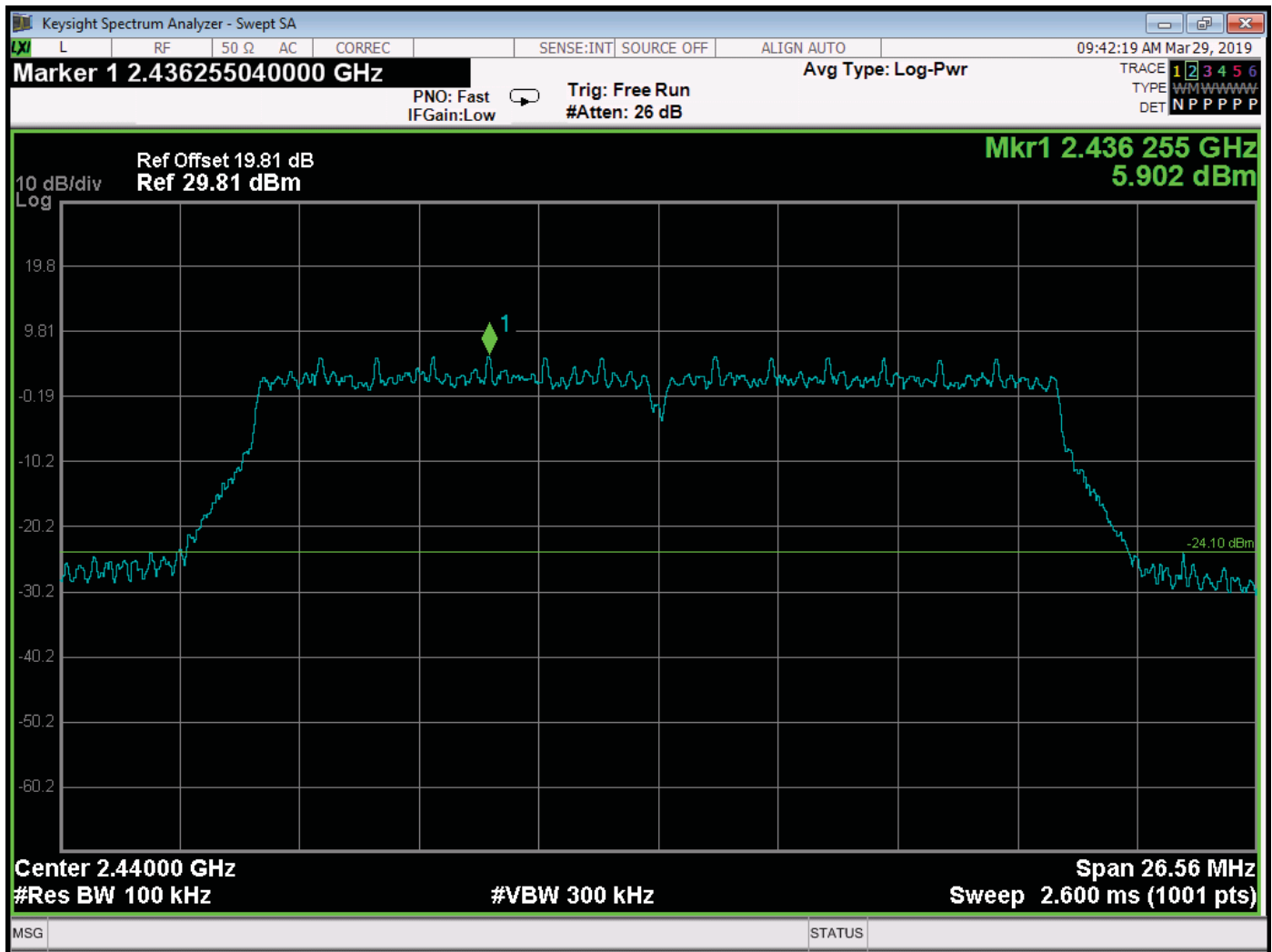


RF Antenna Conducted – 2483.5 MHz to 10 GHz – 2440 MHz – 10 MHz BW – Port #2

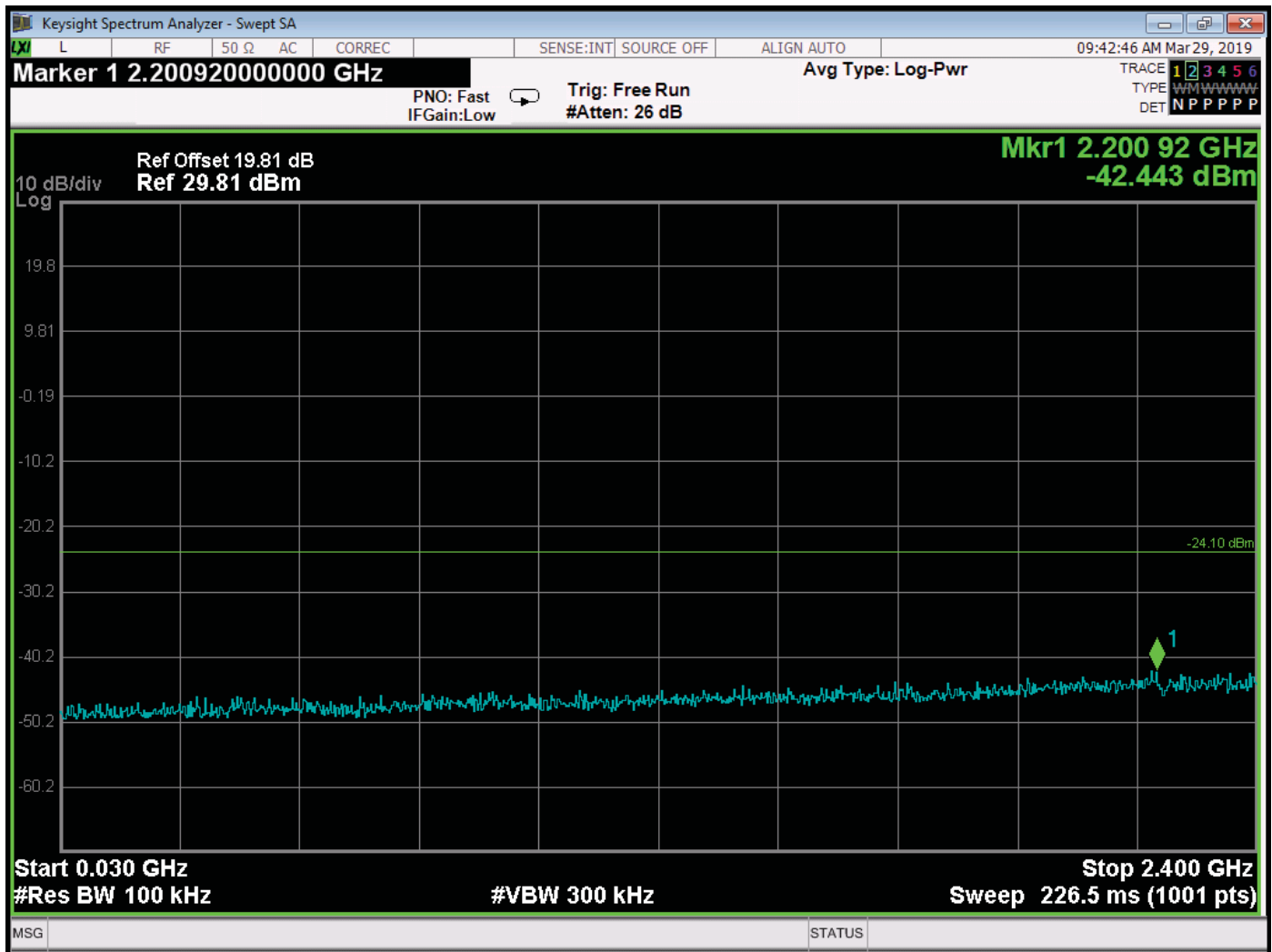


RF Antenna Conducted – 10 GHz to 25 GHz – 2440 MHz – 10 MHz BW – Port #2

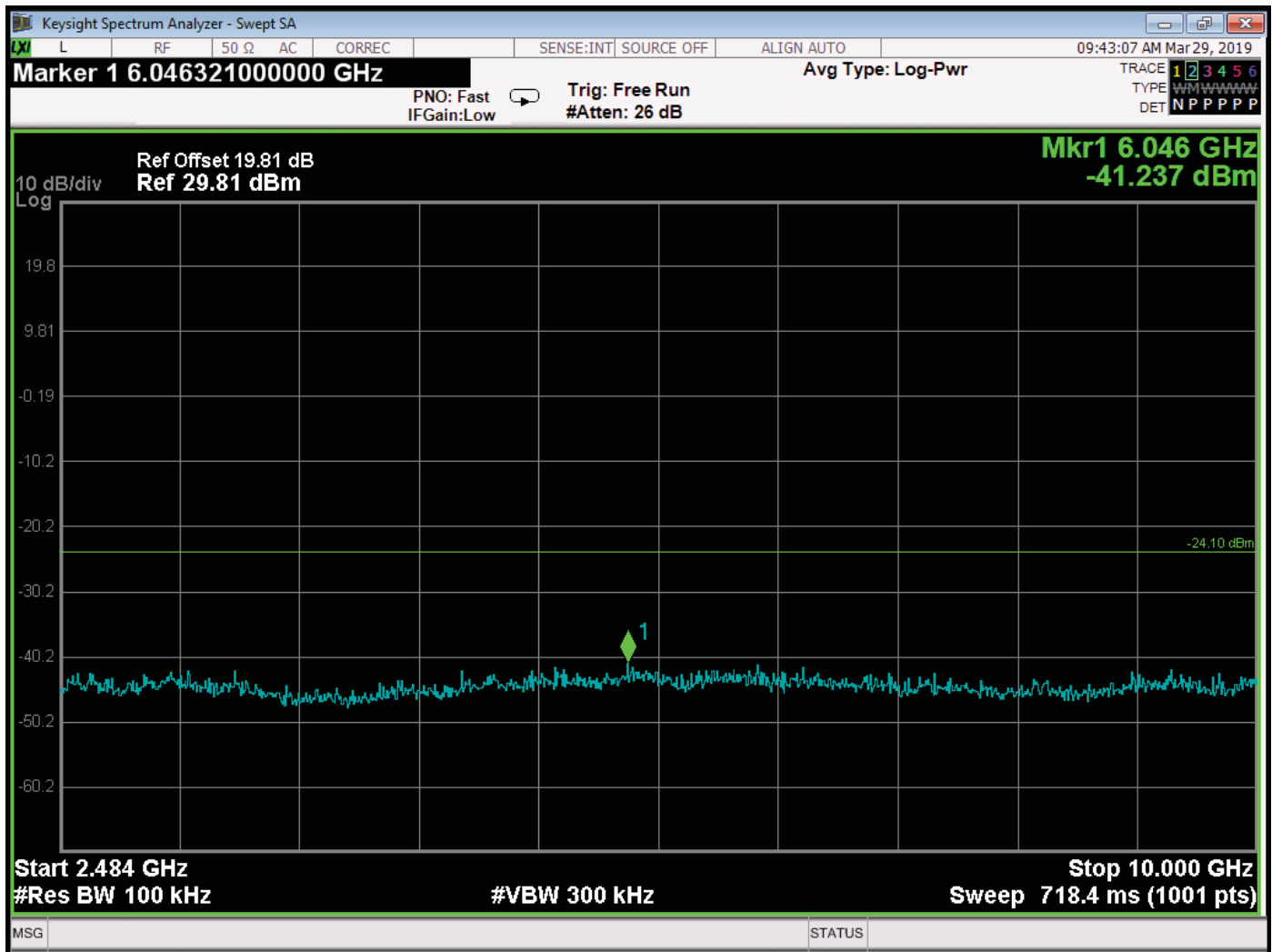




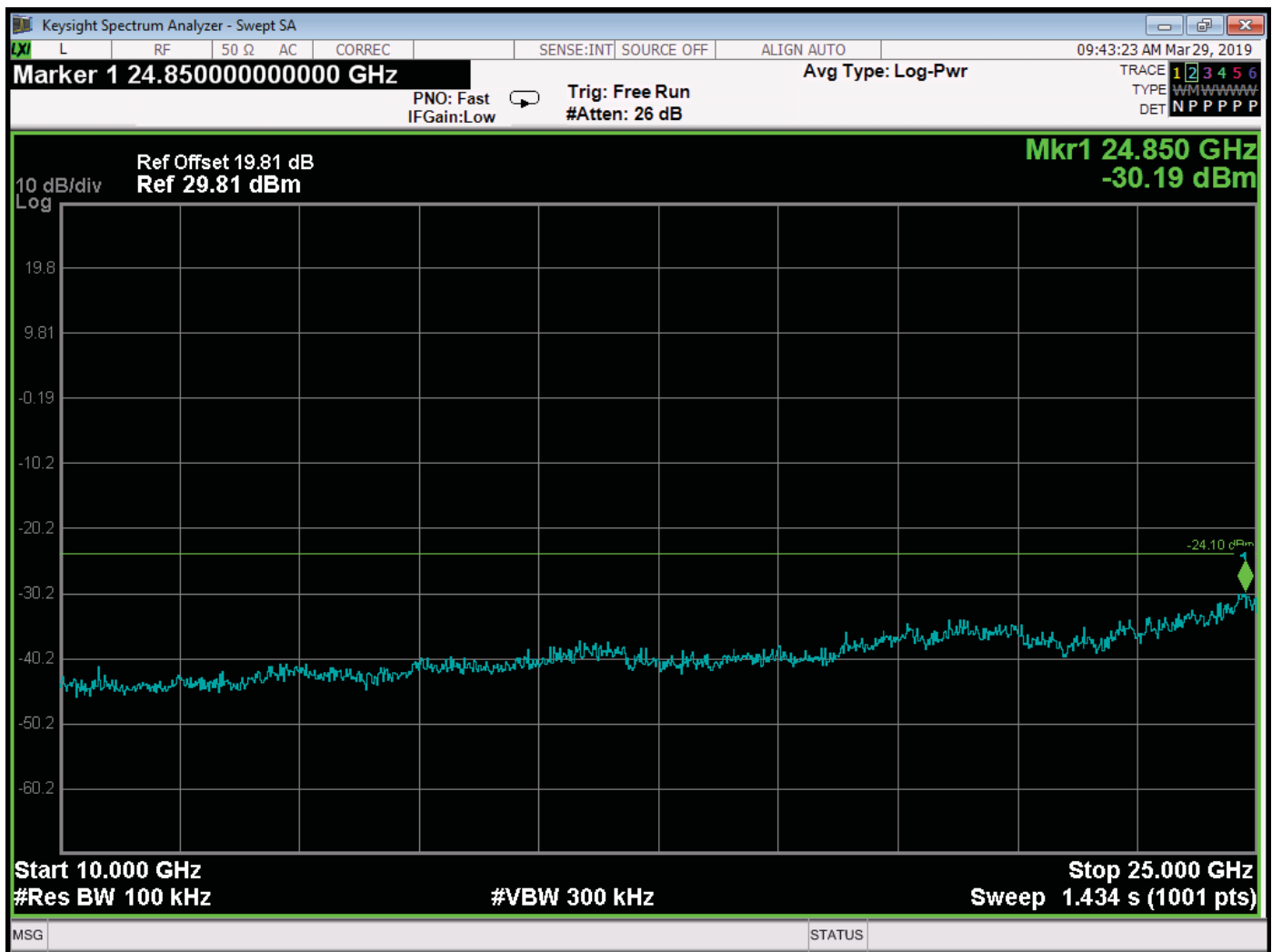
RF Antenna Conducted – Reference Level – 2440 MHz – 20 MHz BW – Port #1



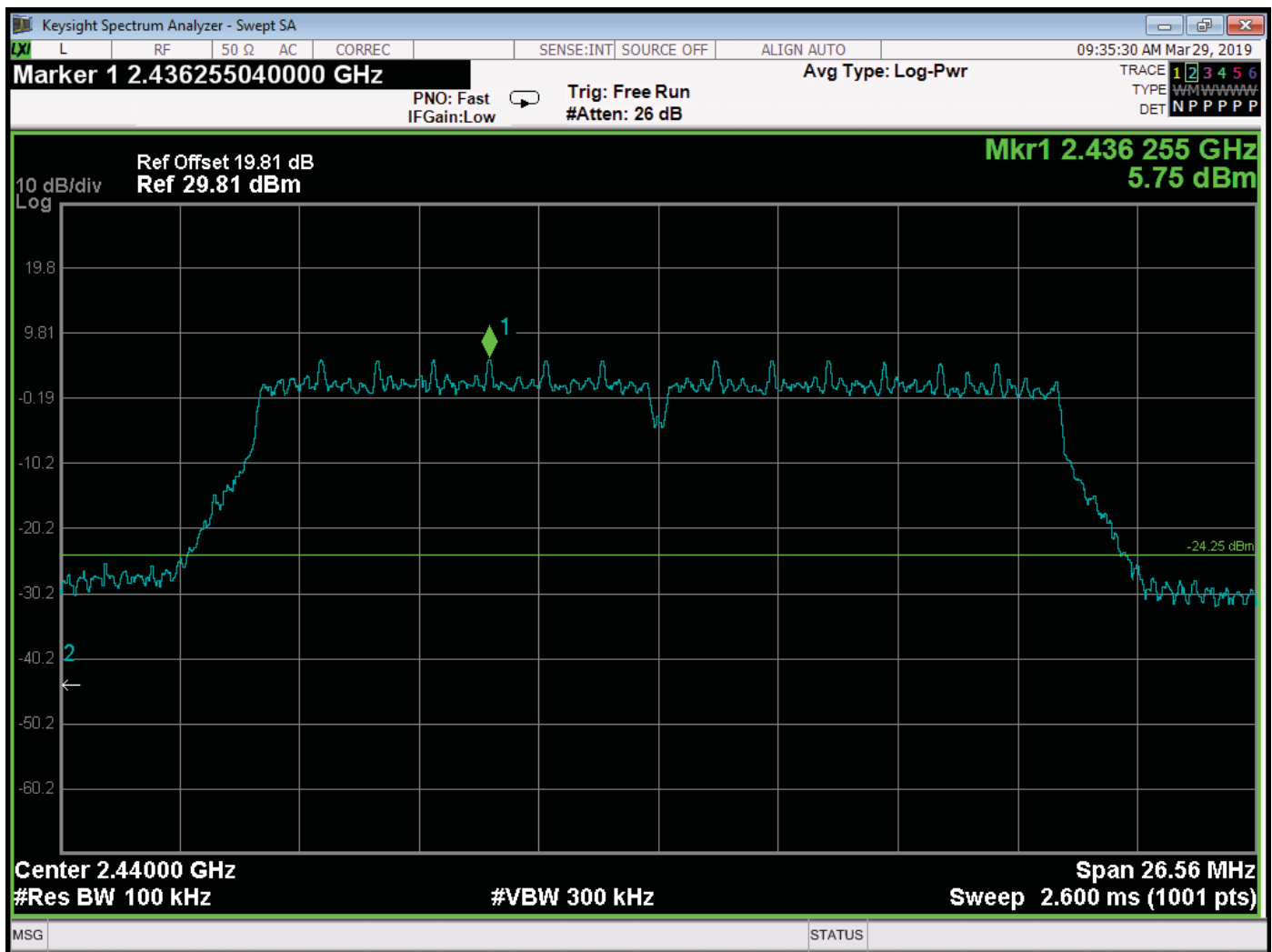
RF Antenna Conducted – 30 MHz to 2.4 GHz – 2440 MHz – 20 MHz BW – Port #1



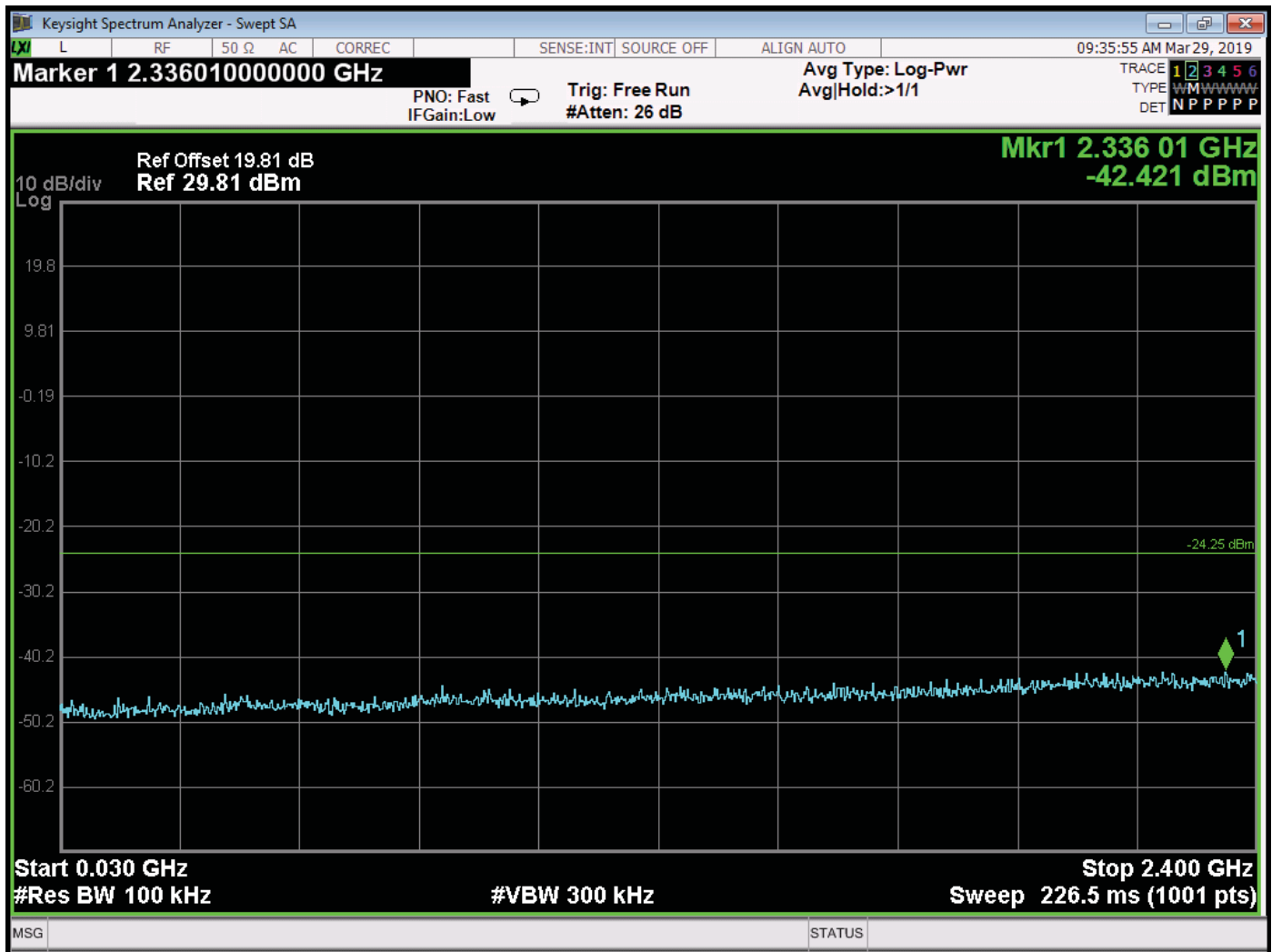
RF Antenna Conducted – 2483.5 MHz to 10 GHz – 2440 MHz – 20 MHz BW – Port #1



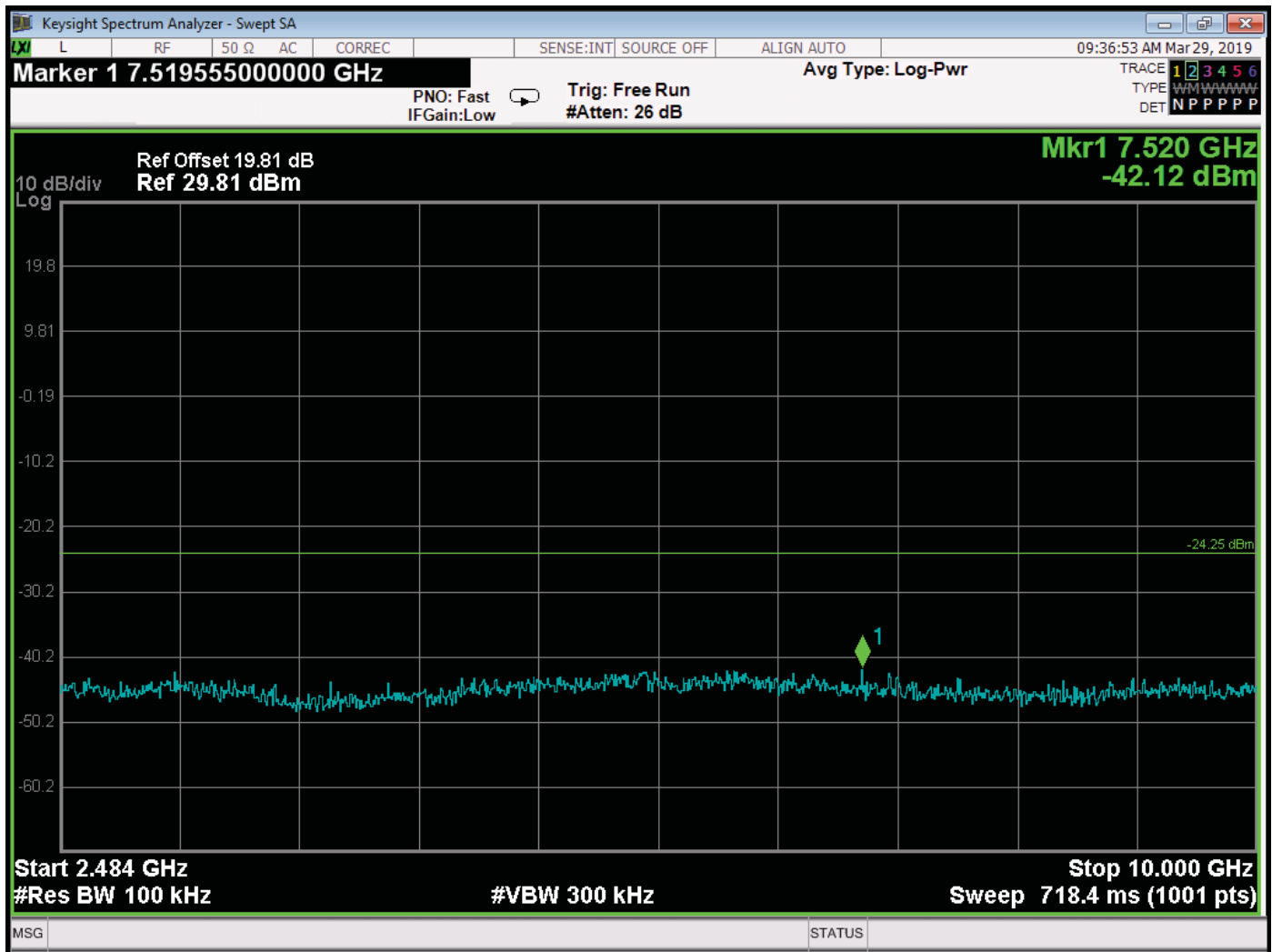
RF Antenna Conducted – 10 GHz to 25 GHz – 2440 MHz – 20 MHz BW – Port #1



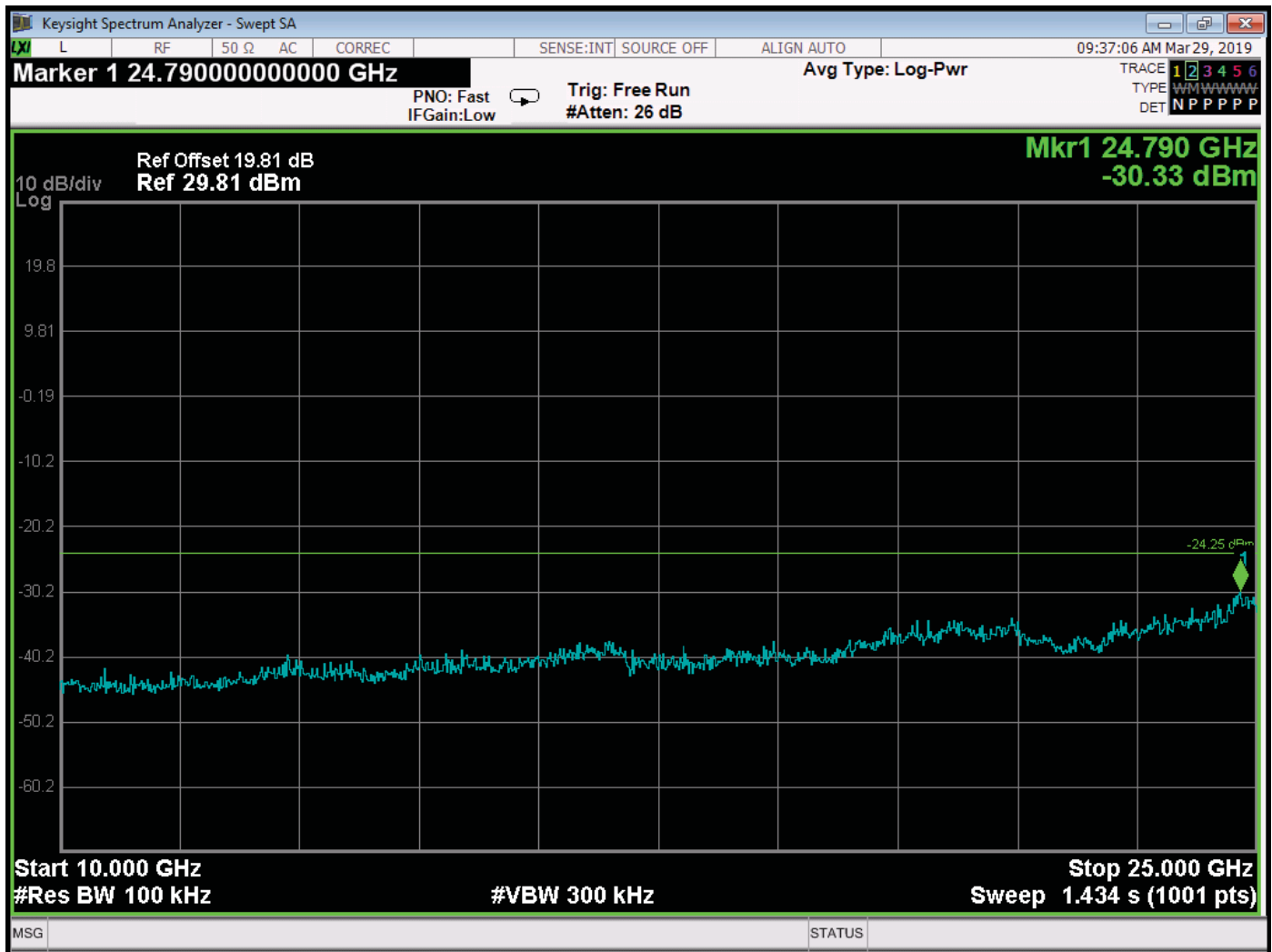
RF Antenna Conducted – Reference Level – 2440 MHz – 20 MHz BW – Port #2



RF Antenna Conducted – 30 MHz to 2.4 GHz – 2440 MHz – 20 MHz BW – Port #2



RF Antenna Conducted – 2483.5 MHz to 10 GHz – 2440 MHz – 20 MHz BW – Port #2



RF Antenna Conducted – 10 GHz to 25 GHz– 2440 MHz – 20 MHz BW – Port #2



**SILVUS TECHNOLOGIES****STREAMCASTER 4200 TACTICAL MIMO RADIO****MODEL: SC4210E-245-EB****EMISSIONS IN NON-RESTRICTED BANDS**

| <b>FREQUENCY<br/>(MHz)</b> | <b>LEVEL<br/>(dBm)</b> | <b>Limit*<br/>(dBm)</b> | <b>Margin<br/>(dB)</b> |
|----------------------------|------------------------|-------------------------|------------------------|
| 24790                      | -30.33                 | -24.25                  | -6.08                  |
| 24850                      | -30.19                 | -24.10                  | -6.09                  |
| 24910                      | -36.81                 | -16.08                  | -20.73                 |

Note: All two ports were investigated during the testing. The three highest non-restricted emissions are reported.

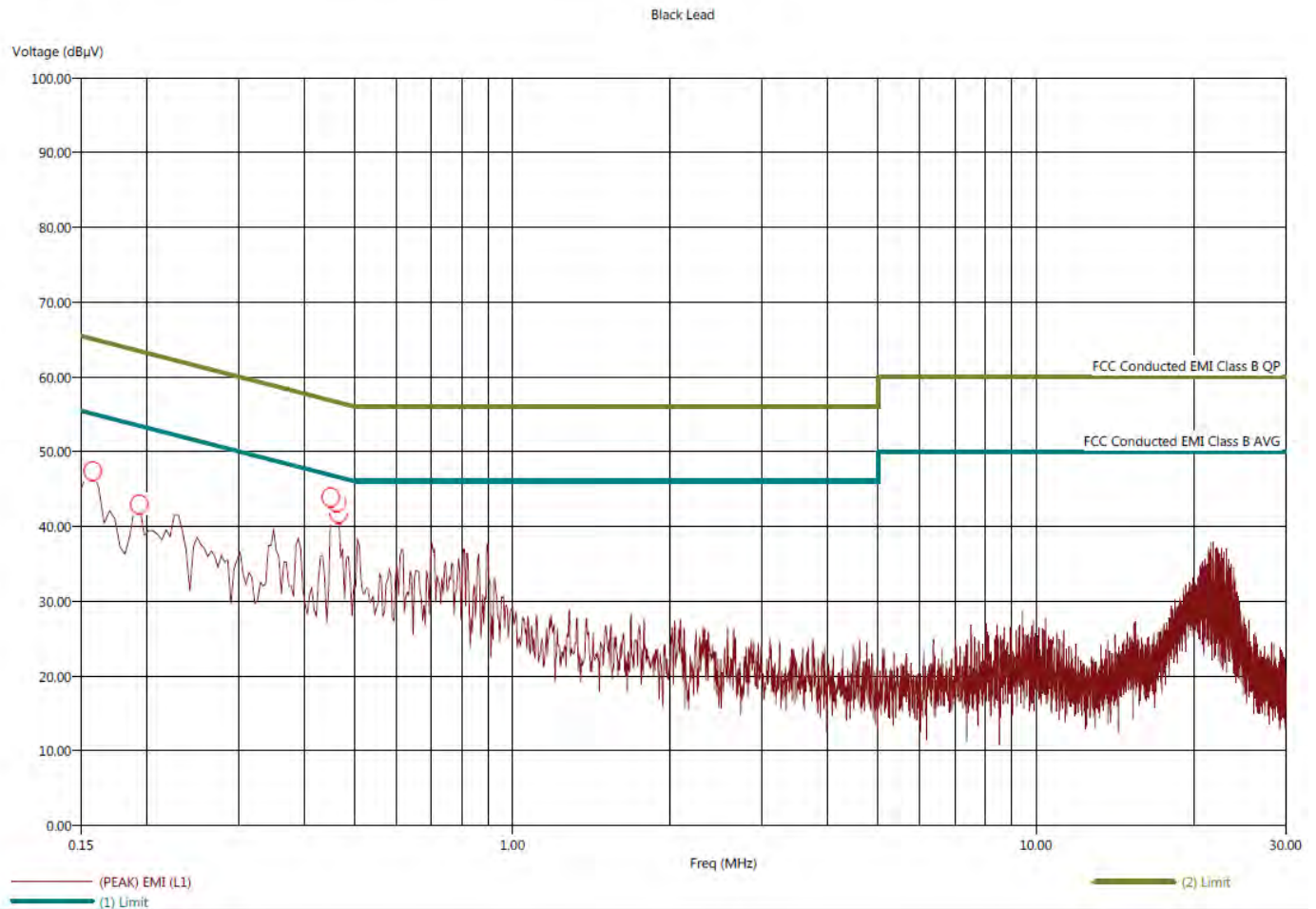
\*The Limit is based on 30 dB below the reference levels obtained on the previous pages.



***CONDUCTED EMISSIONS  
DATA SHEETS***

Title: FCC Class B and RSS-GEN - Black Lead  
File: 1 - Pre-Scan - Black Lead - 4 dBi Antennas.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 20 MHz BW - 4 dBi Antennas  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A

3/29/2019 3:41:17 PM  
Sequence: Preliminary Scan



Title: FCC Class B and RSS-GEN - Black Lead

File: 1 - Final Scan - Black Lead - 4 dBi Antenna.set

Operator: Kyle Fujimoto

EUT Type: StreamCaster 4200 Tactical MIMO Radio

EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 20 MHz BW - 4 dBi Antennas

Company: Silvus Technologies, Inc.

Model: SC4210E-245-EB

S/N: N/A

3/29/2019 3:43:11 PM  
Sequence: Final Measurements

| Black Lead    |                      |                     |                             |                            |                       |               |                    |                |  |
|---------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|---------------|--------------------|----------------|--|
| Freq<br>(MHz) | (PEAK) EMI<br>(dBμV) | (AVG) EMI<br>(dBμV) | (PEAK) Margin (AVG)<br>(dB) | (AVG) Margin (AVG)<br>(dB) | (AVG) Limit<br>(dBμV) | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |  |
| 0.158         | 49.54                | 40.55               | -5.69                       | -14.68                     | 55.22                 | 0.00          | 0.41               | 9.80           |  |
| 0.194         | 47.14                | 36.20               | -6.18                       | -17.12                     | 53.33                 | 0.00          | 0.30               | 9.80           |  |
| 0.450         | 45.46                | 36.01               | -1.07                       | -10.52                     | 46.54                 | 0.00          | 0.03               | 9.71           |  |
| 0.454         | 44.91                | 31.34               | -1.80                       | -15.37                     | 46.71                 | 0.00          | 0.03               | 9.71           |  |
| 0.462         | 45.73                | 34.19               | -0.90                       | -12.44                     | 46.63                 | 0.00          | 0.03               | 9.71           |  |
| 0.466         | 45.52                | 36.36               | -1.01                       | -10.17                     | 46.53                 | 0.00          | 0.03               | 9.71           |  |



Title: FCC Class B and RSS-GEN - White Lead

File: 2 - Pre-Scan - White Lead - 4 dBi Antenna .set

Operator: Kyle Fujimoto

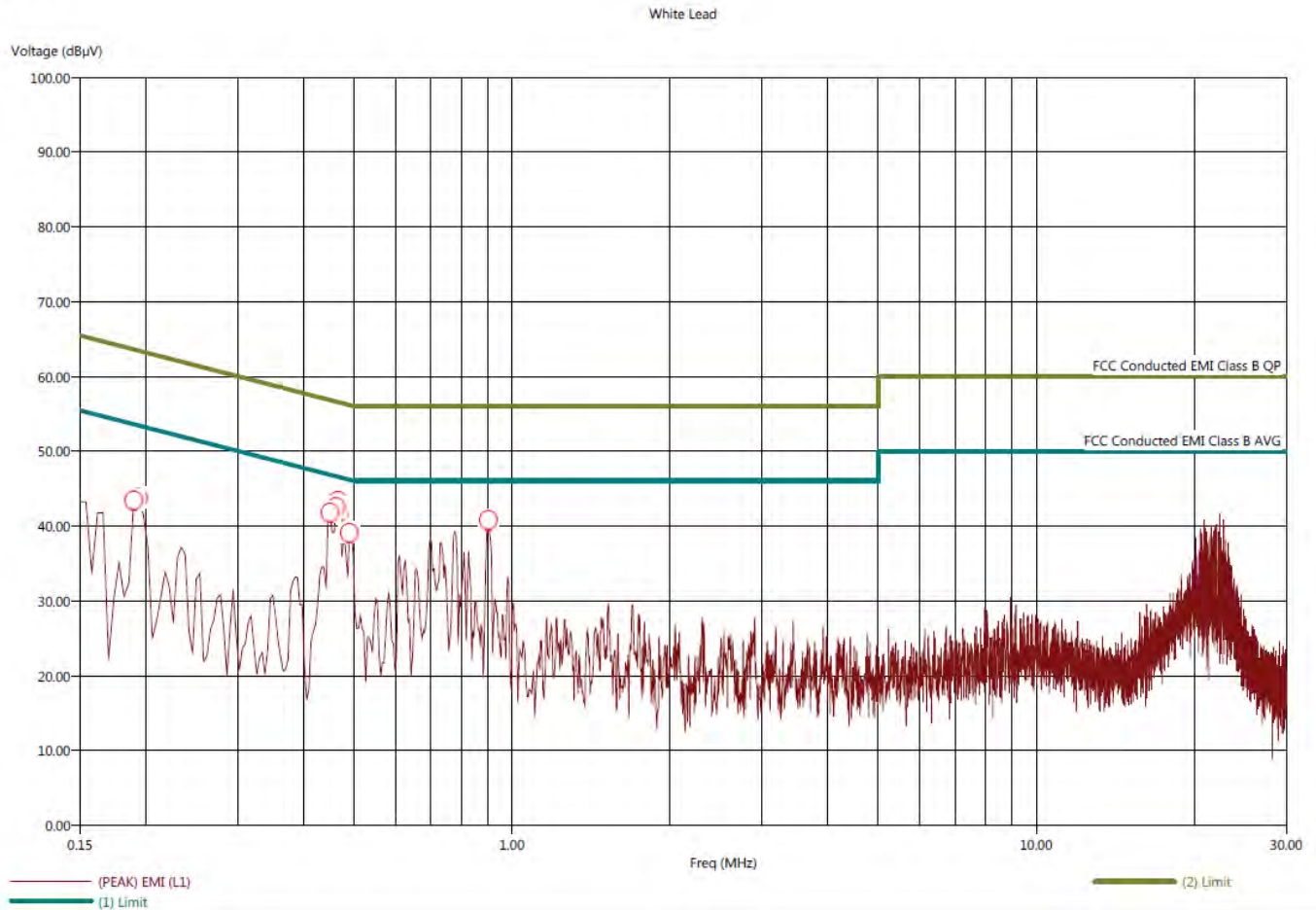
EUT Type: StreamCaster 4200 Tactical MIMO Radio

EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 20 MHz BW - 4 dBi Antennas

Company: Silvus Technologies, Inc.

M/N: SC4210E-245-EB

S/N: N/A

3/29/2019 3:58:21 PM  
Sequence: Preliminary Scan

Title: FCC Class B and RSS-GEN - White Lead  
File: 2 - Final Scan - White Lead - 4 dBi Antennaset  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 20 MHz BW - 4 dBi Antennas  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A

3/29/2019 3:59:40 PM  
Sequence: Final Measurements

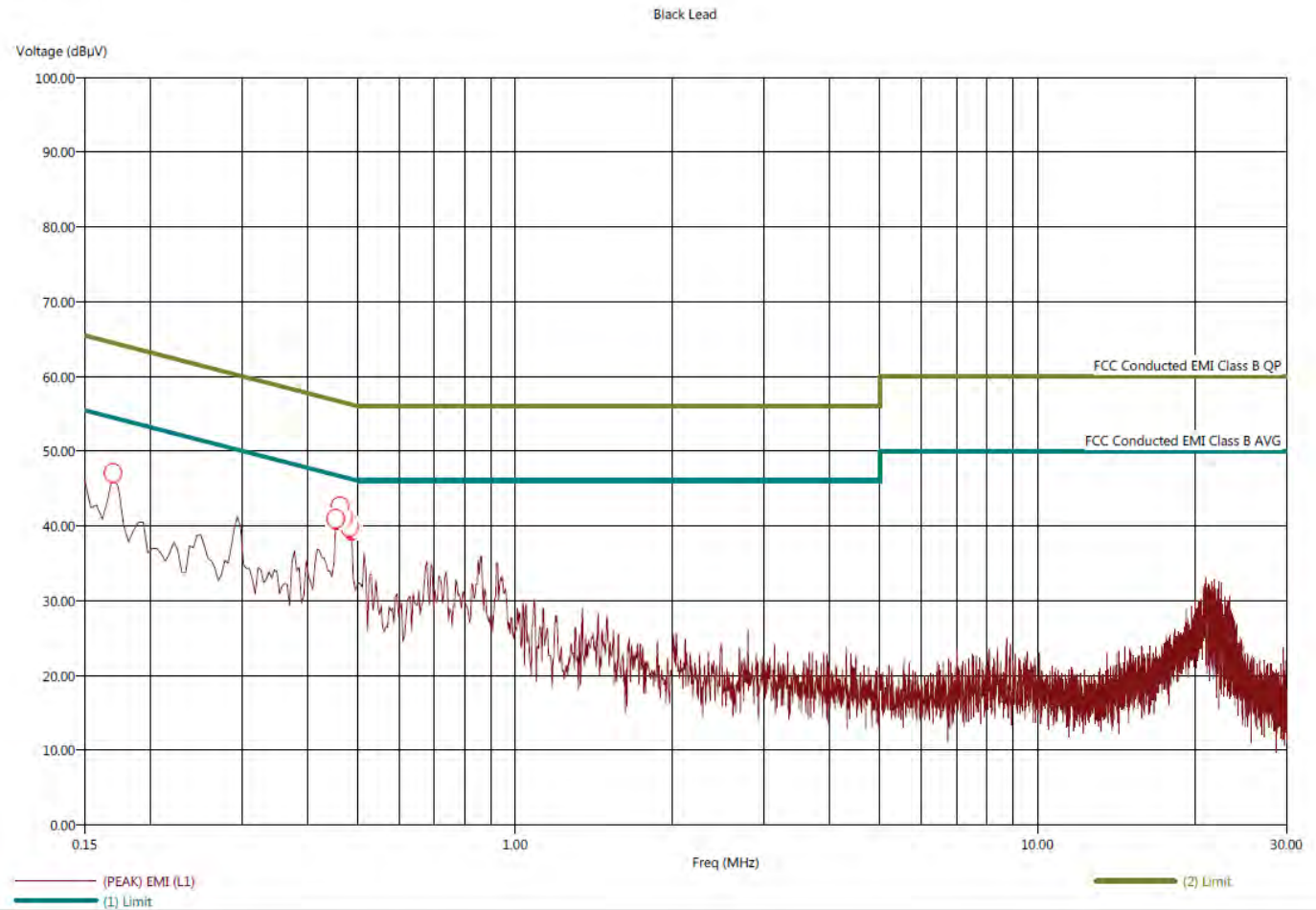
| White Lead    |                      |                     |                             |                            |                       |               |                    |                |      |
|---------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|---------------|--------------------|----------------|------|
| Freq<br>(MHz) | (PEAK) EMI<br>(dBµV) | (AVG) EMI<br>(dBµV) | (PEAK) Margin (AVG)<br>(dB) | (AVG) Margin (AVG)<br>(dB) | (AVG) Limit<br>(dBµV) | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |      |
| 0.190         | 45.79                | 31.23               | -7.52                       | -22.08                     | 53.31                 | 0.00          | 0.28               |                | 9.80 |
| 0.194         | 45.92                | 33.37               | -7.53                       | -20.08                     | 53.46                 | 0.00          | 0.28               |                | 9.80 |
| 0.450         | 42.94                | 27.82               | -3.84                       | -18.96                     | 46.78                 | 0.00          | 0.02               |                | 9.71 |
| 0.462         | 43.80                | 34.64               | -2.82                       | -11.98                     | 46.62                 | 0.00          | 0.02               |                | 9.71 |
| 0.466         | 43.79                | 35.44               | -2.75                       | -11.10                     | 46.54                 | 0.00          | 0.02               |                | 9.71 |
| 0.470         | 43.80                | 34.92               | -2.78                       | -11.66                     | 46.58                 | 0.00          | 0.02               |                | 9.71 |
| 0.490         | 37.72                | 23.19               | -8.32                       | -22.85                     | 46.04                 | 0.00          | 0.02               |                | 9.70 |
| 0.902         | 38.21                | 23.21               | -7.79                       | -22.79                     | 46.00                 | 0.00          | 0.02               |                | 9.86 |





Title: FCC Class B and RSS-GEN - Black Lead  
File: 3 - Pre-Scan - Black Lead - 4 dBi Antennas.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2430 MHz @ 10 MHz BW - 4 dBi Antennas  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A

4/1/2019 11:30:20 AM  
Sequence: Preliminary Scan



Title: FCC Class B and RSS-GEN - Black Lead  
File: 4 - Final Scan - Black Lead - 4 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2430 MHz @ 10 MHz BW - 4 dBi Antennas  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A

4/1/2019 11:34:35 AM  
Sequence: Final Measurements

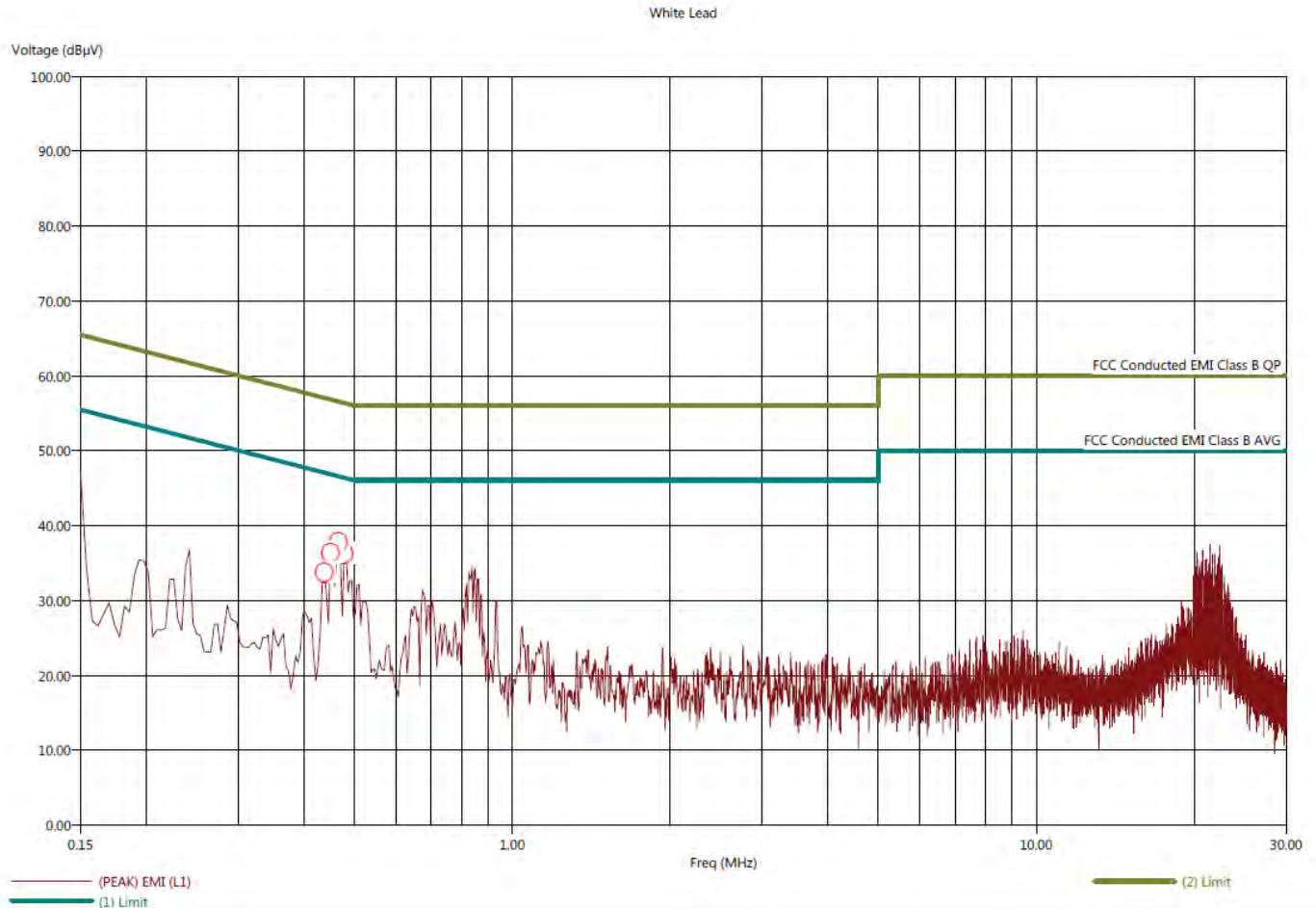
| Black Lead    |                      |                     |                             |                            |                       |               |                    |                |      |
|---------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|---------------|--------------------|----------------|------|
| Freq<br>(MHz) | (PEAK) EMI<br>(dBμV) | (AVG) EMI<br>(dBμV) | (PEAK) Margin (AVG)<br>(dB) | (AVG) Margin (AVG)<br>(dB) | (AVG) Limit<br>(dBμV) | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |      |
| 0.170         | 46.05                | 35.00               | -8.37                       | -19.42                     | 54.42                 | 0.00          | 0.36               |                | 9.80 |
| 0.454         | 43.36                | 32.40               | -3.25                       | -14.21                     | 46.61                 | 0.00          | 0.03               |                | 9.71 |
| 0.462         | 43.07                | 31.94               | -3.61                       | -14.74                     | 46.68                 | 0.00          | 0.03               |                | 9.71 |
| 0.470         | 42.20                | 31.15               | -4.16                       | -15.21                     | 46.36                 | 0.00          | 0.04               |                | 9.70 |
| 0.474         | 42.43                | 30.99               | -3.94                       | -15.38                     | 46.37                 | 0.00          | 0.04               |                | 9.71 |
| 0.482         | 42.98                | 30.96               | -3.46                       | -15.48                     | 46.44                 | 0.00          | 0.03               |                | 9.71 |
| 0.486         | 41.99                | 30.87               | -4.31                       | -15.43                     | 46.30                 | 0.00          | 0.04               |                | 9.70 |





Title: FCC Class B and RSS-GEN - White Lead  
File: 4 - Pre-Scan - White Lead - 4 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2430 MHz @ 10 MHz BW - 4 dBi Antennas  
Comments: Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A

4/1/2019 11:37:14 AM  
Sequence: Preliminary Scan



Title: FCC Class B and RSS-GEN - White Lead  
File: 4 - Final Scan - White Lead - 4 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2430 MHz @ 10 MHz BW - 4 dBi Antennas  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A

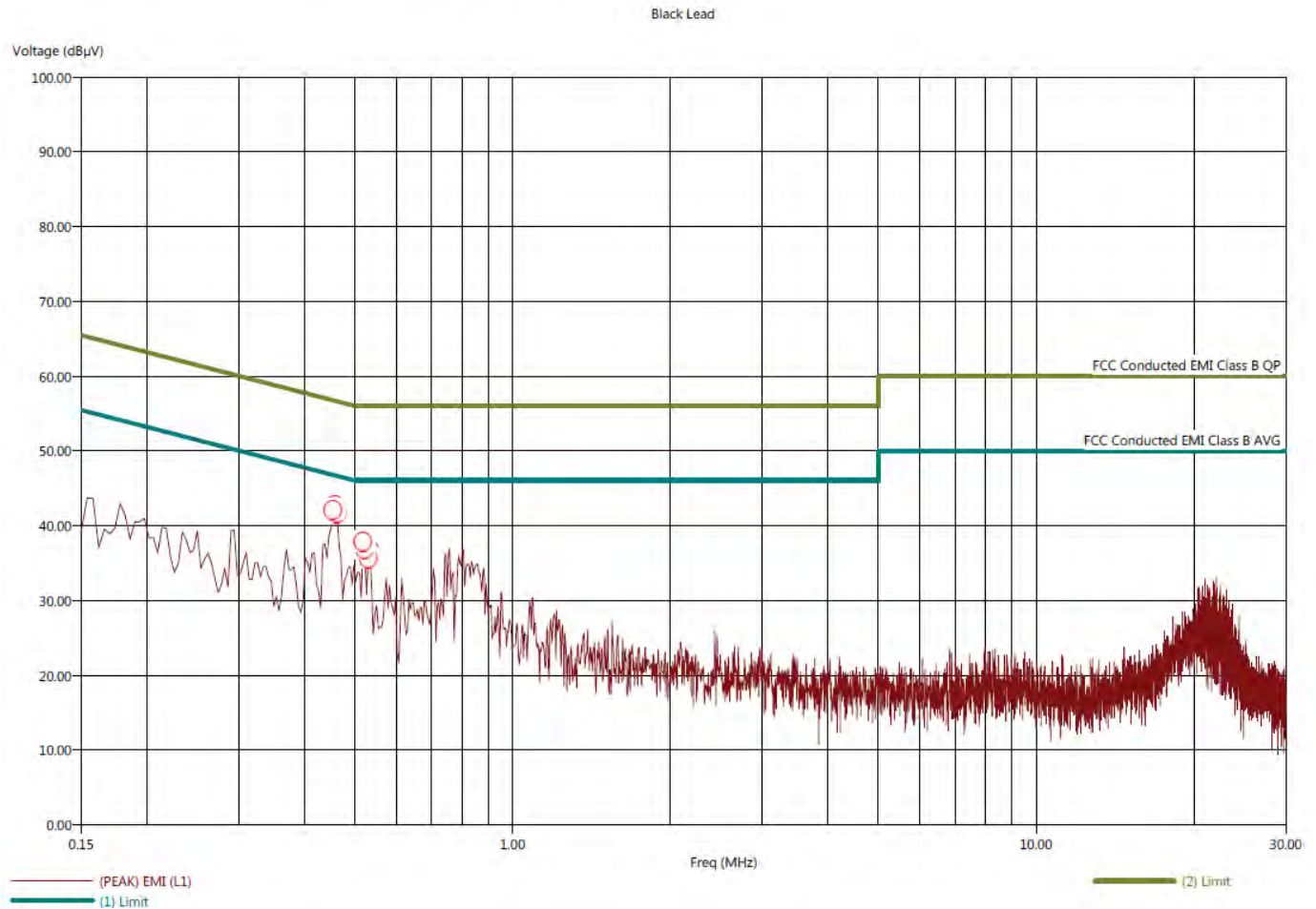
4/1/2019 11:38:14 AM  
Sequence: Final Measurements

| Freq<br>(MHz) | White Lead           |                     |                             |                            |                       |  | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |
|---------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|--|---------------|--------------------|----------------|
|               | (PEAK) EMI<br>(dBμV) | (AVG) EMI<br>(dBμV) | (PEAK) Margin (AVG)<br>(dB) | (AVG) Margin (AVG)<br>(dB) | (AVG) Limit<br>(dBμV) |  |               |                    |                |
| 0.438         | 35.86                | 25.03               | -11.15                      | -21.98                     | 47.01                 |  | 0.00          | 0.02               | 9.71           |
| 0.450         | 40.02                | 29.10               | -6.70                       | -17.62                     | 46.72                 |  | 0.00          | 0.02               | 9.71           |
| 0.454         | 40.66                | 30.00               | -6.01                       | -16.67                     | 46.67                 |  | 0.00          | 0.02               | 9.71           |
| 0.466         | 40.47                | 29.66               | -6.10                       | -16.91                     | 46.57                 |  | 0.00          | 0.02               | 9.71           |
| 0.478         | 40.27                | 28.87               | -6.10                       | -17.50                     | 46.36                 |  | 0.00          | 0.02               | 9.71           |
| 0.482         | 39.10                | 28.27               | -7.17                       | -18.00                     | 46.27                 |  | 0.00          | 0.02               | 9.70           |



Title: FCC Class B and RSS-GEN - Black Lead  
File: 5 - Pre-Scan - Black Lead - 4 dBi Antennas.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 10 MHz BW - 4 dBi Antennas  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A

4/1/2019 11:40:21 AM  
Sequence: Preliminary Scan



Title: FCC Class B and RSS-GEN - Black Lead  
File: 5 - Final Scan - Black Lead - 4 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 10 MHz BW - 4 dBi Antennas  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A

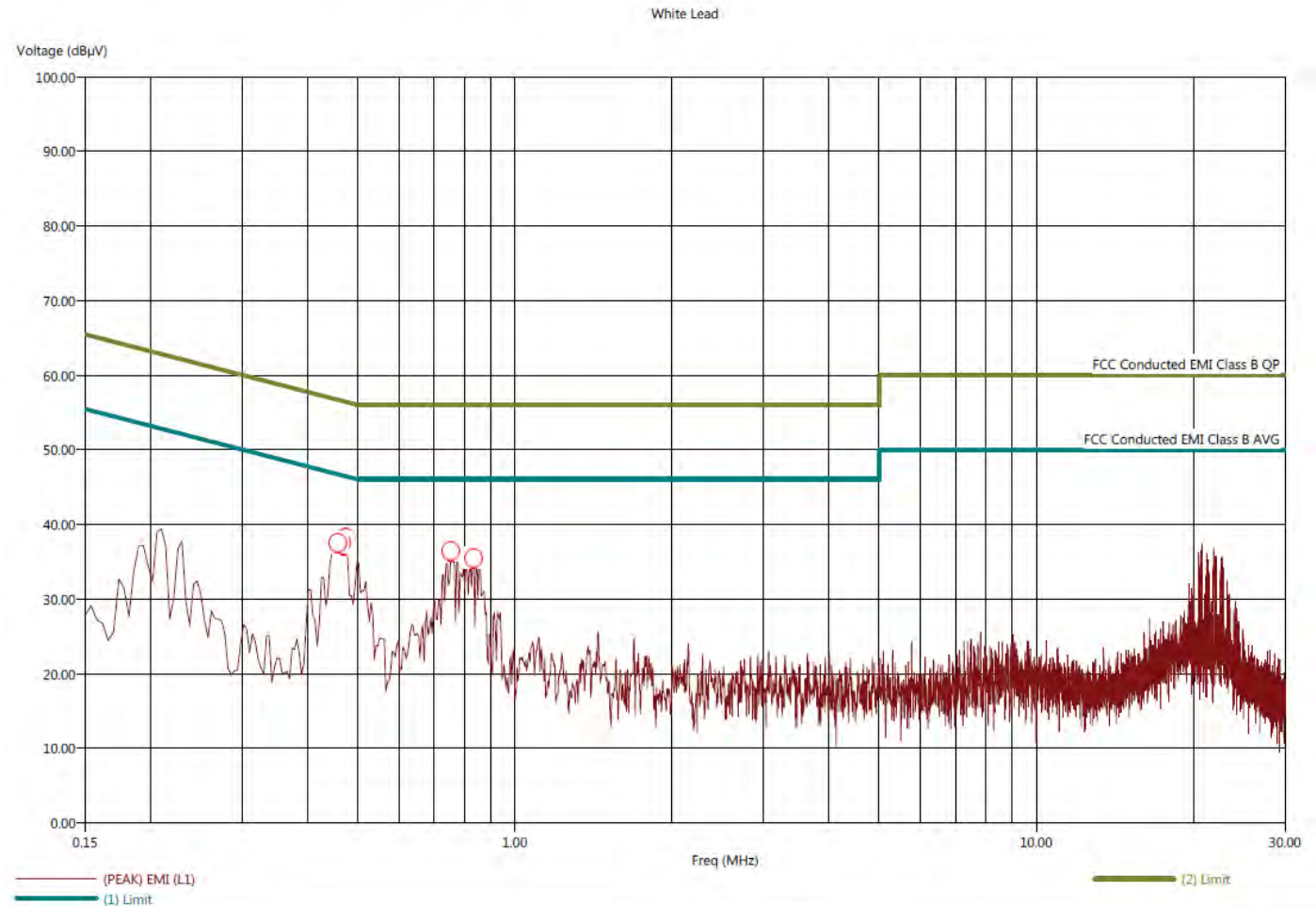
4/1/2019 11:43:10 AM  
Sequence: Final Measurements

| Black Lead    |                      |                     |                             |                            |                       |               |                    |                |
|---------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|---------------|--------------------|----------------|
| Freq<br>(MHz) | (PEAK) EMI<br>(dBµV) | (AVG) EMI<br>(dBµV) | (PEAK) Margin (AVG)<br>(dB) | (AVG) Margin (AVG)<br>(dB) | (AVG) Limit<br>(dBµV) | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |
| 0.454         | 43.49                | 32.28               | -3.13                       | -14.34                     | 46.62                 | 0.00          | 0.03               | 9.71           |
| 0.458         | 42.20                | 29.92               | -4.54                       | -16.82                     | 46.74                 | 0.00          | 0.03               | 9.71           |
| 0.462         | 42.61                | 31.25               | -3.90                       | -15.26                     | 46.51                 | 0.00          | 0.03               | 9.71           |
| 0.518         | 36.17                | 23.90               | -9.83                       | -22.10                     | 46.00                 | 0.00          | 0.04               | 9.71           |
| 0.522         | 34.11                | 21.08               | -11.89                      | -24.92                     | 46.00                 | 0.00          | 0.04               | 9.71           |
| 0.530         | 33.23                | 21.43               | -12.77                      | -24.57                     | 46.00                 | 0.00          | 0.04               | 9.72           |
| 0.534         | 33.04                | 22.10               | -12.96                      | -23.90                     | 46.00                 | 0.00          | 0.04               | 9.72           |



Title: FCC Class B and RSS-GEN - White Lead  
File: 6 - Pre-Scan - White Lead - 4 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 10 MHz BW - 4 dBi Antennas  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A

4/1/2019 11:47:21 AM  
Sequence: Preliminary Scan



Title: FCC Class B and RSS-GEN - White Lead  
File: 6 - Final Scan - White Lead - 4 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 10 MHz BW - 4 dBi Antennas  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A

4/1/2019 11:48:25 AM  
Sequence: Final Measurements

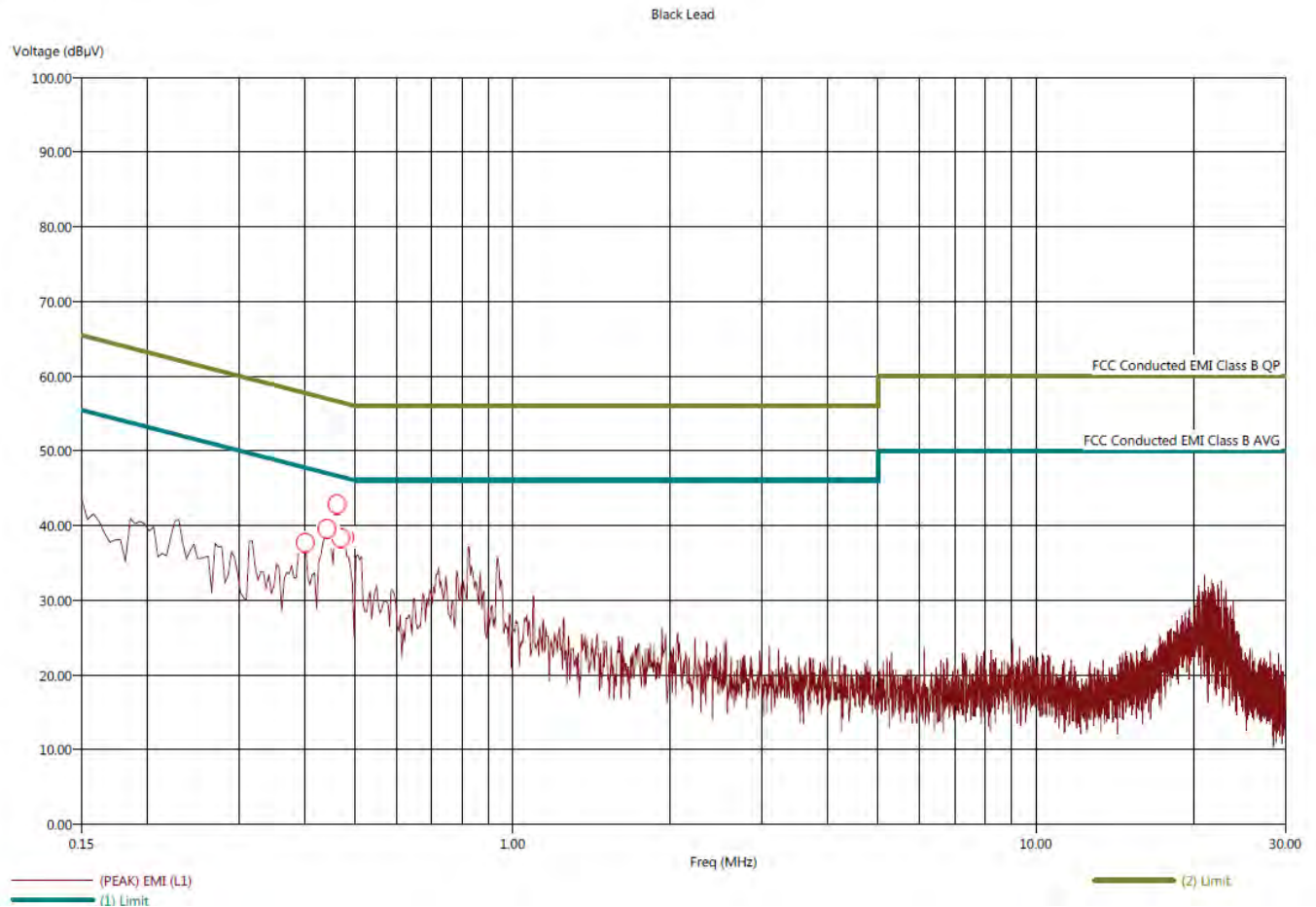
| White Lead    |                      |                     |                       |                      |                       |               |                    |                |  |
|---------------|----------------------|---------------------|-----------------------|----------------------|-----------------------|---------------|--------------------|----------------|--|
| Freq<br>(MHz) | (PEAK) EMI<br>(dBμV) | (AVG) EMI<br>(dBμV) | (PEAK) Margin<br>(dB) | (AVG) Margin<br>(dB) | (AVG) Limit<br>(dBμV) | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |  |
| 0.458         | 41.37                | 30.56               | -5.23                 | -16.04               | 46.59                 | 0.00          | 0.02               | 9.71           |  |
| 0.466         | 41.15                | 30.88               | -5.50                 | -15.77               | 46.65                 | 0.00          | 0.02               | 9.71           |  |
| 0.470         | 40.40                | 29.32               | -6.09                 | -17.17               | 46.49                 | 0.00          | 0.02               | 9.71           |  |
| 0.474         | 40.07                | 28.98               | -6.37                 | -17.46               | 46.43                 | 0.00          | 0.02               | 9.71           |  |
| 0.754         | 37.30                | 24.49               | -8.70                 | -21.51               | 46.00                 | 0.00          | 0.02               | 9.82           |  |
| 0.834         | 37.38                | 24.55               | -8.62                 | -21.45               | 46.00                 | 0.00          | 0.02               | 9.85           |  |





Title: FCC Class B and RSS-GEN - Black Lead  
File: 7 - Pre-Scan - Black Lead - 2 dBi Antennas.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 20 MHz BW - 2 dBi Antennas  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A

4/1/2019 12:01:24 PM  
Sequence: Preliminary Scan



Title: FCC Class B and RSS-GEN - Black Lead  
File: 7 - Final Scan - Black Lead - 2 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 20 MHz BW - 2 dBi Antennas  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A

4/1/2019 12:04:02 PM  
Sequence: Final Measurements

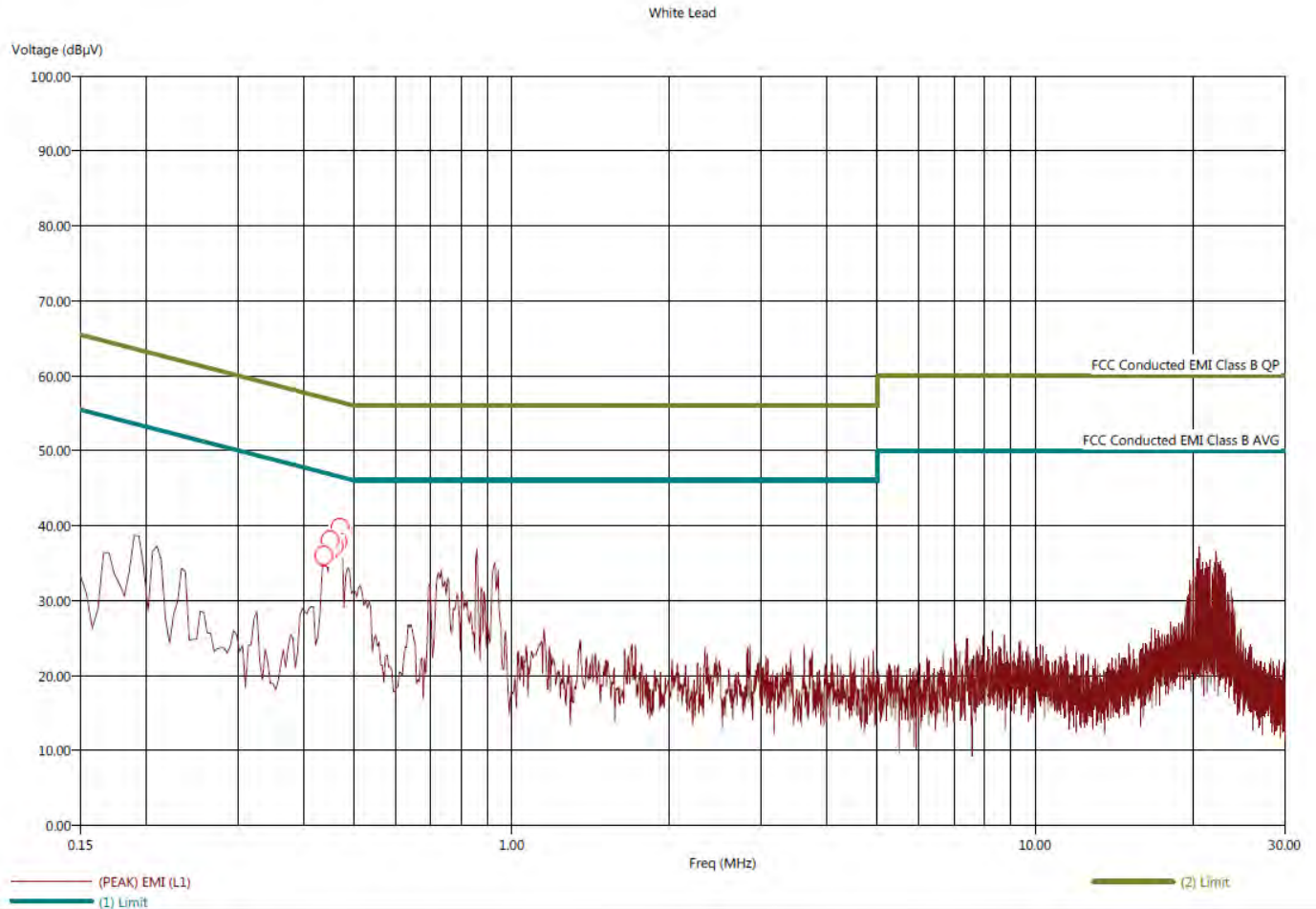
| Black Lead    |                      |                     |                       |                            |                       |               |                    |                |  |
|---------------|----------------------|---------------------|-----------------------|----------------------------|-----------------------|---------------|--------------------|----------------|--|
| Freq<br>(MHz) | (PEAK) EMI<br>(dBμV) | (AVG) EMI<br>(dBμV) | (PEAK) Margin<br>(dB) | (AVG) Margin (AVG)<br>(dB) | (AVG) Limit<br>(dBμV) | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |  |
| 0.402         | 33.40                | 21.70               | -14.29                | -25.99                     | 47.69                 | 0.00          | 0.04               | 9.72           |  |
| 0.442         | 43.56                | 32.82               | -3.09                 | -13.83                     | 46.66                 | 0.00          | 0.03               | 9.71           |  |
| 0.446         | 43.38                | 32.19               | -3.30                 | -14.49                     | 46.68                 | 0.00          | 0.03               | 9.71           |  |
| 0.462         | 43.32                | 31.74               | -3.38                 | -14.96                     | 46.70                 | 0.00          | 0.03               | 9.71           |  |
| 0.470         | 43.68                | 32.55               | -2.92                 | -14.05                     | 46.60                 | 0.00          | 0.03               | 9.71           |  |
| 0.478         | 39.44                | 28.84               | -6.79                 | -17.39                     | 46.23                 | 0.00          | 0.04               | 9.70           |  |





Title: FCC Class B and RSS-GEN - White Lead  
File: 8 - Pre-Scan - White Lead - 2 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 20 MHz BW - 2 dBi Antennas  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A

4/1/2019 12:10:21 PM  
Sequence: Preliminary Scan



Title: FCC Class B and RSS-GEN - White Lead  
File: 8 - Final Scan - White Lead - 2 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 20 MHz BW - 2 dBi Antennas  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A

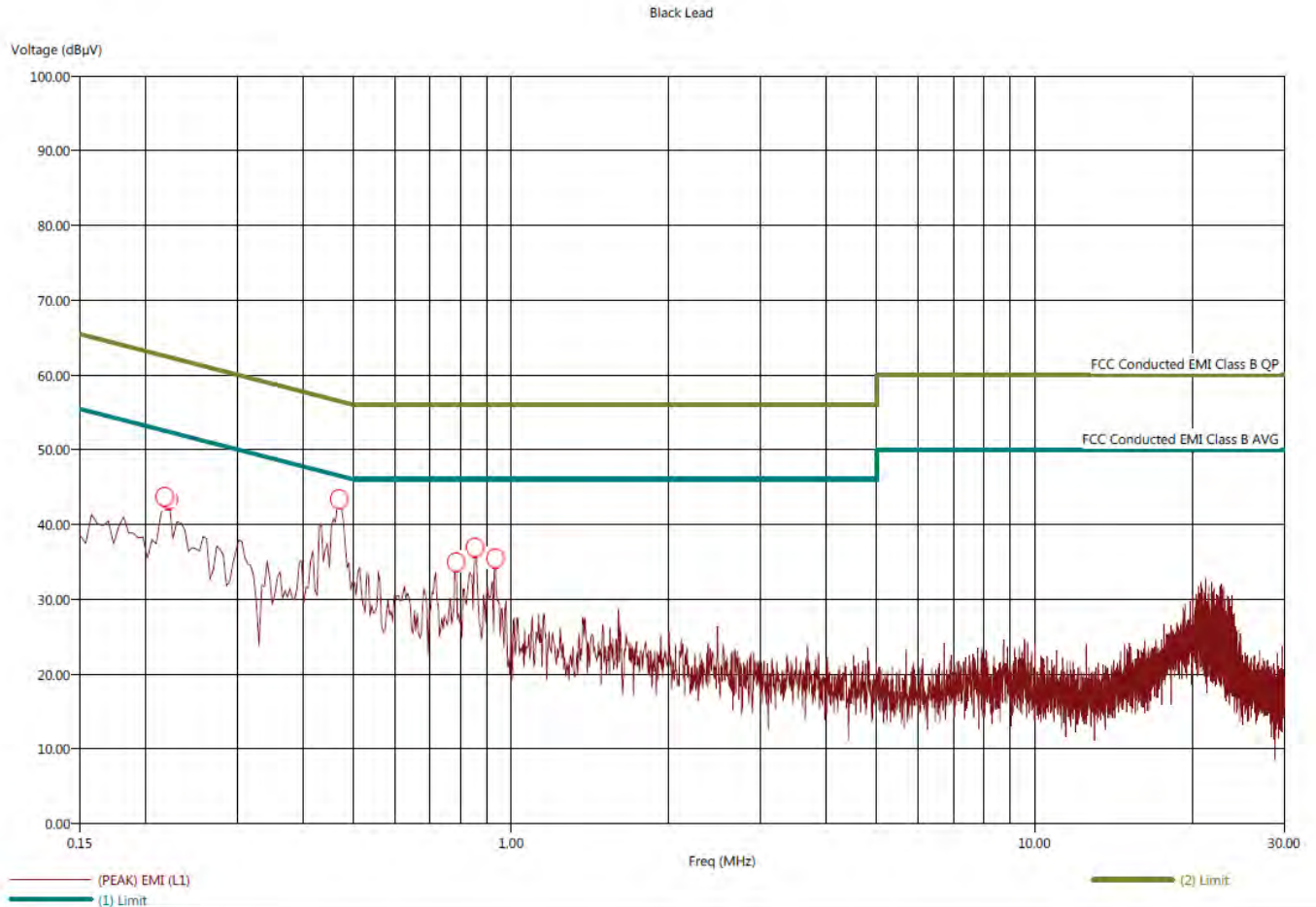
4/1/2019 12:11:29 PM  
Sequence: Final Measurements

| White Lead    |                      |                     |                             |                            |                       |               |                    |                |  |
|---------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|---------------|--------------------|----------------|--|
| Freq<br>(MHz) | (PEAK) EMI<br>(dBμV) | (AVG) EMI<br>(dBμV) | (PEAK) Margin (AVG)<br>(dB) | (AVG) Margin (AVG)<br>(dB) | (AVG) Limit<br>(dBμV) | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |  |
| 0.438         | 35.23                | 25.23               | -11.88                      | -21.88                     | 47.10                 | 0.00          | 0.02               | 9.72           |  |
| 0.450         | 41.03                | 30.25               | -5.69                       | -16.47                     | 46.72                 | 0.00          | 0.02               | 9.71           |  |
| 0.458         | 41.49                | 30.95               | -5.12                       | -15.66                     | 46.61                 | 0.00          | 0.02               | 9.71           |  |
| 0.466         | 41.55                | 30.53               | -5.15                       | -16.17                     | 46.70                 | 0.00          | 0.02               | 9.71           |  |
| 0.470         | 41.66                | 31.52               | -4.95                       | -15.09                     | 46.61                 | 0.00          | 0.02               | 9.71           |  |
| 0.474         | 40.57                | 29.05               | -5.83                       | -17.35                     | 46.40                 | 0.00          | 0.02               | 9.71           |  |



Title: FCC Class B and RSS-GEN- Black Lead  
File: 9 - Pre-Scan - Black Lead - 2 dBi Antennas.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2430 MHz @ 10 MHz BW - 2 dBi Antennas.  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A

4/1/2019 1:40:47 PM  
Sequence: Preliminary Scan



Title: FCC Class B and RSS-GEN - Black Lead  
File: 9 - Final Scan - Black Lead - 2 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2430 MHz @ 10 MHz BW - 2 dBi Antennas  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A

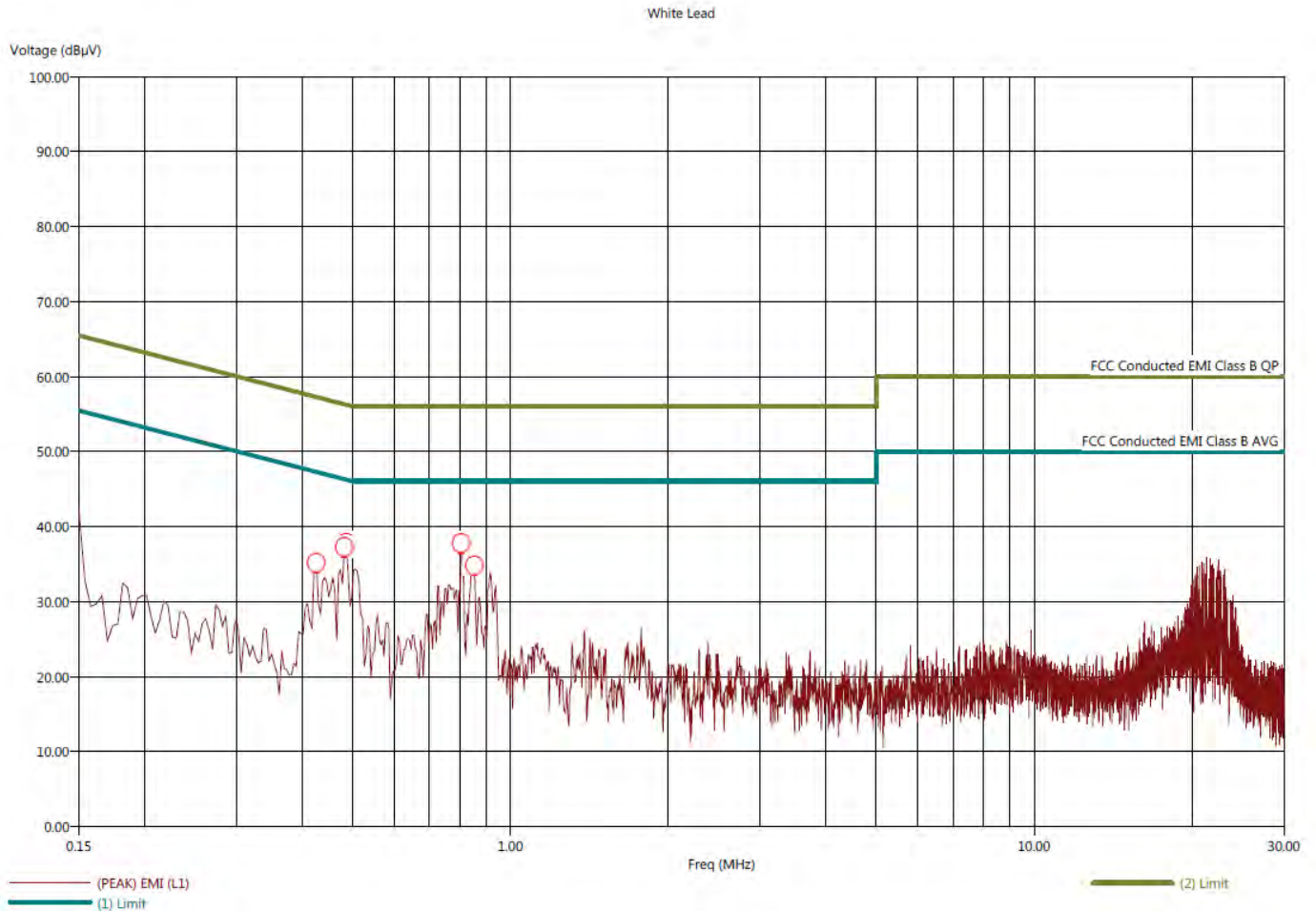
4/1/2019 1:41:47 PM  
Sequence: Final Measurements

| Black Lead    |                      |                     |                             |                            |                       |               |                    |                |      |
|---------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|---------------|--------------------|----------------|------|
| Freq<br>(MHz) | (PEAK) EMI<br>(dBμV) | (AVG) EMI<br>(dBμV) | (PEAK) Margin (AVG)<br>(dB) | (AVG) Margin (AVG)<br>(dB) | (AVG) Limit<br>(dBμV) | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |      |
| 0.218         | 45.79                | 32.56               | -6.81                       | -20.04                     | 52.61                 | 0.00          | 0.26               |                | 9.79 |
| 0.222         | 45.50                | 31.99               | -6.70                       | -20.21                     | 52.20                 | 0.00          | 0.24               |                | 9.79 |
| 0.470         | 44.24                | 33.45               | -2.35                       | -13.14                     | 46.60                 | 0.00          | 0.03               |                | 9.71 |
| 0.786         | 37.87                | 24.25               | -8.13                       | -21.75                     | 46.00                 | 0.00          | 0.04               |                | 9.83 |
| 0.854         | 36.01                | 23.51               | -9.99                       | -22.49                     | 46.00                 | 0.00          | 0.04               |                | 9.85 |
| 0.934         | 38.57                | 24.52               | -7.43                       | -21.48                     | 46.00                 | 0.00          | 0.04               |                | 9.88 |



Title: FCC Class B and RSS-GEN- White Lead  
File: 10 - Pre-Scan - White Lead - 2 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2430 MHz @ 10 MHz BW - 2 dBi Antennas  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A

4/1/2019 12:57:44 PM  
Sequence: Preliminary Scan



Title: FCC Class B and RSS-GEN - White Lead  
 File: 10 - Final Scan - White Lead - 2 dBi Antenna.set  
 Operator: Kyle Fujimoto  
 EUT Type: StreamCaster 4200 Tactical MIMO Radio  
 EUT Condition: The EUT is continuously transmitting at 2430 MHz @ 10 MHz BW - 2 dBi Antennas  
 Company: Silvus Technologies, Inc.  
 Model: SC4210E-245-EB  
 S/N: N/A

4/1/2019 12:58:59 PM  
 Sequence: Final Measurements

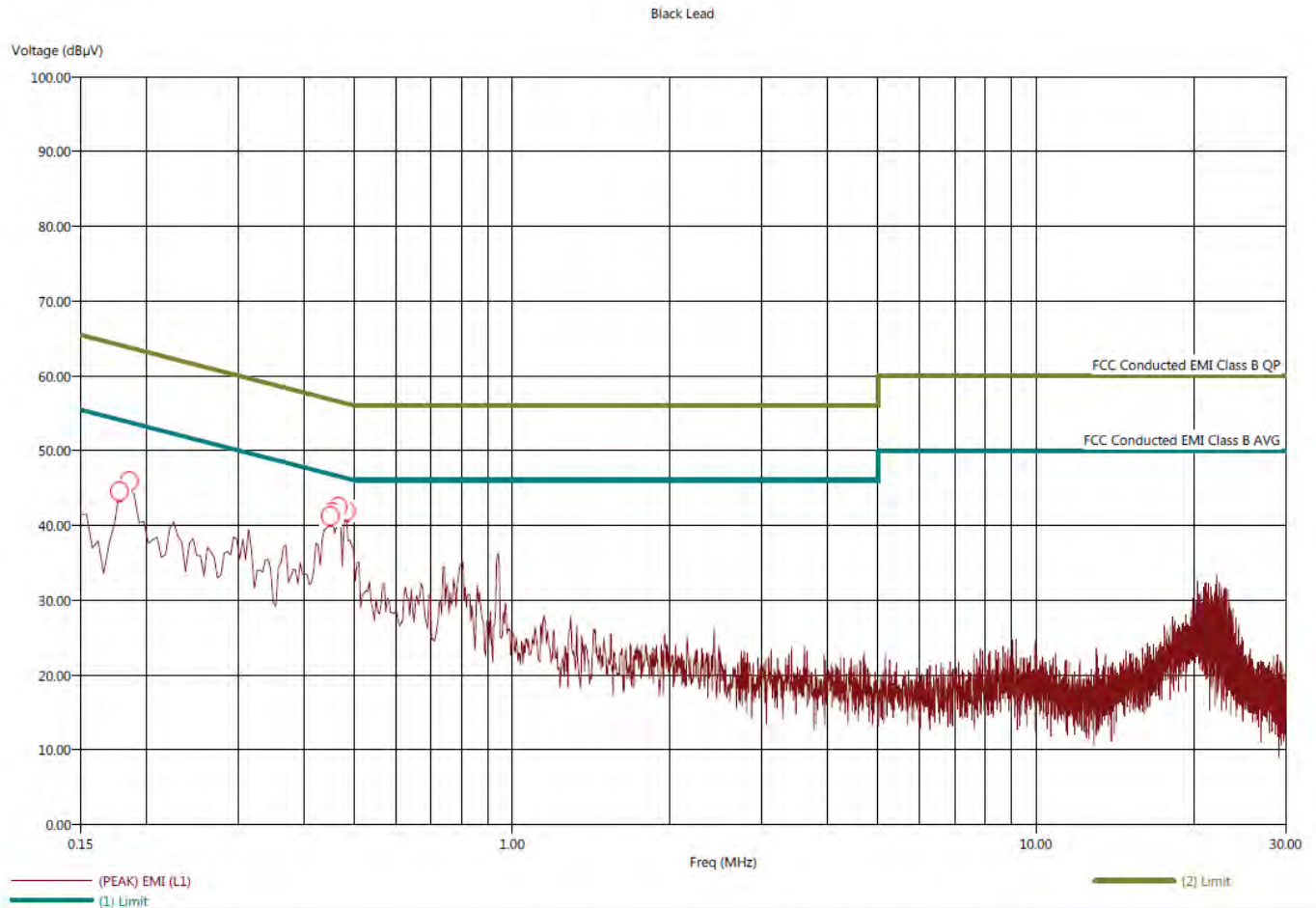
| White Lead    |                      |                     |                             |                            |                       |               |                    |                |
|---------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|---------------|--------------------|----------------|
| Freq<br>(MHz) | (PEAK) EMI<br>(dBμV) | (AVG) EMI<br>(dBμV) | (PEAK) Margin (AVG)<br>(dB) | (AVG) Margin (AVG)<br>(dB) | (AVG) Limit<br>(dBμV) | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |
| 0.426         | 35.39                | 24.57               | -11.85                      | -22.67                     | 47.24                 | 0.00          | 0.02               | 9.72           |
| 0.482         | 41.03                | 29.81               | -5.38                       | -16.60                     | 46.40                 | 0.00          | 0.02               | 9.71           |
| 0.486         | 40.09                | 28.77               | -6.24                       | -17.56                     | 46.34                 | 0.00          | 0.02               | 9.70           |
| 0.806         | 38.16                | 25.59               | -7.84                       | -20.41                     | 46.00                 | 0.00          | 0.02               | 9.84           |
| 0.810         | 38.68                | 25.52               | -7.32                       | -20.48                     | 46.00                 | 0.00          | 0.02               | 9.84           |
| 0.854         | 37.10                | 24.07               | -8.90                       | -21.93                     | 46.00                 | 0.00          | 0.02               | 9.86           |





Title: FCC Class B and RSS-GEN - Black Lead  
File: 11 - Pre-Scan - Black Lead - 2 dBi Antennas.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 10 MHz BW - 2 dBi Antennas  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A

4/1/2019 2:20:42 PM  
Sequence: Preliminary Scan



Title: FCC Class B and RSS-GEN - Black Lead  
File: 11 - Final Scan - Black Lead - 2 dBi Antennas.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 10 MHz BW - 2 dBi Antennas  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A

4/1/2019 2:22:14 PM  
Sequence: Final Measurements

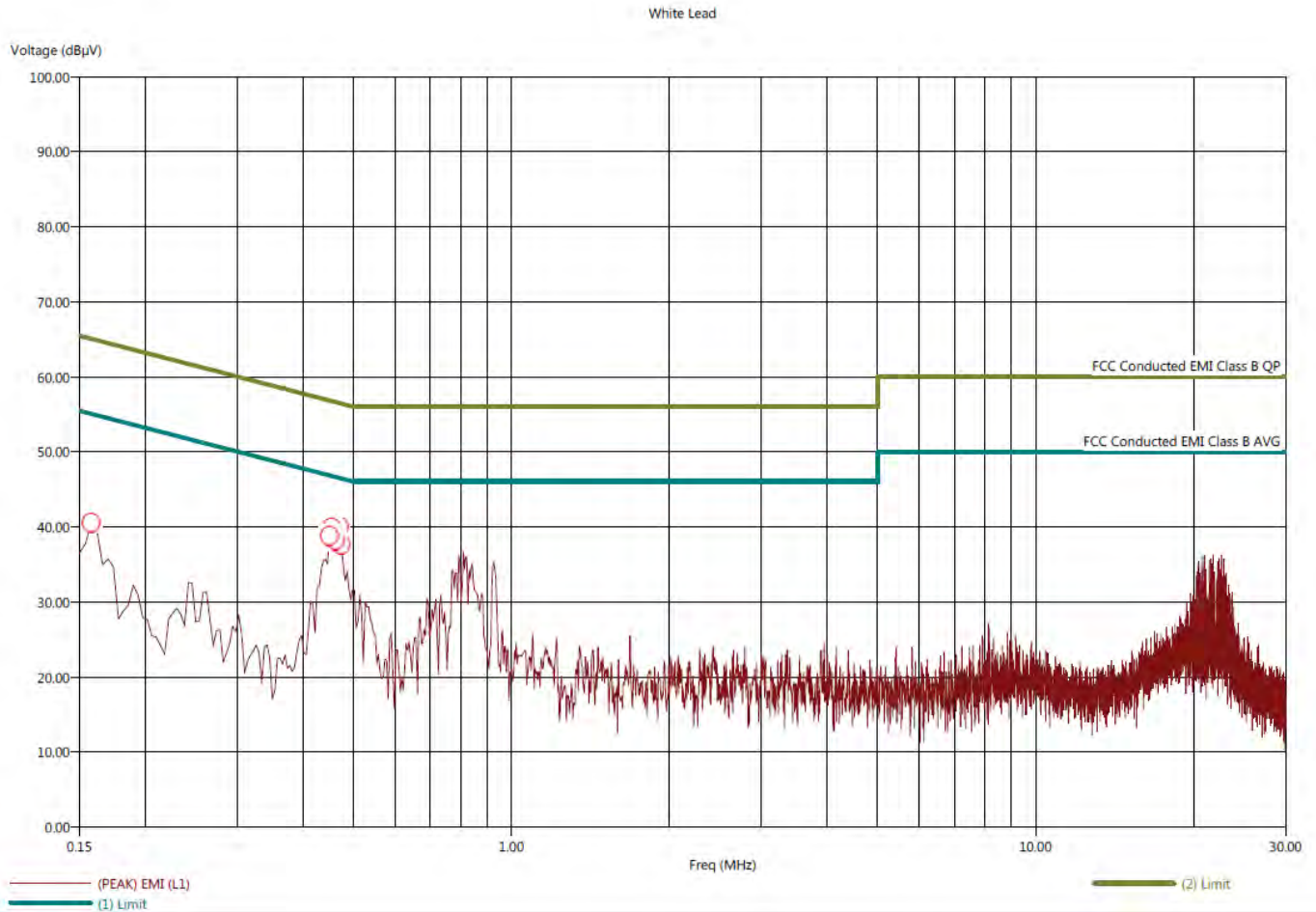
| Black Lead    |                      |                     |                             |                            |                       |               |                    |                |
|---------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|---------------|--------------------|----------------|
| Freq<br>(MHz) | (PEAK) EMI<br>(dBµV) | (AVG) EMI<br>(dBµV) | (PEAK) Margin (AVG)<br>(dB) | (AVG) Margin (AVG)<br>(dB) | (AVG) Limit<br>(dBµV) | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |
| 0.178         | 46.25                | 34.58               | -8.27                       | -19.94                     | 54.52                 | 0.00          | 0.37               | 9.80           |
| 0.186         | 47.02                | 33.82               | -6.83                       | -20.03                     | 53.85                 | 0.00          | 0.33               | 9.80           |
| 0.450         | 44.35                | 33.22               | -2.29                       | -13.42                     | 46.64                 | 0.00          | 0.03               | 9.71           |
| 0.454         | 44.00                | 32.61               | -2.70                       | -14.09                     | 46.70                 | 0.00          | 0.03               | 9.71           |
| 0.466         | 44.24                | 33.57               | -2.37                       | -13.04                     | 46.61                 | 0.00          | 0.03               | 9.71           |
| 0.482         | 43.53                | 31.91               | -2.96                       | -14.58                     | 46.49                 | 0.00          | 0.03               | 9.71           |





Title: FCC Class B and RSS-GEN - White Lead  
File: 12 - Pre-Scan - White Lead - 2 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 10 MHz BW - 2 dBi Antennas  
Company: Silvus Technologies, Inc.  
M/N: SC4210E-245-EB  
S/N: N/A

4/1/2019 1:32:27 PM  
Sequence: Preliminary Scan



Title: FCC Class B and RSS-GEN - White Lead  
File: 12 - Final Scan - White Lead - 2 dBi Antenna.set  
Operator: Kyle Fujimoto  
EUT Type: StreamCaster 4200 Tactical MIMO Radio  
EUT Condition: The EUT is continuously transmitting at 2440 MHz @ 10 MHz BW - 2 dBi Antennas  
Company: Silvus Technologies, Inc.  
Model: SC4210E-245-EB  
S/N: N/A

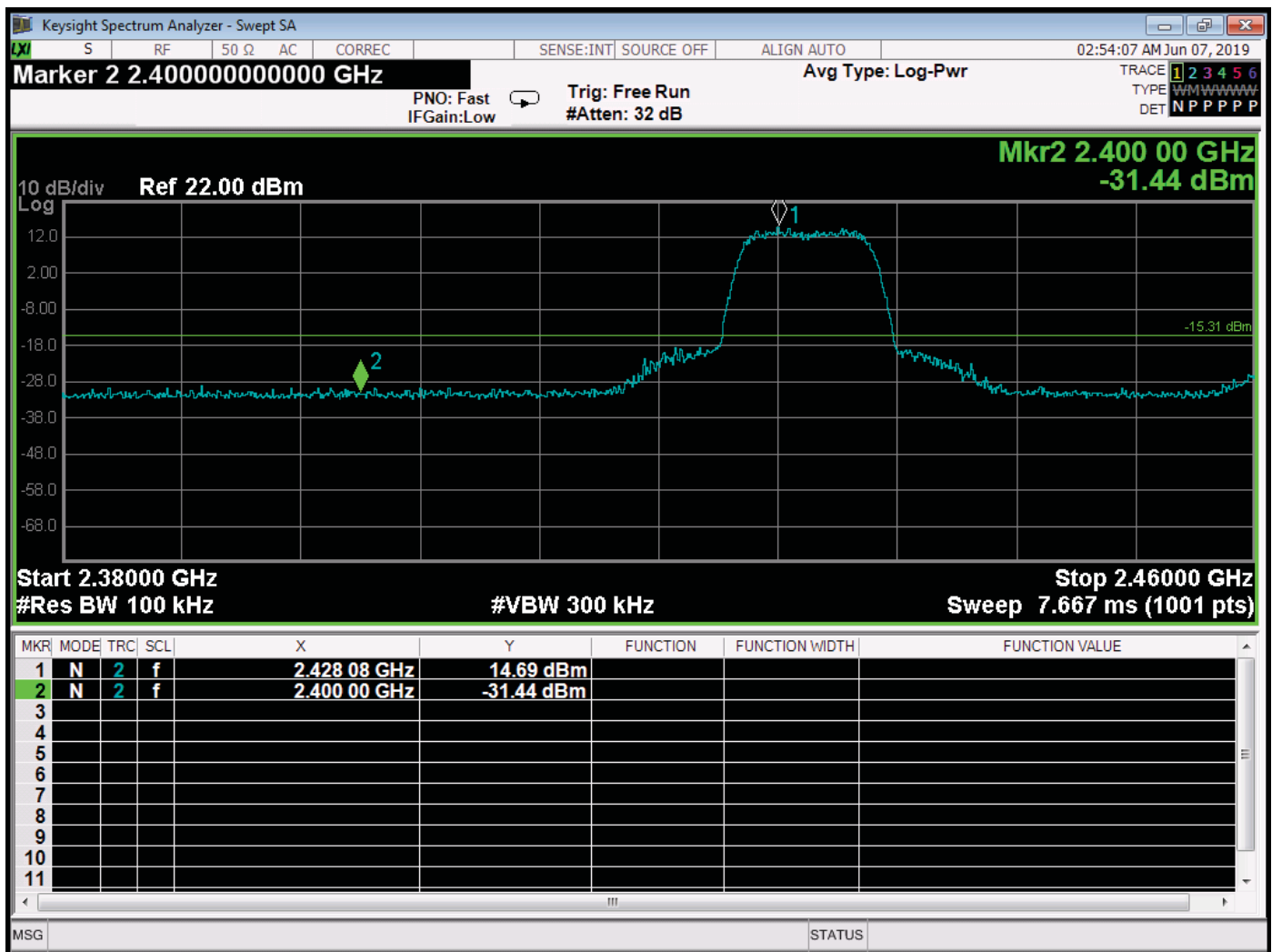
4/1/2019 1:33:26 PM  
Sequence: Final Measurements

| White Lead    |                      |                     |                             |                            |                       |               |                    |                |  |
|---------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|---------------|--------------------|----------------|--|
| Freq<br>(MHz) | (PEAK) EMI<br>(dBμV) | (AVG) EMI<br>(dBμV) | (PEAK) Margin (AVG)<br>(dB) | (AVG) Margin (AVG)<br>(dB) | (AVG) Limit<br>(dBμV) | Cable<br>(dB) | Transducer<br>(dB) | Filter<br>(dB) |  |
| 0.158         | 44.26                | 29.83               | -11.20                      | -25.63                     | 55.46                 | 0.00          | 0.40               | 9.80           |  |
| 0.450         | 38.65                | 27.97               | -8.26                       | -18.94                     | 46.91                 | 0.00          | 0.02               | 9.71           |  |
| 0.454         | 42.13                | 31.37               | -4.57                       | -15.33                     | 46.70                 | 0.00          | 0.02               | 9.71           |  |
| 0.462         | 41.14                | 30.88               | -5.39                       | -15.65                     | 46.52                 | 0.00          | 0.02               | 9.71           |  |
| 0.470         | 41.43                | 30.89               | -5.11                       | -15.65                     | 46.54                 | 0.00          | 0.02               | 9.71           |  |
| 0.474         | 40.08                | 29.07               | -6.26                       | -17.27                     | 46.34                 | 0.00          | 0.02               | 9.70           |  |

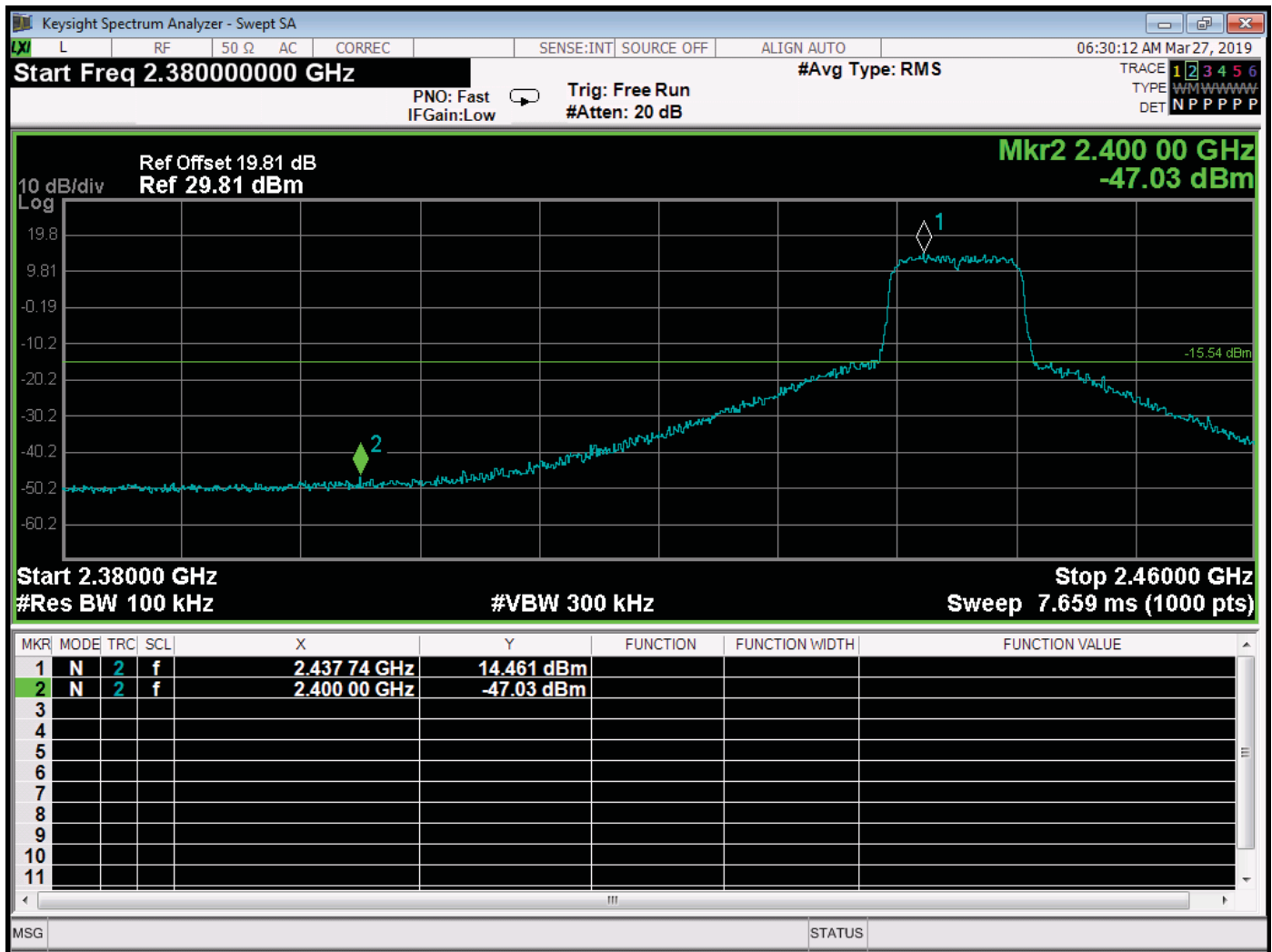




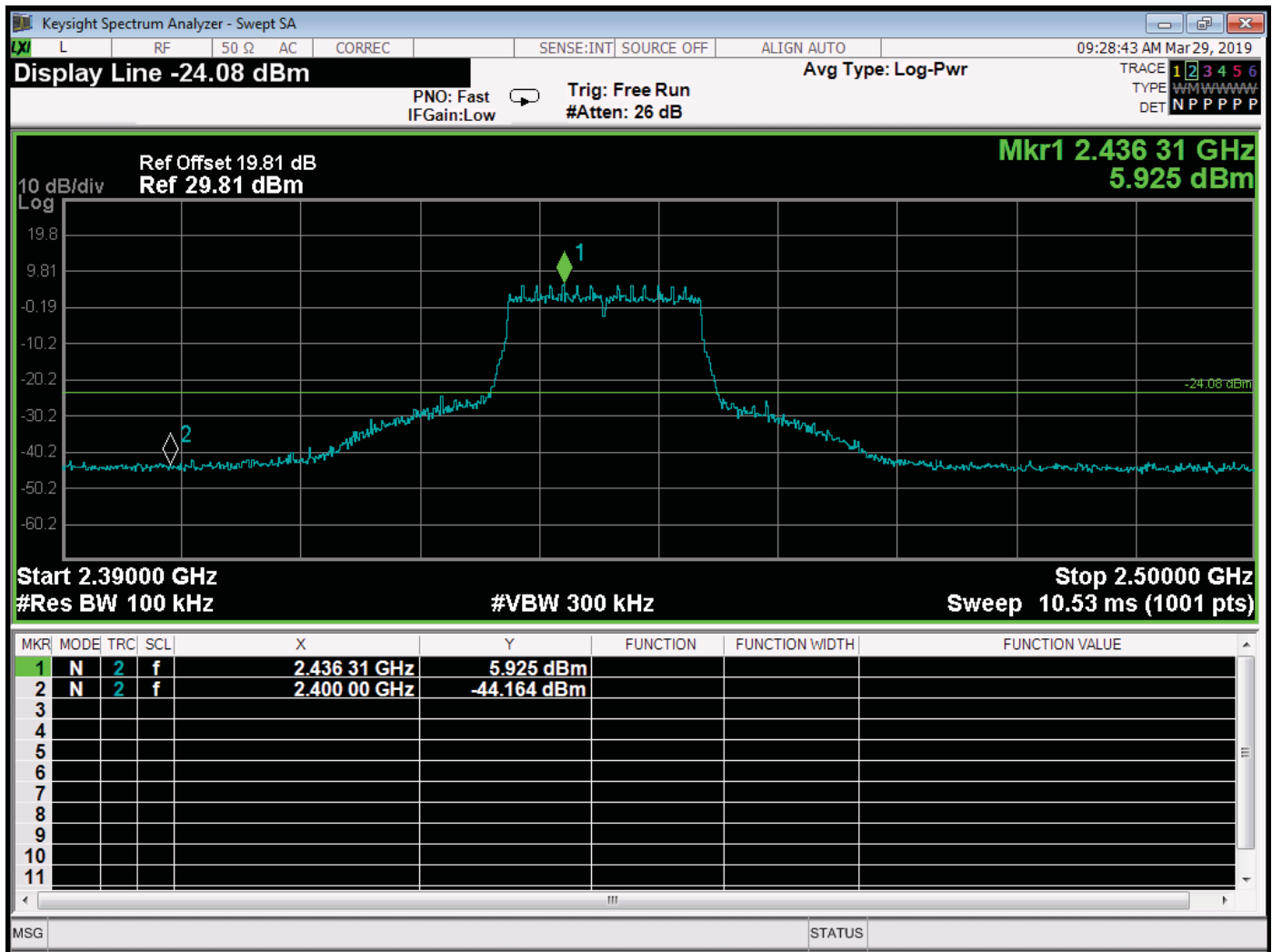
***BAND EDGE AT 2400 MHz  
DATA SHEETS***



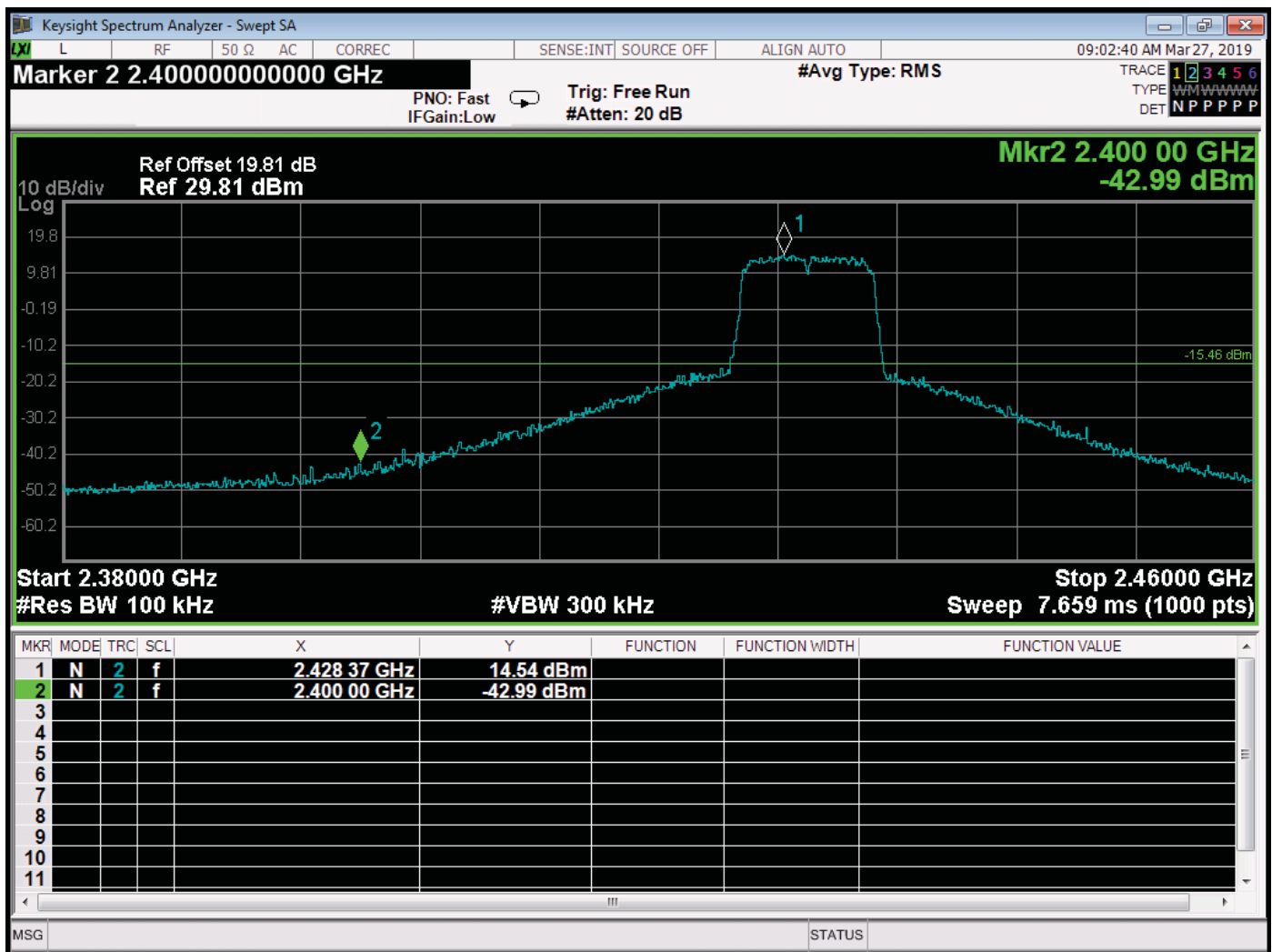
Band Edge at 2400 MHz – 2430 MHz Fundamental – 10 MHz Bandwidth – Port #1



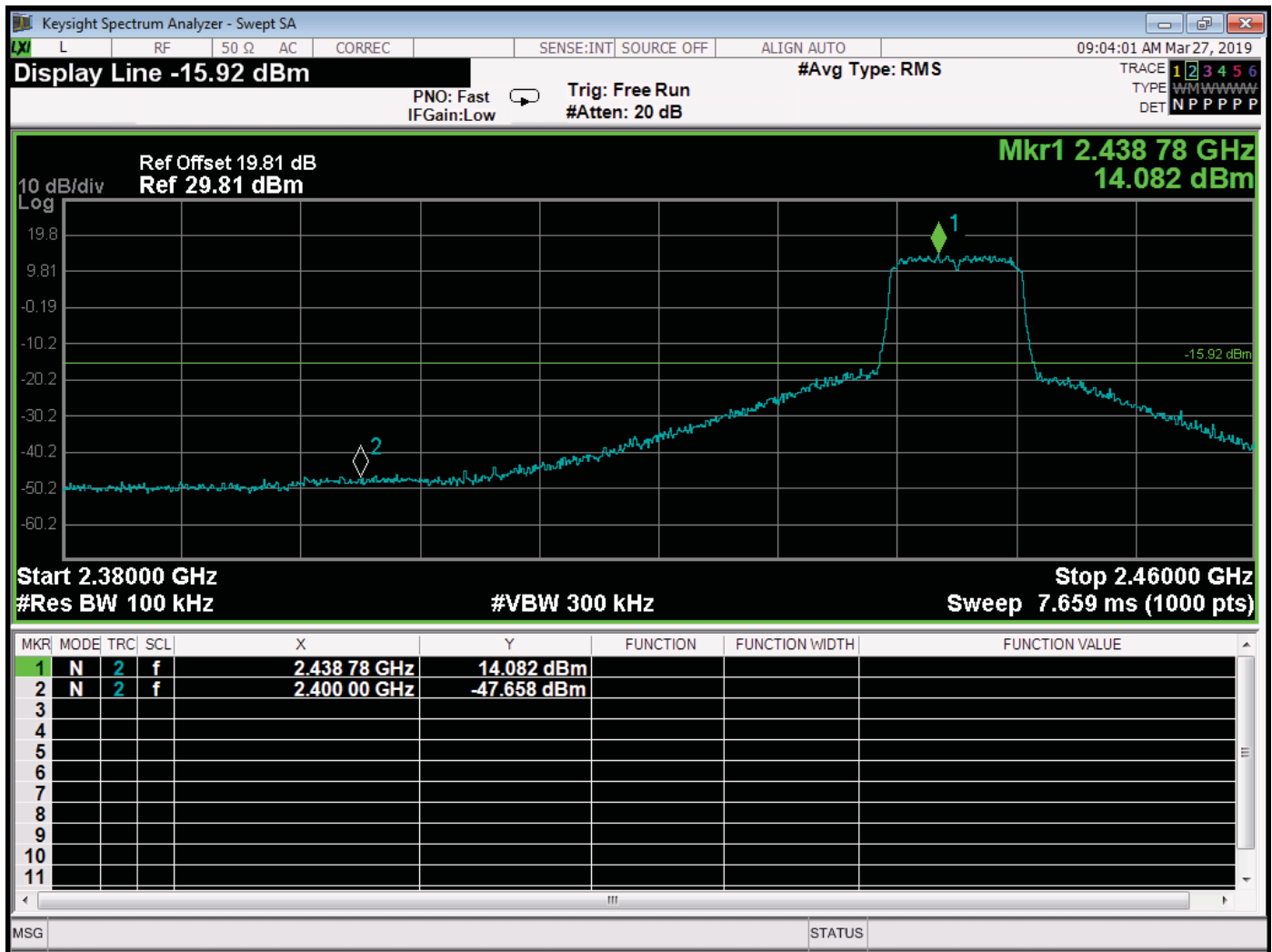
Band Edge at 2400 MHz – 2440 MHz Fundamental – 10 MHz Bandwidth – Port #1



Band Edge at 2400 MHz – 2440 MHz Fundamental – 20 MHz Bandwidth – Port #1

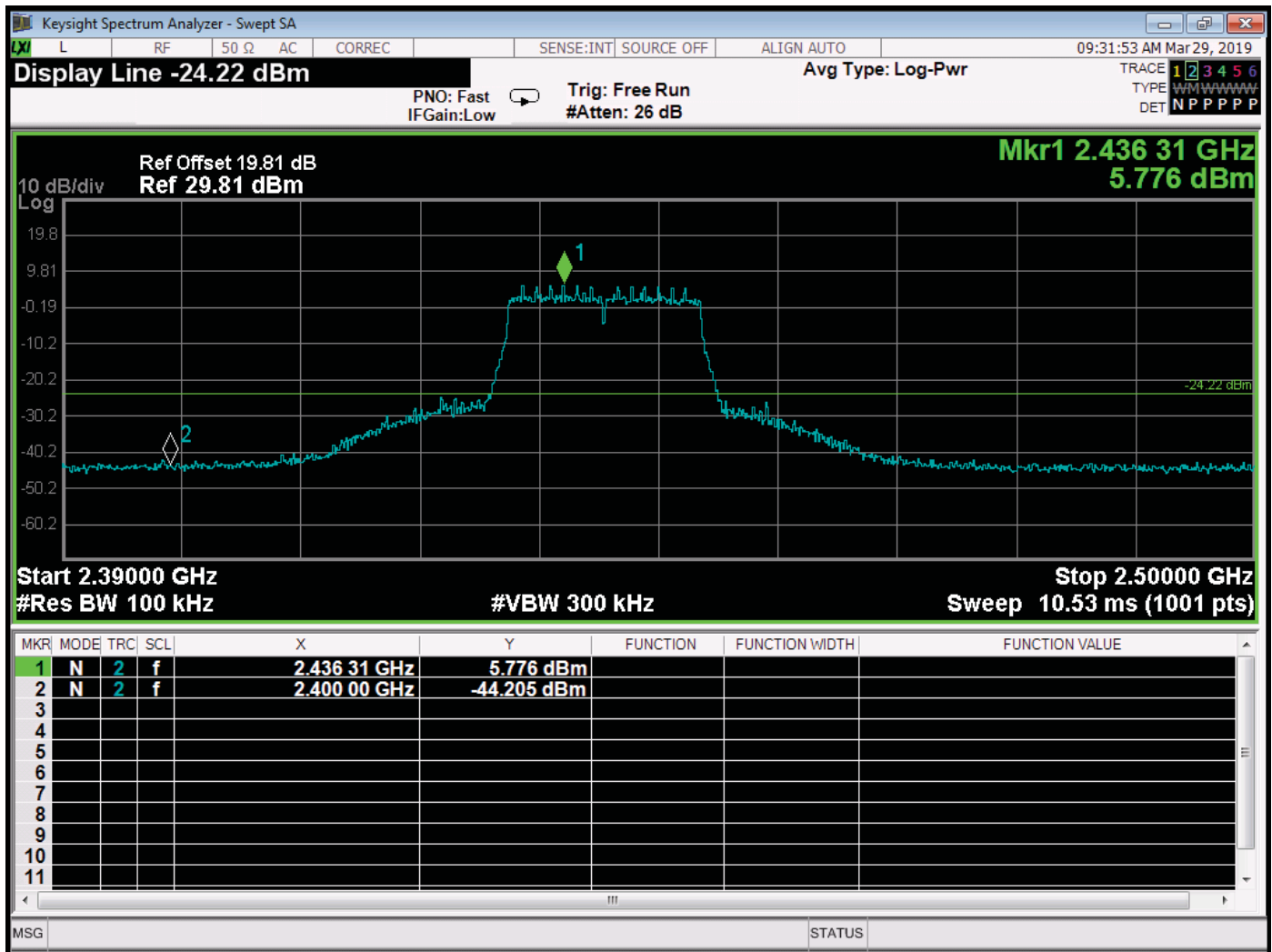


Band Edge at 2400 MHz – 2430 MHz Fundamental – 10 MHz Bandwidth – Port #2



Band Edge at 2400 MHz – 2440 MHz Fundamental – 10 MHz Bandwidth – Port #2





Band Edge at 2400 MHz – 2440 MHz Fundamental – 20 MHz Bandwidth – Port #2