



**F2 Labs**  
**16740 Peters Road**  
**Middlefield, Ohio 44062**  
**United States of America**  
**[www.f2labs.com](http://www.f2labs.com)**

## **CERTIFICATION TEST REPORT**

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**Manufacturer:** Libra Industries, Inc.  
7770 Division Drive  
Mentor, Ohio 44060 USA

**Applicant:** 7signal Solutions, Inc.  
526 South Main Street, Suite 601G  
Akron, Ohio 44311 USA

**Product Description:** **802.11ac Dual Band Module**

**Product Host:** Sapphire Eye 2100, model 2100

**Modular Radio Model:** **WLE900VX-7S**

**Radio Module FCC ID:** **YLFSE2100WL**

**Testing Commenced:** May 22, 2015

**Testing Ended:** July 14, 2015

**Summary of Test Results:** **In Compliance**

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

**Rule(s):**

- **FCC Part 15 Subpart E – Unlicensed National Information Infrastructure Devices, Section 15.407 General technical requirements**
- **FCC15.207 - Conducted Limits**



Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

**Evaluation Conducted by:**

Joe Knepper, EMC Proj. Eng.

**Report Reviewed by:**

Ken Littell, EMC Tech. Mgr.

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## 1 ADMINISTRATIVE INFORMATION

### 1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

### 1.2 Measurement Procedure:

All measurements were performed according to the 2009 version of ANSI C63.4 and recommended FCC procedure of measurement of DTS operating under Section 15.407 and in KDB789033. A list of the measurement equipment can be found in Section 6.

### 1.3 Uncertainty Budget:

Radiated Emission

- Combined Uncertainty (+ or -) 2.24 dB
- Expanded Uncertainty (+ or -) 4.48 dB

Conducted Emissions

- Combined Uncertainty (+ or -) 1.88 dB
- Expanded Uncertainty (+ or -) 3.75 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 1.4 Document History

| Document Number        | Description                                                   | Issue Date    | Approved By |
|------------------------|---------------------------------------------------------------|---------------|-------------|
| F2LQ7176-02E           | First Issue                                                   | Aug. 25, 2015 | K. Littell  |
| F2LQ7176-02E<br>Rev. 1 | Addition of Radiated<br>Spurs test data for 80M<br>5.47-5.725 | Sept. 2, 2015 | K. Littell  |
|                        |                                                               |               |             |

**2 SUMMARY OF TEST RESULTS****5.1 GHz**

| Test Name                  | Standard(s)                                        | Results  |
|----------------------------|----------------------------------------------------|----------|
| Radiated Spurious Emission | CFR 47 Part 15.407(b)(1) / Part 15.209 / KDB789033 | Complies |

**5.8 GHz**

| Test Name                  | Standard(s)                                        | Results  |
|----------------------------|----------------------------------------------------|----------|
| Radiated Spurious Emission | CFR 47 Part 15.407(b)(4) / Part 15.209 / KDB789033 | Complies |

**5.47-5.725 GHz**

| Test Name                  | Standard(s)                                        | Results  |
|----------------------------|----------------------------------------------------|----------|
| Radiated Spurious Emission | CFR 47 Part 15.407(b)(4) / Part 15.209 / KDB789033 | Complies |

**5.25-5.35 GHz**

| Test Name                  | Standard(s)                                        | Results  |
|----------------------------|----------------------------------------------------|----------|
| Radiated Spurious Emission | CFR 47 Part 15.407(b)(4) / Part 15.209 / KDB789033 | Complies |

**Power Over Ethernet**

| Test Name                  | Standard(s)                                        | Results  |
|----------------------------|----------------------------------------------------|----------|
| Radiated Spurious Emission | CFR 47 Part 15.407(b)(4) / Part 15.209 / KDB789033 | Complies |
| Conducted Emissions        | CFR 47 Part 15.207(a)                              | Complies |

**Modifications Made to the Equipment**

None



### **3 ENGINEERING STATEMENT**

This report has been prepared on behalf of 7signal Solutions, Inc. to provide documentation for the testing described herein. This equipment has been tested and found to comply with Part 15.407 of the FCC Rules using ANSI C63.4 and KDB789033 standards. The test results found in this test report relate only to the items tested.

The client has declared that no adjustments were made to the power of the unit as provided by the radio manufacturer. This test report is for a Class II permissive change and the power setting is identical to the power setting used for original filling.



#### 4 EUT INFORMATION AND DATA

##### 4.1 Equipment Under Test:

###### 802.11ac Dual Band Module

Modular Radio Model: WLE900VX-7S

Radio Module FCC ID: YLFSE2100WL

Product Host: Sapphire Eye 2100, model 2100, Serial No.: 121400029

##### 4.2 Trade Name:

7signal Solutions, Inc.

##### 4.3 Power Supply:

AC/DC Adapter Shenzhen Zhen Huan Electric Co. ZF120A-1201500

##### 4.4 Applicable Rules:

CFR 47, Part 15.407, subpart E

##### 4.5 Equipment Category:

Radio Transmitter-U-NII

##### 4.6 Antenna:

6dBi Integral Antenna

##### 4.7 Accessories:

| Equipment Type | Manufacturer | Model      | Serial Number |
|----------------|--------------|------------|---------------|
| Router         | Asus         | RT-AC1900  | E3IA0H005750  |
| PoE Injector   | TP-Link      | TL-POE150S | None Spec.    |

##### 4.8 Test Item Condition:

The equipment to be tested was received in good condition.



#### 4.9 Testing Algorithm:

The EUT was set up in a test mode to continuous transmit at high, mid and low frequencies of the 5.15-5.25GHz, 5.25-5.35GHz, 5.43-5.725GHz, and 5.725-5.85GHz spectrum.

For the 5.15-5.25GHz 20MHz band, 5.18GHz was the Center frequency for the low channel, 5.2GHz was the Center frequency for the mid channel, and 5.24GHz was the Center frequency for the high channel. For the 40MHz band, 5.19 GHz was the Center frequency for the low channel, and 5.23 GHz was the Center frequency for the high channel. For the 80MHz band, there was only one center frequency and it was 5.21GHz.

For the 20MHz 5.25-5.35 band, 5.26GHz was the Center frequency for the low channel, 5.28GHz was the Center frequency for the mid channel, and 5.32GHz was the Center frequency for the high channel. For the 40MHz band, 5.27GHz was the Center frequency for the low channel, and 5.31GHz was the Center frequency for the high channel. For the 80MHz band, there was only one channel and it was a 5.29GHz center frequency.

For the 20MHz 5.47-5.725GHz band, 5.5GHz was the Center frequency for the low channel, 5.6GHz was the Center frequency for the mid channel, and 5.7GHz was the Center frequency for the high channel. For the 40MHz band, 5.51 was the Center frequency for the low channel, 5.59GHz was the Center frequency for the mid channel and 5.67GHz was the center for the high channel. For the 80MHz band, 5.53 was the center frequency for the low channel and 5.61GHz was the center frequency for the high channel.

For the 20MHz 5.725-5.85 band, 5.745GHz was the Center frequency for the low channel, 5.785GHz was the Center frequency for the mid channel, and 5.825GHz was the Center frequency for the high channel. For the 40MHz band, 5.755GHz was the Center frequency for the low channel, and 5.795GHz was the Center frequency for the high channel. For the 80MHz band, 5.775 GHz was the center frequency.

EUT was powered at 120V, 60 Hz. The highest emissions were recorded in the data tables.

**5 LIST OF MEASUREMENT INSTRUMENTATION**

| Equipment Type                  | Asset Number           | Manufacturer        | Model                           | Serial Number | Calibration Due Date |
|---------------------------------|------------------------|---------------------|---------------------------------|---------------|----------------------|
| Shielded Chamber                | CL166                  | AlbatrossProjects   | B83117-DF435-T261               | US140023      | Jan. 1, 2016         |
| Shield Room                     | 0175                   | Ray Proof           | N/A                             | 11645         | Verified             |
| Temp/Hum. Recorder              | CL137                  | Extech              | RH520                           | CH16992       | May 7, 2016          |
| Receiver                        | CL151                  | Rohde & Schwarz     | ESU40                           | 100319        | Nov. 12, 2015        |
| Antenna 1-Chamber               | 0142                   | ETS/EMCO            | 3142B                           | 9811-1330     | Verified             |
| Horn Antenna                    | CL098                  | Emco                | 3115                            | 9809-5580     | Dec. 3, 2015         |
| Pre-Amplifier                   | CL045                  | Hewlett-Packard     | 8447D                           | 2944A08445    | Nov. 15, 2015        |
| Pre-Amplifier                   | CL153                  | Hewlett-Packard     | 83006A                          | MY39500900    | May 6, 2016          |
| Amplifier w/Monopole & 18" Loop | CL163                  | A.H. Systems, Inc.  | EHA-52B                         | 100           | Apr. 20, 2016        |
| Software:                       | Tile Version 1.0       |                     | Software Verified: June 1, 2015 |               |                      |
| Software:                       | EMC 32, Version 5.20.2 |                     | Software Verified: June 1, 2015 |               |                      |
| Antenna, JB3 Combination        | CL175                  | Sunol Sciences      | JB3                             | A030315       | Mar. 12, 2016        |
| Antenna, Horn                   | CL114                  | A. H. Systems, Inc. | SAS-572                         | 237           | Oct. 16, 2016        |
| Spectrum Analyzer               | 0141                   | Hewlett Packard     | 8591E                           | 3520A04145    | Sept. 2, 2015        |
| Transient Limiter               | CL102                  | Hewlett Packard     | 11947A                          | 3107A03325    | Feb. 9, 2016         |
| LISN 1                          | 0149                   | Solar               | 8028-50-TS-24-BNC               | 1130          | Jan. 8, 2017         |
| LISN 3                          | 0148                   | Solar               | 8028-50-TS-24-BNC               | 1129          | Jan. 8, 2017         |
| Software:                       | Tile Version 1.0       |                     | Software Verified: June 3, 2015 |               |                      |

**Rental Equipment:**

| Equipment Type | Asset Number | Manufacturer | Model              | Serial Number | Calibration Due Date |
|----------------|--------------|--------------|--------------------|---------------|----------------------|
| Horn Antenna   | 03158A       | Dorado       | GH-28-25           | 070701        | Jan. 14, 2017        |
| Cable          | 02945        | Astrolab     | 32022-2-2909K-36TC | 02945         | Oct. 30, 2015        |
| Cable          | 02946        | Astrolab     | 32022-2-2909K-36TC | 02946         | July 31, 2015        |



## 6 RADIATED SPURIOUS EMISSION

The EUT antenna port was fitted with its integral/internal chip antenna. Radiated emissions were measured in a Semi-Anechoic Chamber. All emissions generated that fall in the restricted bands per FCC Part 15.205 were examined.

### 6.1 Requirements:

All emissions that fall in the restricted bands defined in FCC Part 15.205 shall not exceed the maximum field strength listed in FCC Part 15.209(a).

All other undesirable emission that do not fall under the provisions of Part 15.205, shall meet the following limits:

*“(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.*

*(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.*

*(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.*

*(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.”*

**NOTE:** Per KDB 789033 D02 General UNII Test Procedures New Rules v01, the requirements of 15.407(b)(1) & 15.407(b)(4) are met due to all of the out of band peak and average emissions being below the limits of 15.209.



## 6.2 Radiated Spurious Emission Test Data

|                      |                                                |                           |            |
|----------------------|------------------------------------------------|---------------------------|------------|
| <b>Test Date(s):</b> | June 4-8, 2015                                 | <b>Test Engineer:</b>     | J. Knepper |
| <b>Standards:</b>    | CFR 47 Part 15.407;<br>Part 15.209 / KDB789033 | <b>Air Temperature:</b>   | 21.5°C     |
|                      |                                                | <b>Relative Humidity:</b> | 47%        |

Notes: Plots are peak, max hold prescan data included only to determine what frequencies to investigate and measure. The EUT was initially placed in a semi-anechoic chamber, and rotated in all three orthogonal positions to maximize the emissions. The orthogonal position that showed the highest emissions was used. Characterization measurements were then performed to determine at which frequencies significant emissions occurred. These graphs are shown below.

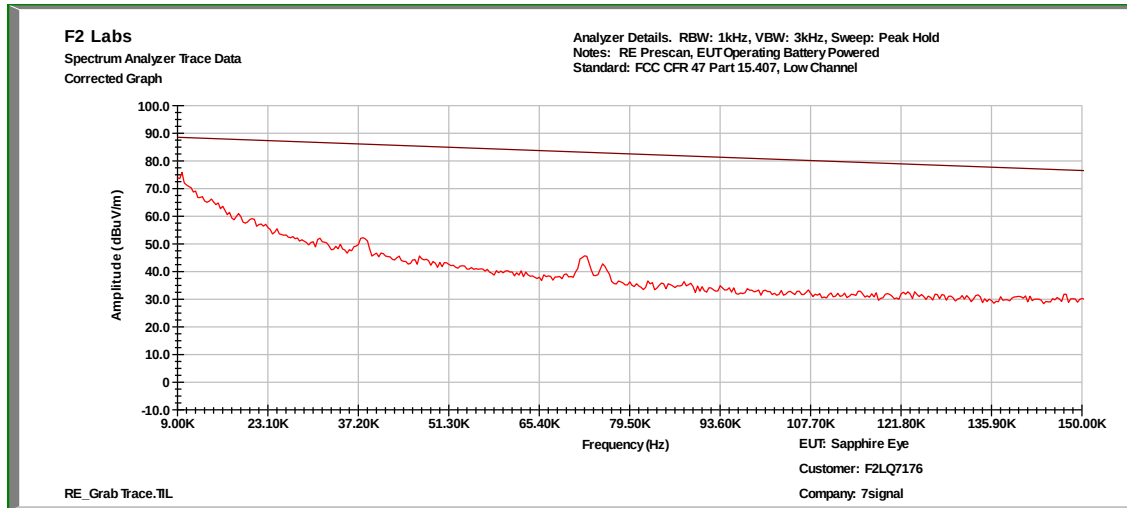
The equipment was fully exercised with all cabling attached to the EUT and was positioned in a semi-anechoic chamber for maximum emissions. While the equipment was energized, the receiving antenna was scanned from 1.0 meter to 4.0 meters in both vertical and horizontal polarities while the turntable was adjusted 360 degrees to determine the maximum field strength. The tables of measured results can be found below.

Some of the frequencies did not change with the EUT on or off. At those frequencies, the test distance was shortened to 1 meter and still no emissions from the EUT were visible or over the ambient or limit.

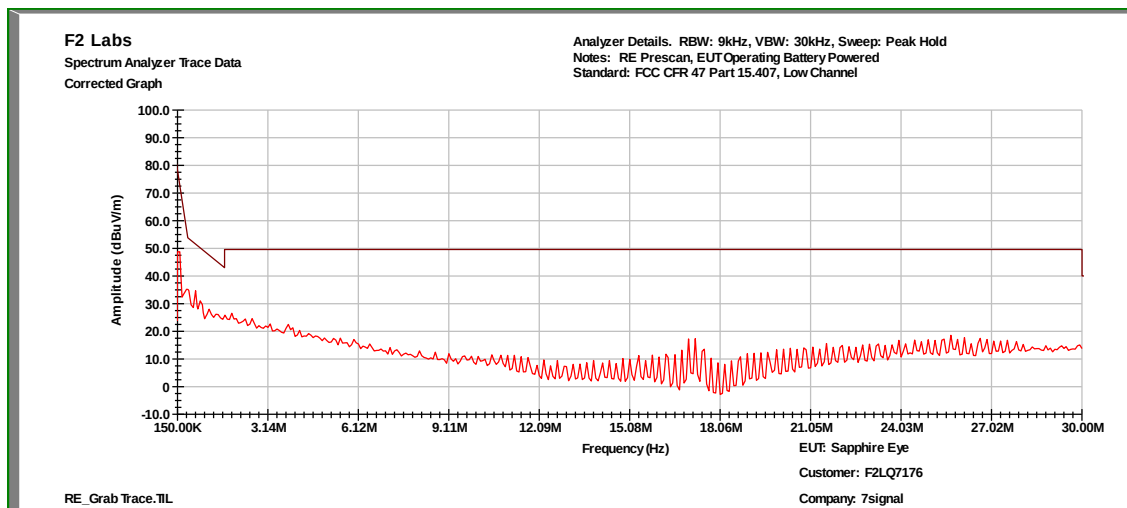
In the following plots, emissions to be found by the EUT were measured and listed in tables. The black lines are ambient while the red lines are the max peak scan of the unit. The plots are for reference only and the limit lines are not actual limit lines but merely a guide.



### 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 9k to 150k

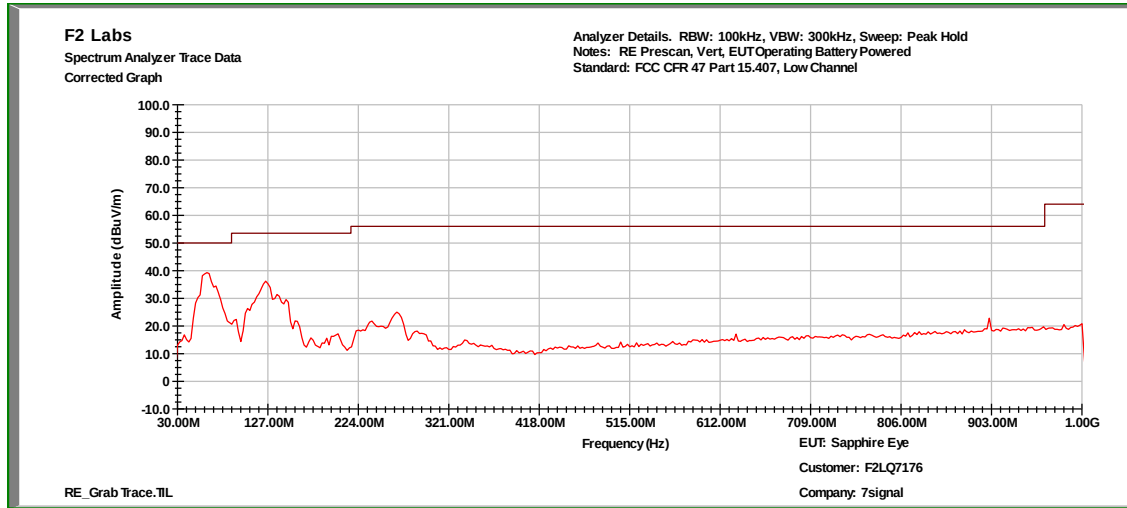


### 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 150k to 30 MHz

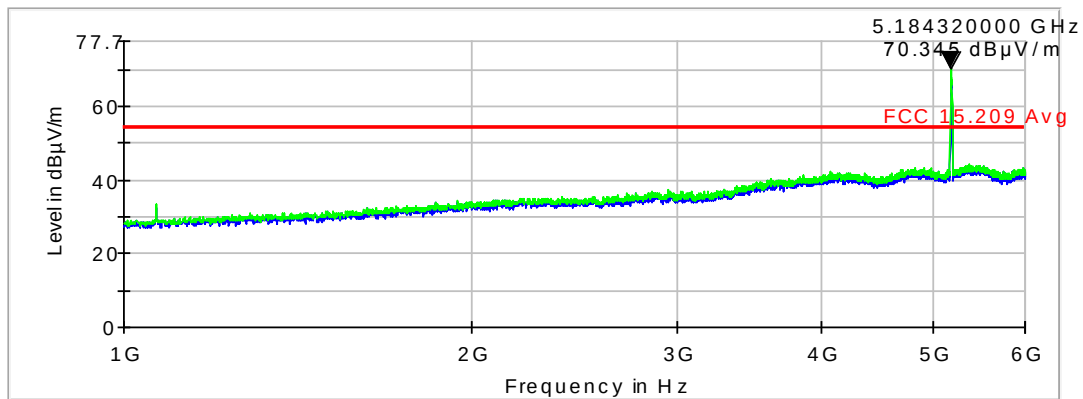




## 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 30 MHz to 1 GHz, Vertical

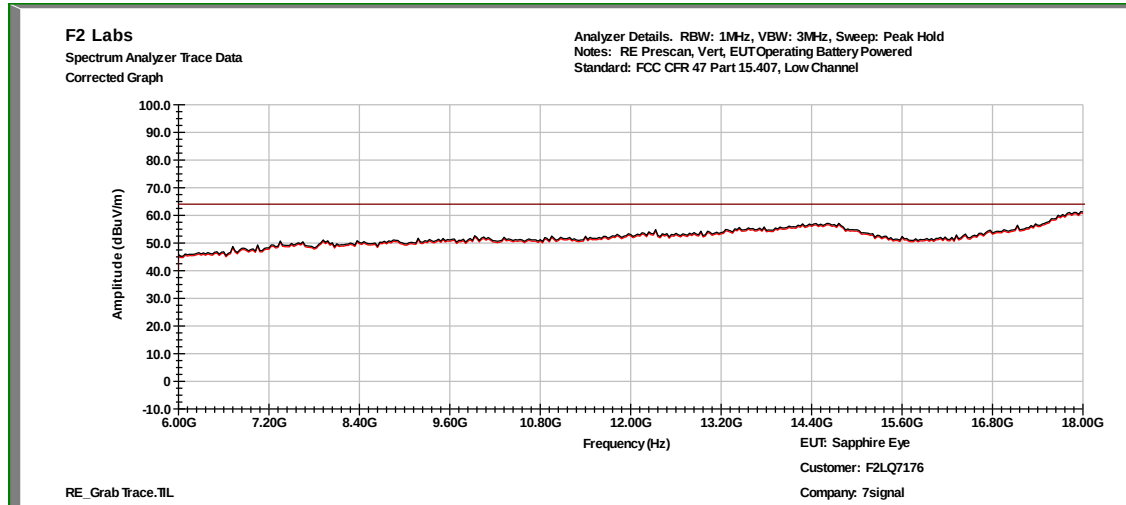


## 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 1 GHz to 6 GHz, Vertical

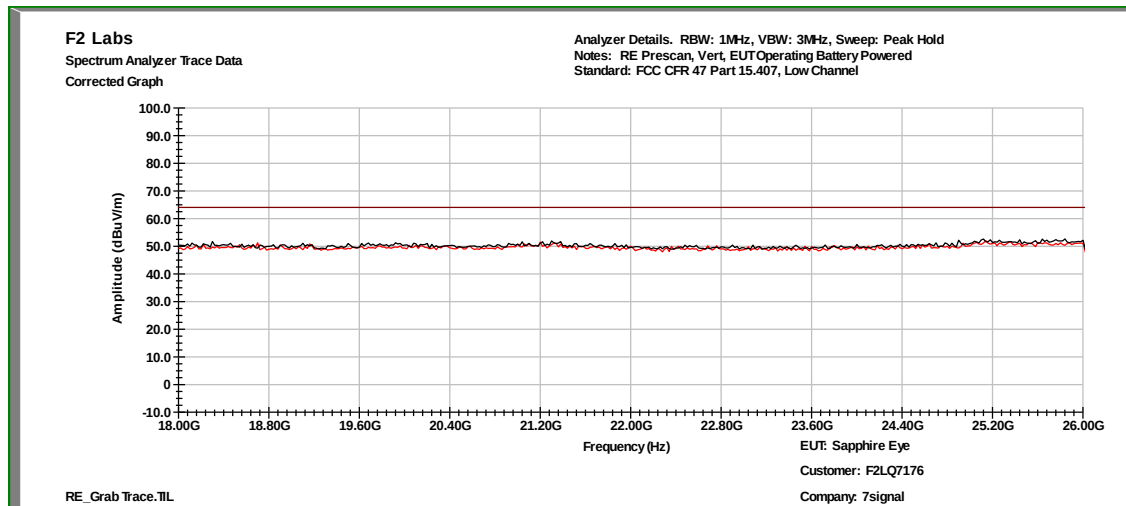




## 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 6 GHz to 18 GHz, Vertical



## 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 18 GHz to 26 GHz, Vertical



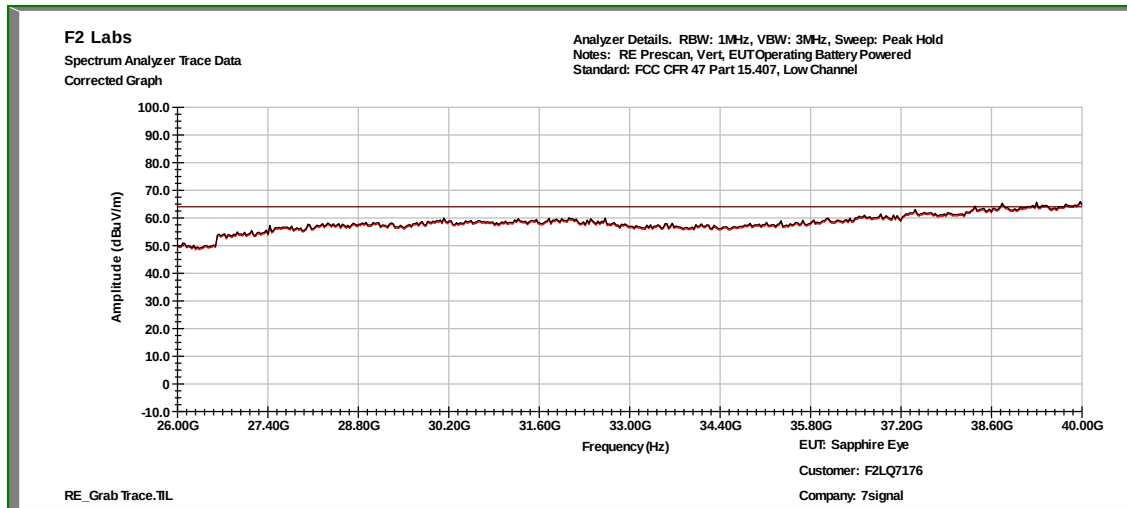


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

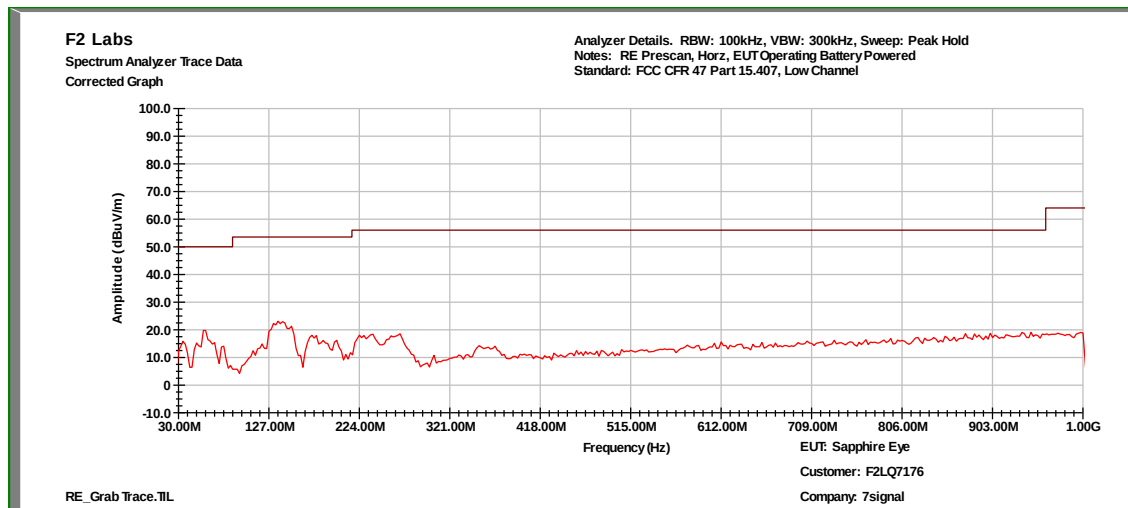
FCC ID: YLFSE2100WL

## 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 26 GHz to 40 GHz, Vertical

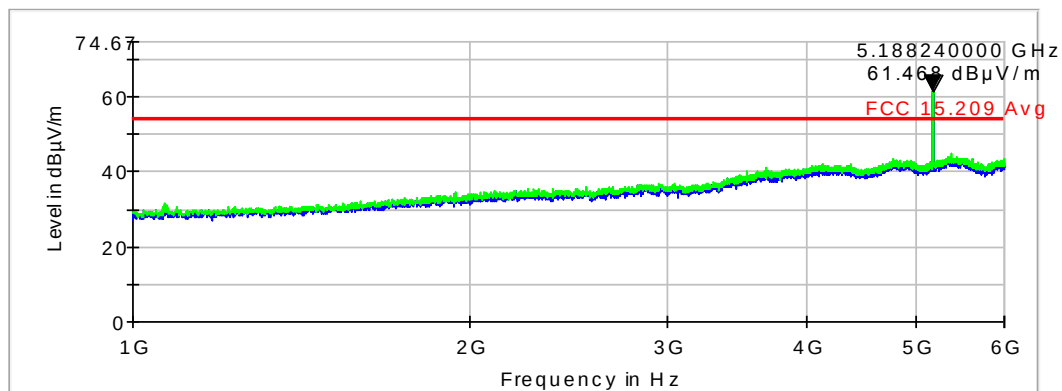




## 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 30 MHz to 1 GHz, Horizontal

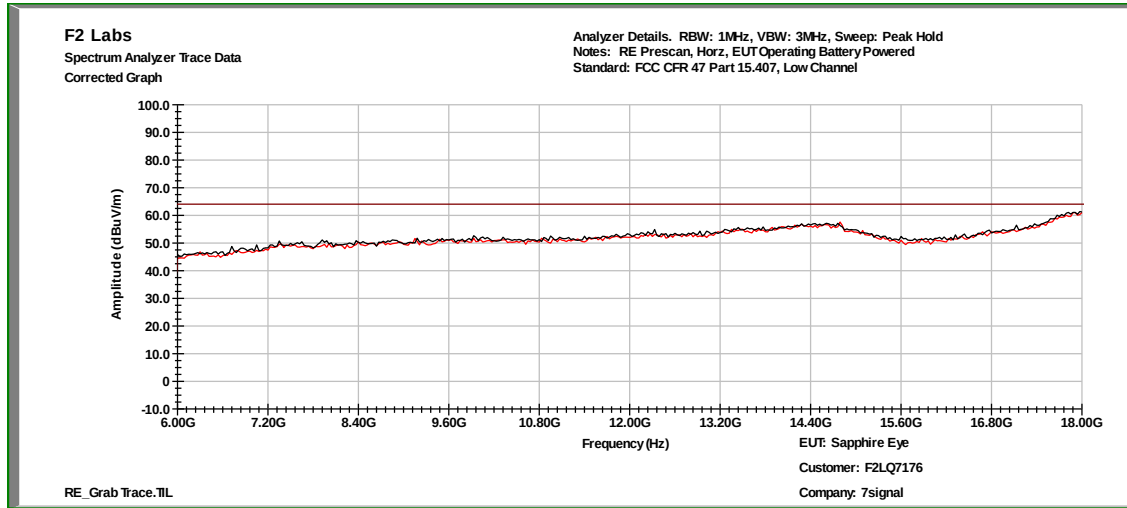


## 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 1 GHz to 6 GHz, Horizontal

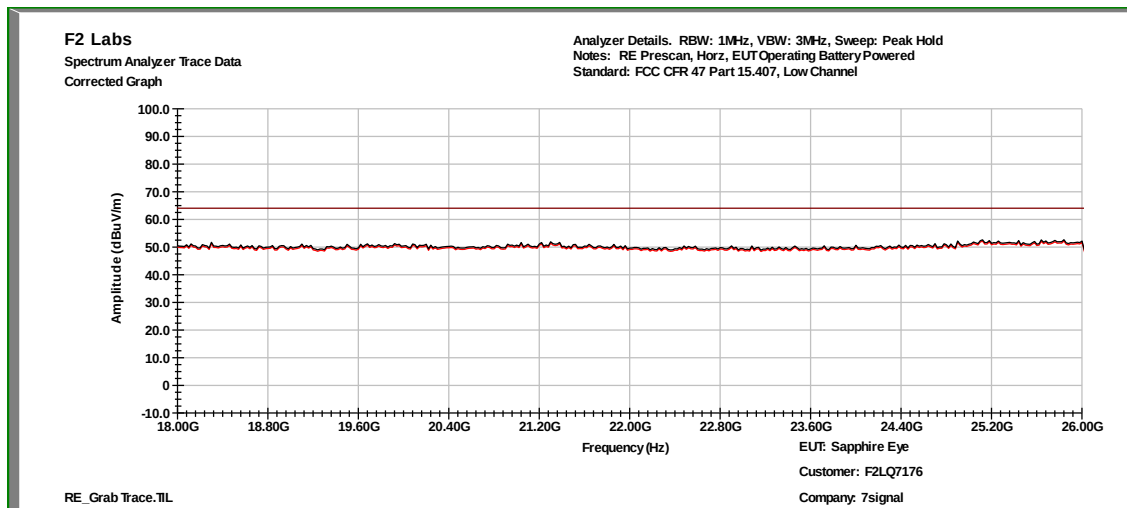




## 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 6 GHz to 18 GHz, Horizontal

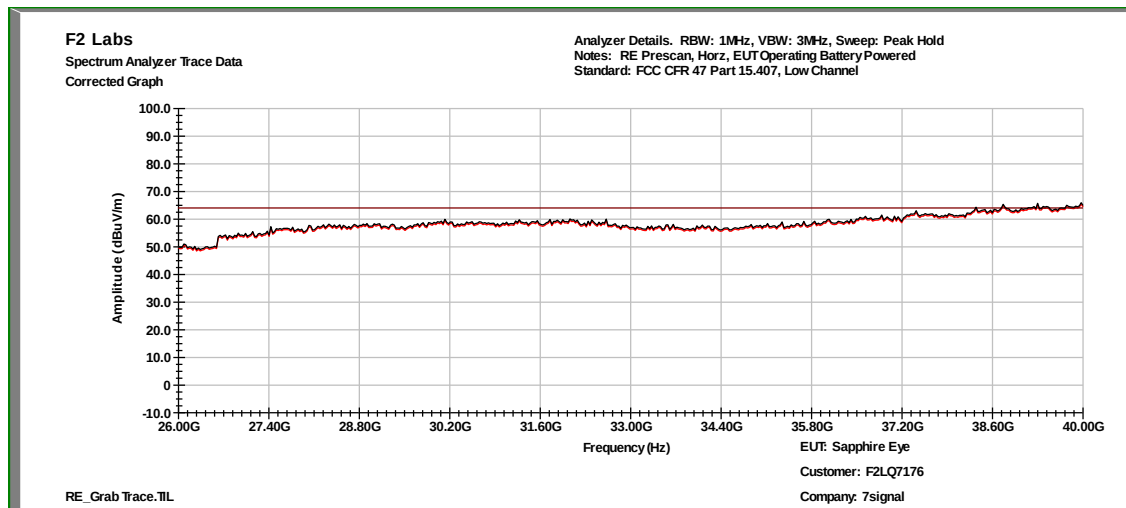


## 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 18 GHz to 26 GHz, Horizontal



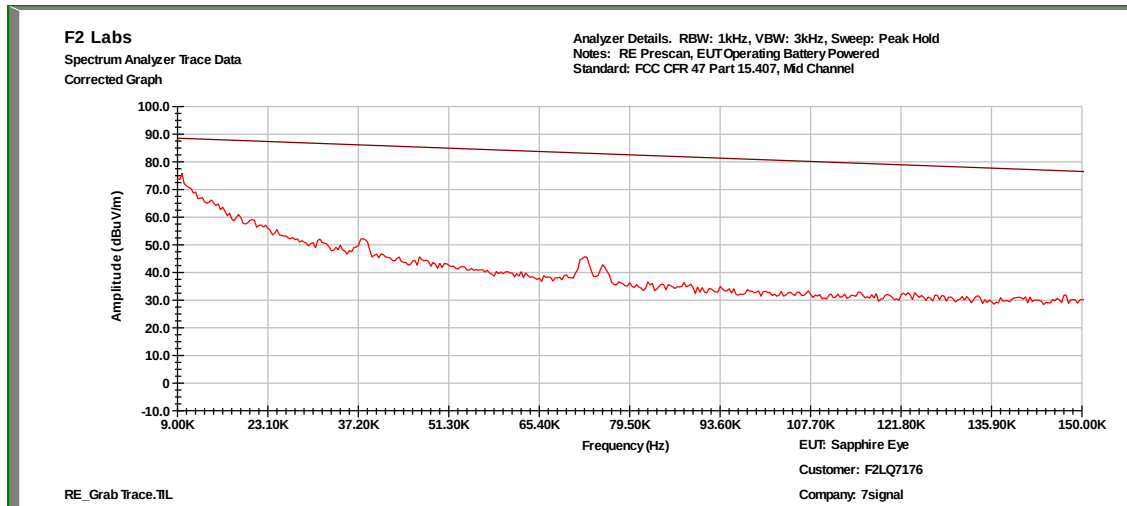


## 5.1 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 26 GHz to 40 GHz, Horizontal

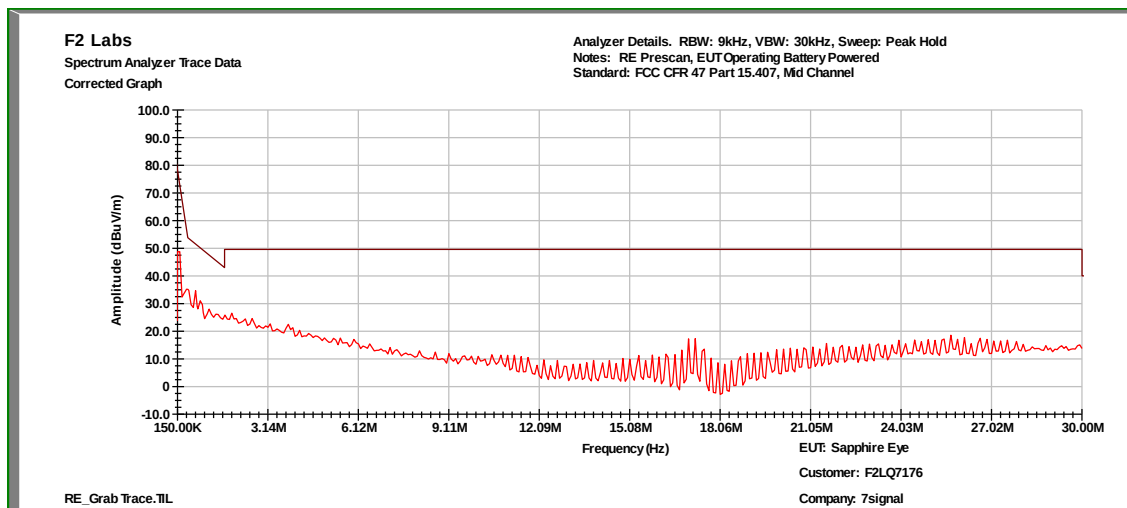




### 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 9k to 150k

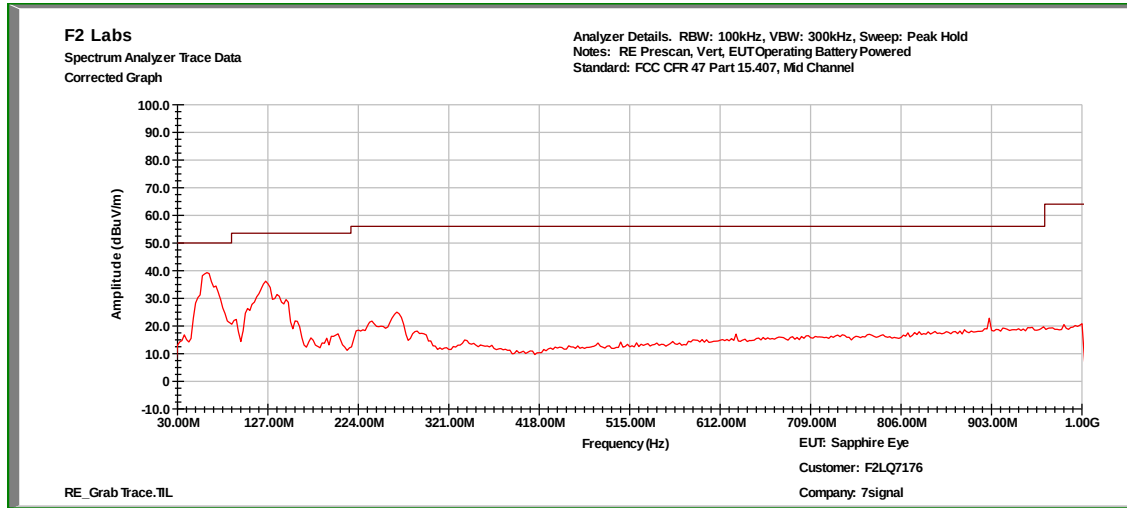


### 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 150k to 30 MHz

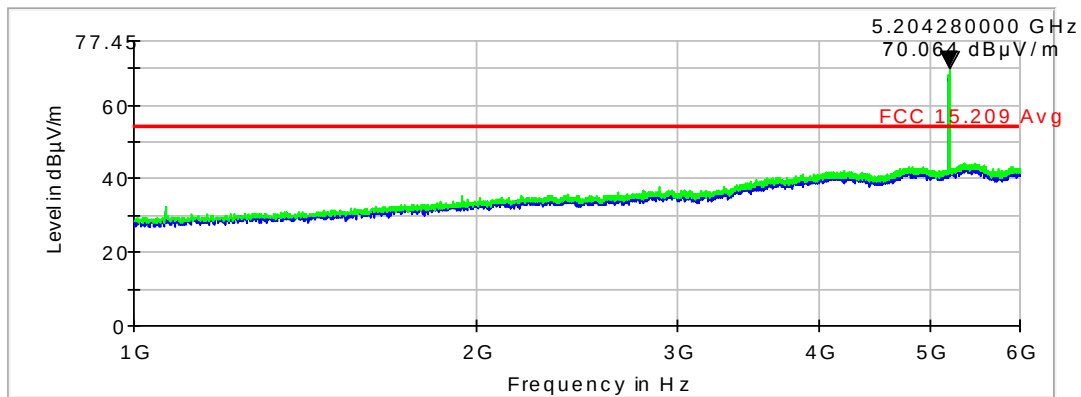




## 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 30 MHz to 1 GHz, Vertical

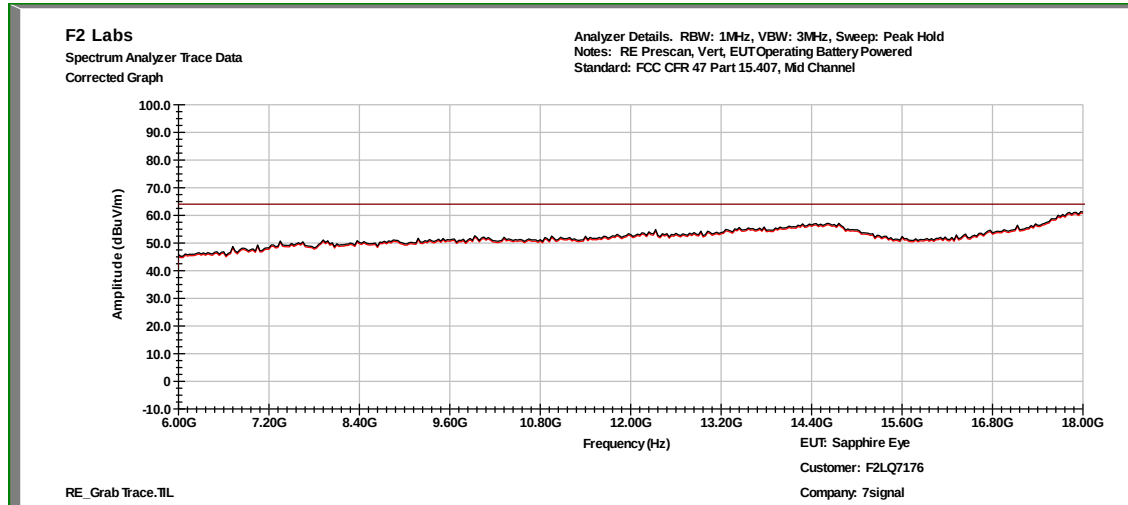


## 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 1 GHz to 6 GHz, Vertical

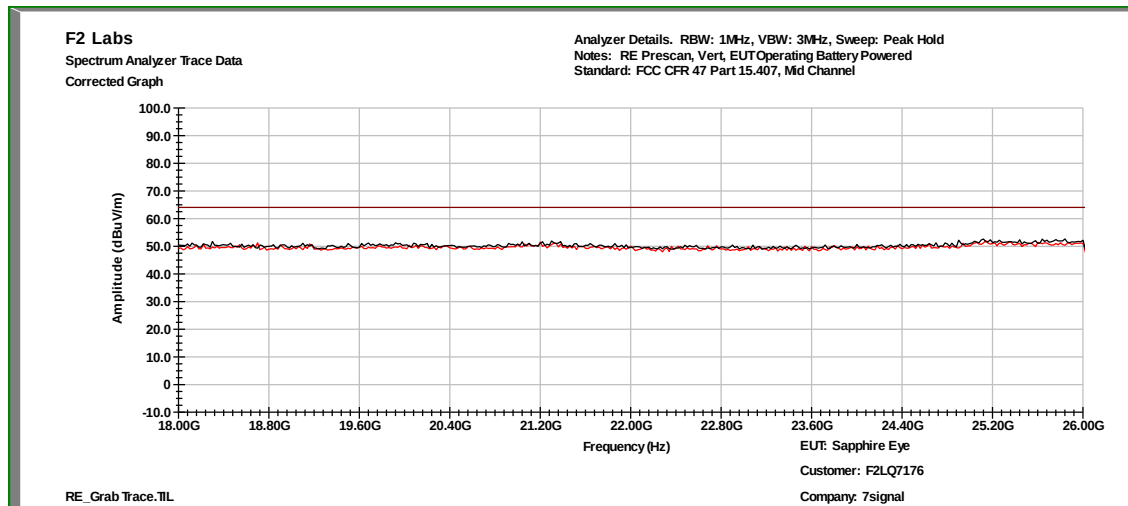




## 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 6 GHz to 18 GHz, Vertical



## 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 18 GHz to 26 GHz, Vertical



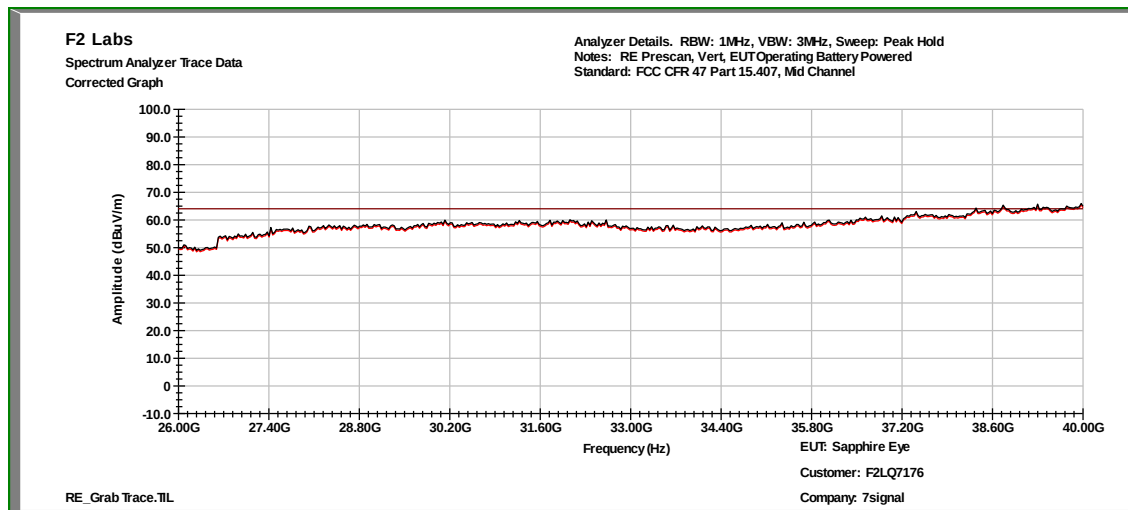


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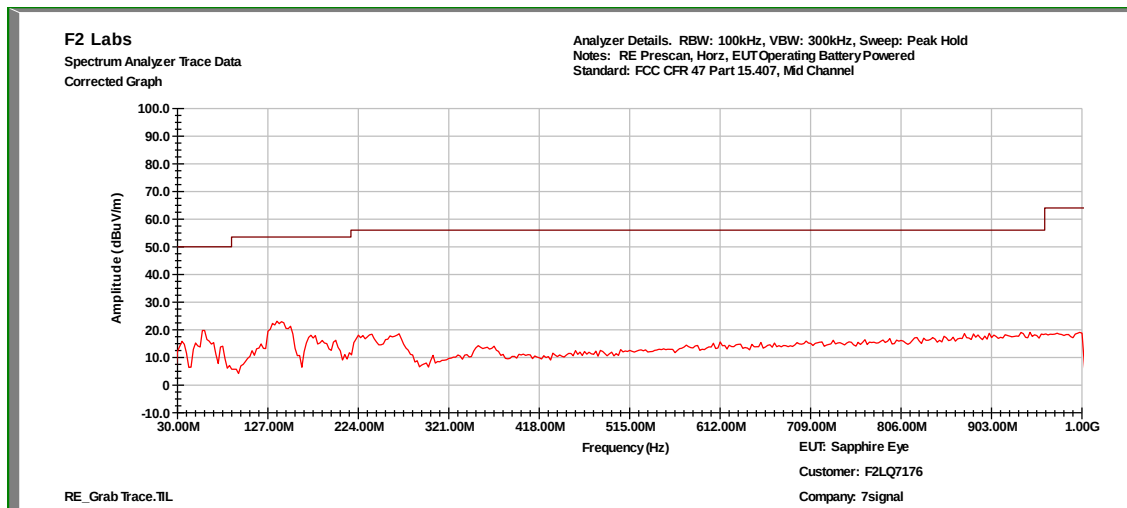
FCC ID: YLFSE2100WL

## 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 26 GHz to 40 GHz, Vertical

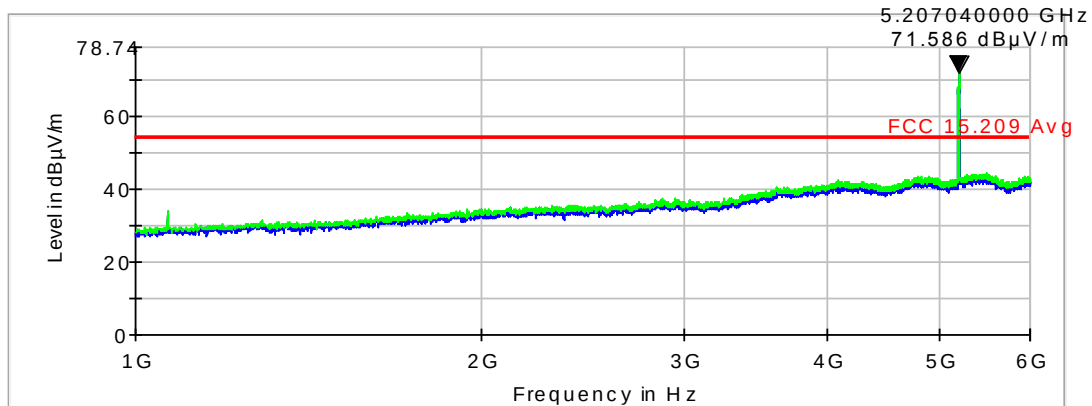




## 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 30 MHz to 1 GHz, Horizontal

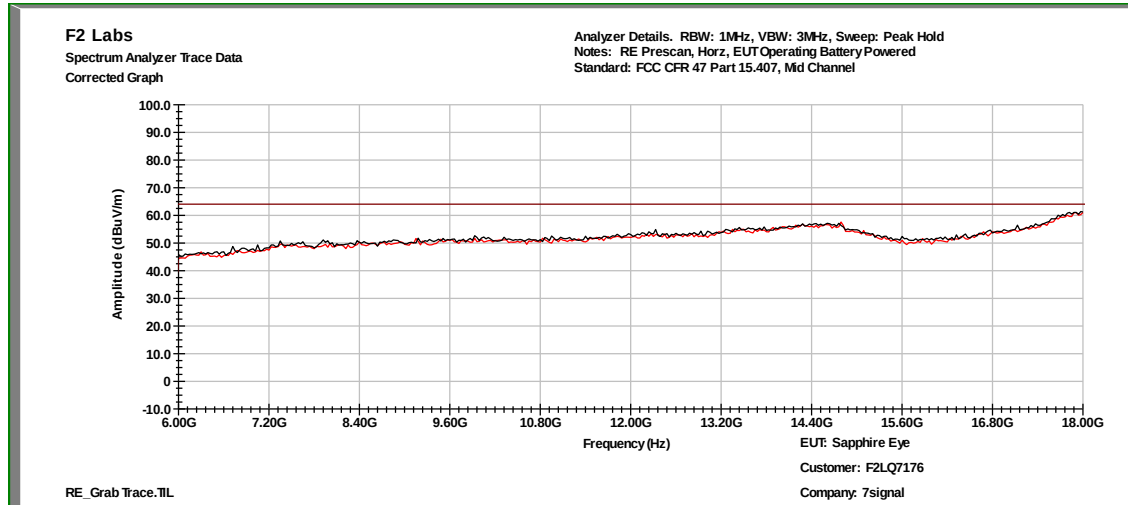


## 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 1 GHz to 6 GHz, Horizontal

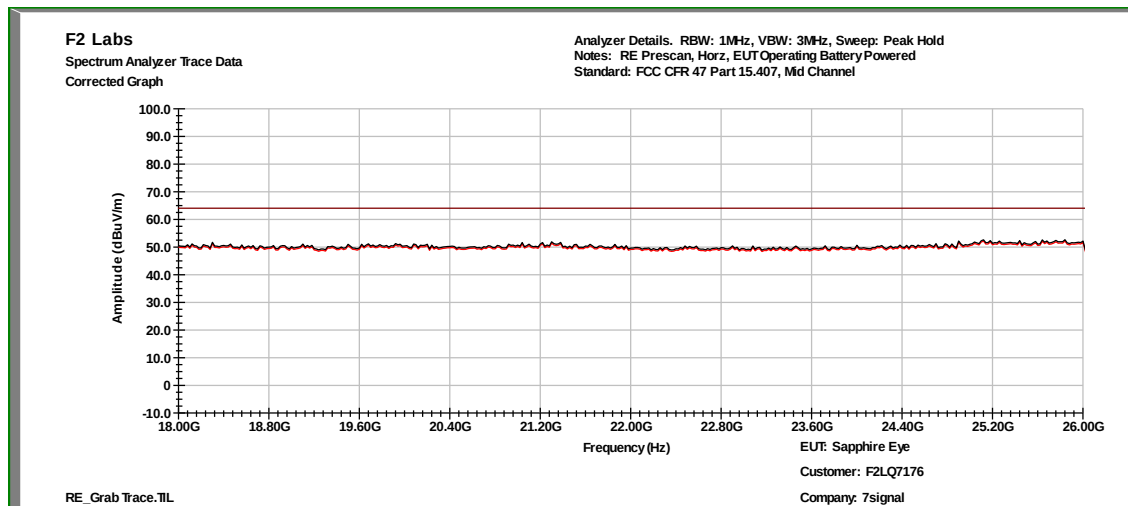




## 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 6 GHz to 18 GHz, Horizontal

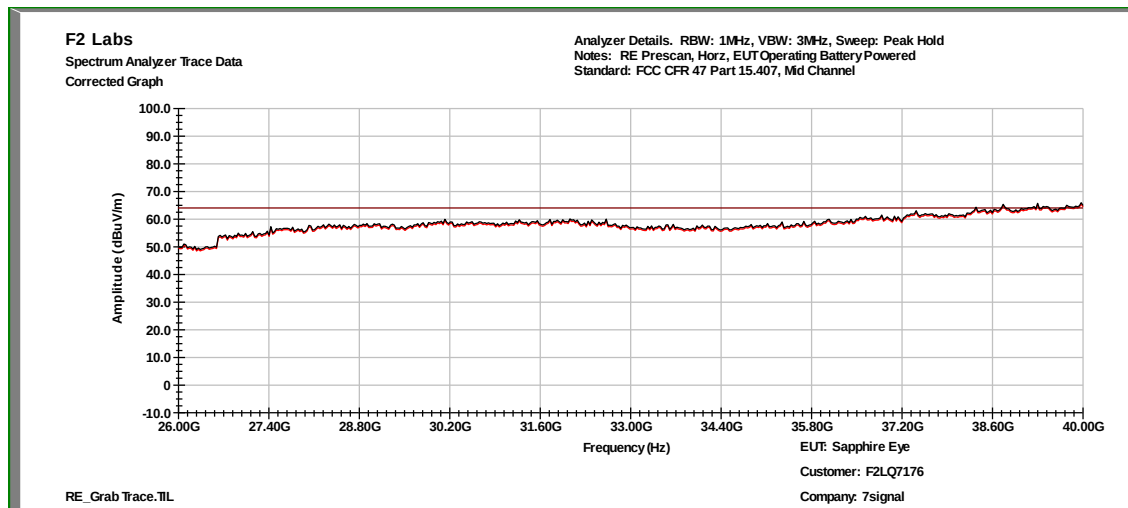


## 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 18 GHz to 26 GHz, Horizontal



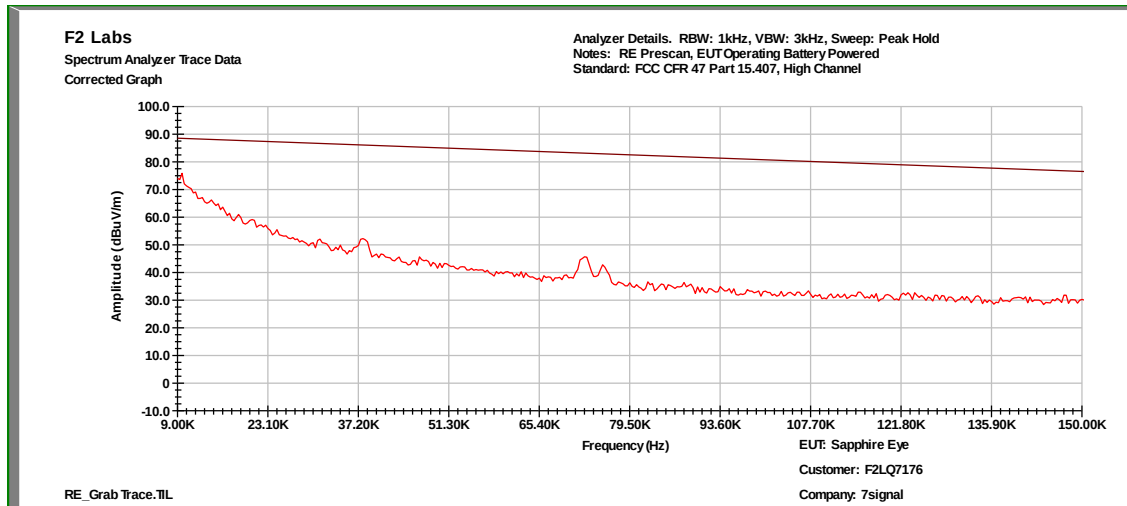


## 5.1 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 26 GHz to 40 GHz, Horizontal

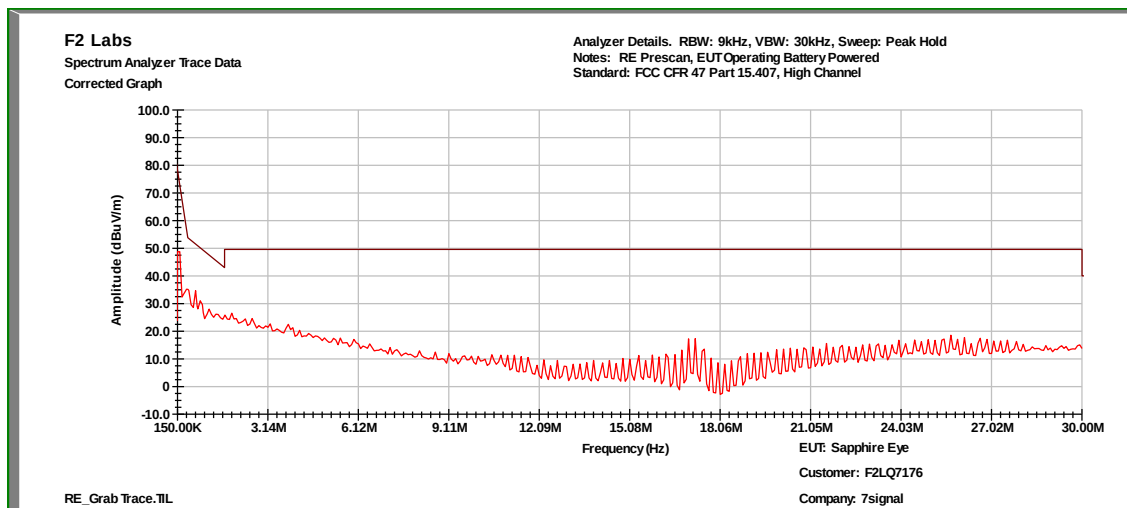




## 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 9k to 150k

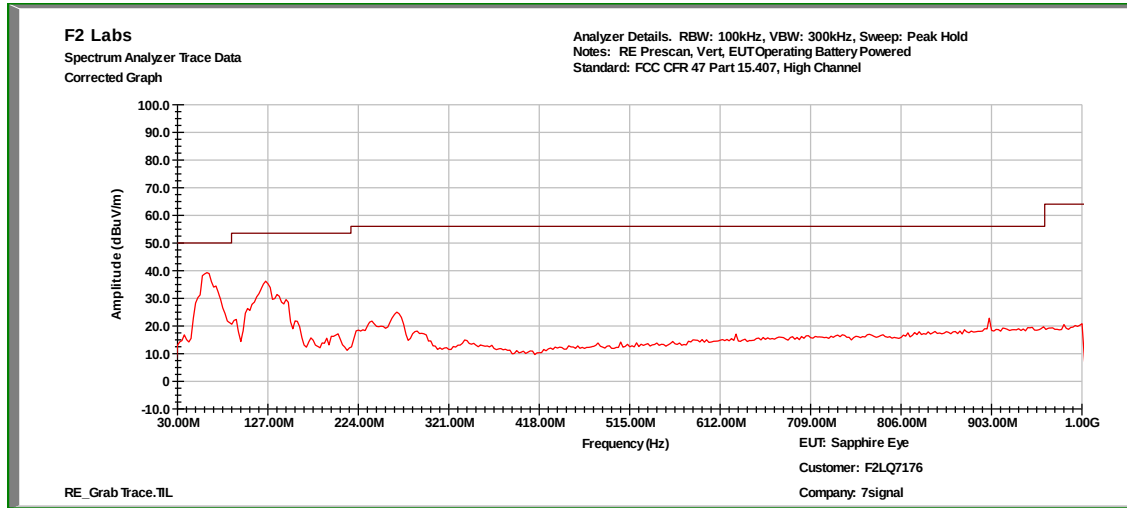


## 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 150k to 30 MHz

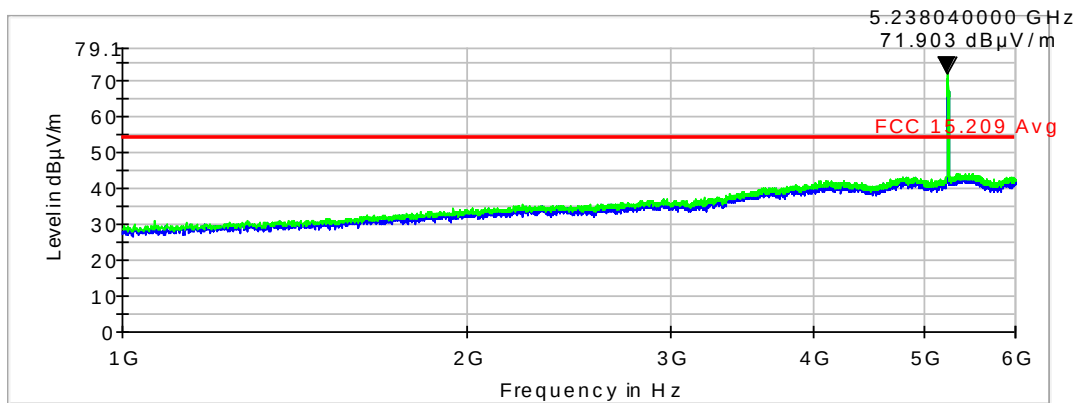




## 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Vertical

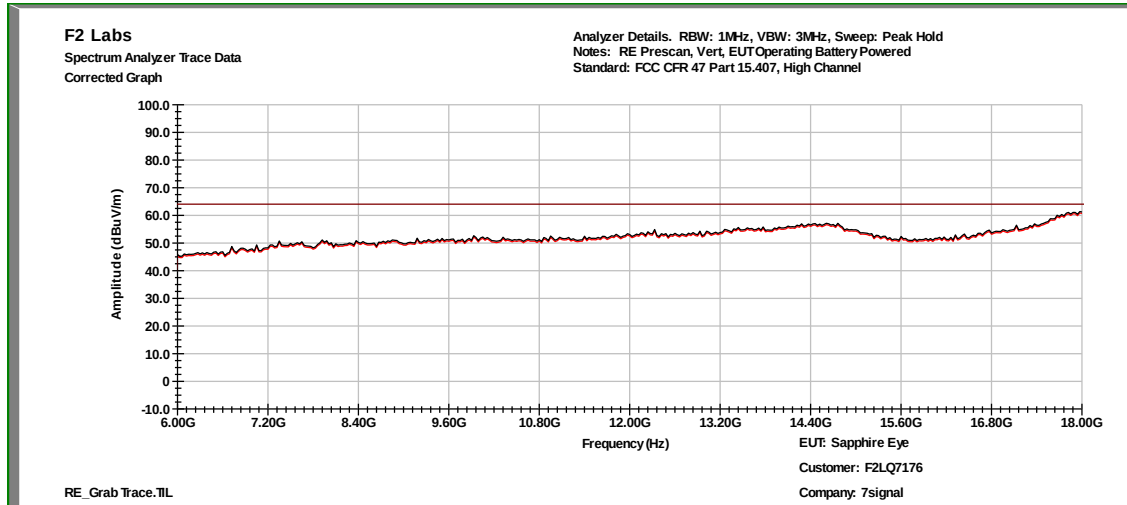


## 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Vertical

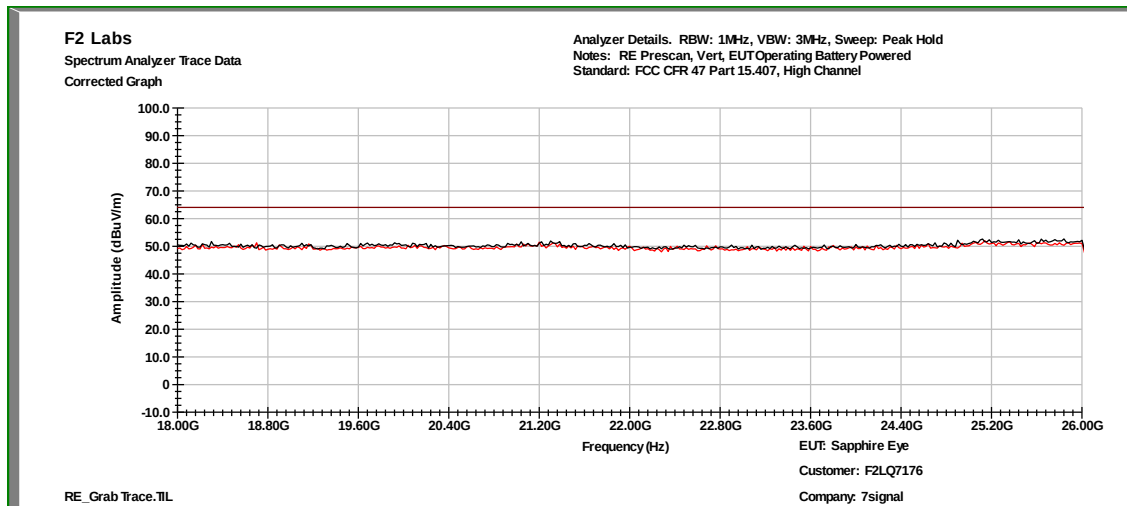




## 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Vertical



## 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Vertical



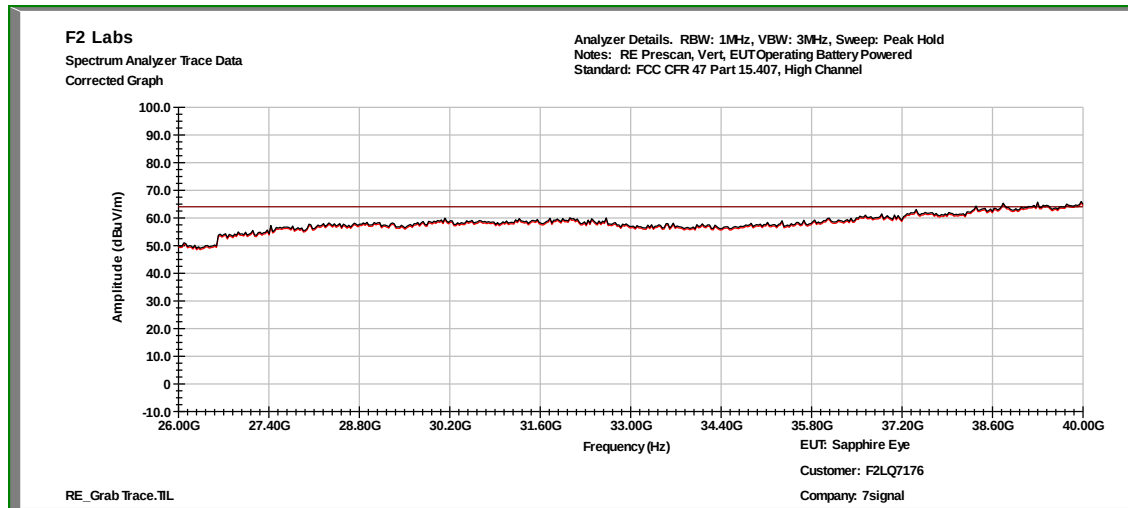


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

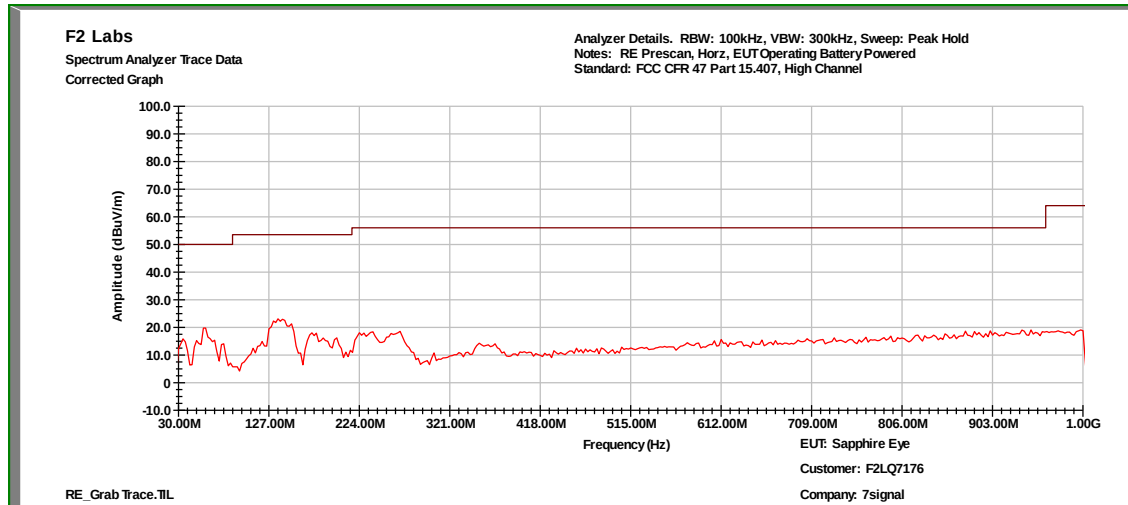
FCC ID: YLFSE2100WL

## 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Vertical

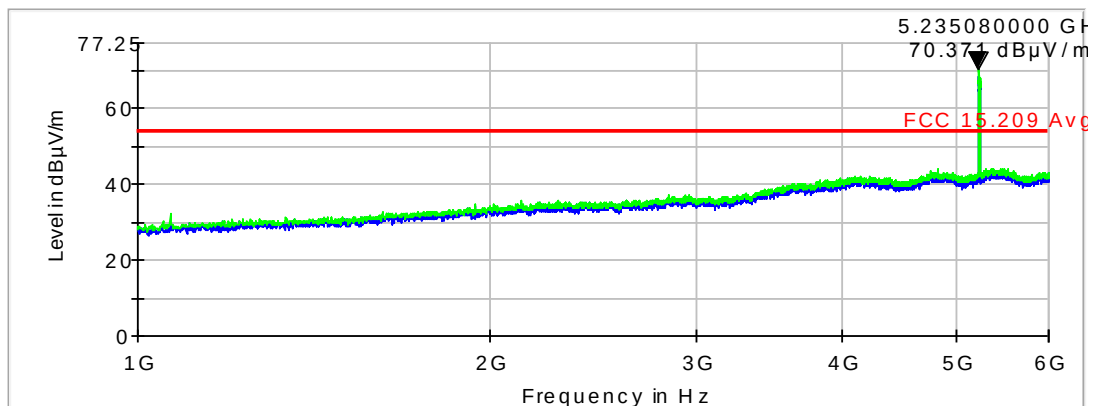




### 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Horizontal

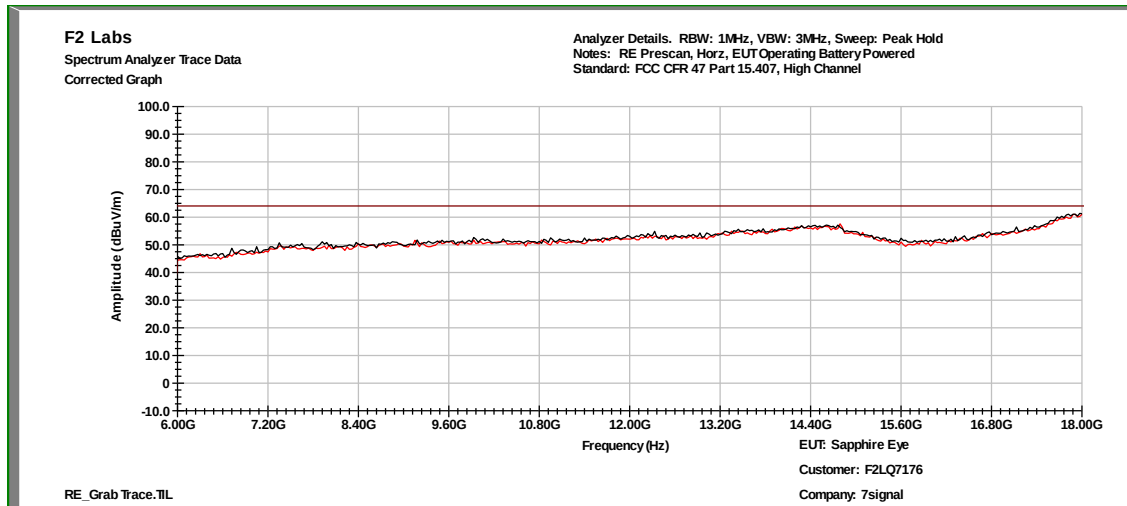


### 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Horizontal

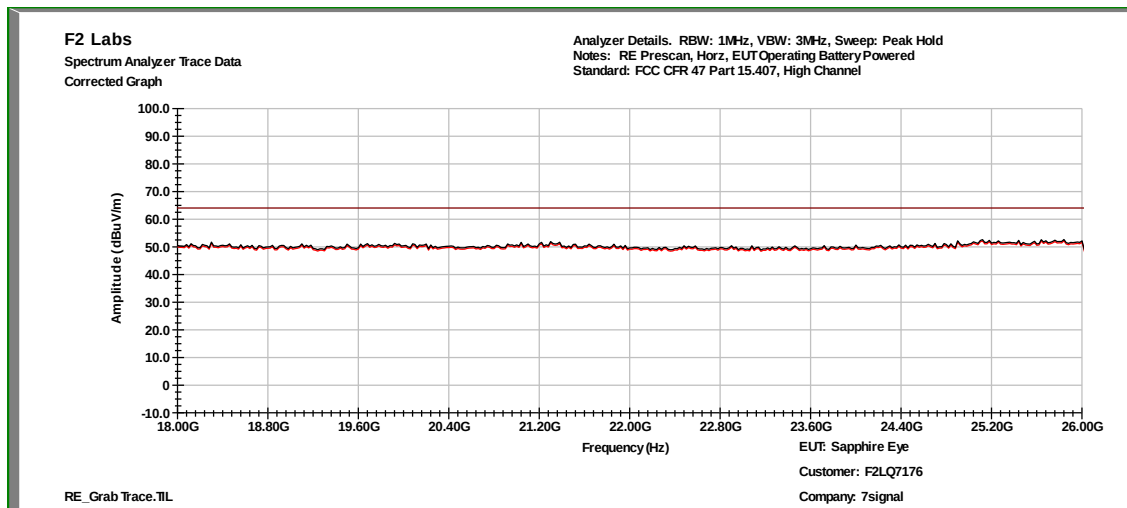




## 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Horizontal

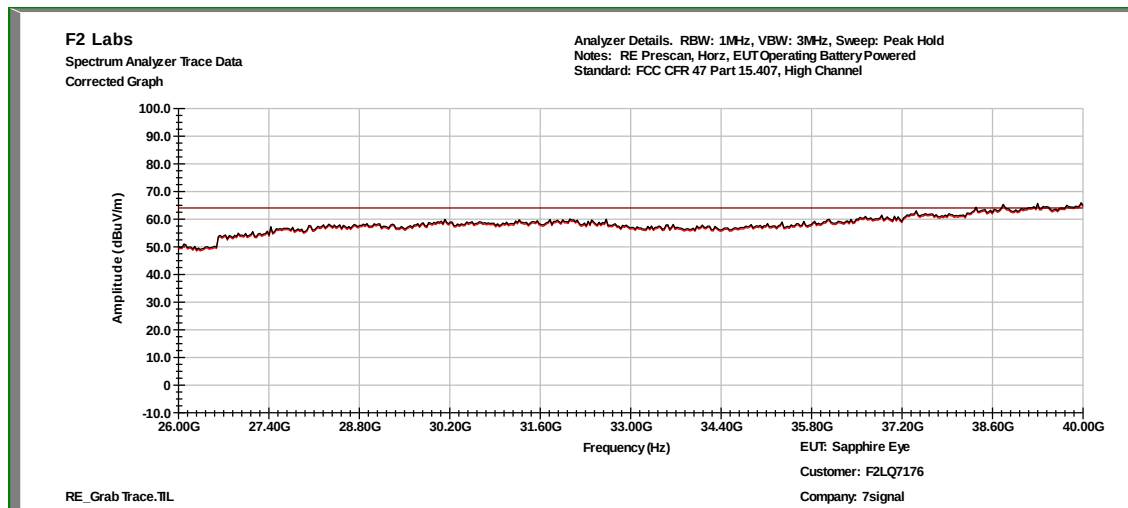


## 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Horizontal



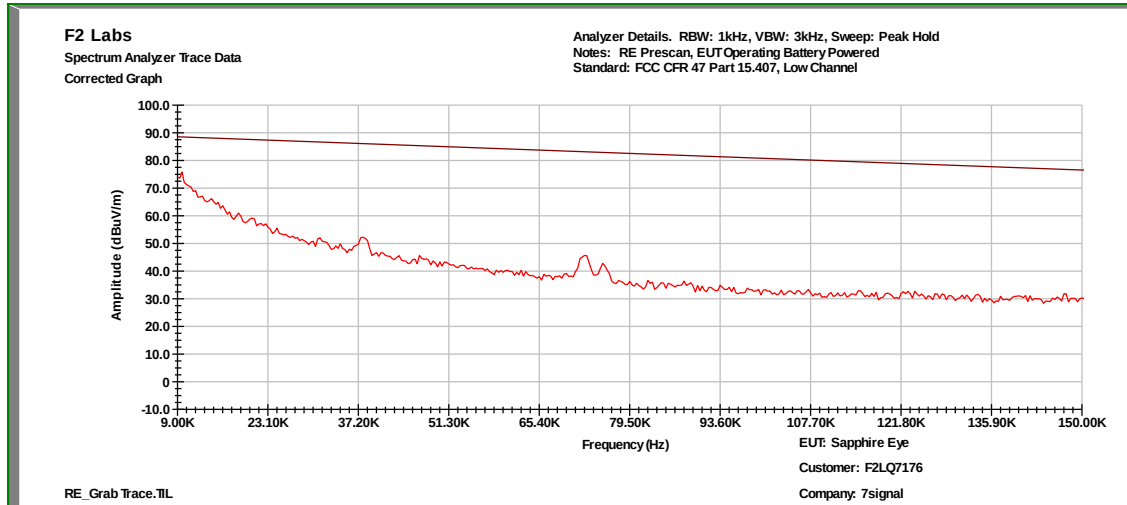


## 5.1 GHZ, 20M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Horizontal

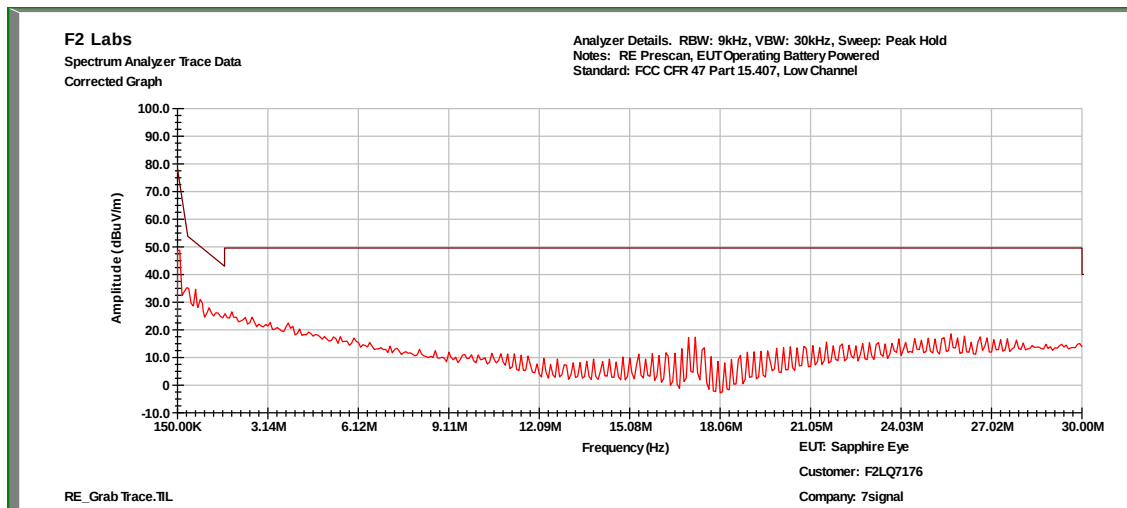




## 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 9k to 150k

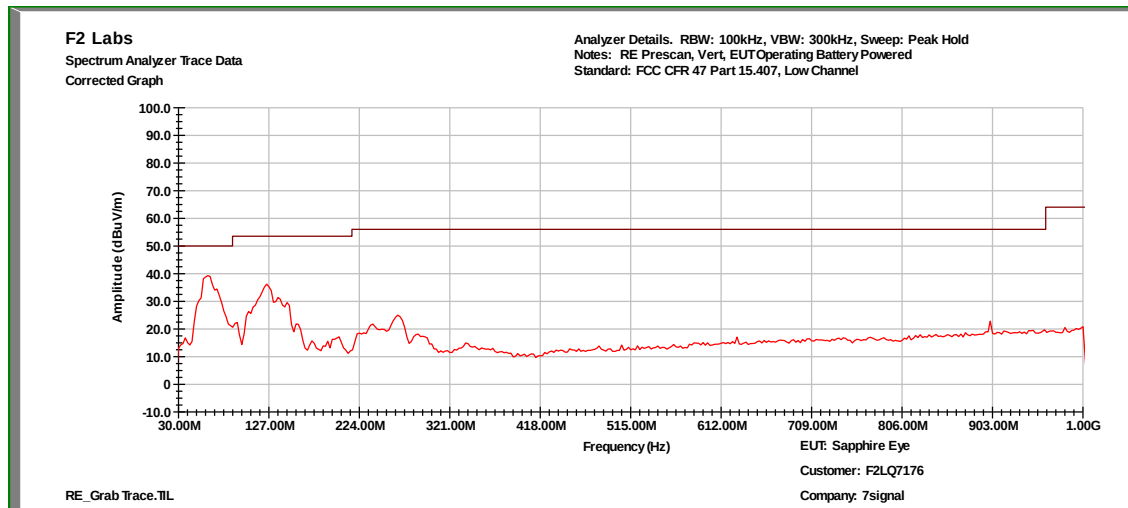


## 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 150k to 30 MHz

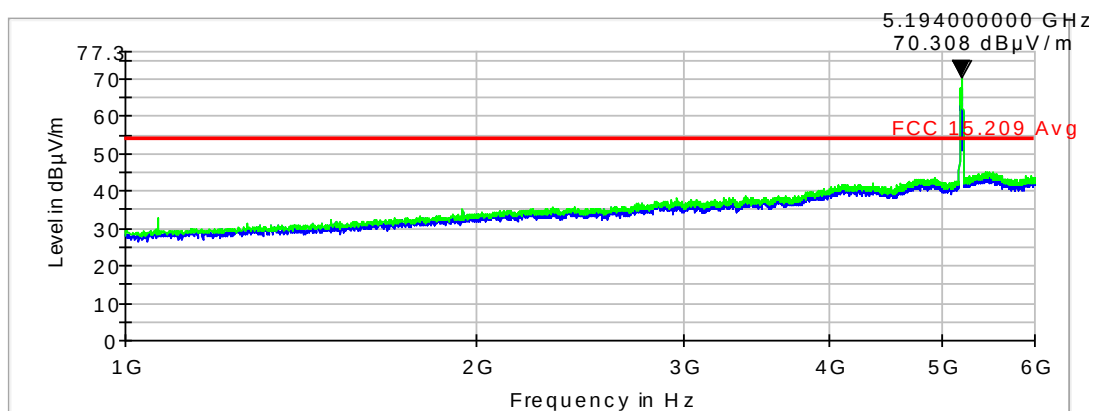




## 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 30 MHz to 1 GHz, Vertical

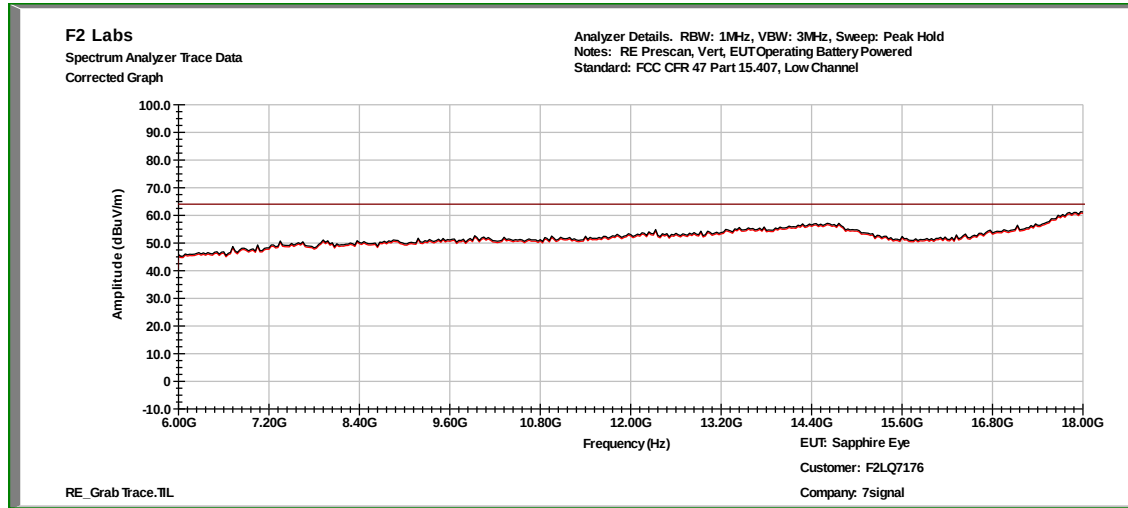


## 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 1 GHz to 6 GHz, Vertical

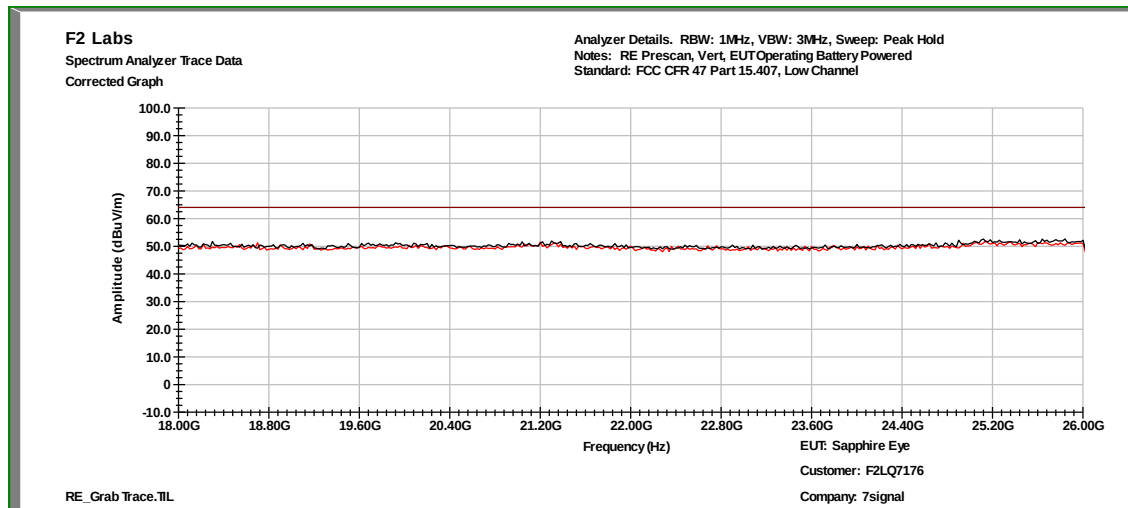




## 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 6 GHz to 18 GHz, Vertical



## 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 18 GHz to 26 GHz, Vertical



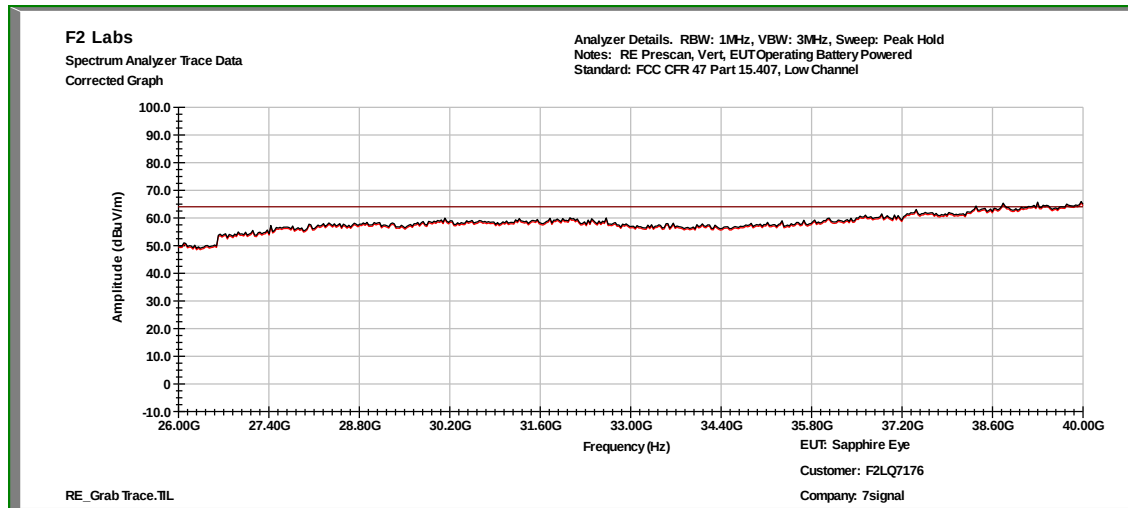


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

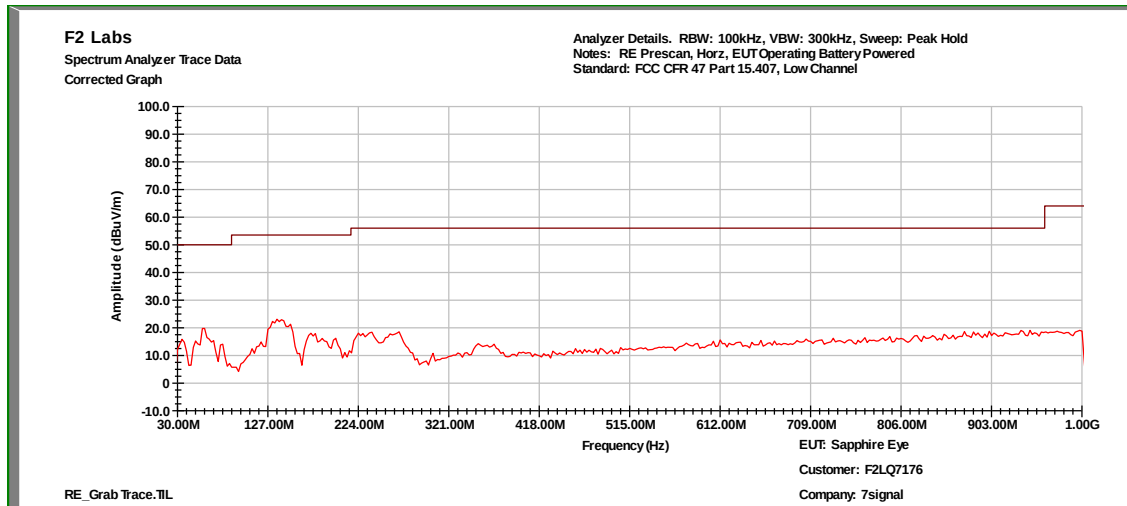
FCC ID: YLFSE2100WL

## 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 26 GHz to 40 GHz, Vertical

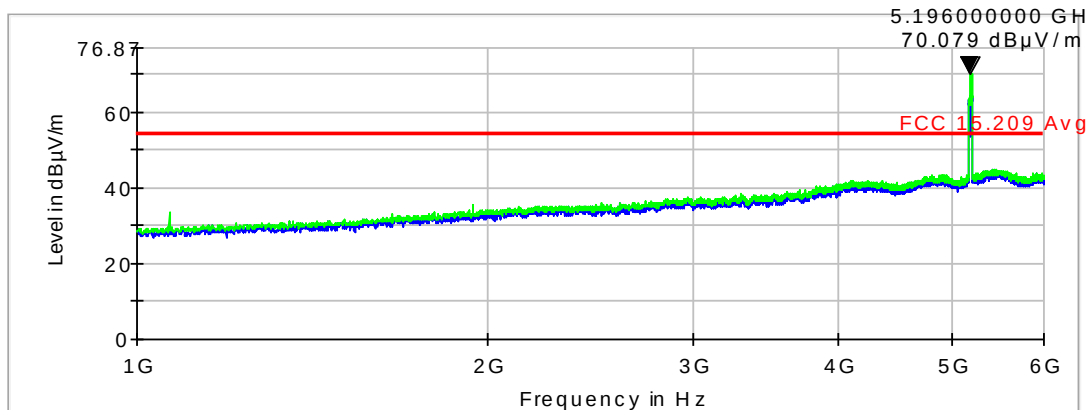




### 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 30 MHz to 1 GHz, Horizontal

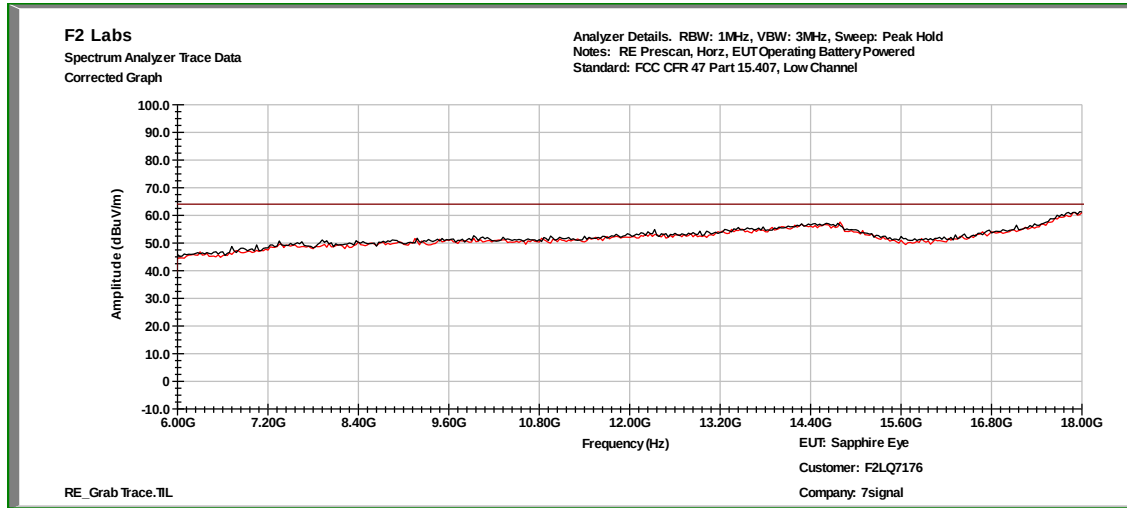


### 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 1 GHz to 6 GHz, Horizontal

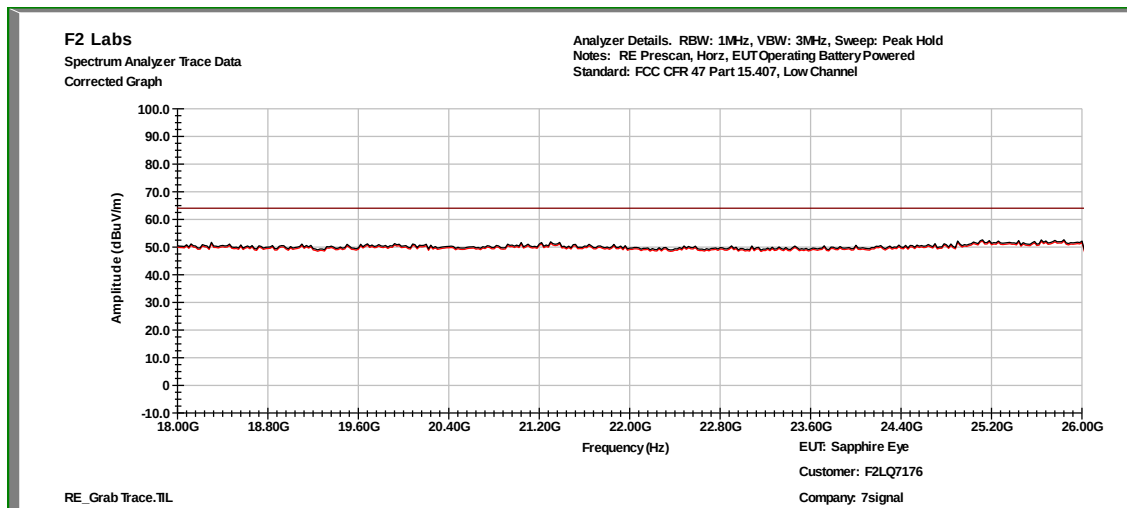




## 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 6 GHz to 18 GHz, Horizontal

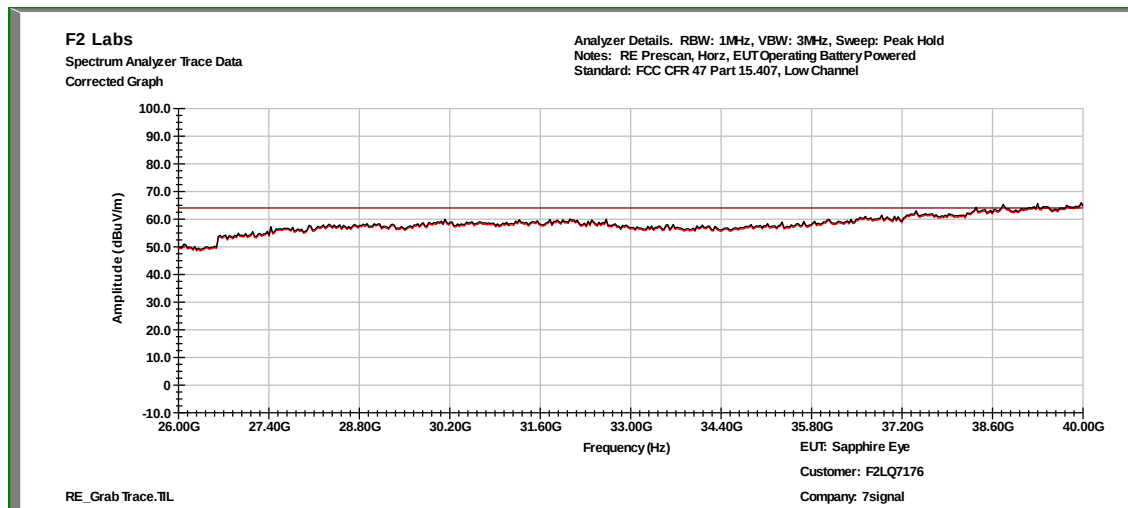


## 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 18 GHz to 26 GHz, Horizontal



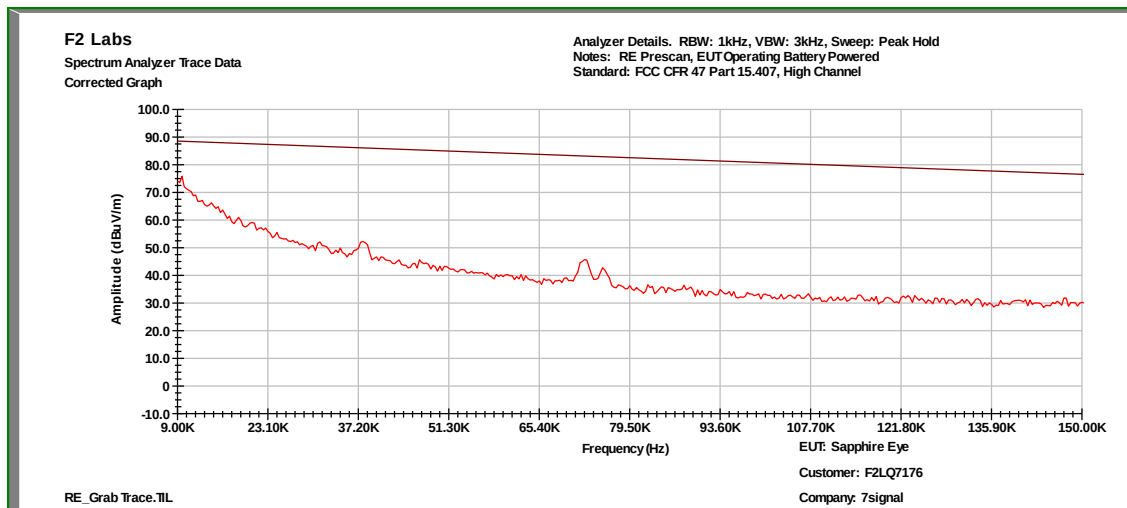


## 5.1 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 26 GHz to 40 GHz, Horizontal

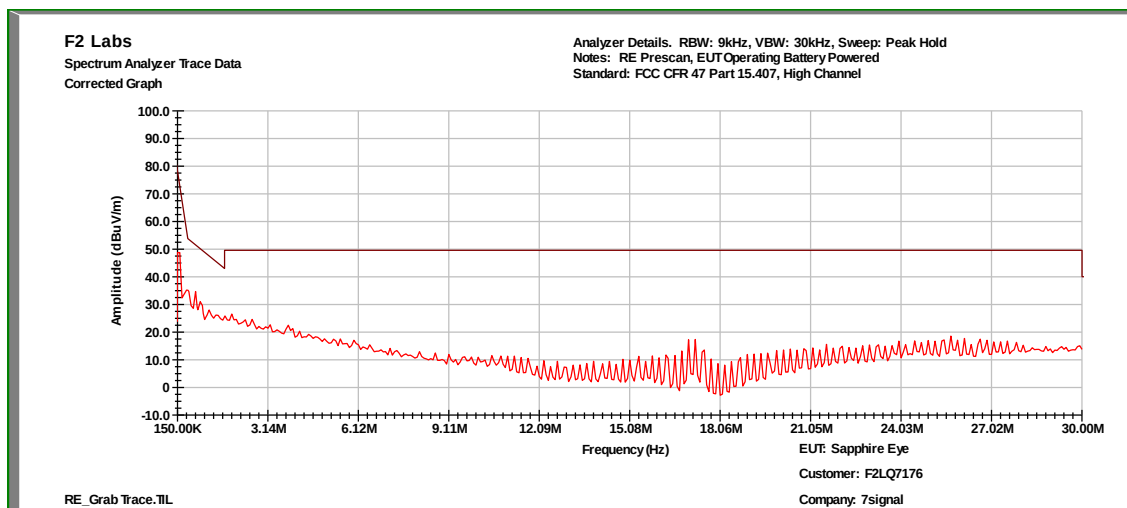




## 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 9k to 150k

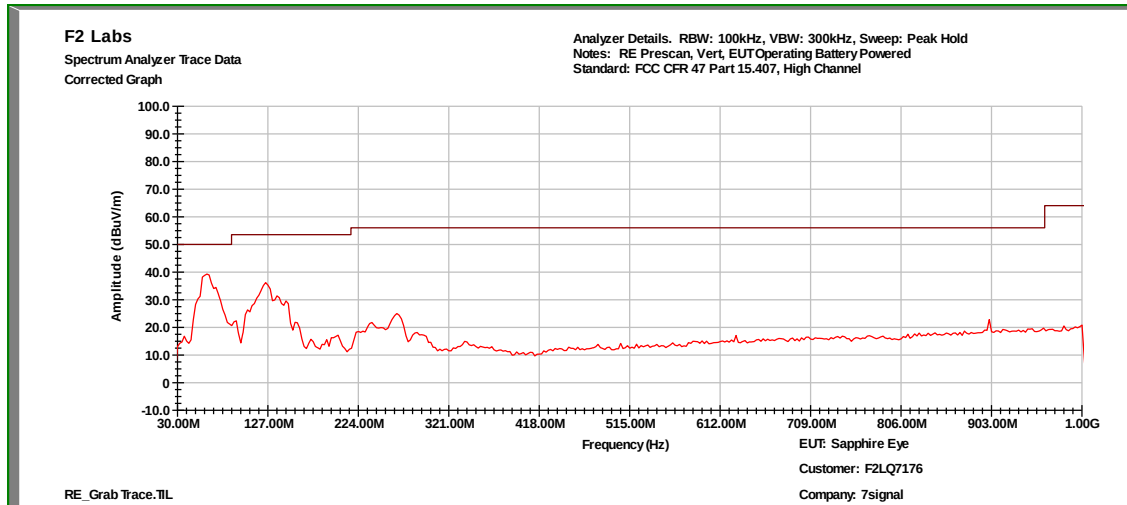


## 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 150k to 30 MHz

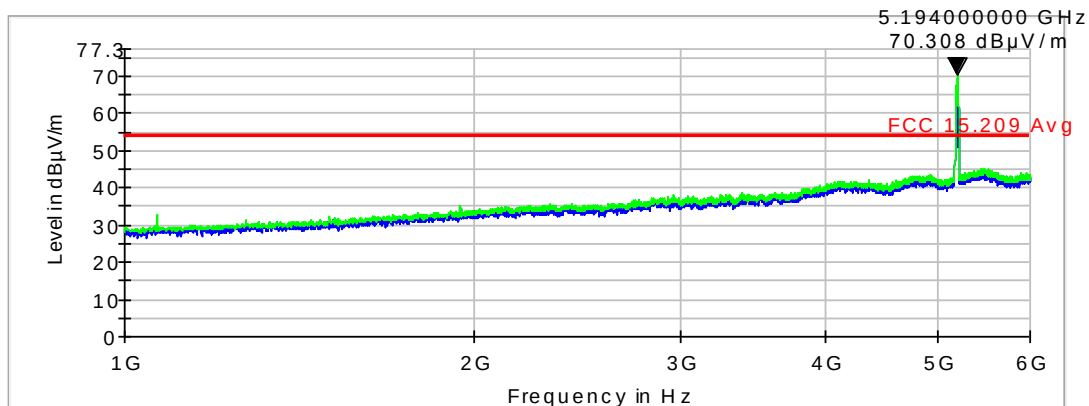




### 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Vertical

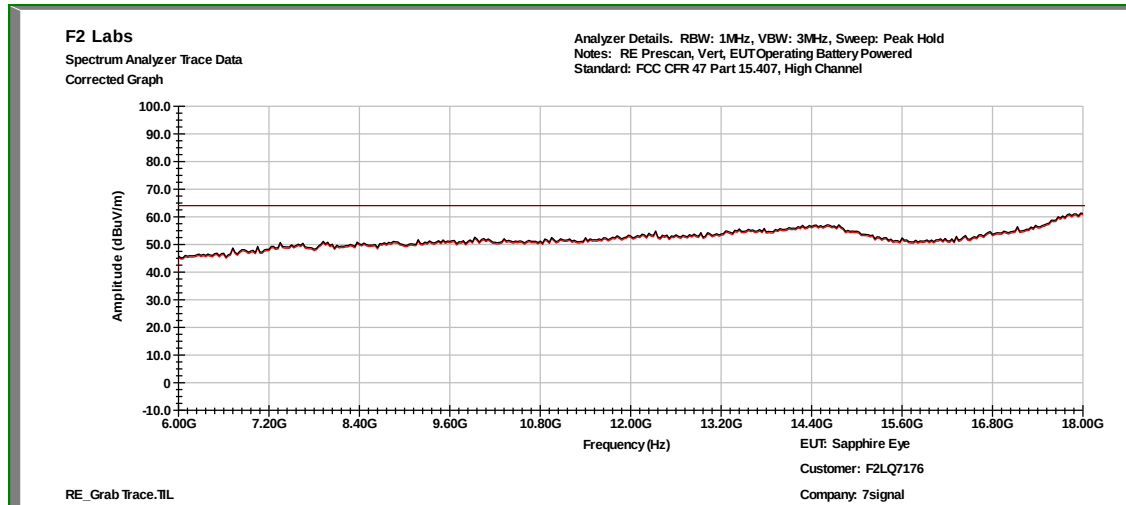


### 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Vertical

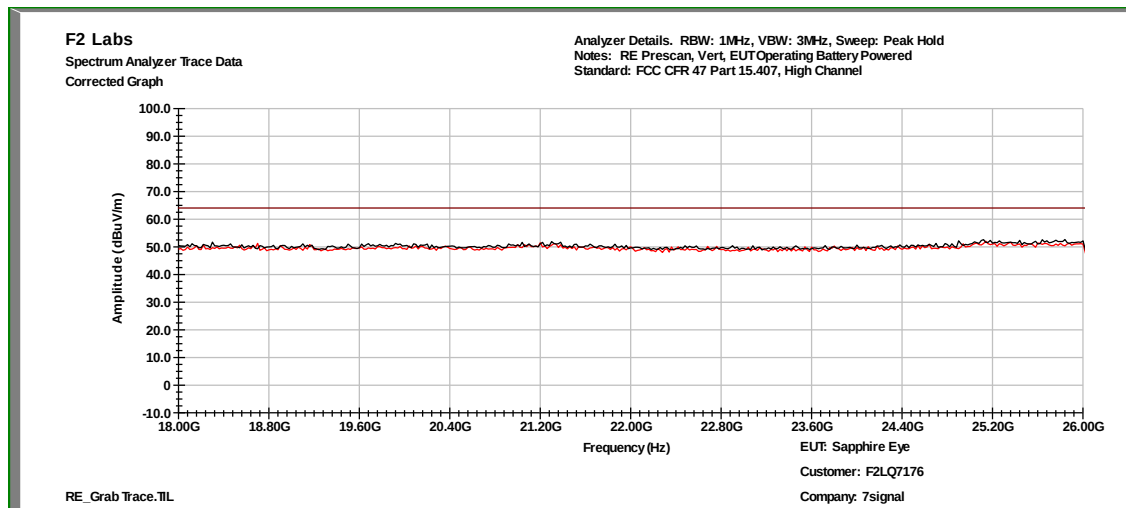




## 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Vertical



## 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Vertical



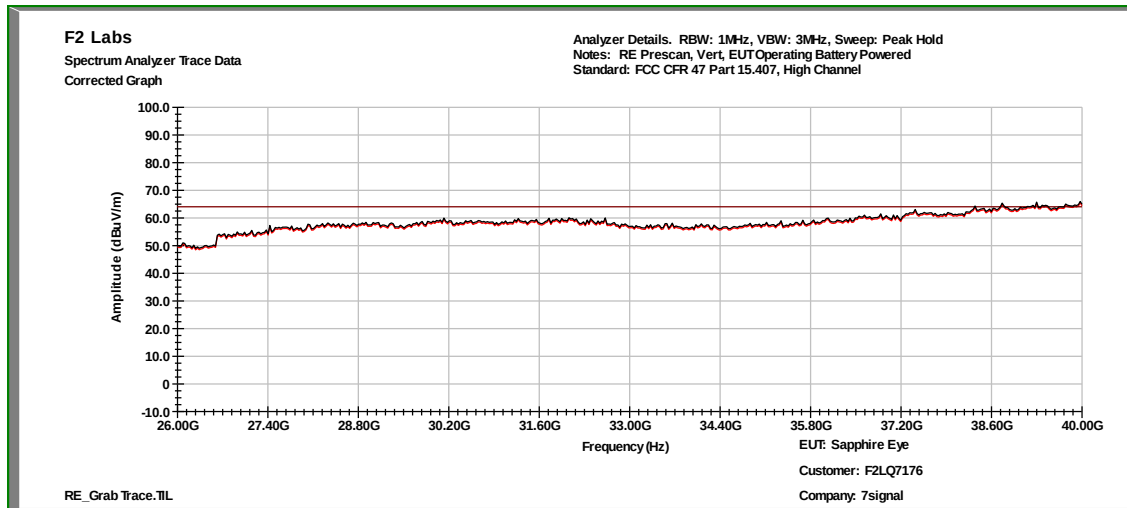


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

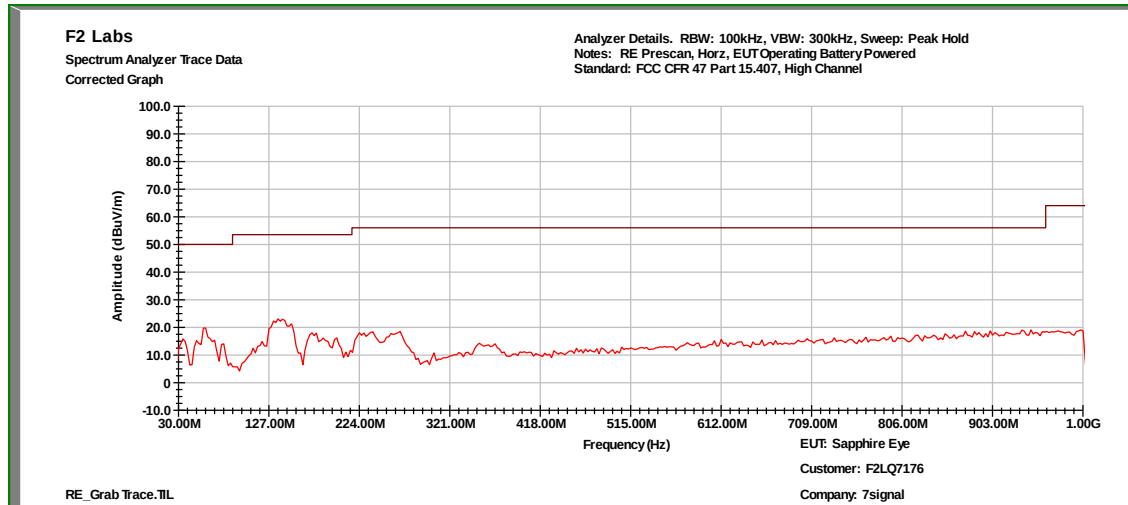
FCC ID: YLFSE2100WL

## 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Vertical

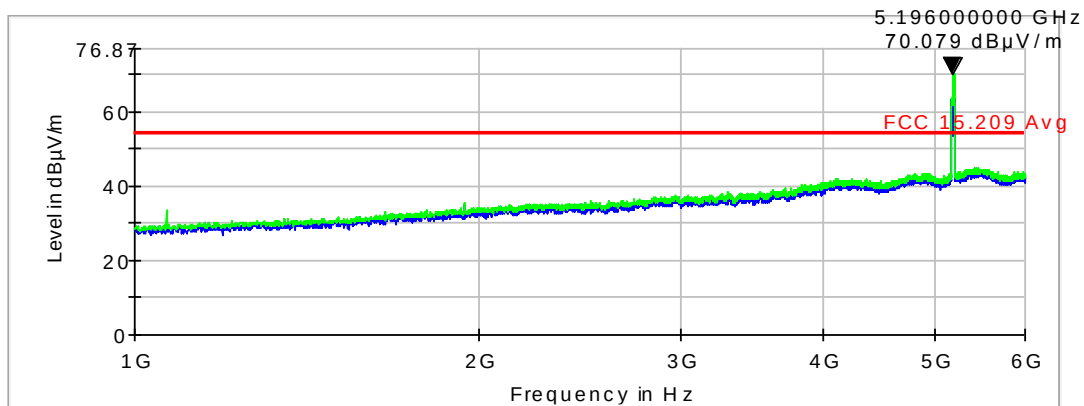




## 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Horizontal

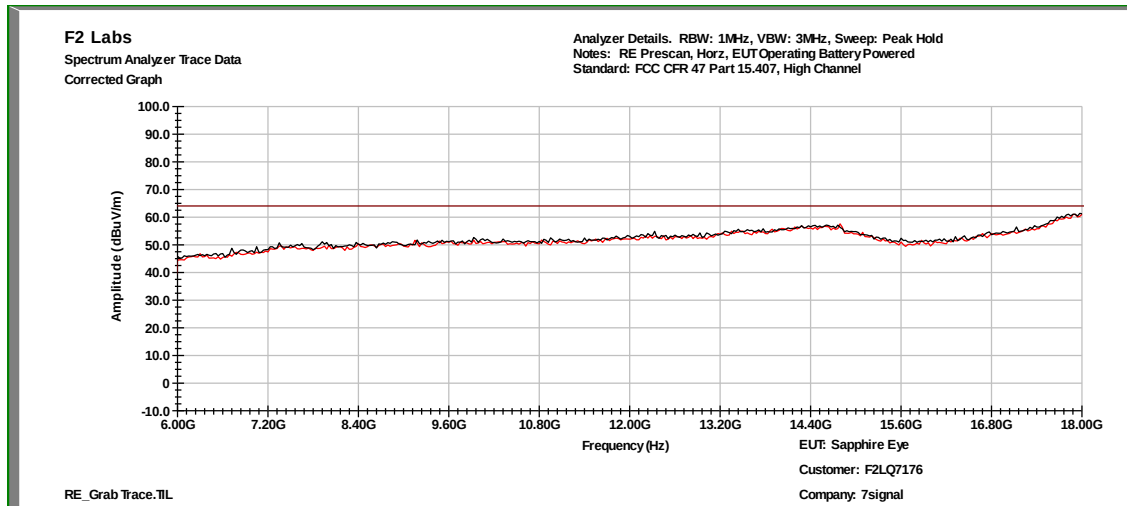


## 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Horizontal

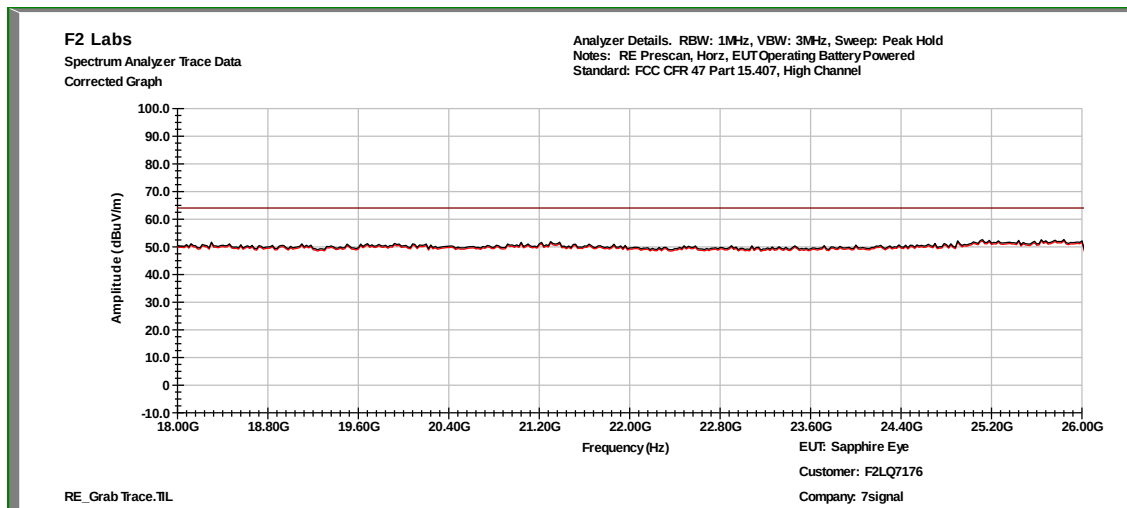




## 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Horizontal

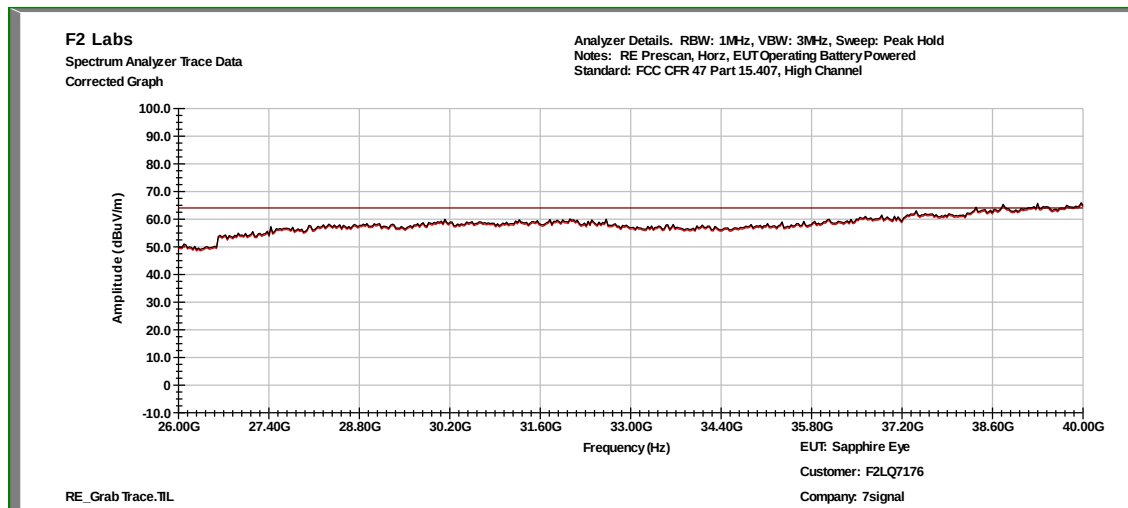


## 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Horizontal



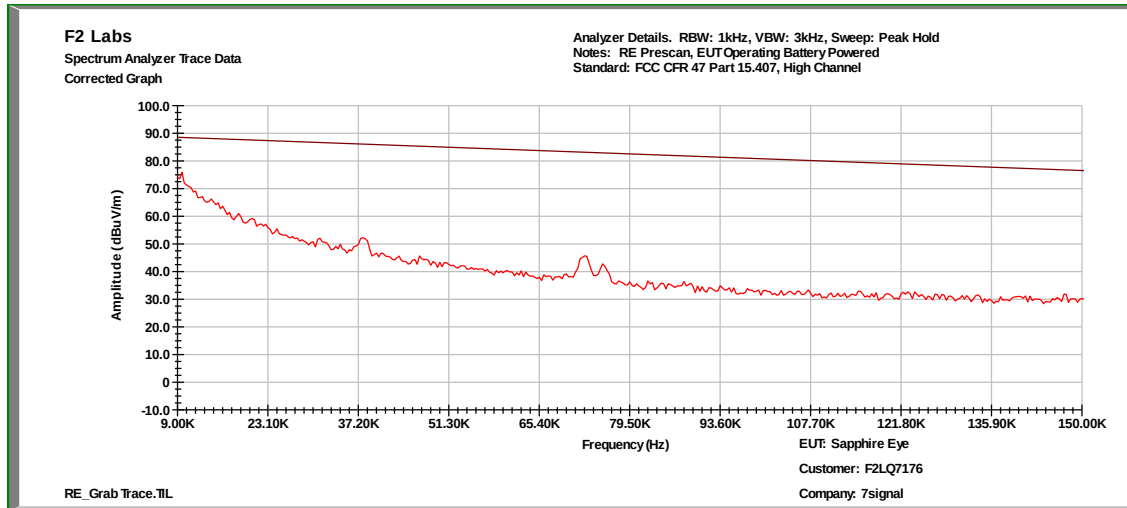


## 5.1 GHZ, 40M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Horizontal

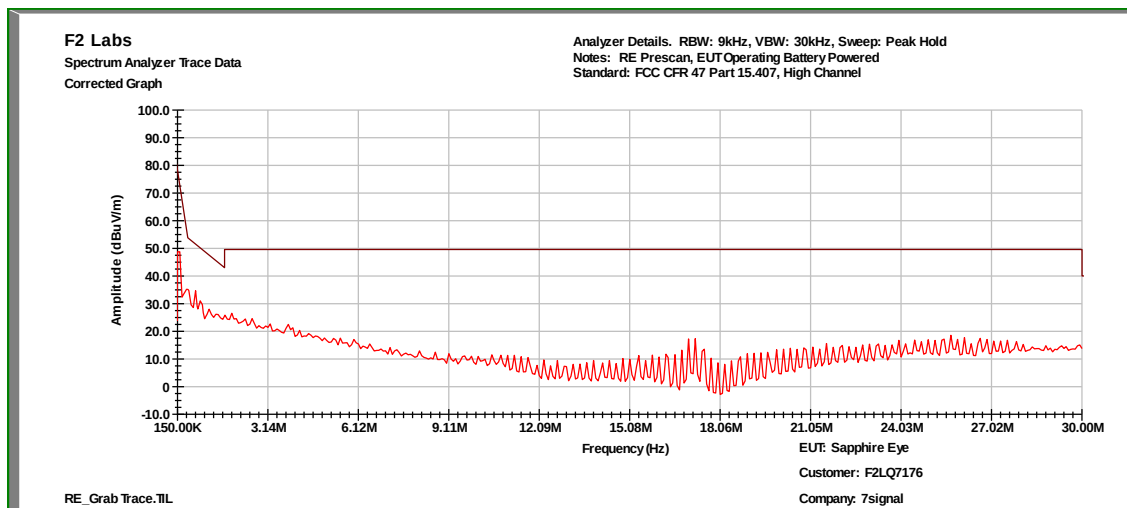




## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 9k to 150k

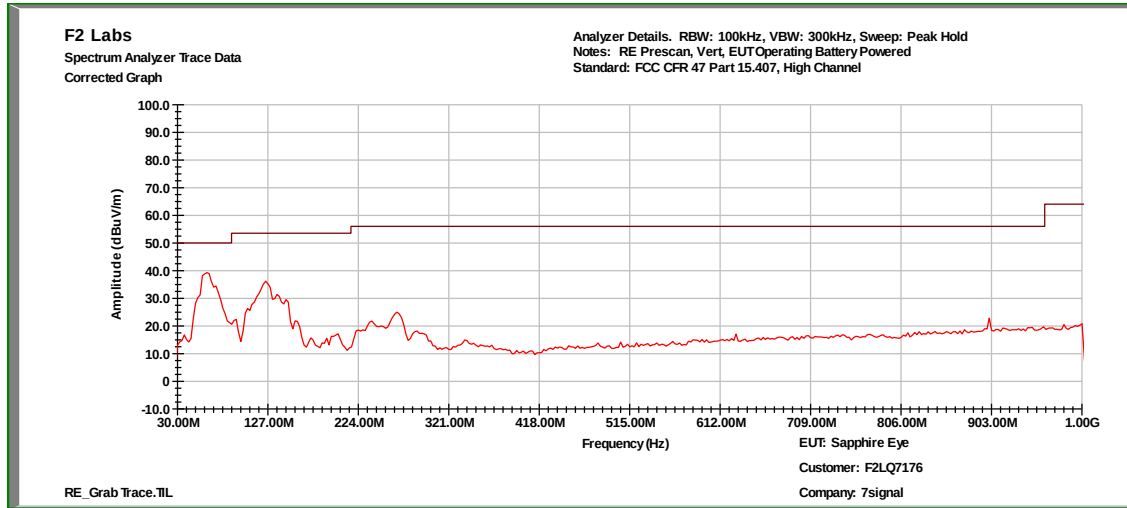


## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 150k to 30 MHz

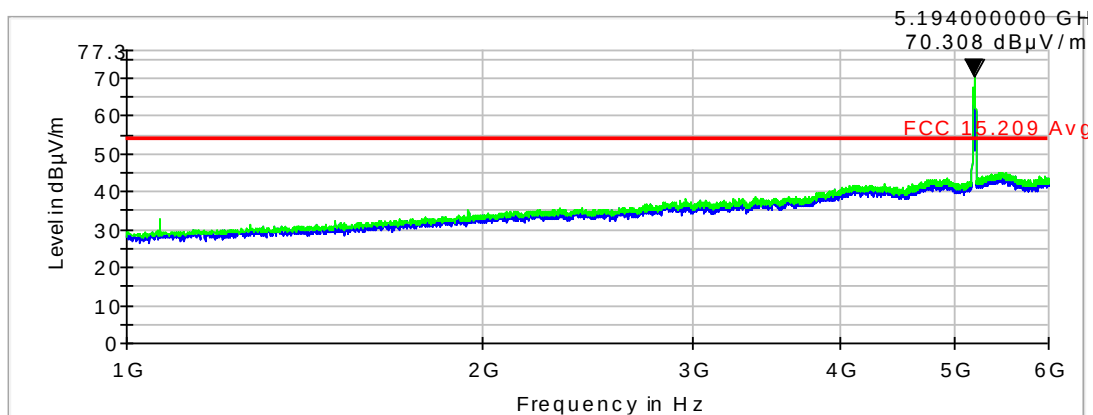




## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Vertical

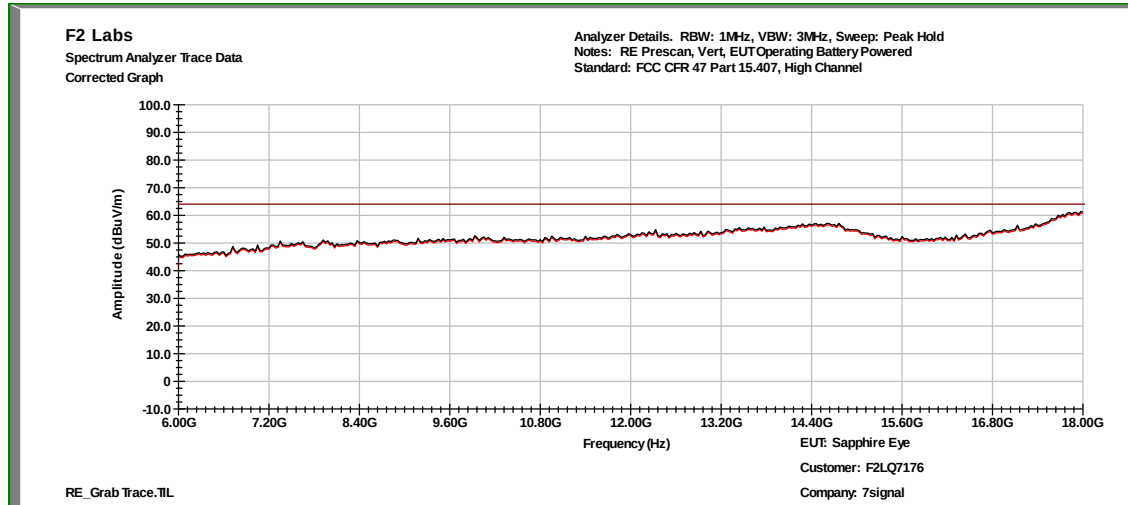


## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Vertical

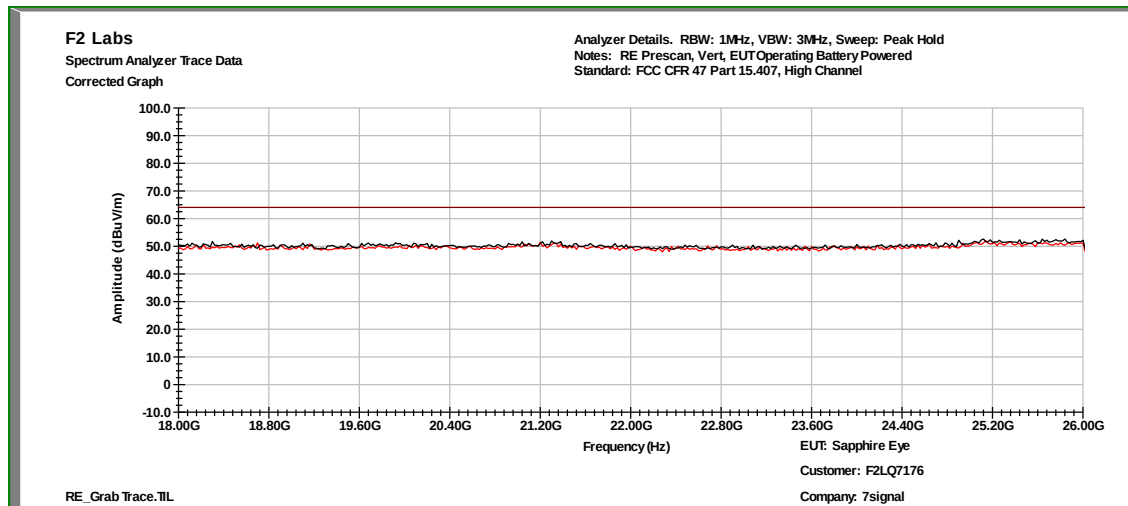




## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Vertical



## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Vertical



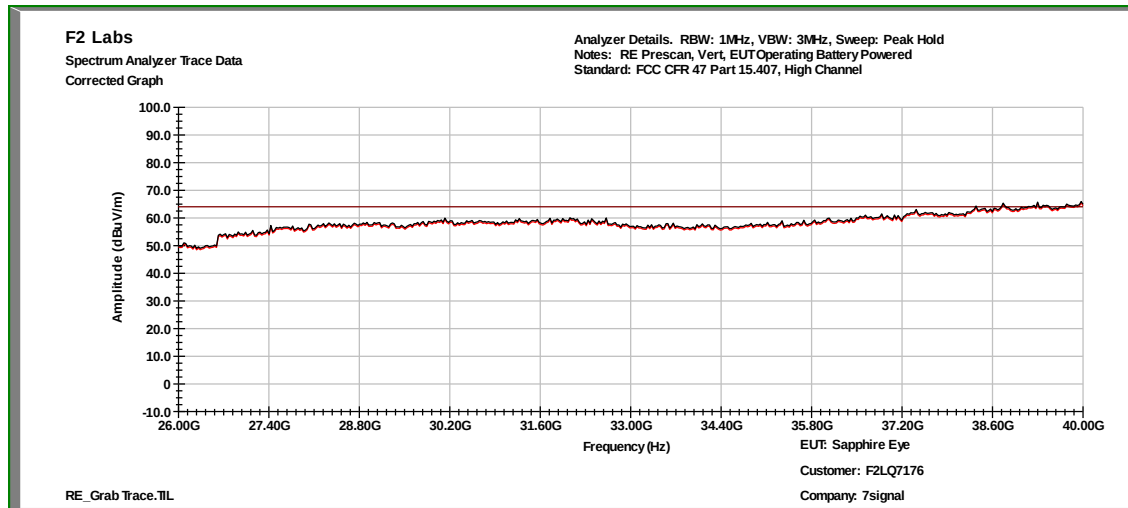


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

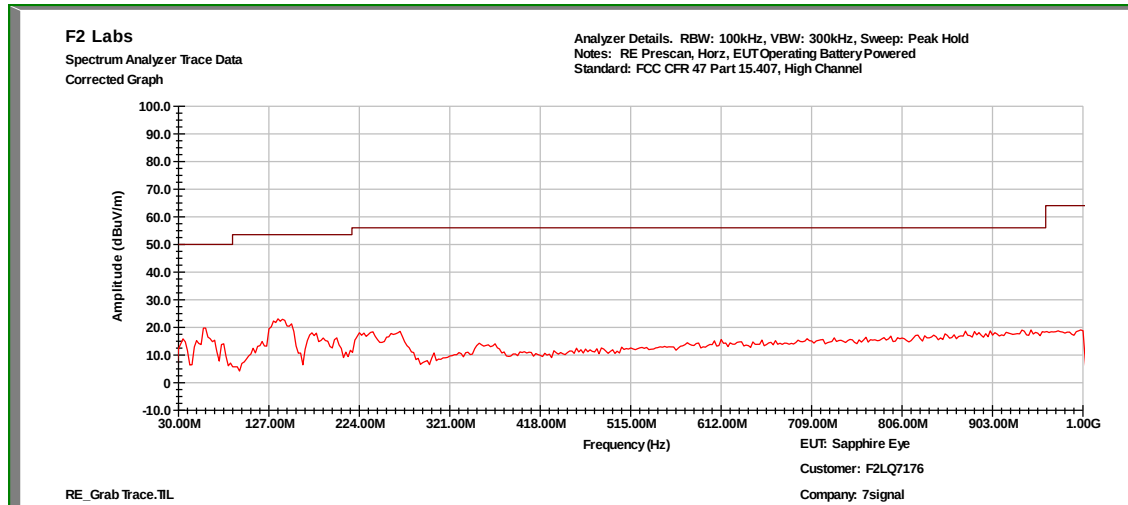
FCC ID: YLFSE2100WL

## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Vertical

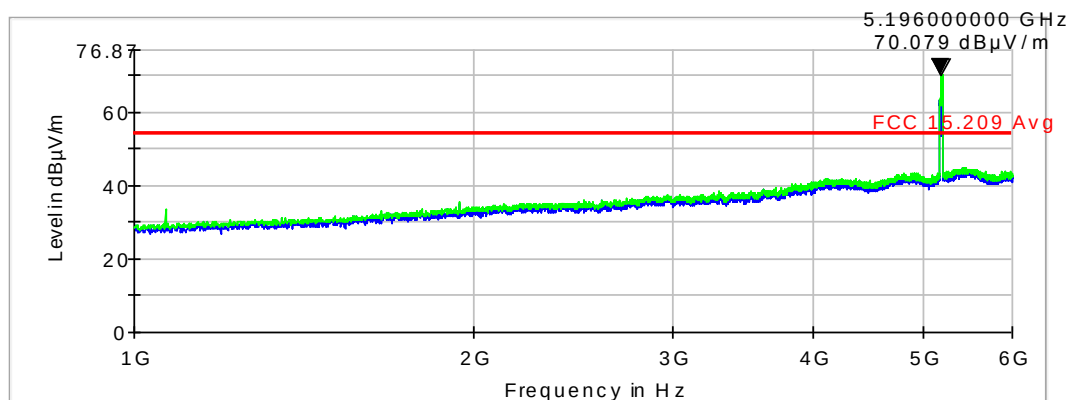




## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Horizontal

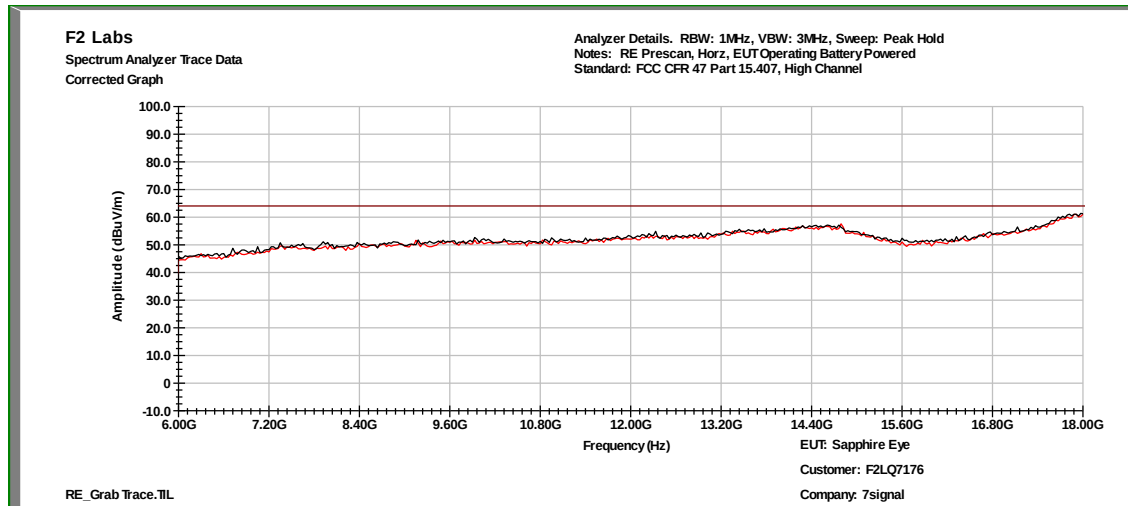


## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Horizontal

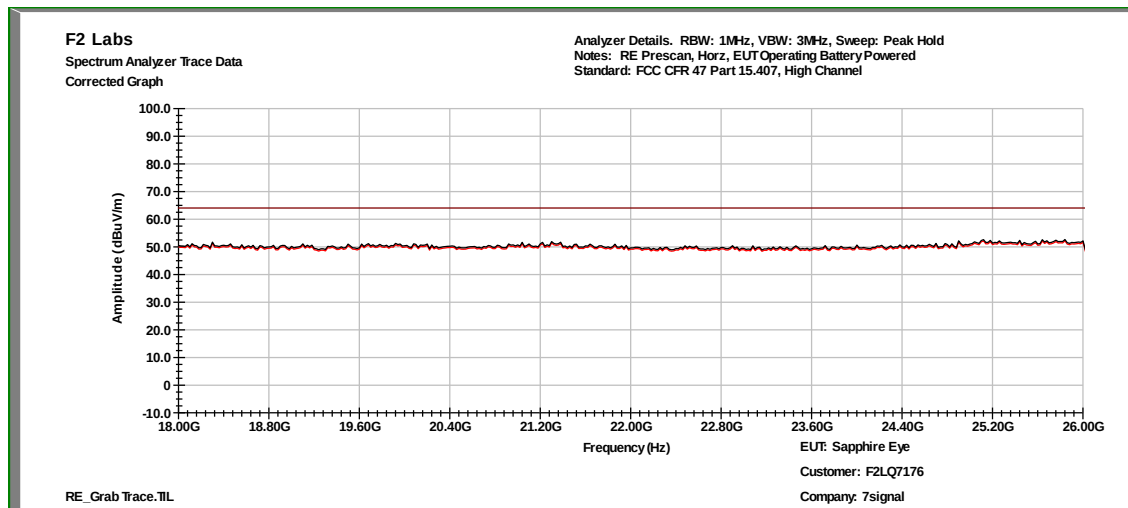




## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Horizontal

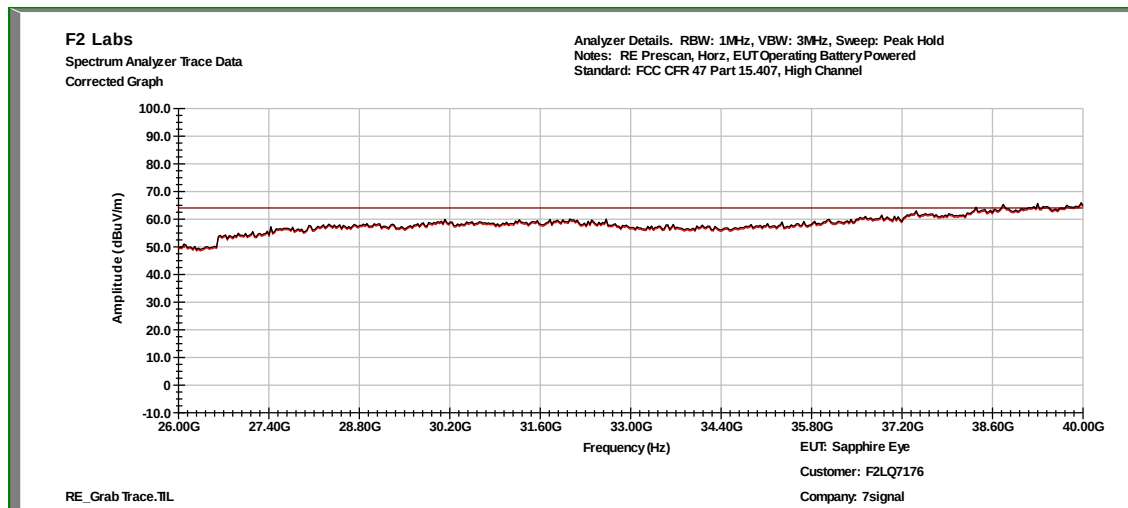


## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Horizontal



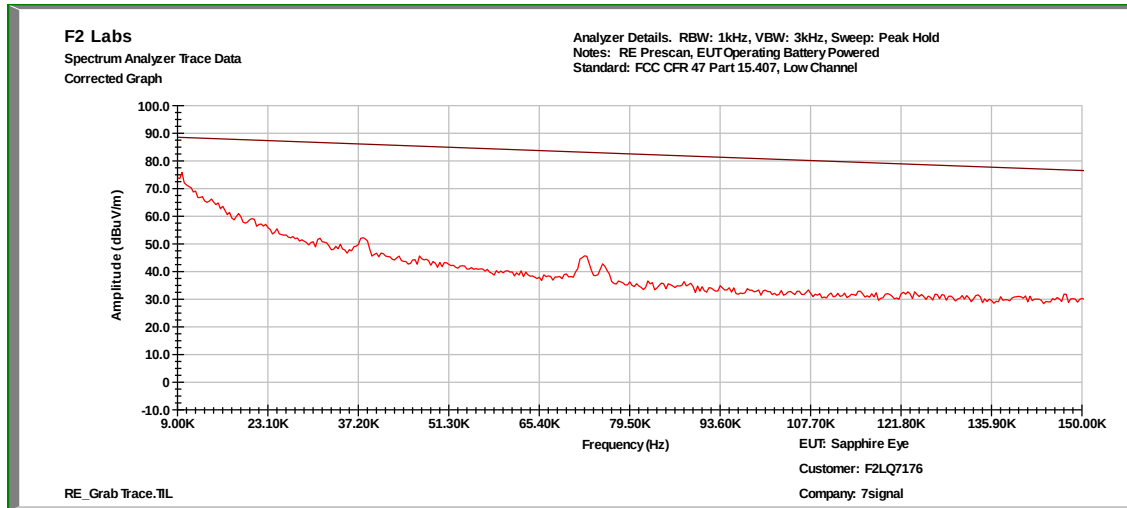


## 5.1 GHZ, 80M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Horizontal

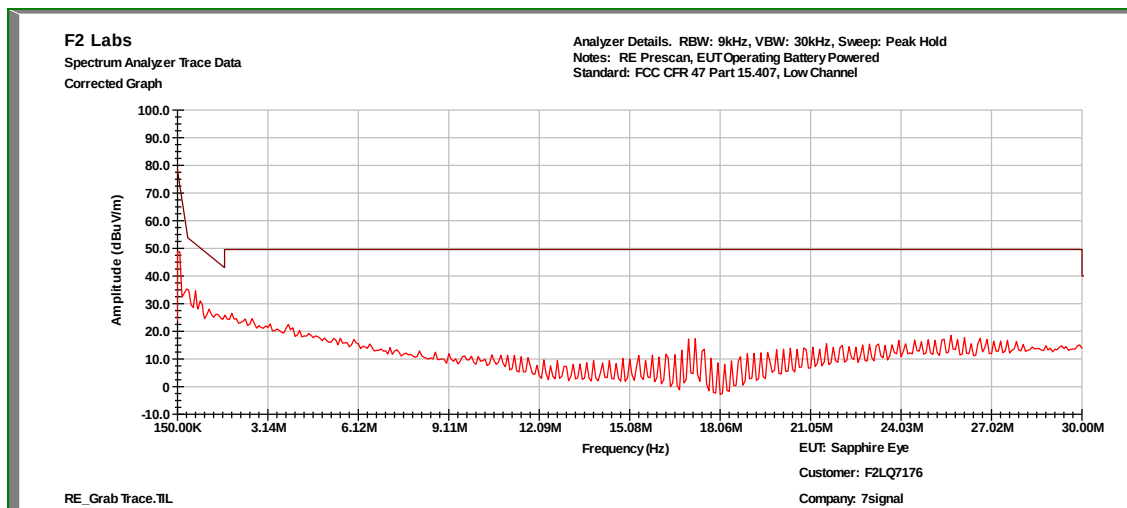




## 5.8 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 9k to 150k

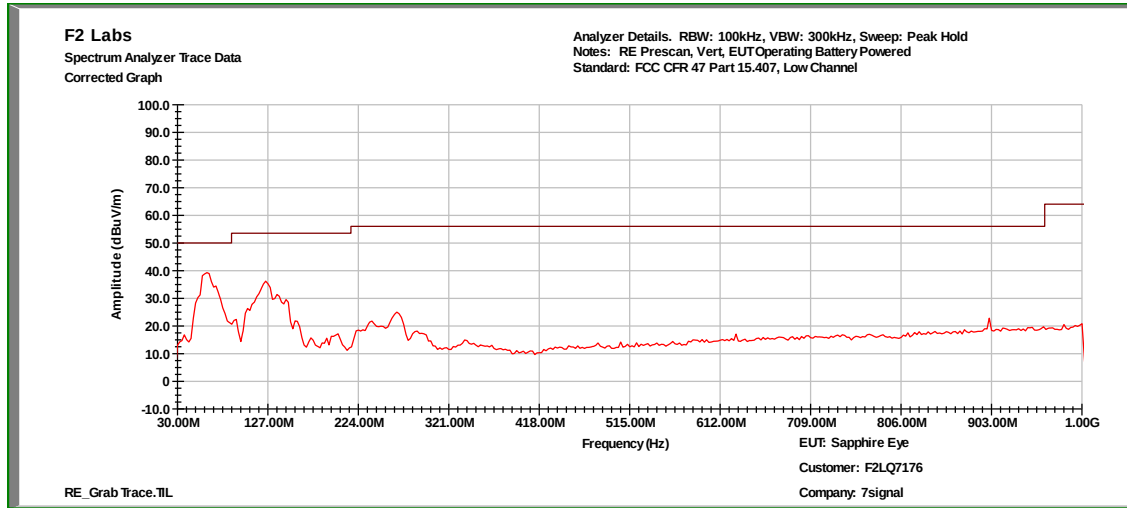


## 5.8 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 150k to 30 MHz

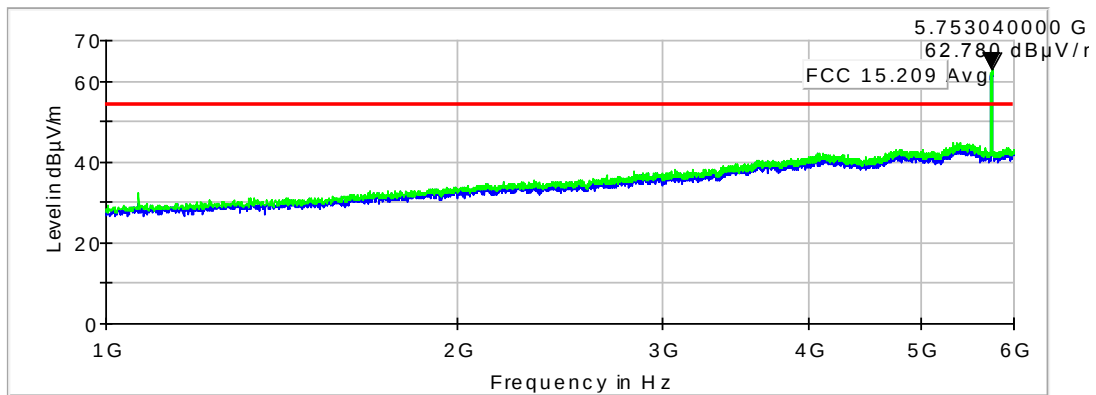




### 5.8 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 30 MHz to 1 GHz, Vertical

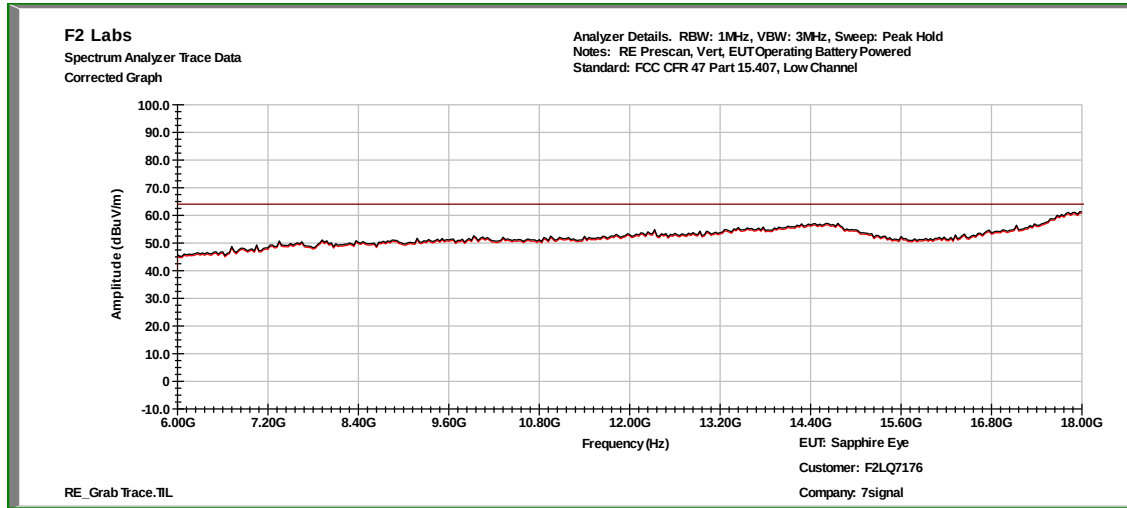


### 5.8 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 1 GHz to 6 GHz, Vertical

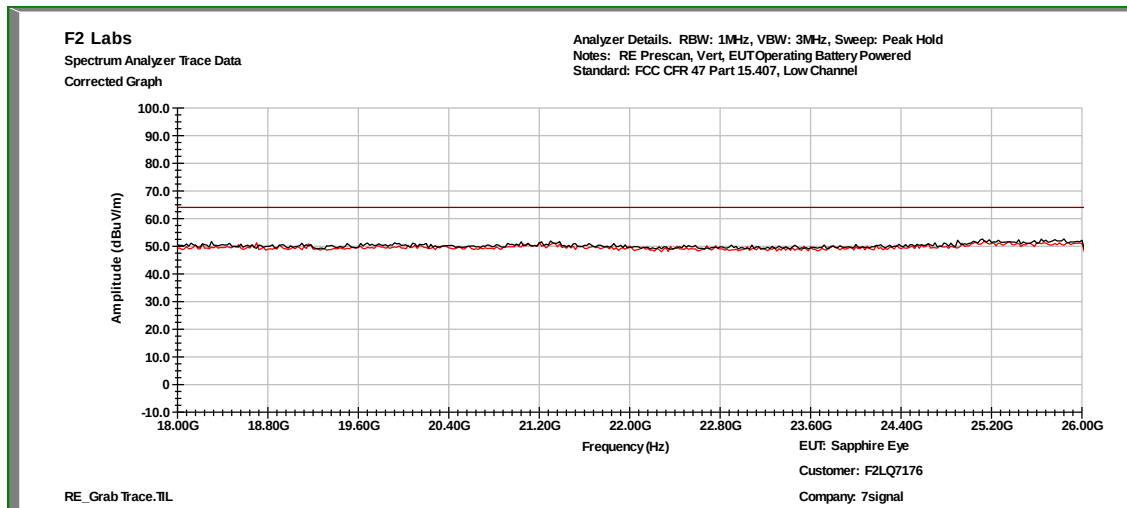




## 5.8 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 6 GHz to 18 GHz, Vertical



## 5.8 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 18 GHz to 26 GHz, Vertical



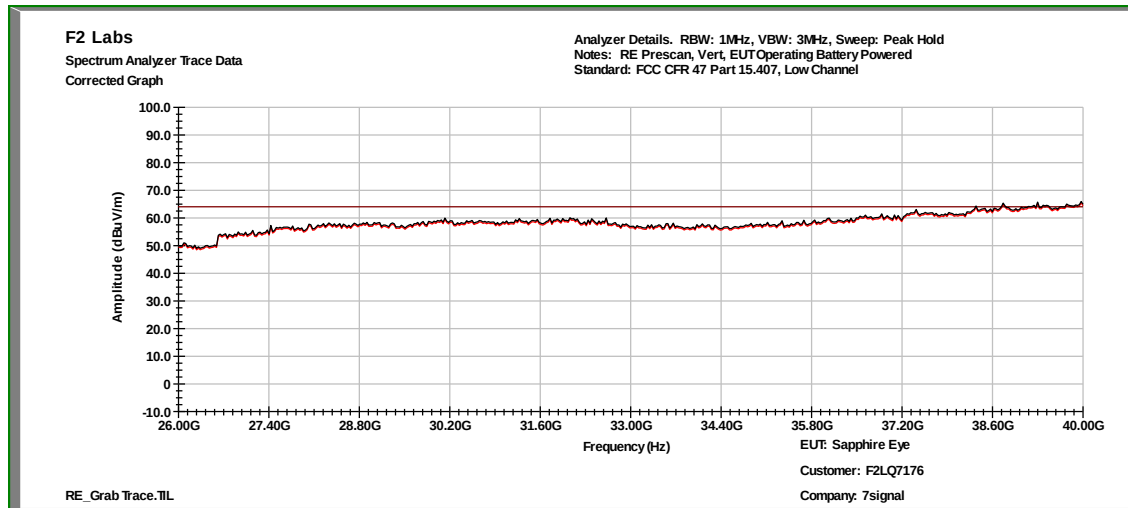


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

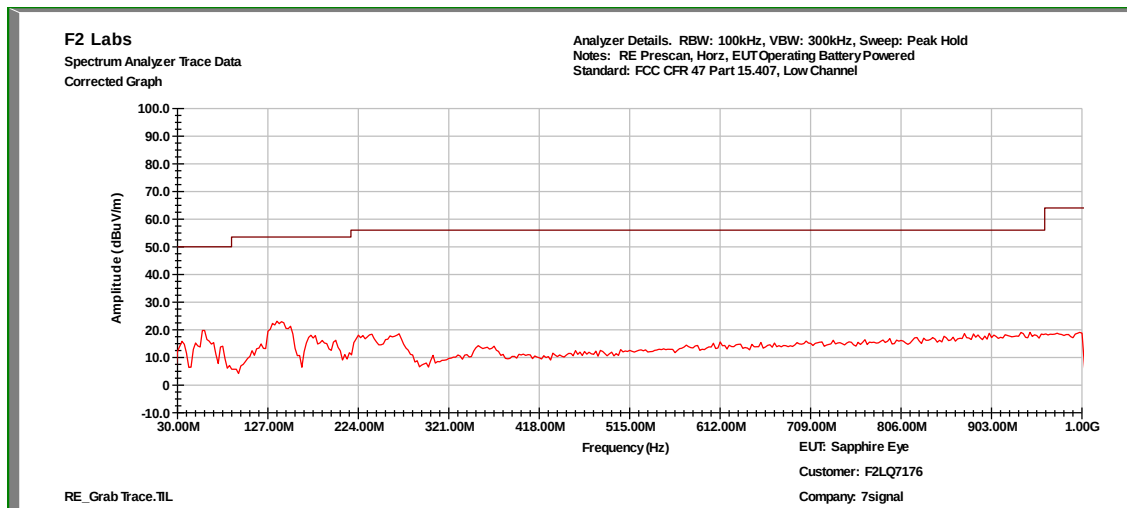
FCC ID: YLFSE2100WL

## 5.8 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 26 GHz to 40 GHz, Vertical

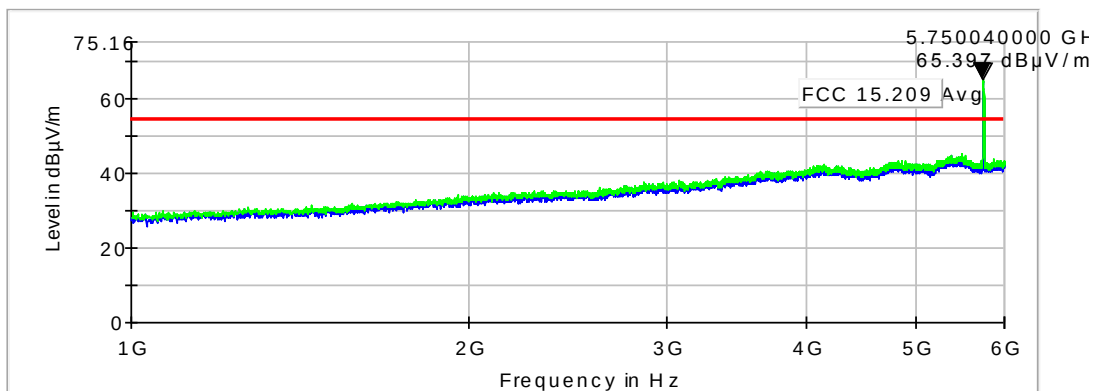




## 5.8GHZ, 20M, Radiated Spurious Emissions: Low Channel, 30 MHz to 1 GHz, Horizontal

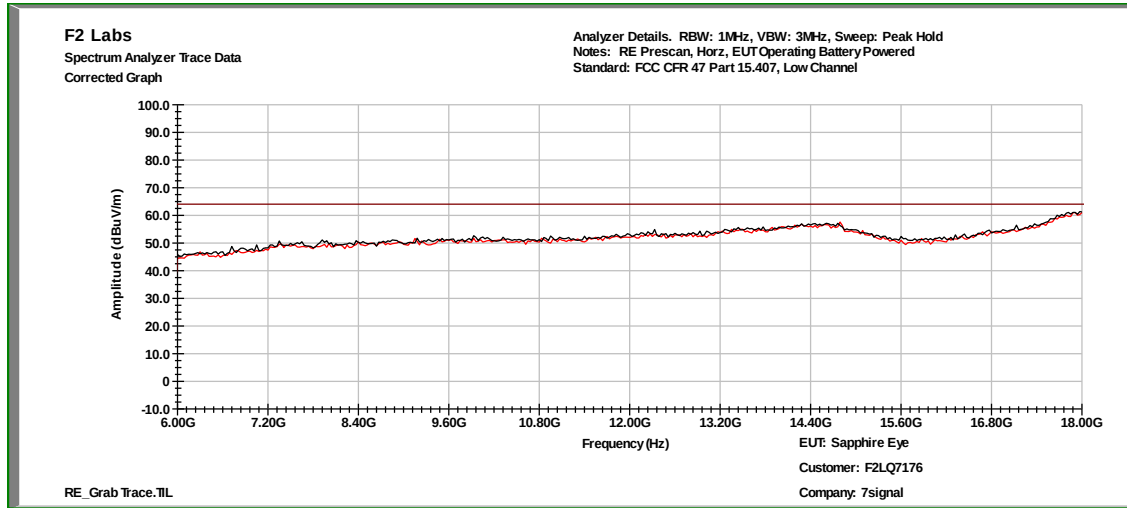


## 5.8 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 1 GHz to 6 GHz, Horizontal

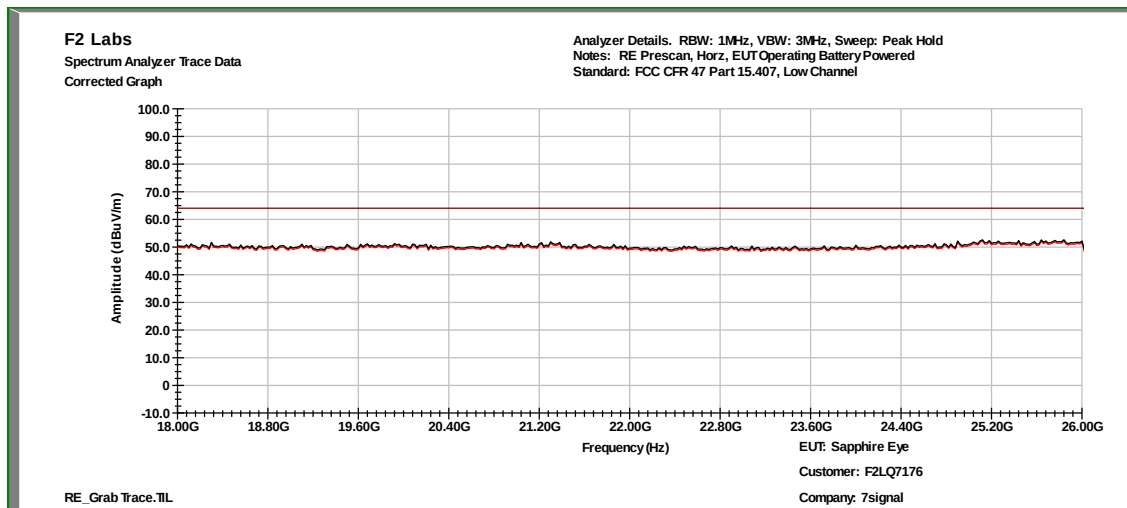




### 5.8 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 6 GHz to 18 GHz, Horizontal

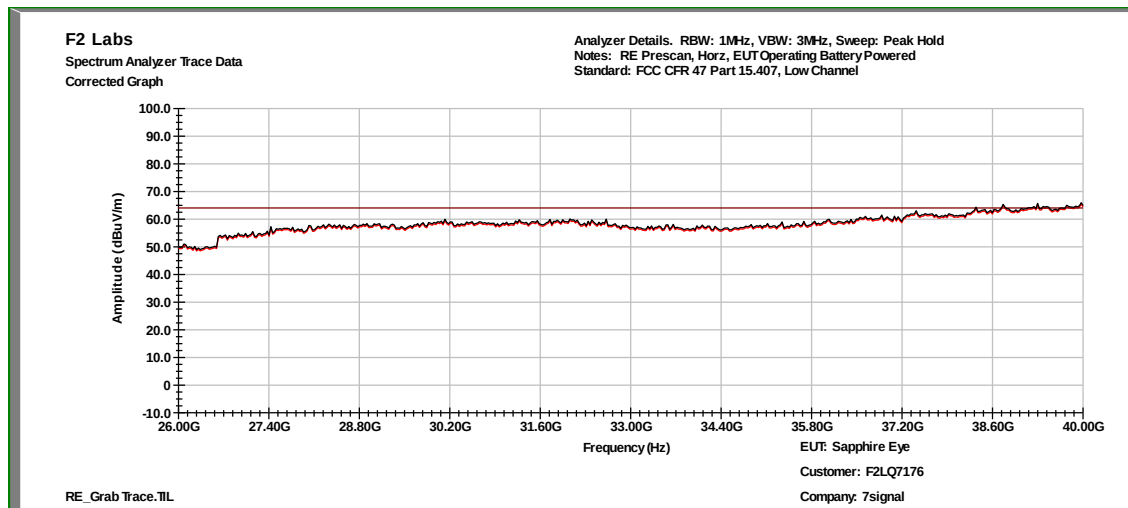


### 5.8 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 18 GHz to 26 GHz, Horizontal



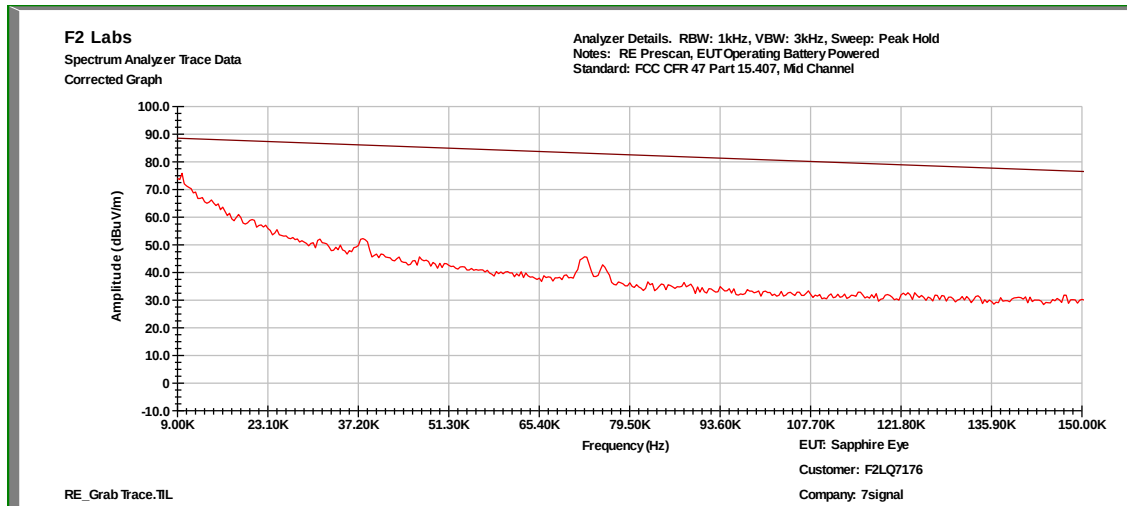


## 5.8 GHZ, 20M, Radiated Spurious Emissions: Low Channel, 26 GHz to 40 GHz, Horizontal

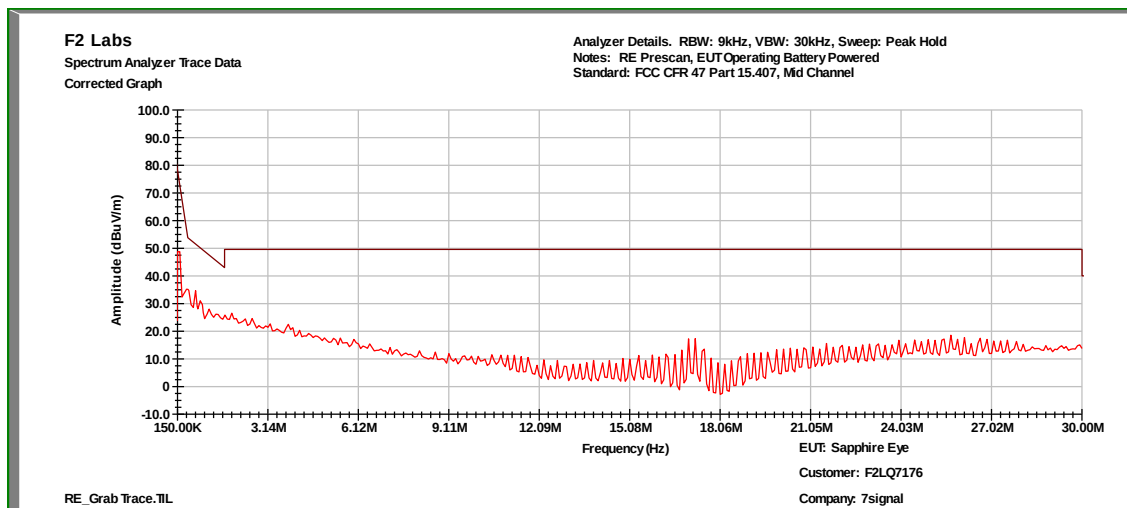




### 5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 9k to 150k

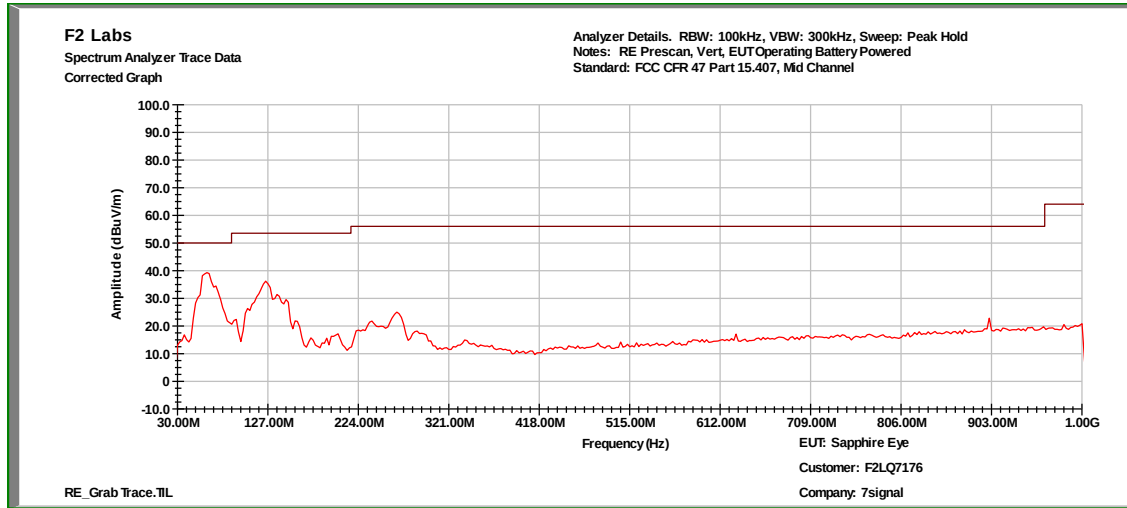


### 5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 150k to 30 MHz

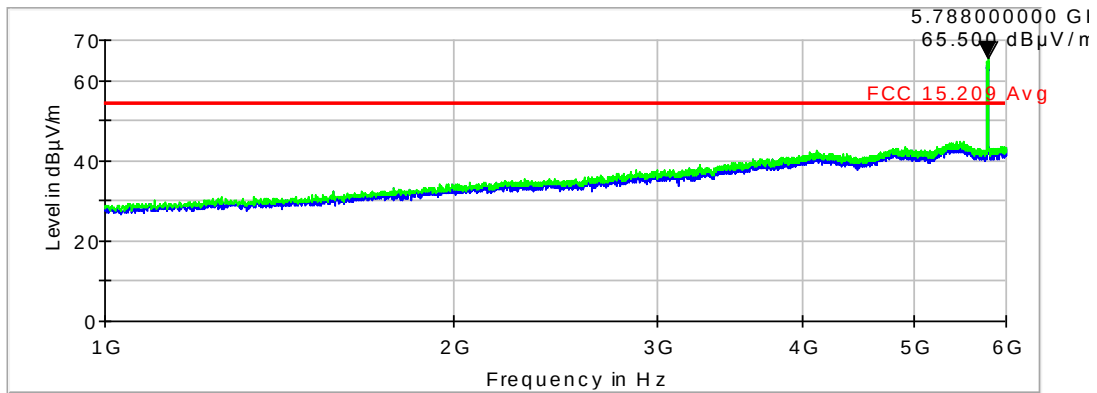




## 5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 30 MHz to 1 GHz, Vertical

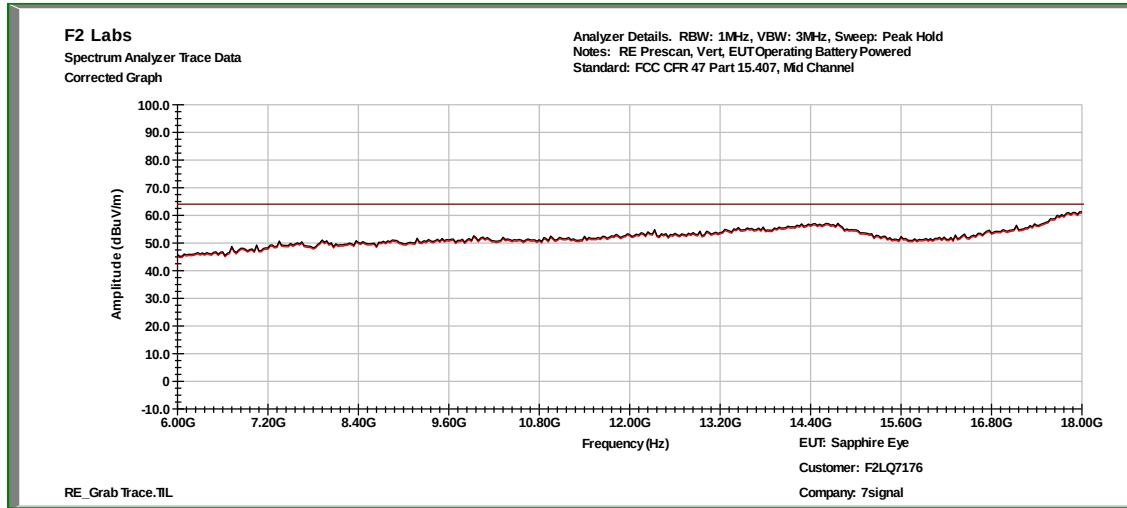


## 5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 1 GHz to 6 GHz, Vertical

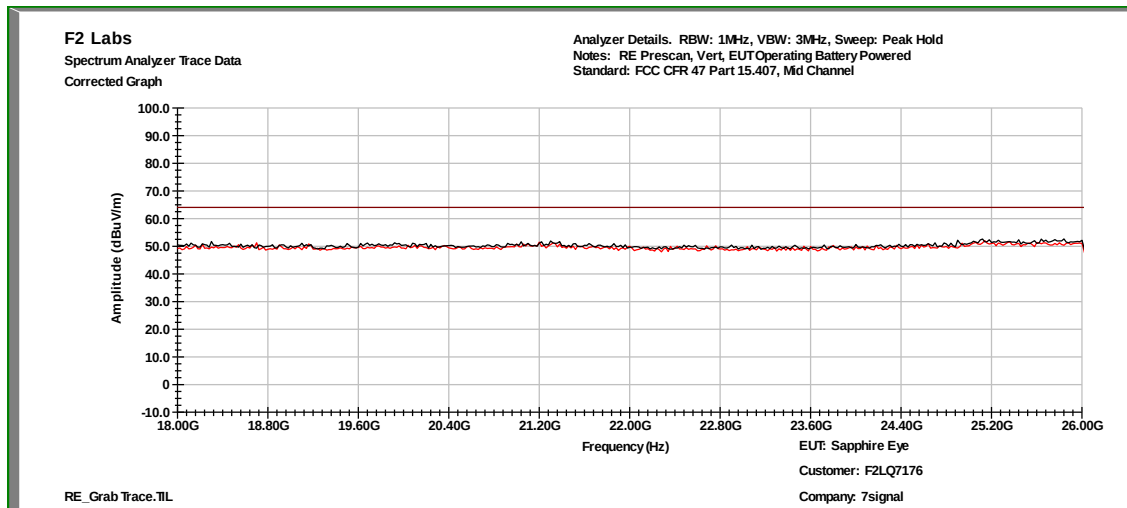




5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 6 GHz to 18 GHz, Vertical



5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 18 GHz to 26 GHz, Vertical



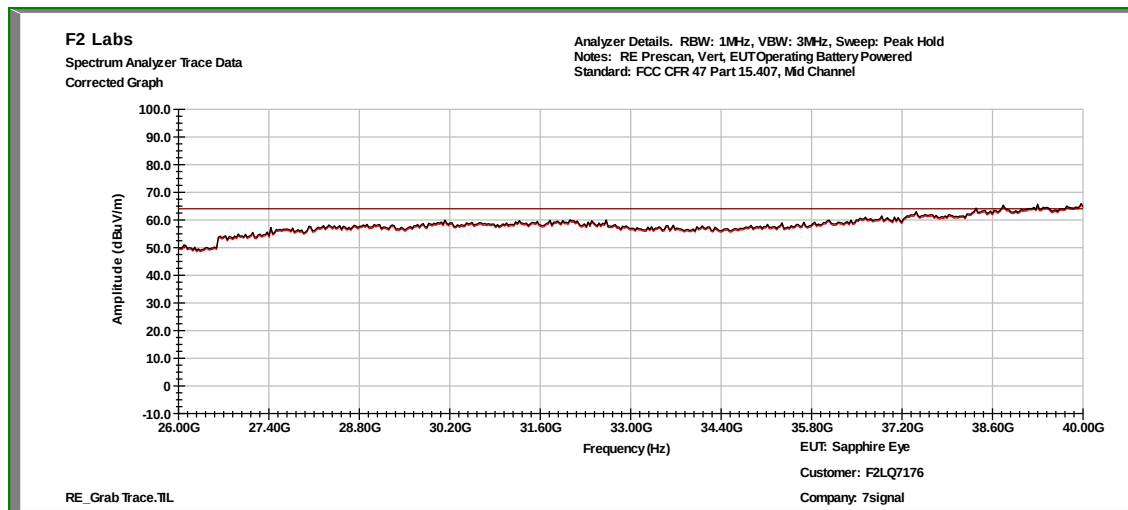


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

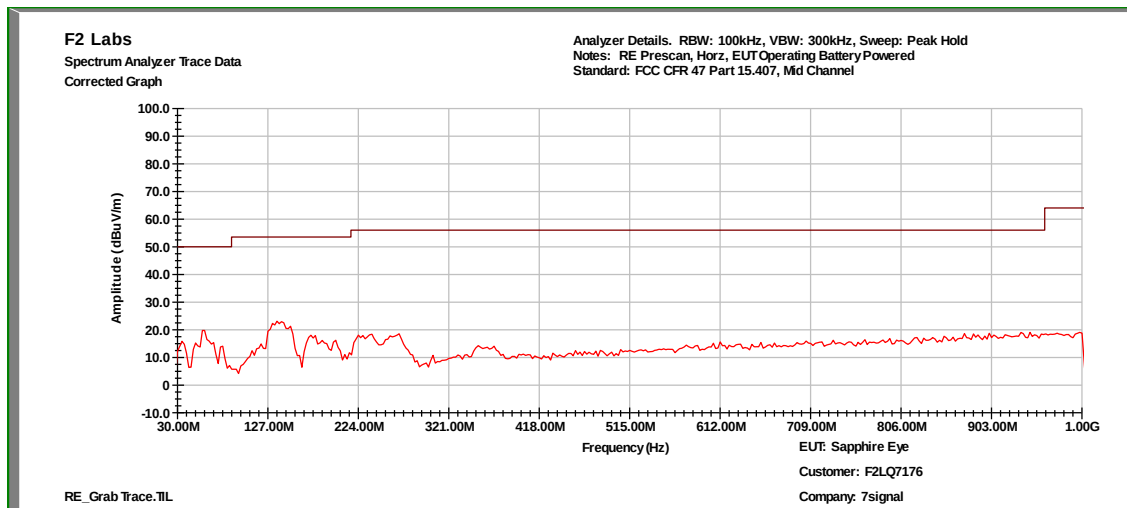
FCC ID: YLFSE2100WL

## 5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 26 GHz to 40 GHz, Vertical

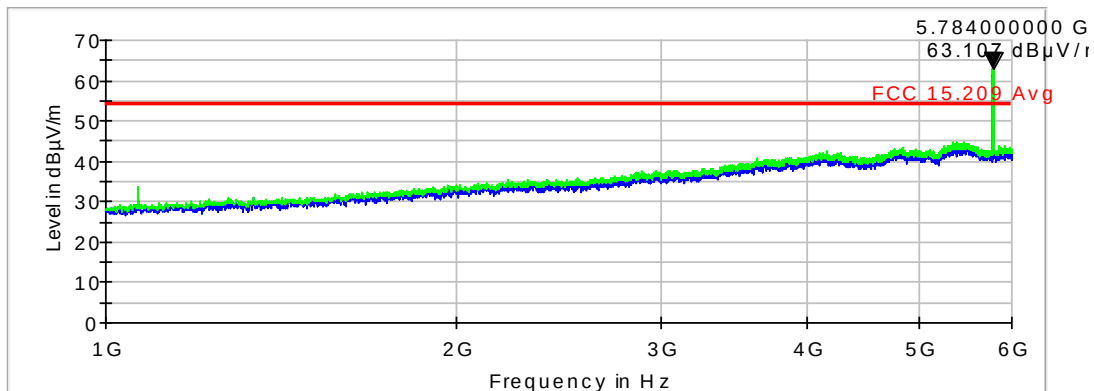




## 5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 30 MHz to 1 GHz, Horizontal

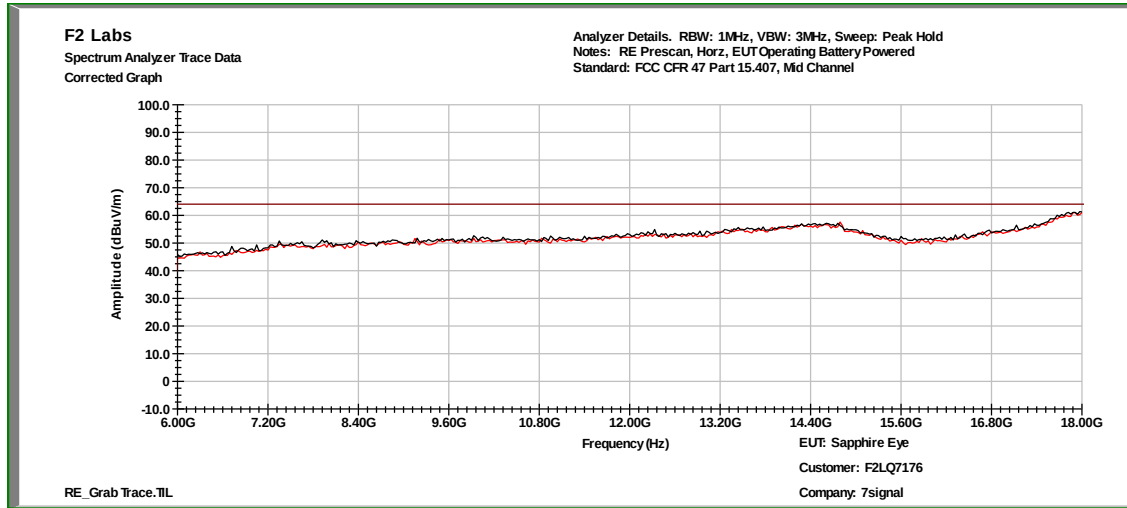


## 5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 1 GHz to 6 GHz, Horizontal

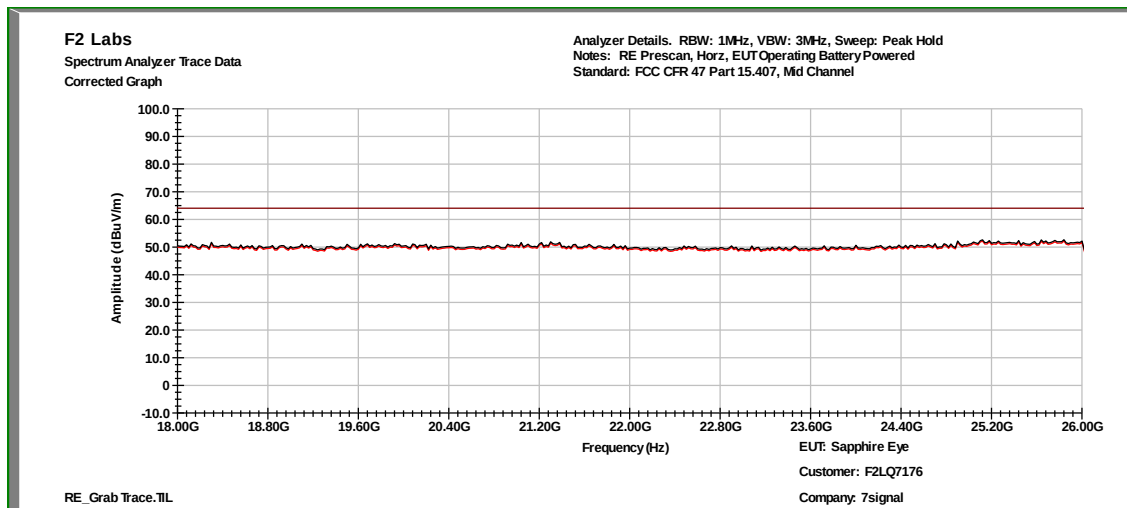




## 5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 6 GHz to 18 GHz, Horizontal

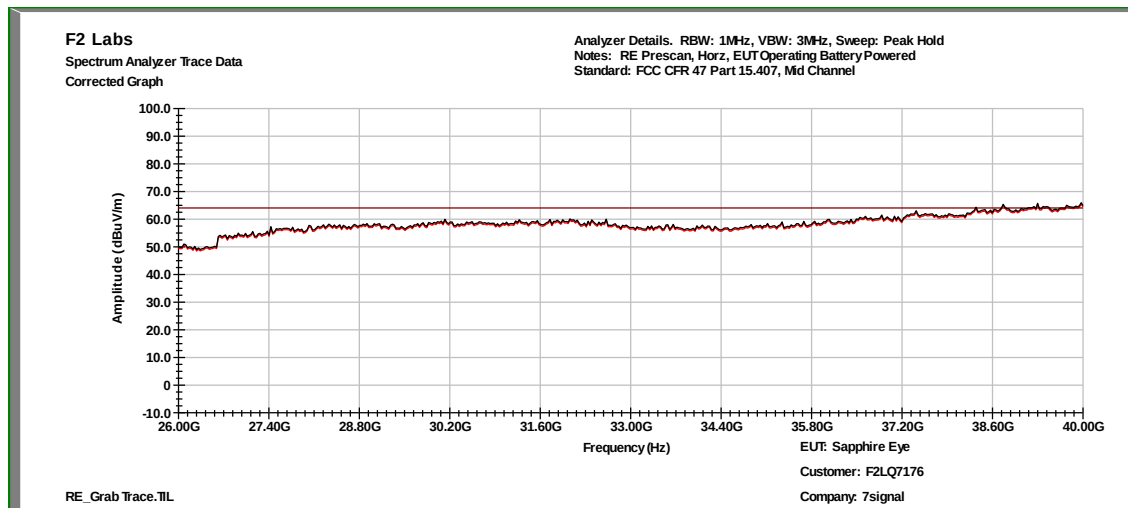


## 5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 18 GHz to 26 GHz, Horizontal



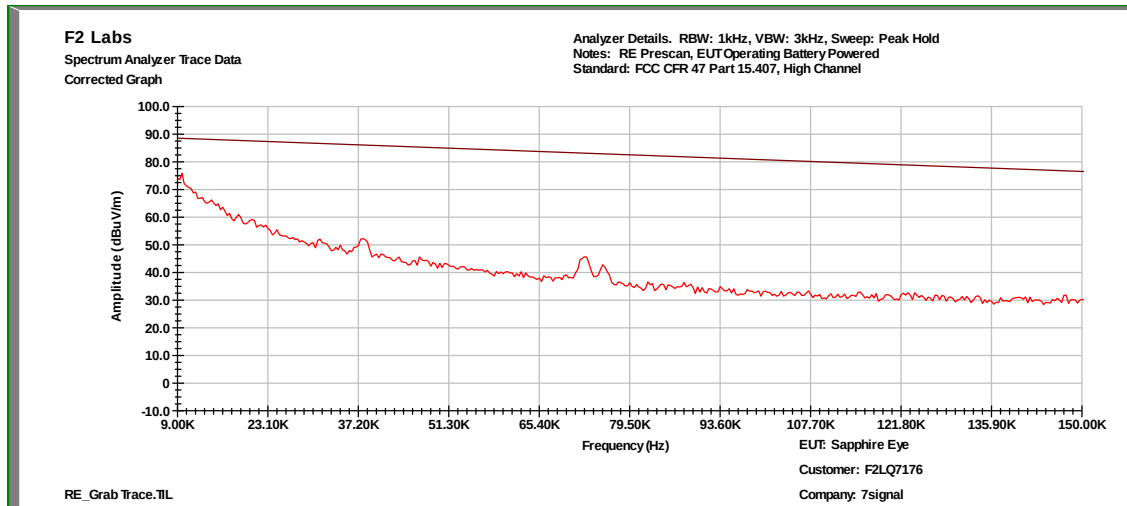


## 5.8 GHZ, 20M, Radiated Spurious Emissions: Mid Channel, 26 GHz to 40 GHz, Horizontal

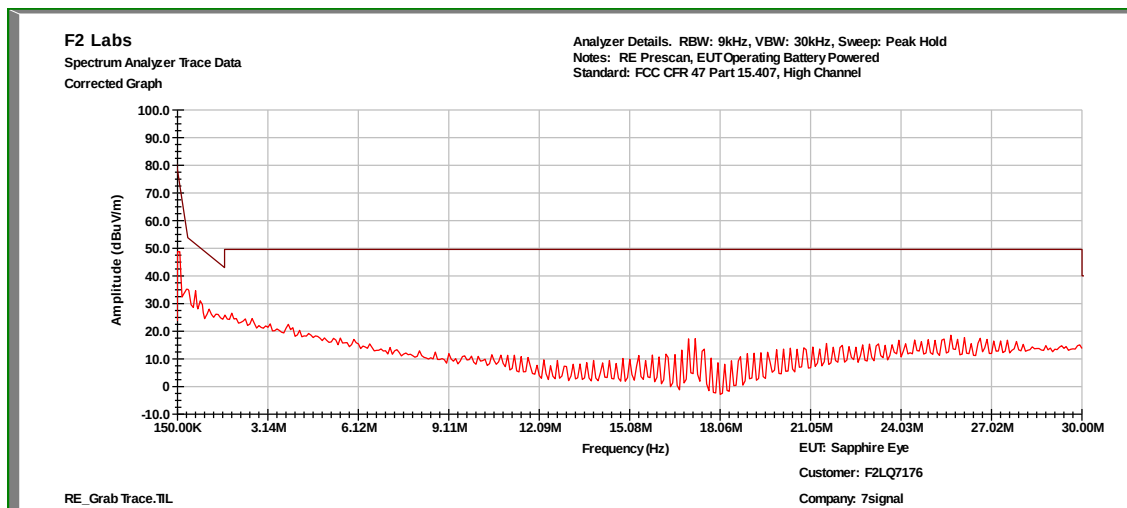




### 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 9k to 150k

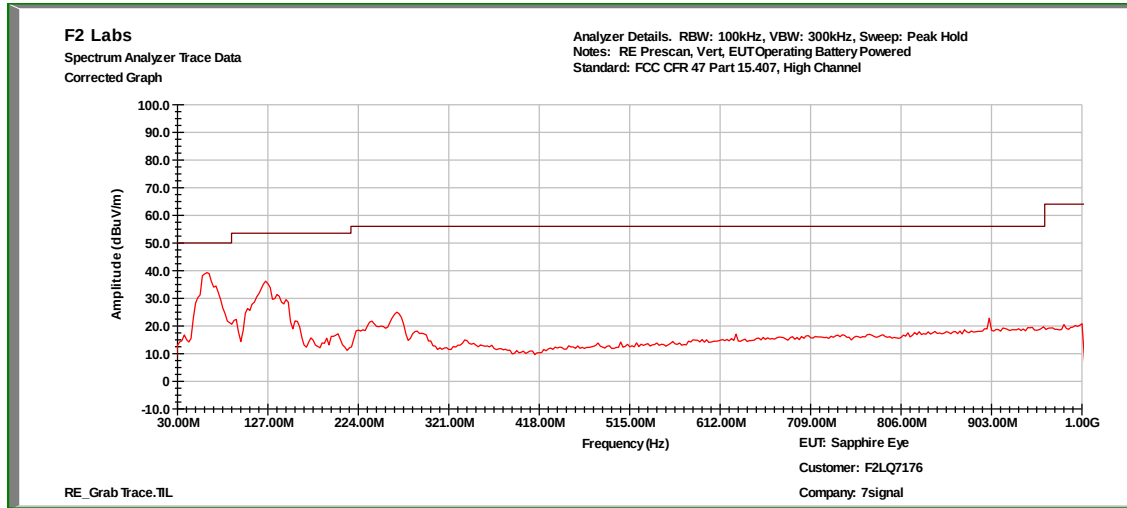


### 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 150k to 30 MHz

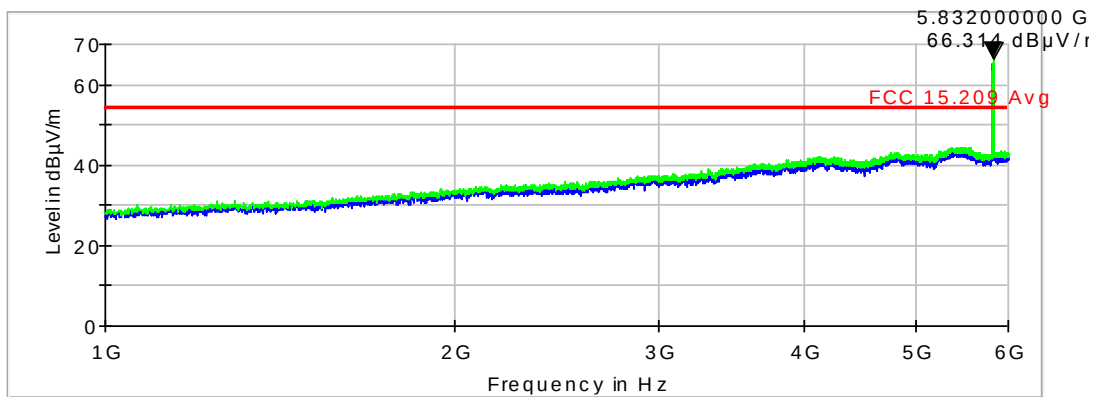




## 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Vertical

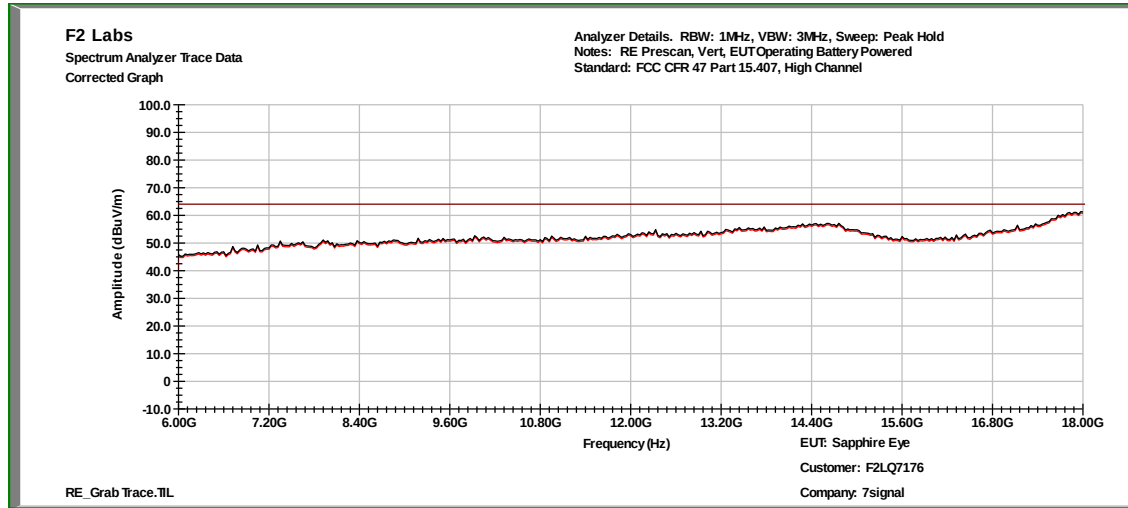


## 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Vertical

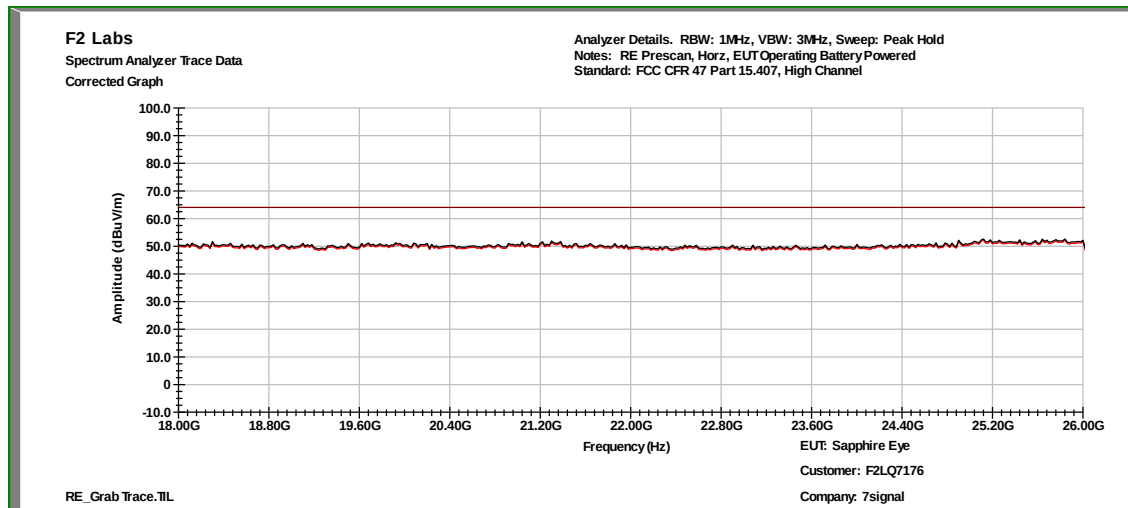




## 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Vertical



## 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Vertical



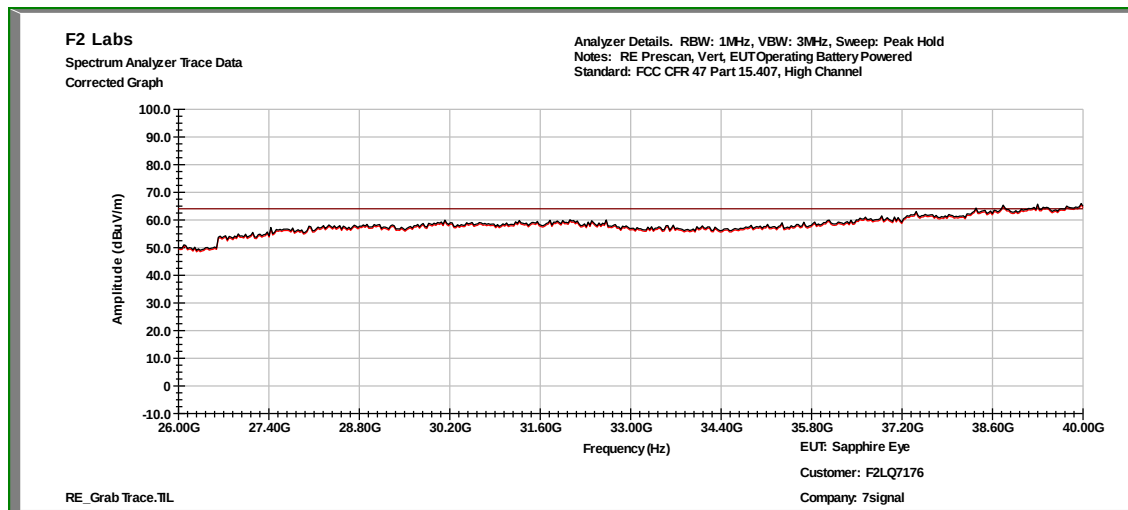


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

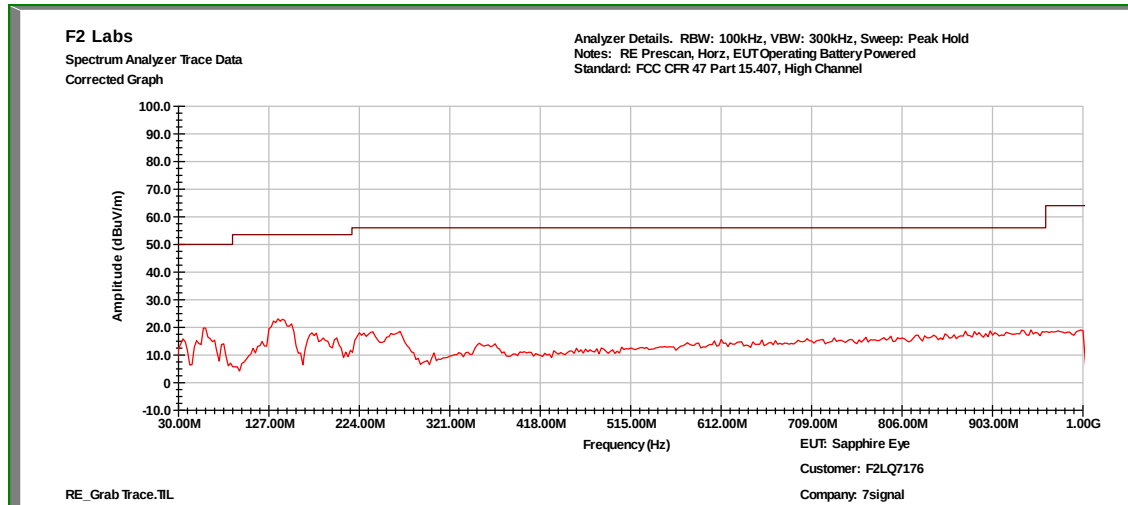
FCC ID: YLFSE2100WL

## 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Vertical

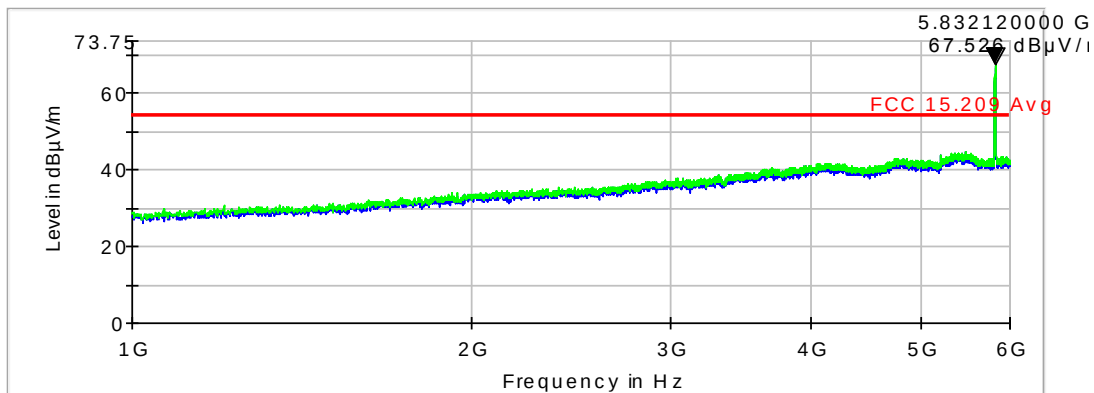




## 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Horizontal

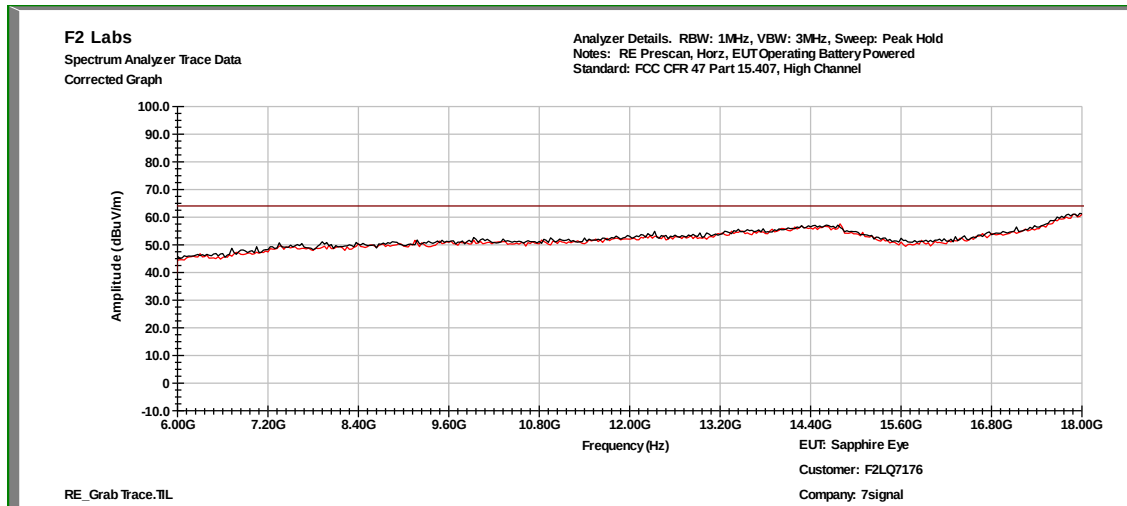


## 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Horizontal

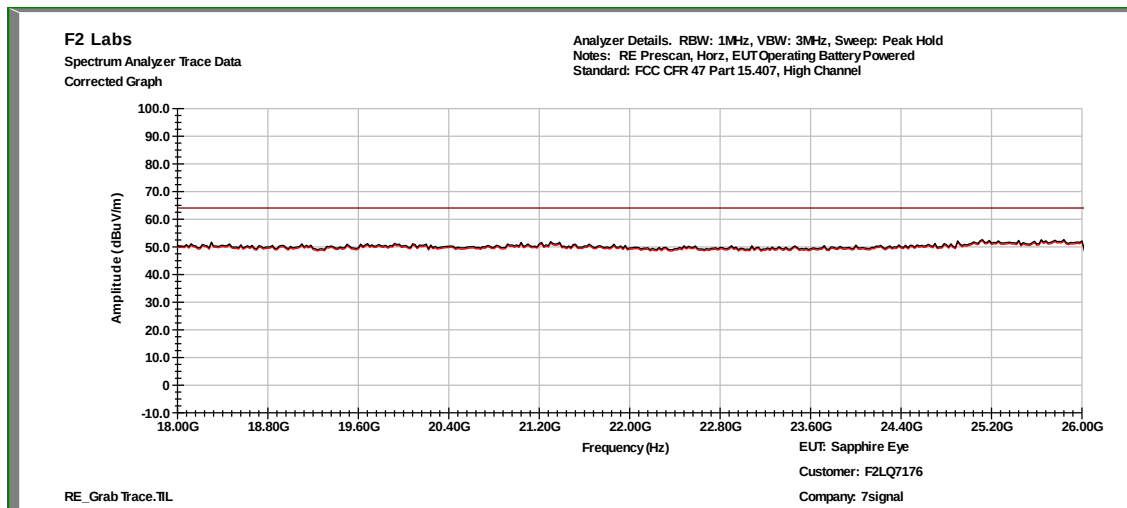




## 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Horizontal

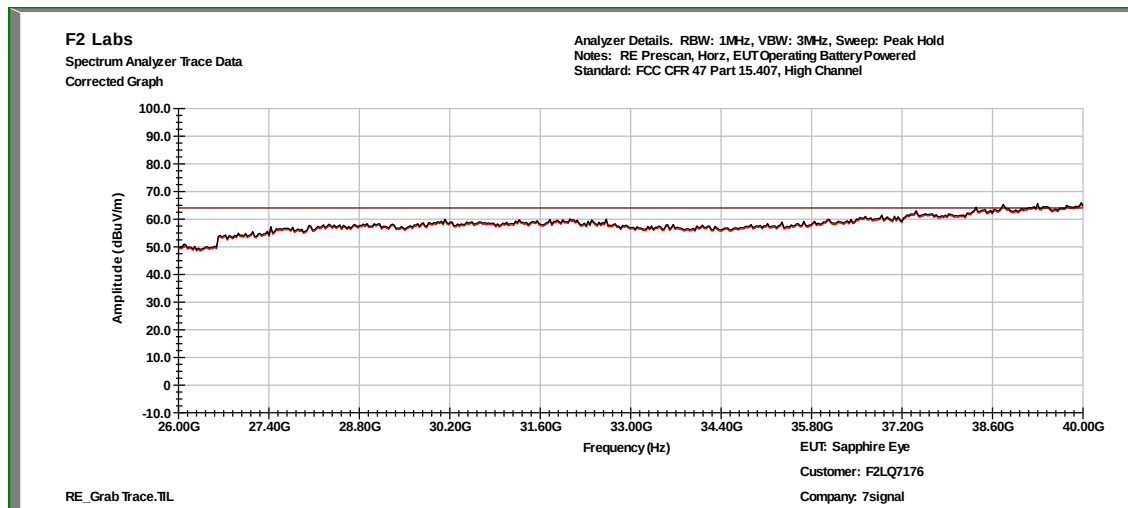


## 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Horizontal



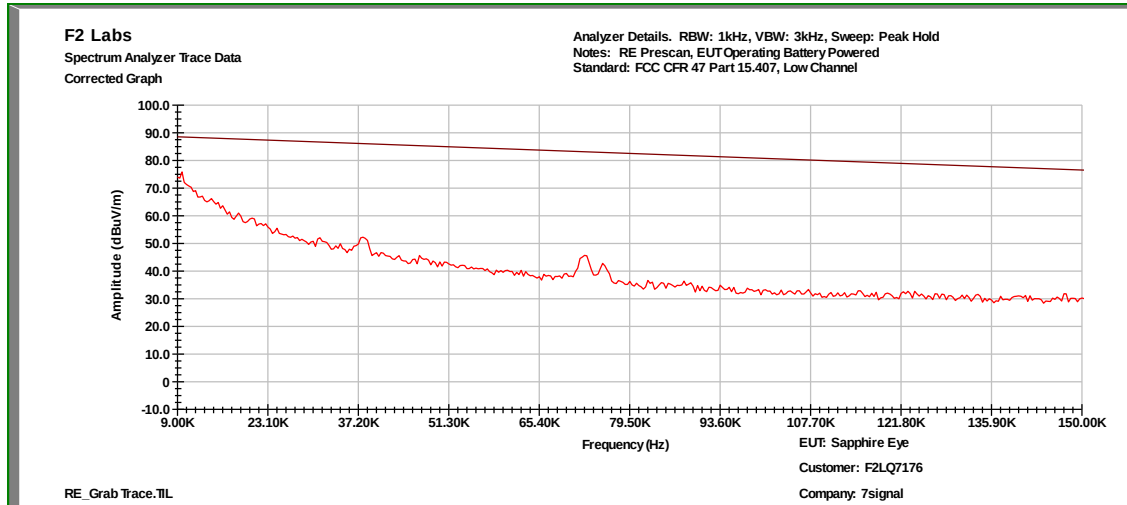


## 5.8 GHZ, 20M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Horizontal

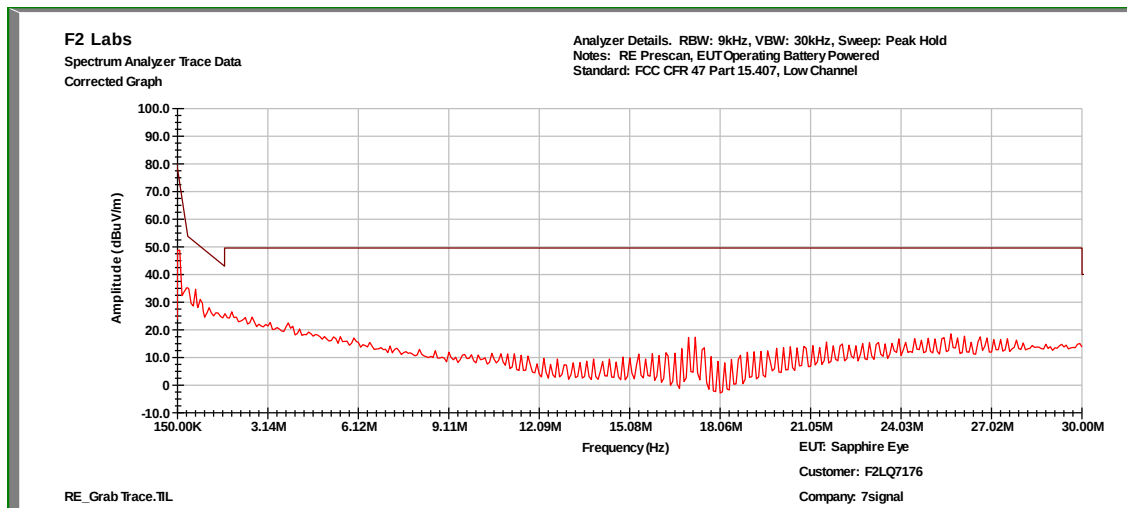




## 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 9k to 150k

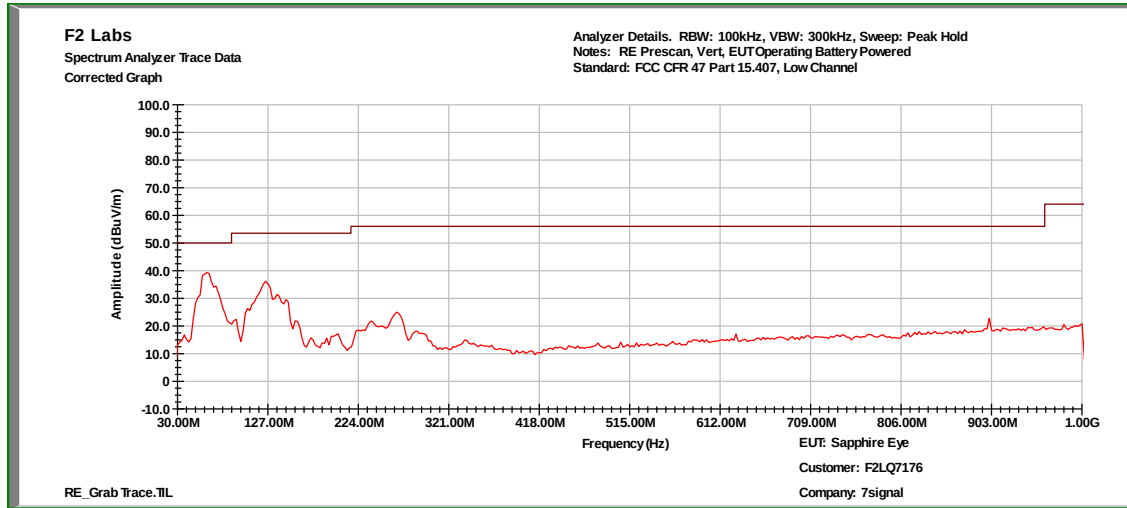


## 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 150k to 30 MHz

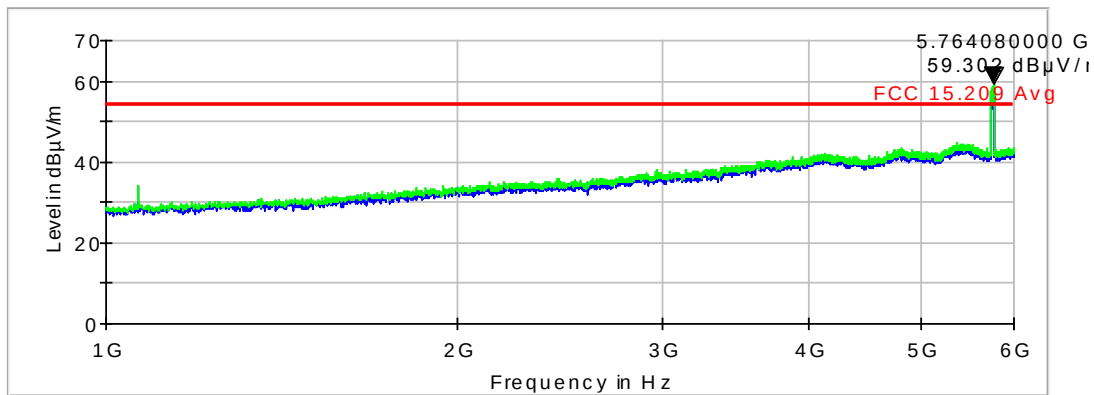




### 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 30 MHz to 1 GHz, Vertical

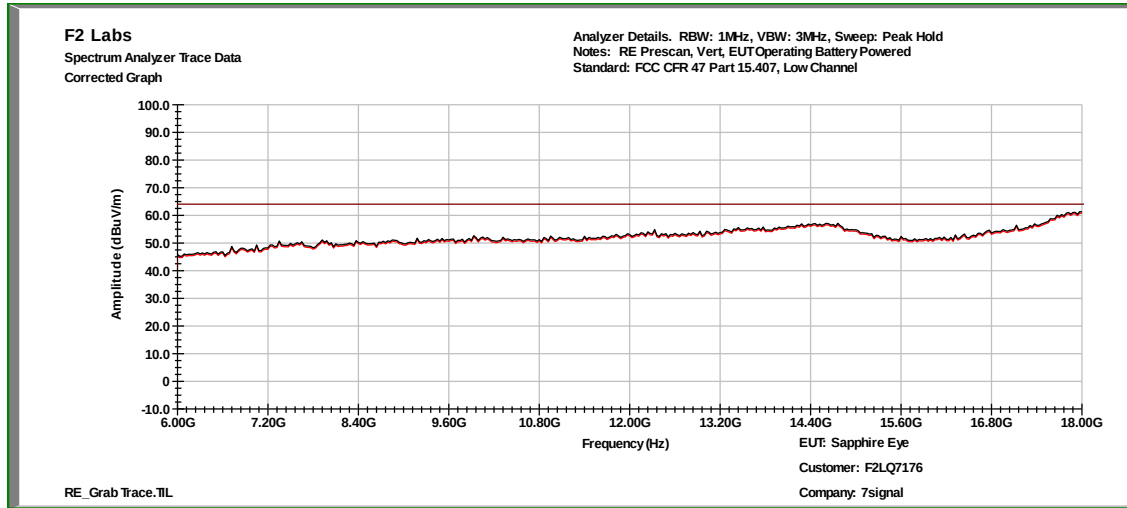


### 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 1 GHz to 6 GHz, Vertical

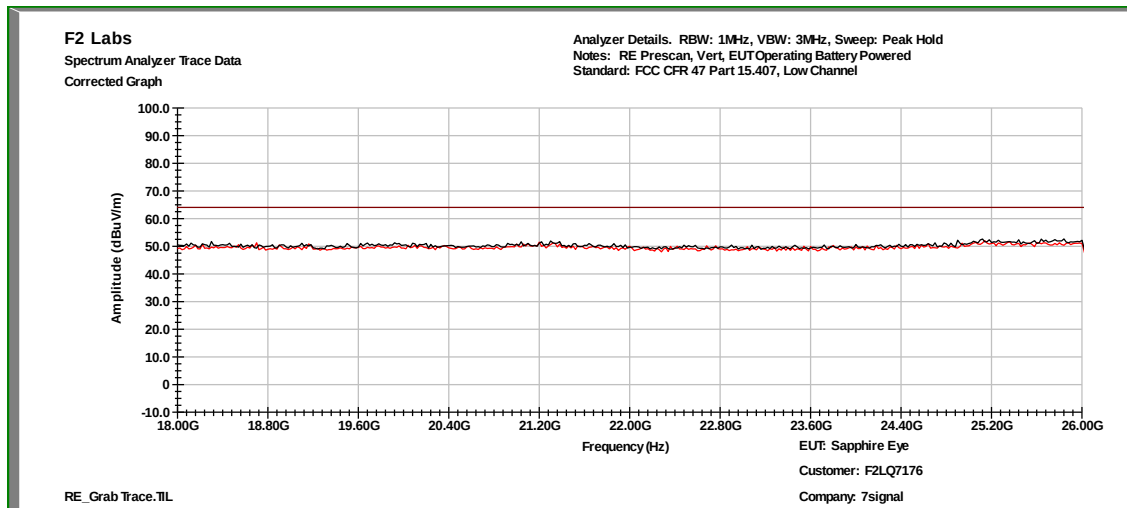




### 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 6 GHz to 18 GHz, Vertical



### 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 18 GHz to 26 GHz, Vertical



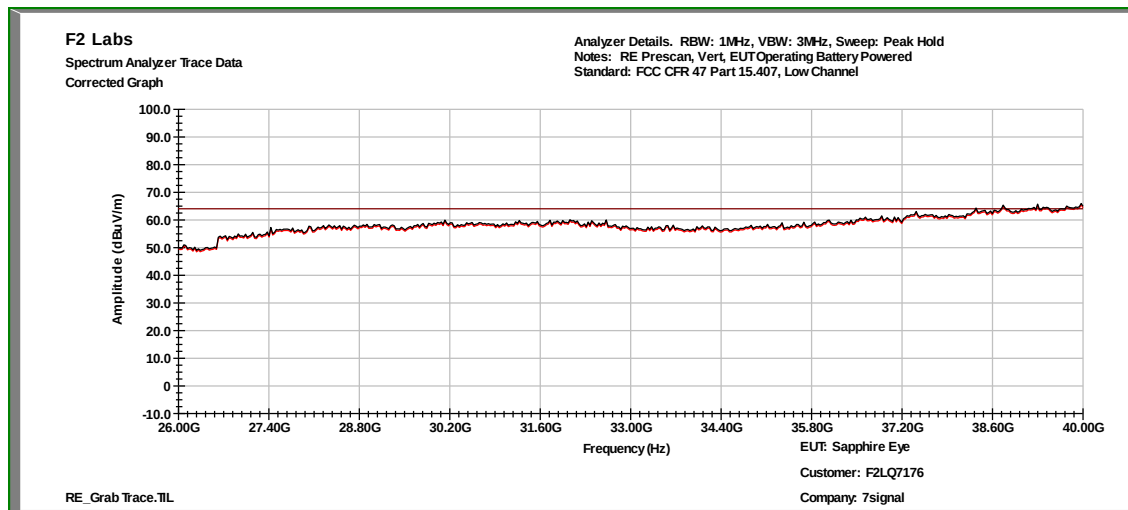


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

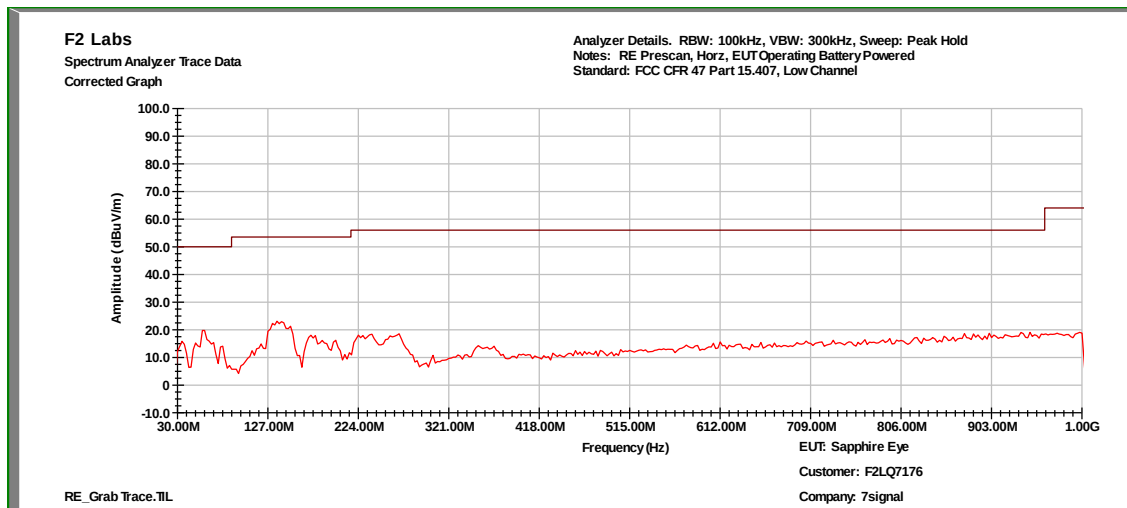
FCC ID: YLFSE2100WL

## 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 26 GHz to 40 GHz, Vertical

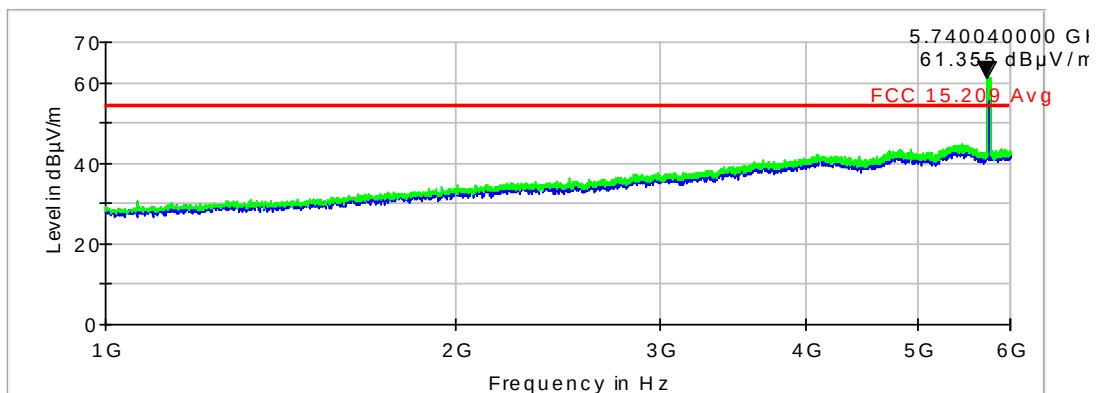




## 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 30 MHz to 1 GHz, Horizontal

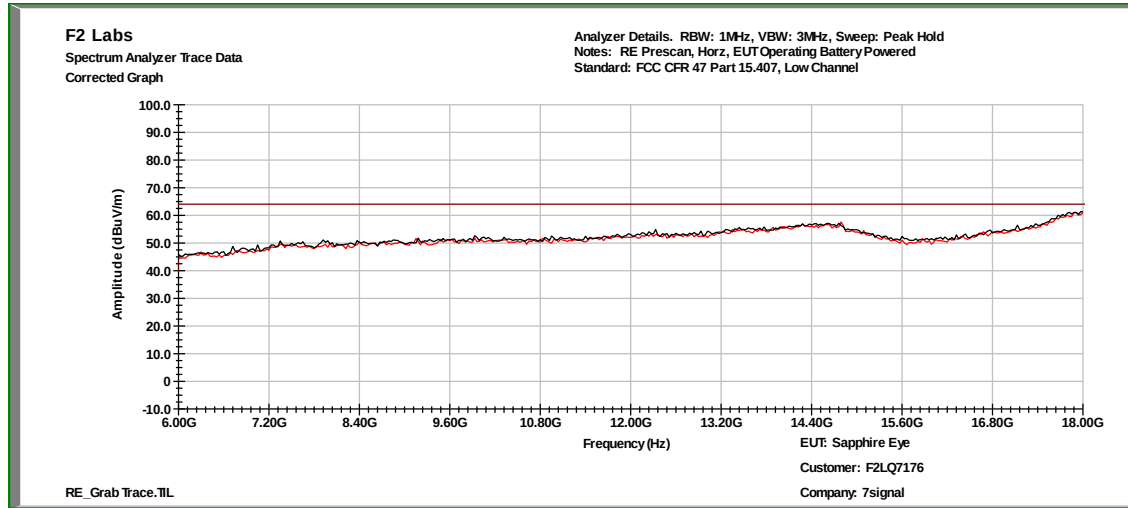


## 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 1 GHz to 6 GHz, Horizontal

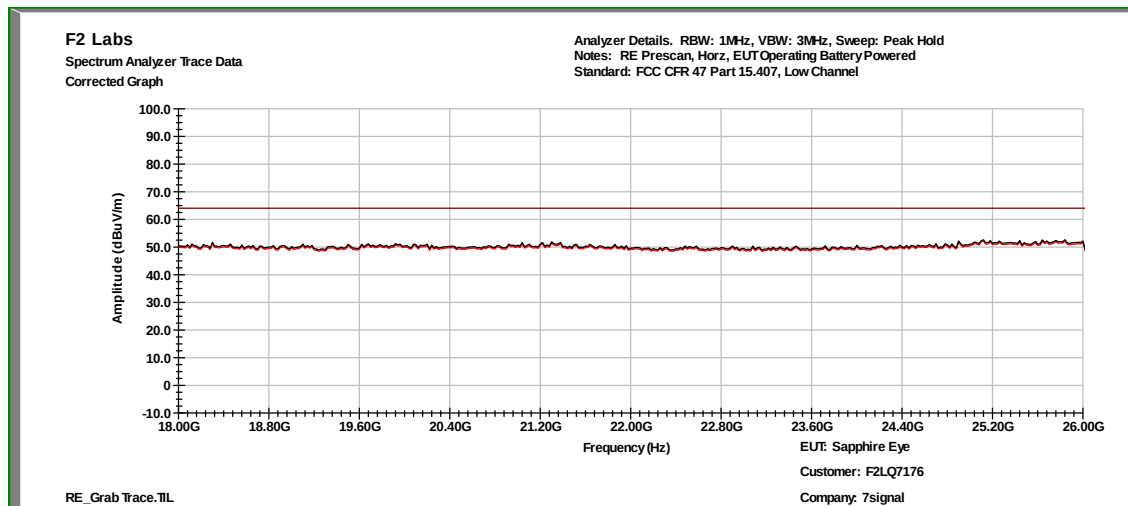




### 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 6 GHz to 18 GHz, Horizontal

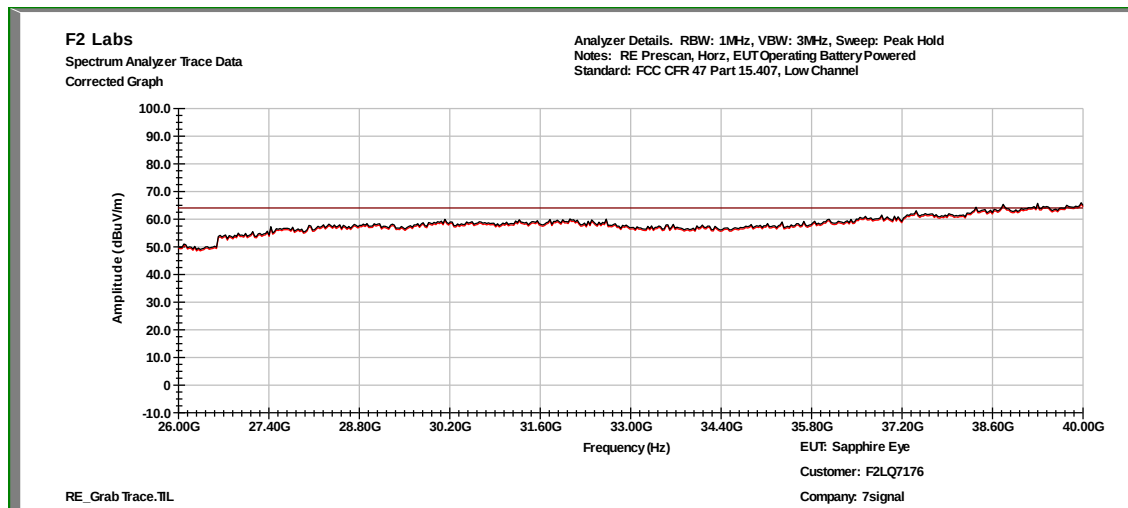


### 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 18 GHz to 26 GHz, Horizontal



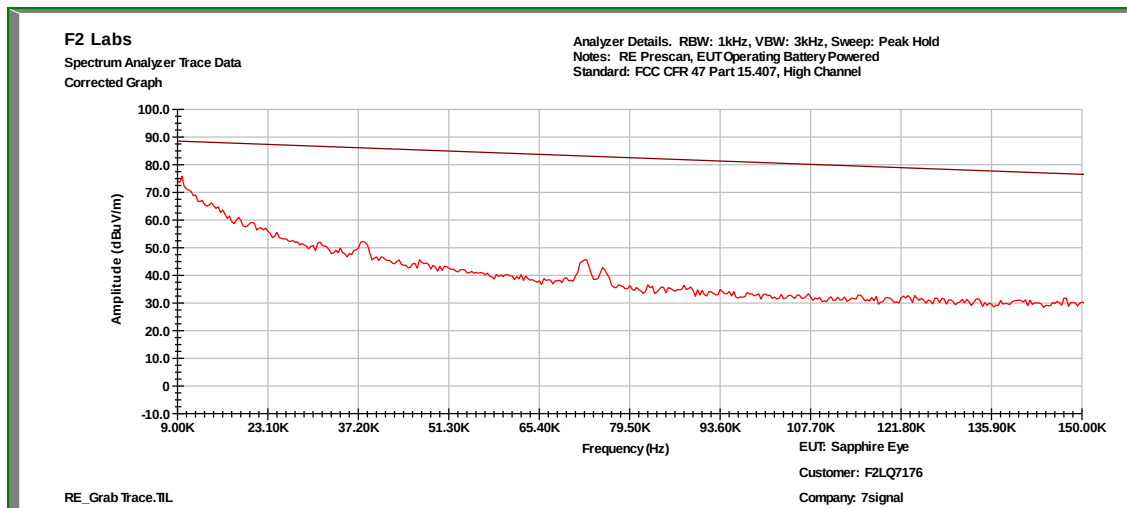


## 5.8 GHZ, 40M, Radiated Spurious Emissions: Low Channel, 26 GHz to 40 GHz, Horizontal

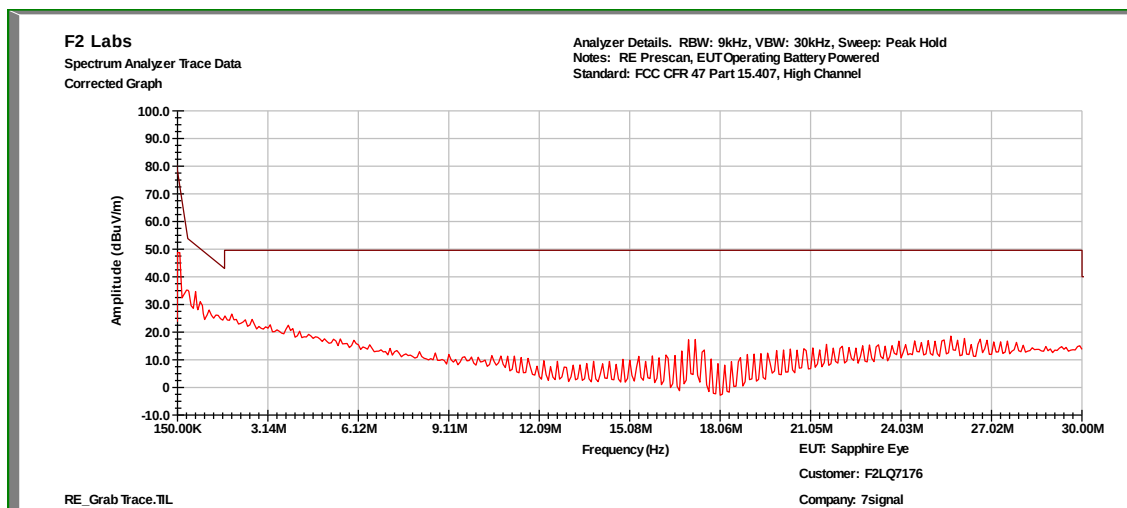




## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 9k to 150k

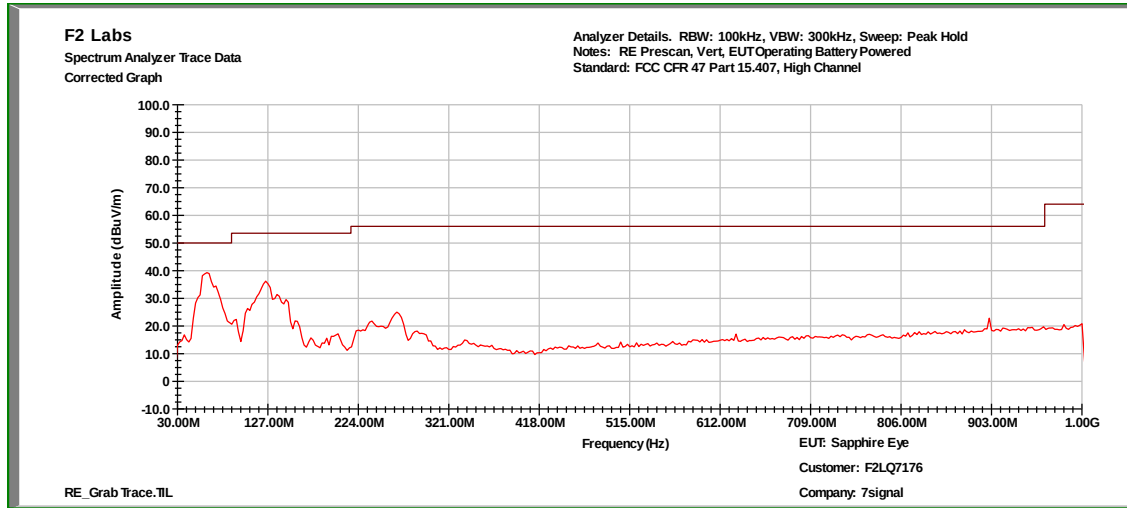


## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 150k to 30 MHz

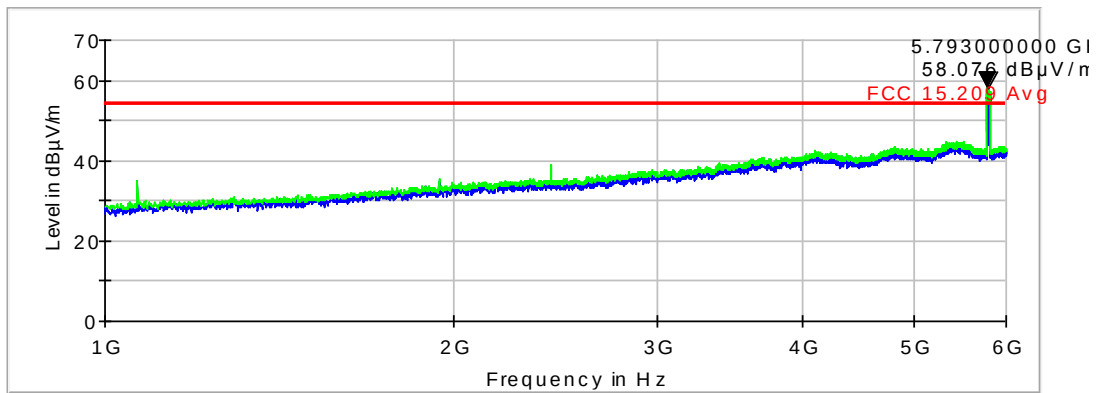




## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Vertical

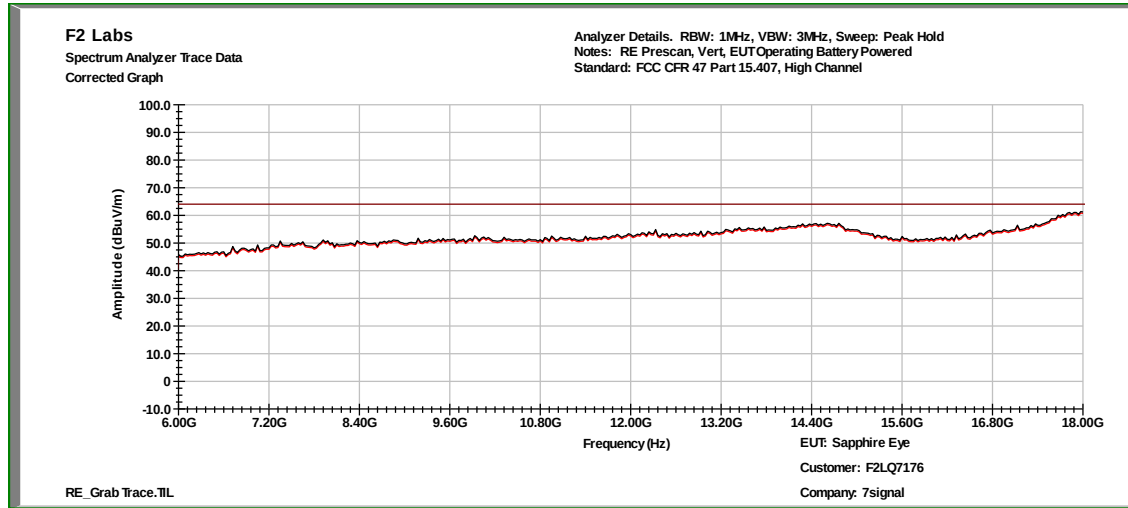


## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Vertical

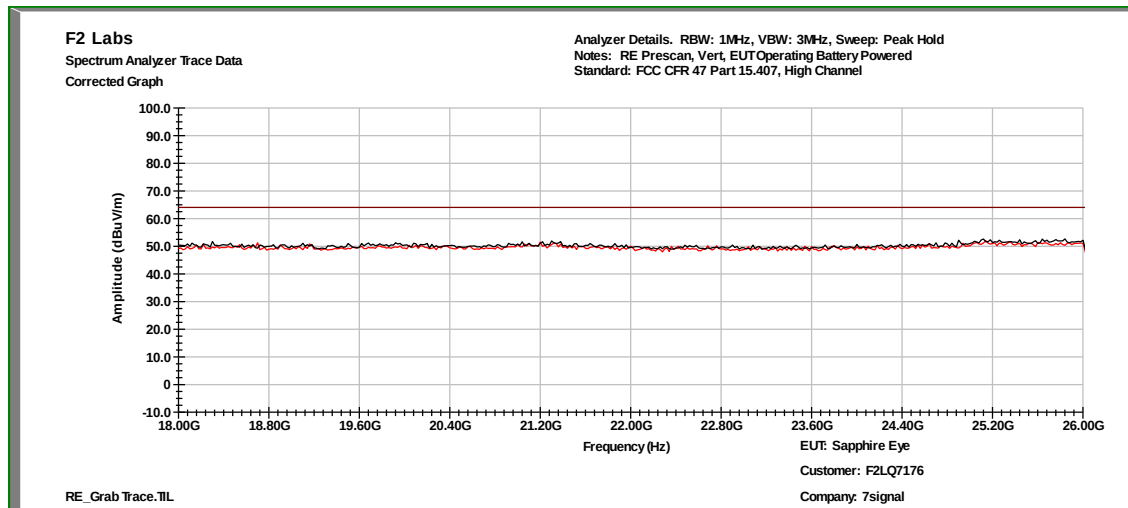




## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Vertical



## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Vertical



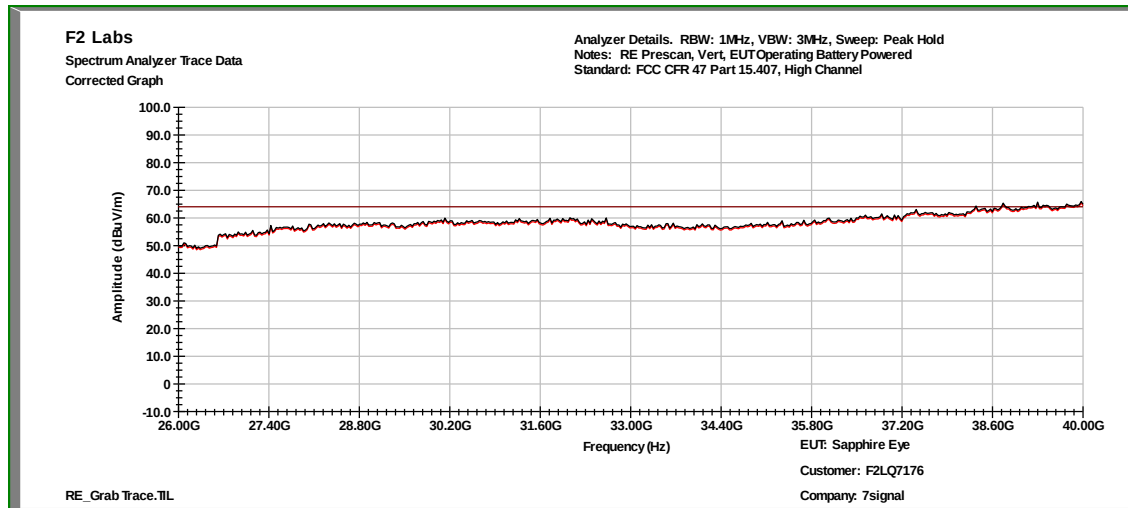


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

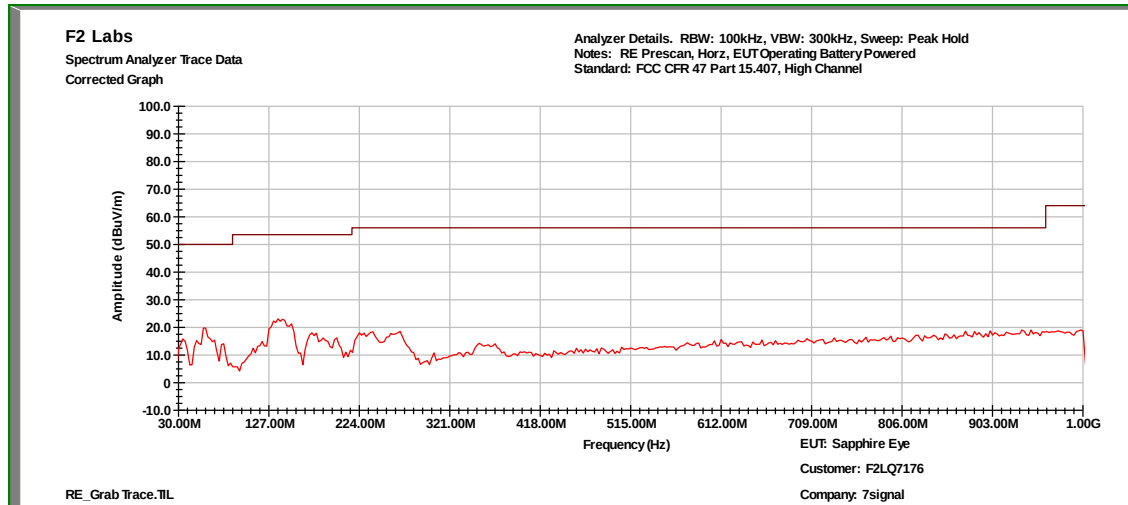
FCC ID: YLFSE2100WL

## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Vertical

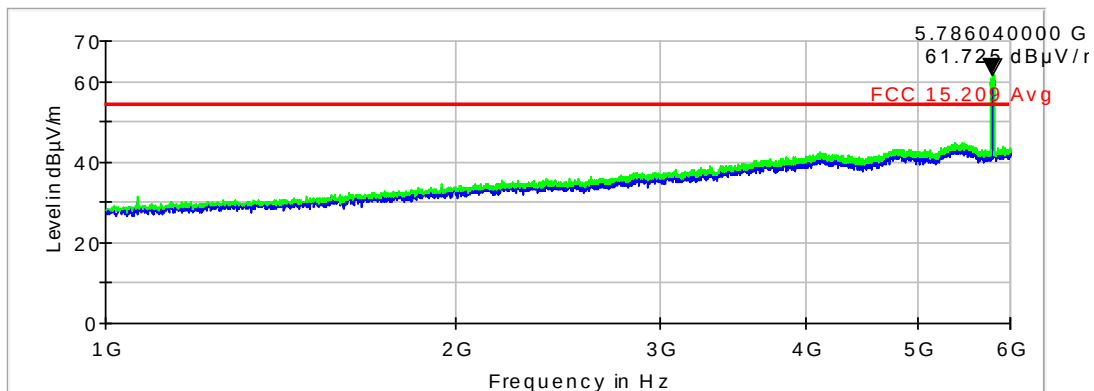




## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Horizontal

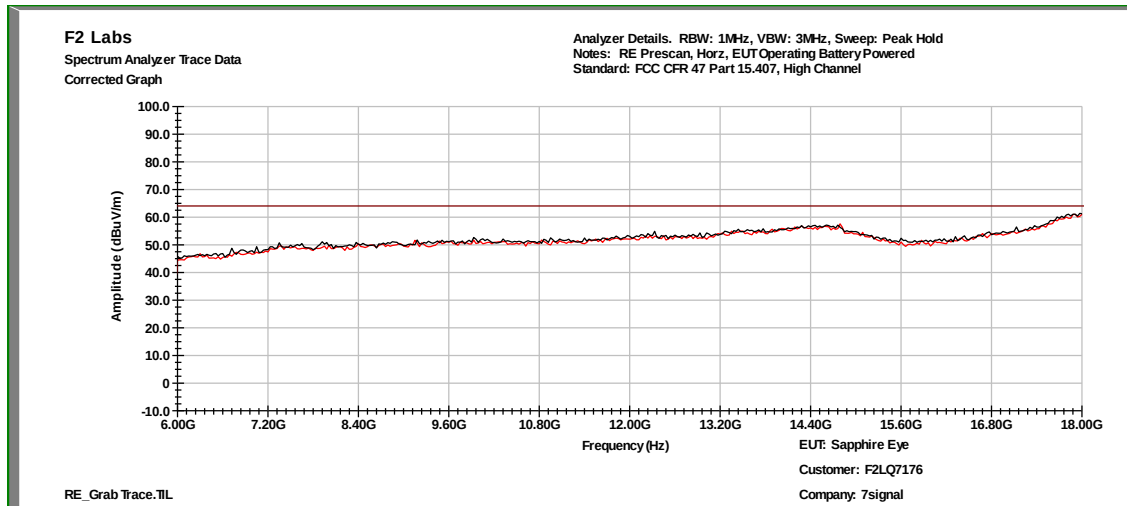


## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Horizontal

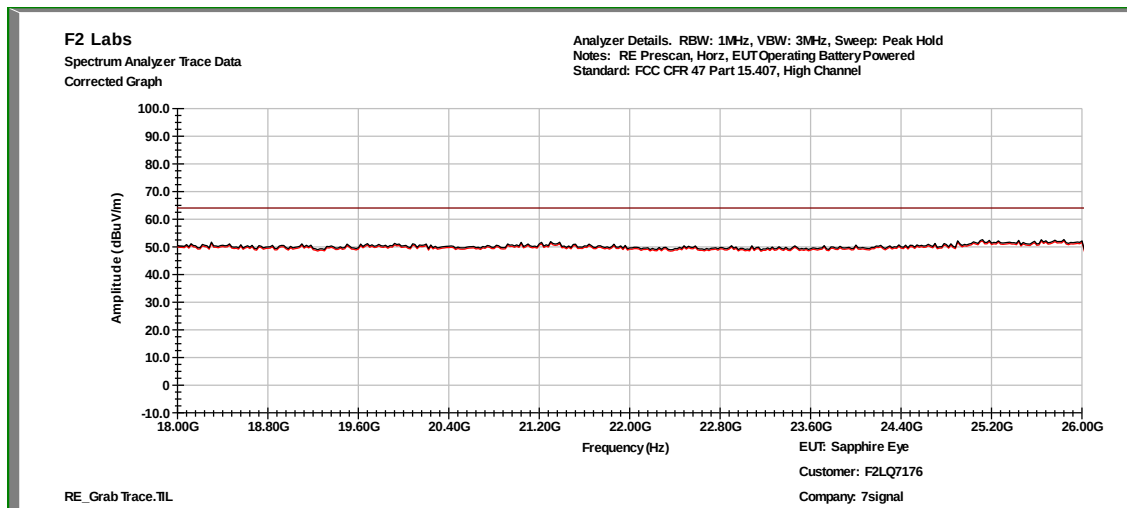




## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Horizontal

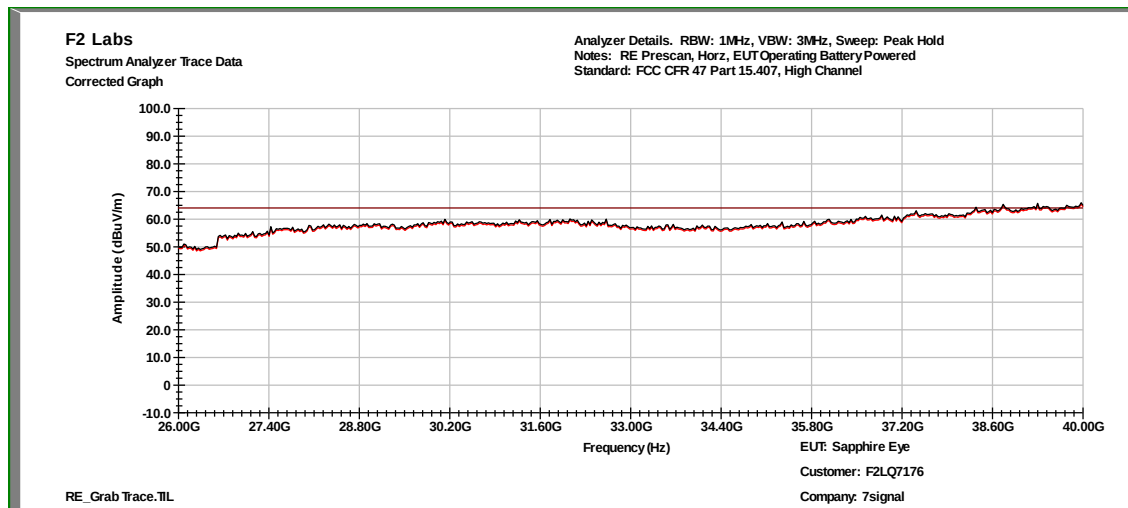


## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Horizontal



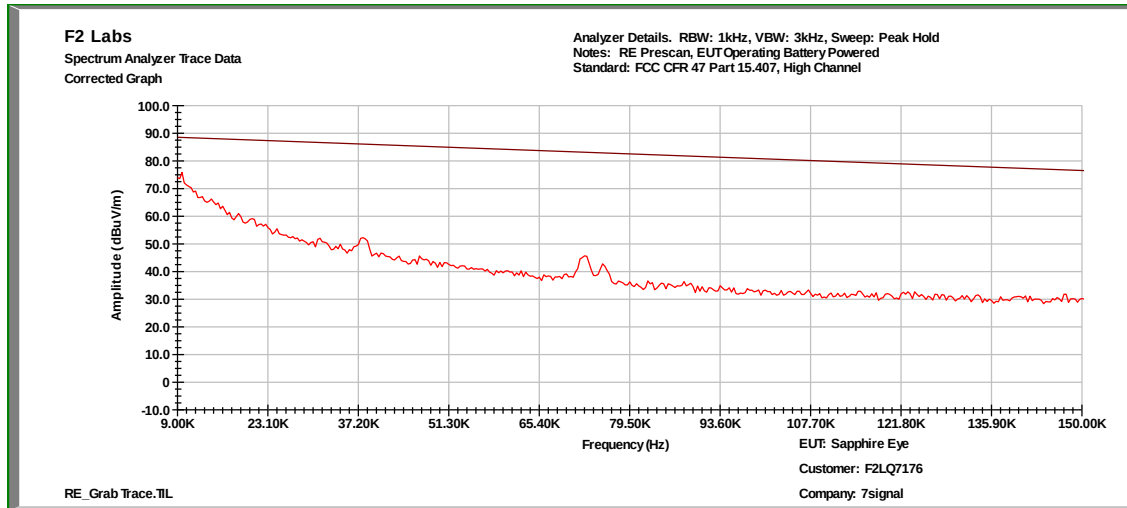


## 5.8 GHZ, 40M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Horizontal

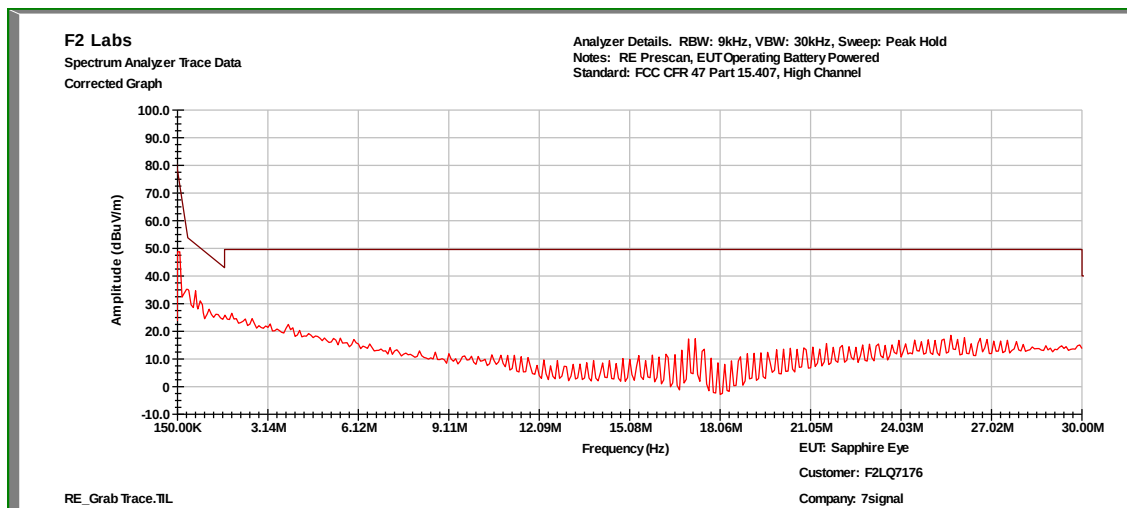




## 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 9k to 150k

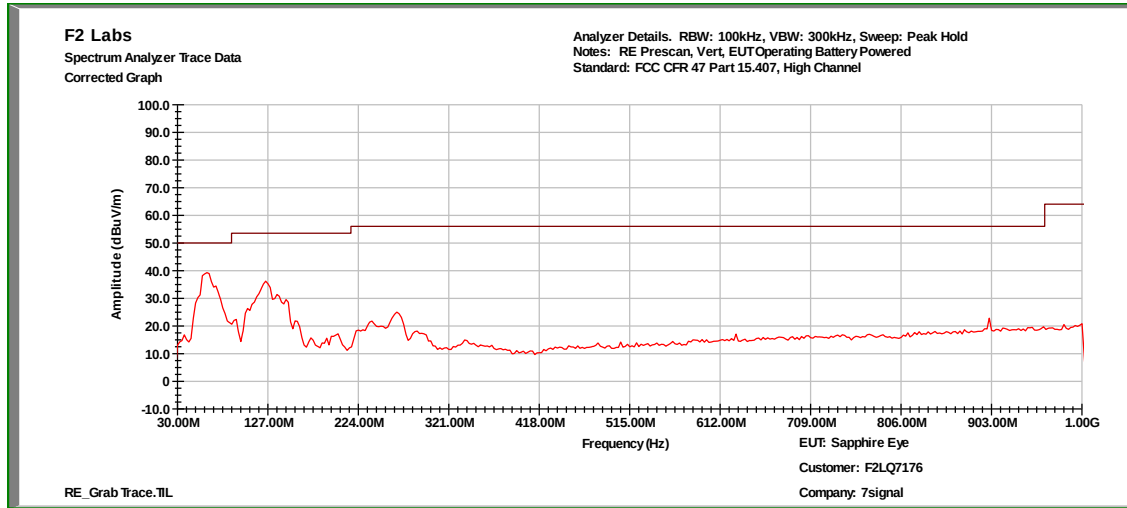


## 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 150k to 30 MHz

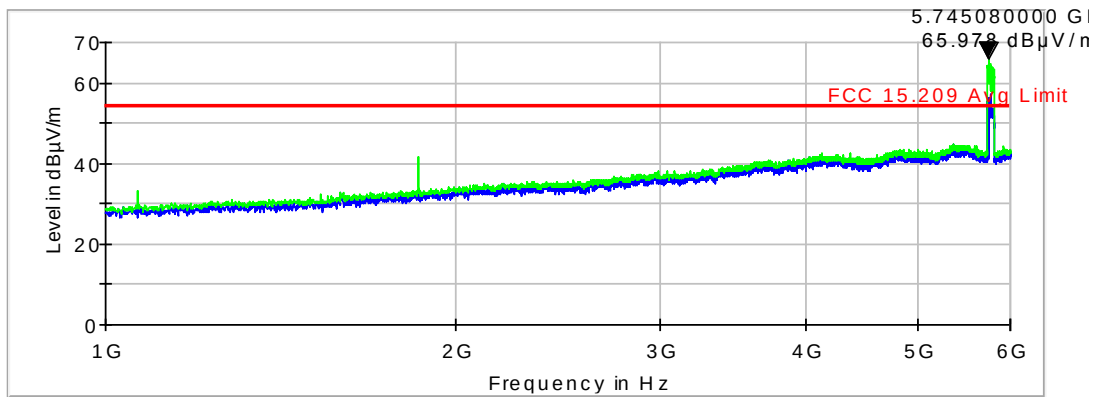




### 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Vertical

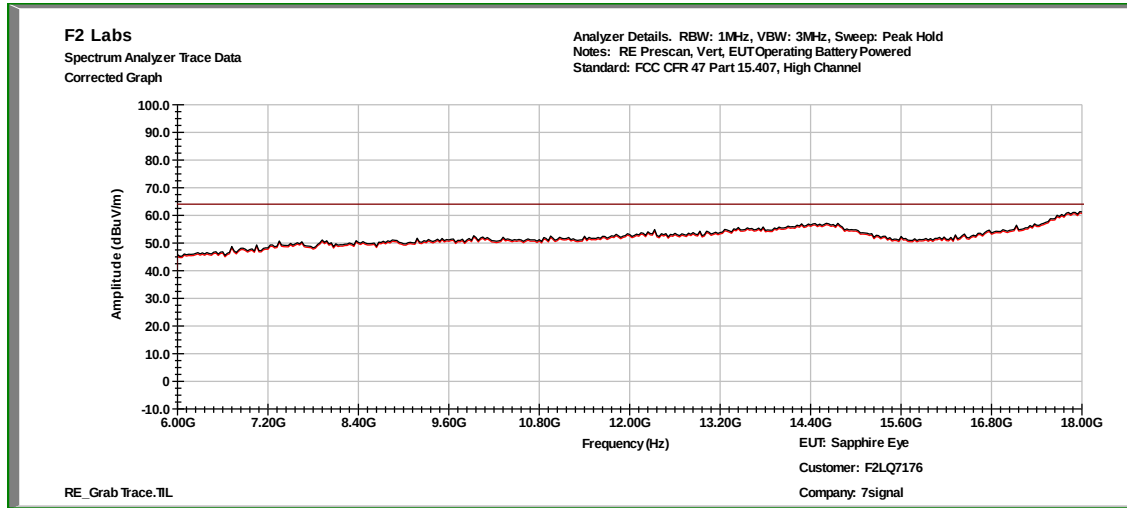


### 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Vertical

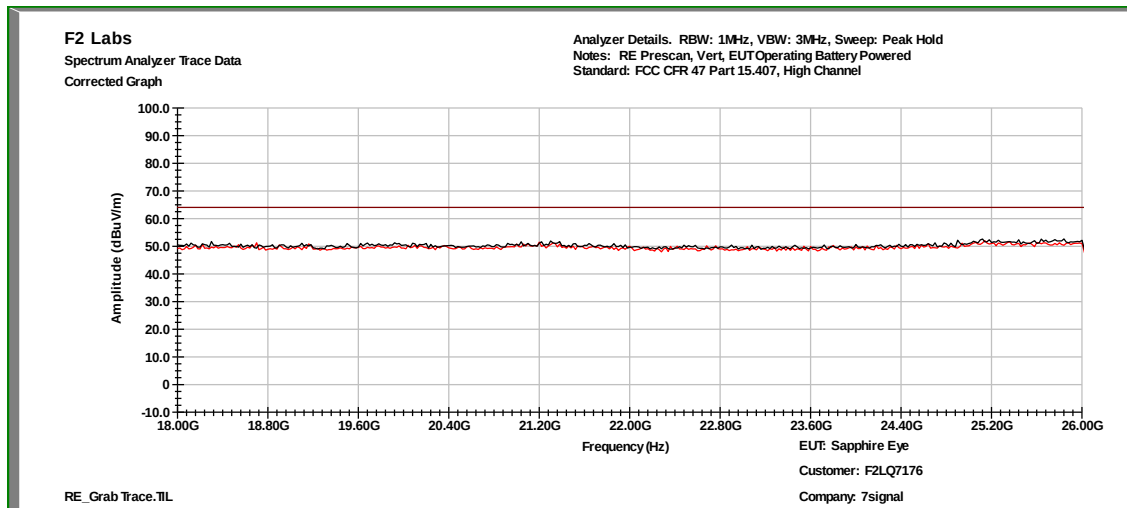




## 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Vertical



## 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Vertical



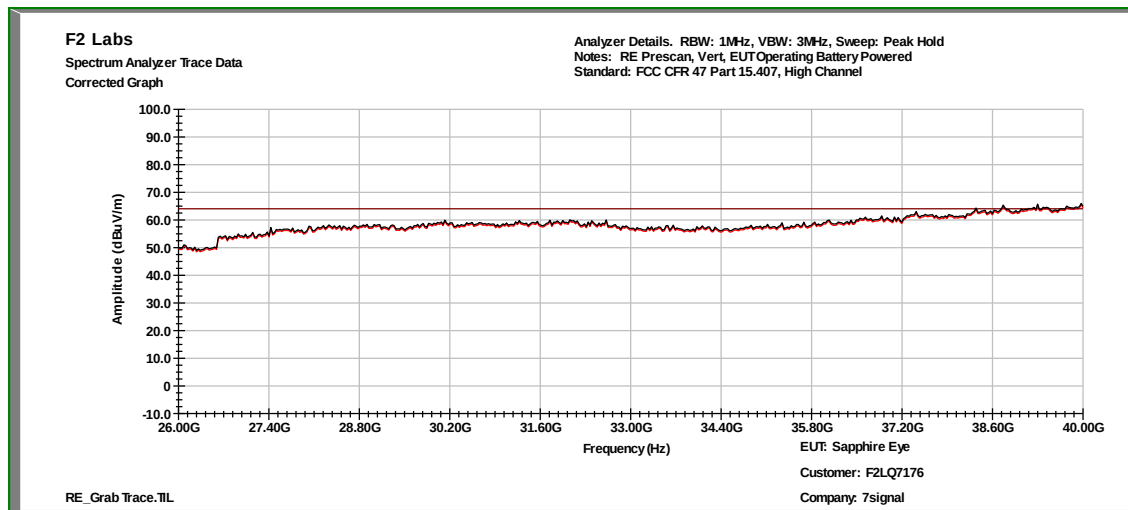


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

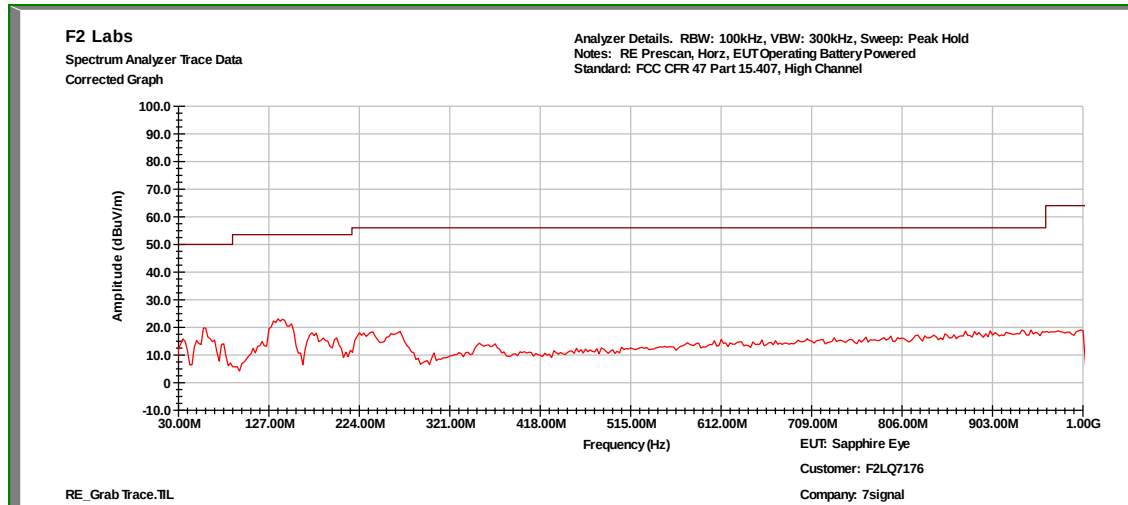
FCC ID: YLFSE2100WL

## 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Vertical

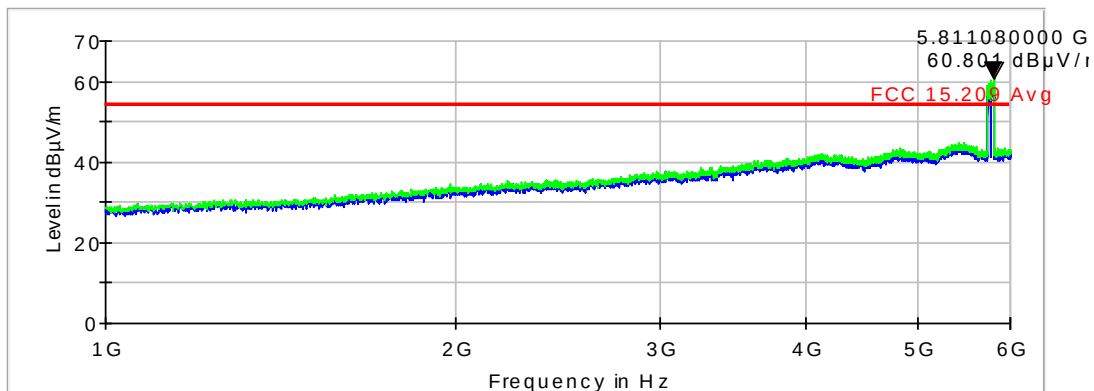




### 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 30 MHz to 1 GHz, Horizontal

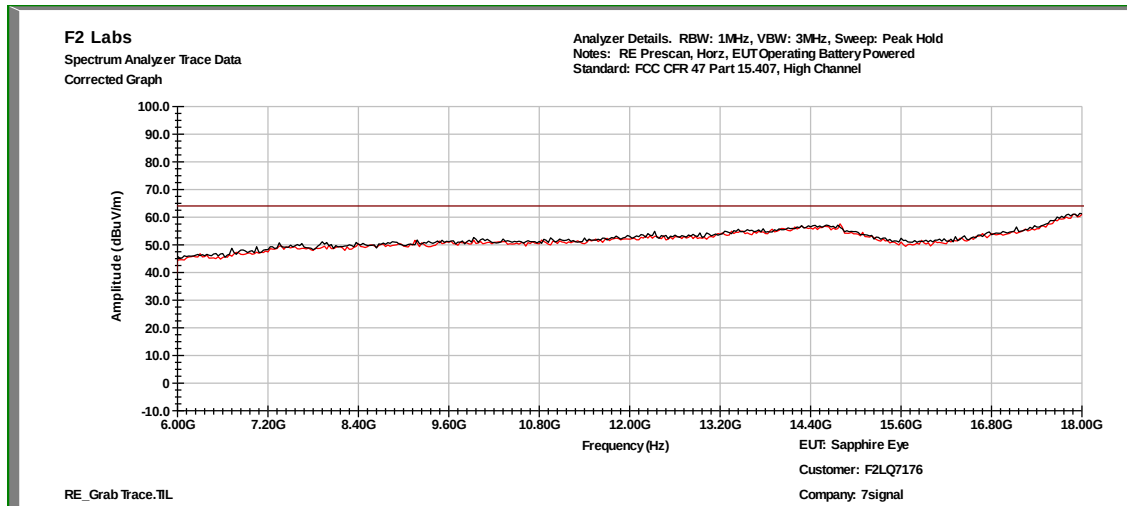


### 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 1 GHz to 6 GHz, Horizontal

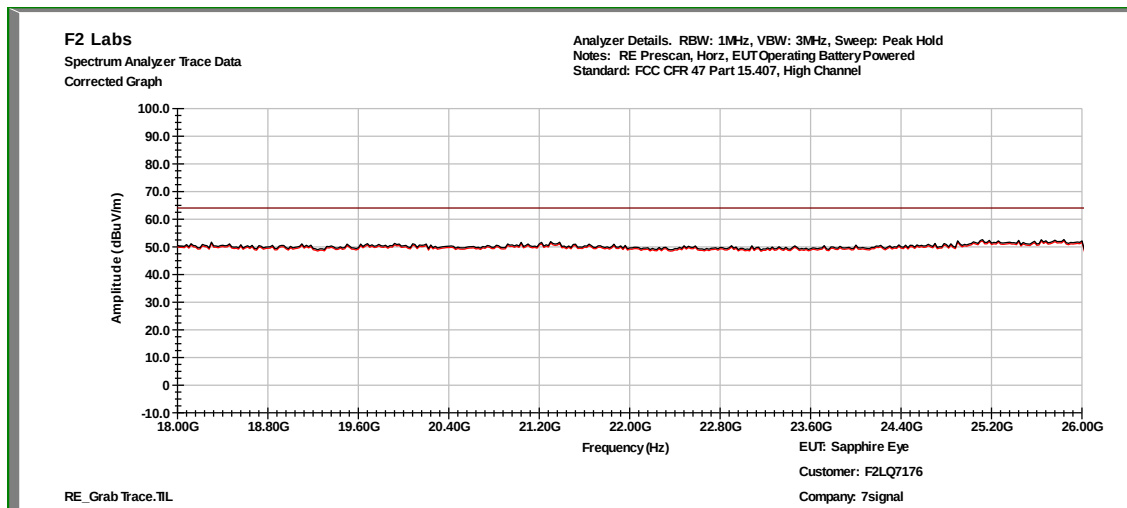




## 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 6 GHz to 18 GHz, Horizontal



## 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 18 GHz to 26 GHz, Horizontal



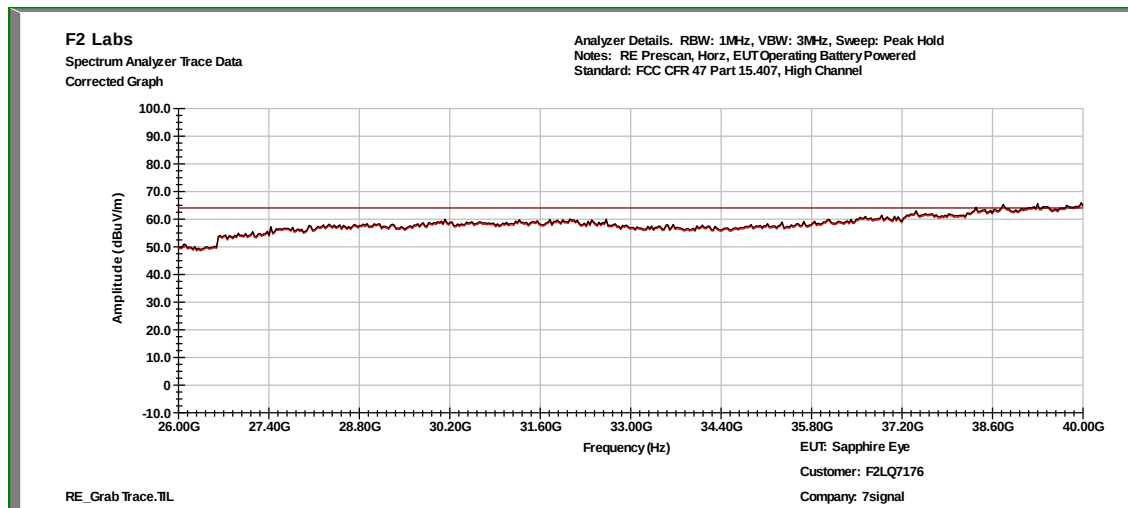


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

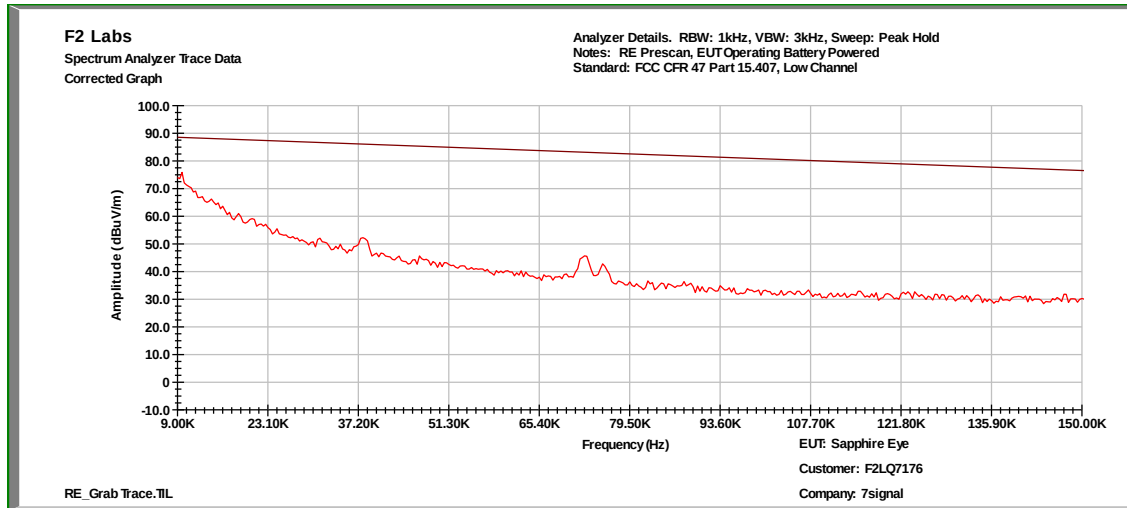
FCC ID: YLFSE2100WL

## 5.8 GHZ, 80M, Radiated Spurious Emissions: High Channel, 26 GHz to 40 GHz, Horizontal

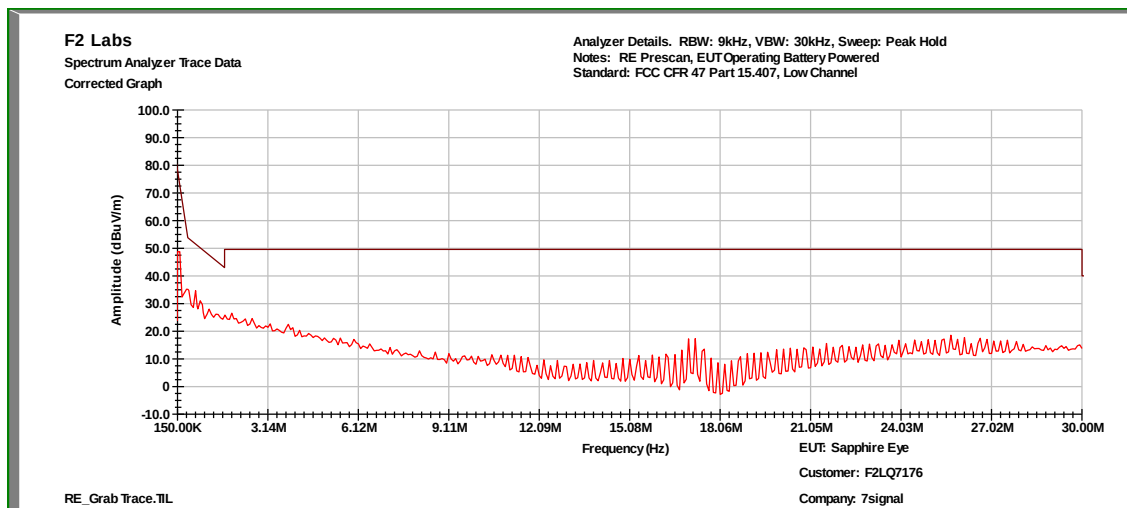




5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 9k to 150k

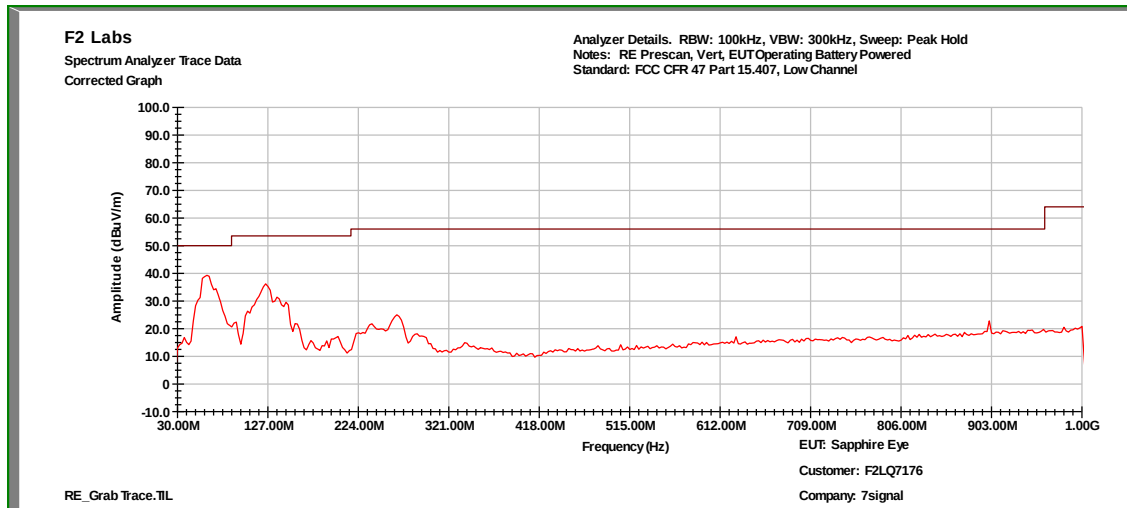


5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 150k to 30M

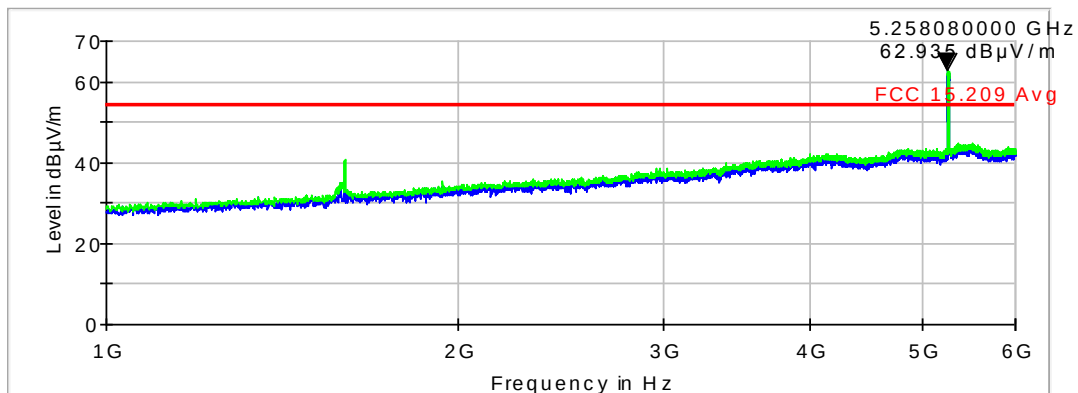




**5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 30M to 1G, Vertical**

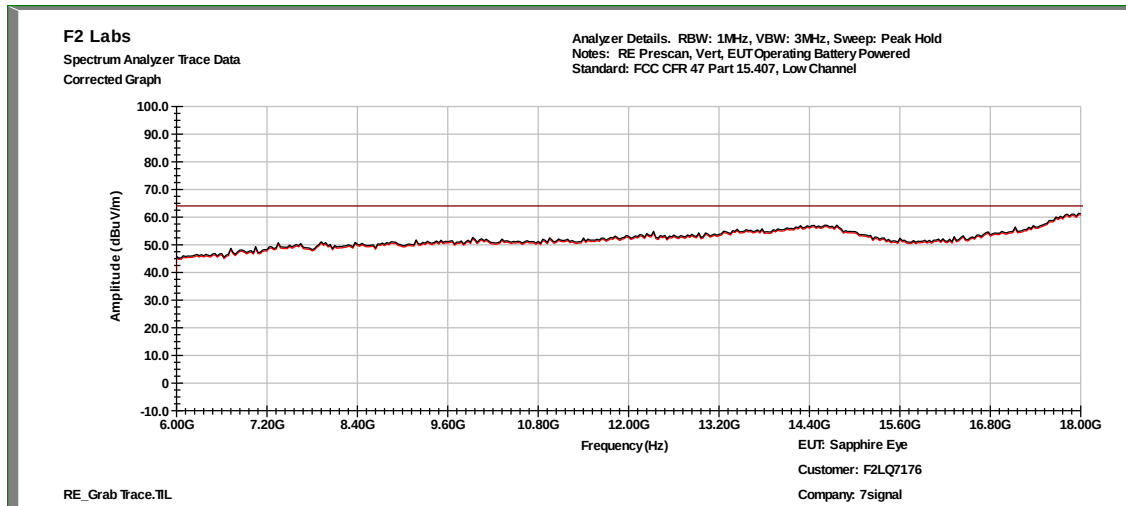


**5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 1G to 6G, Vertical**

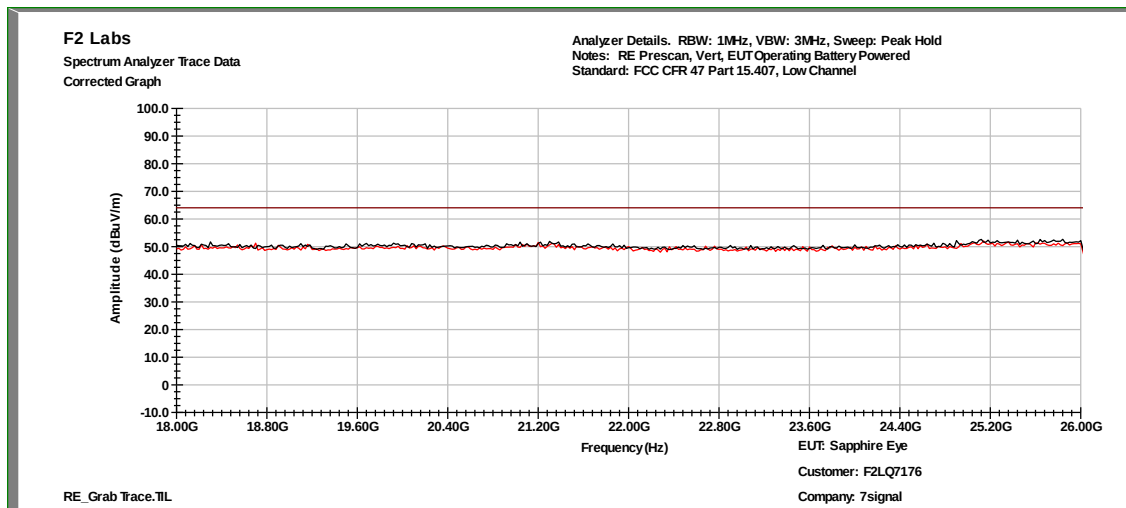




**5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 6G to 18G, Vertical**



**5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 18G to 26G, Vertical**



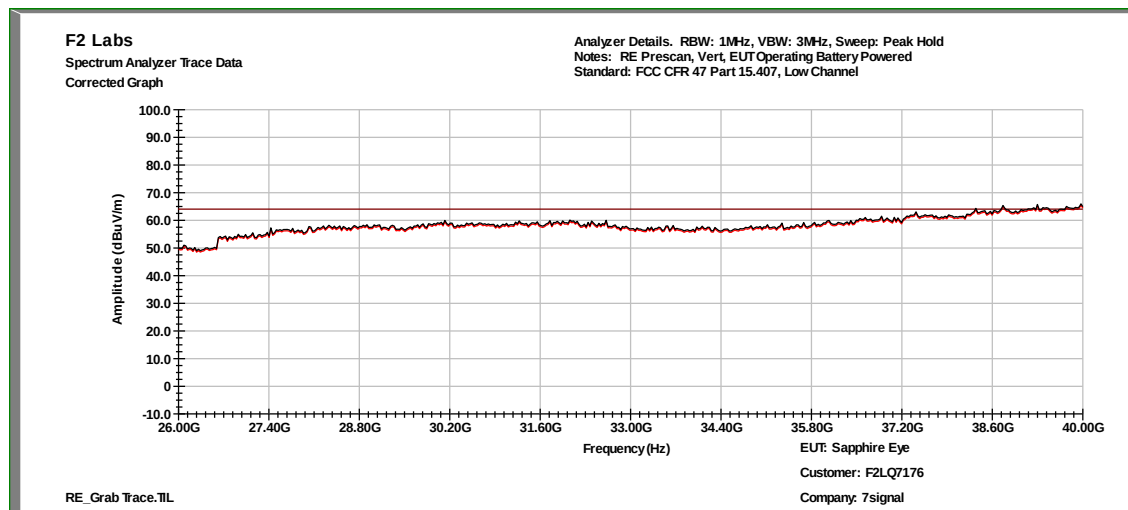


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

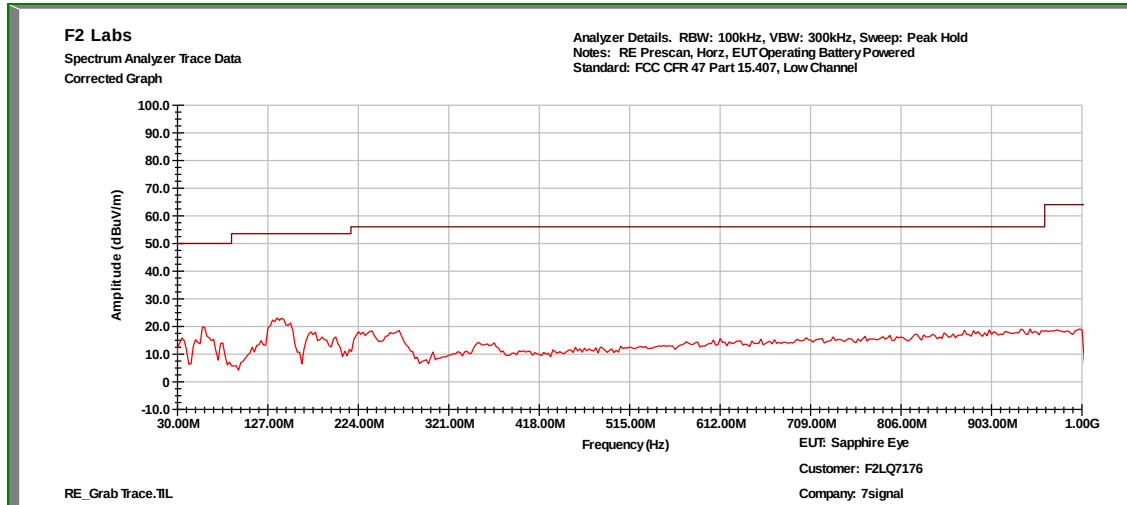
FCC ID: YLFSE2100WL

5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 26G to 40G, Vertical

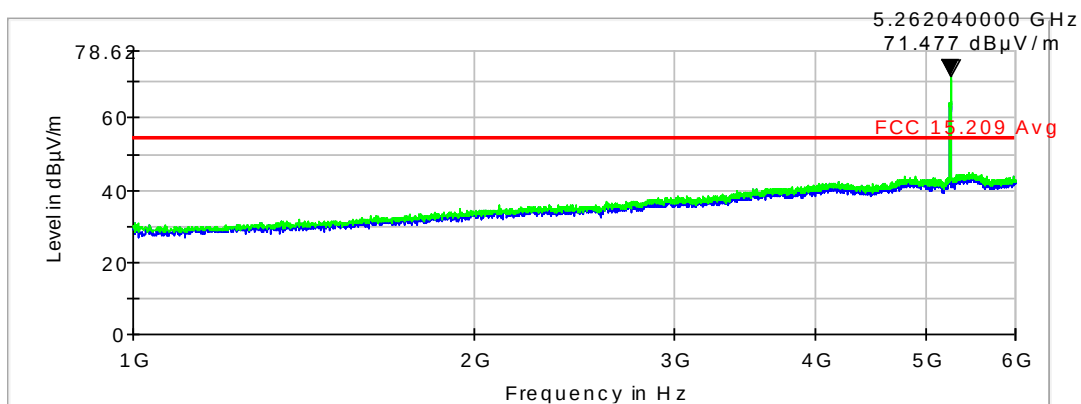




**5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 30M to 1G, Horizontal**

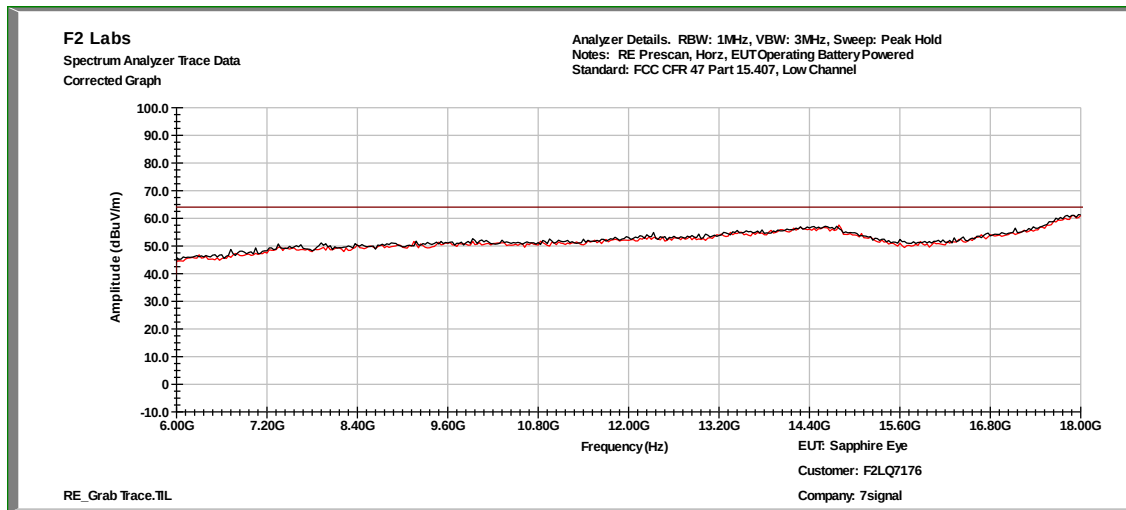


**5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 1G to 6G, Horizontal**

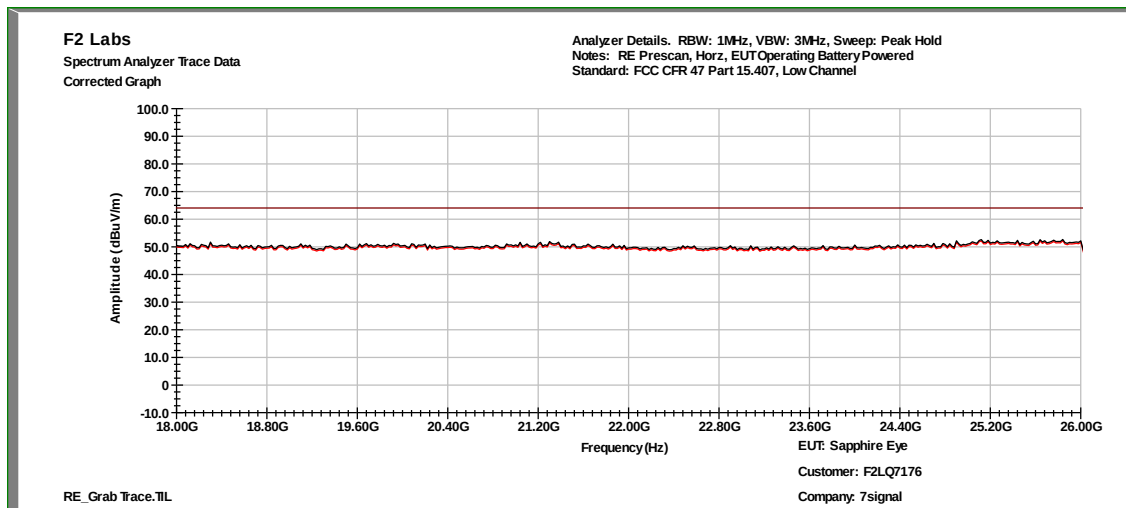




**5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 6G to 18G, Horizontal**



**5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 18G to 26G, Horizontal**



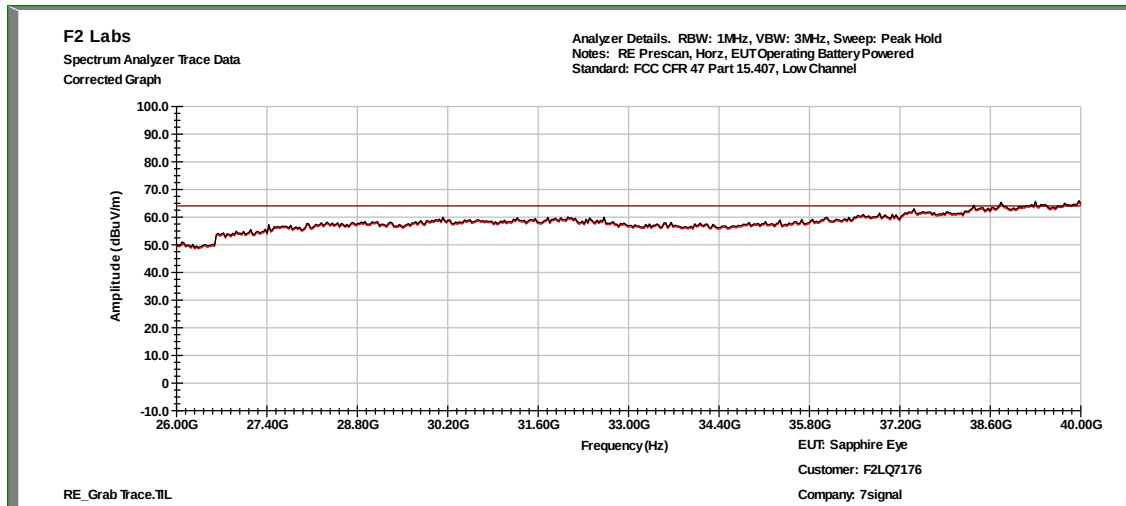


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

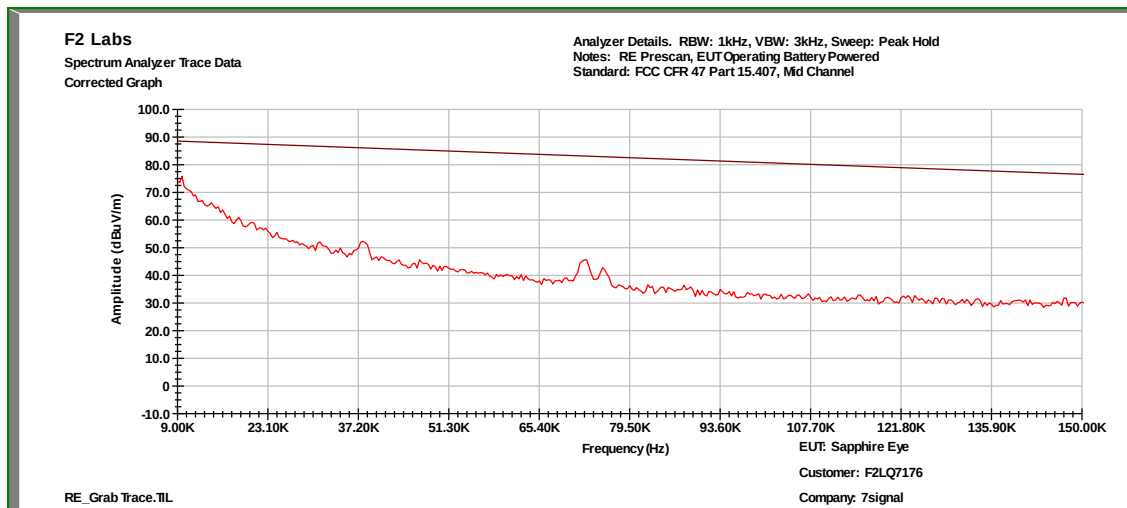
FCC ID: YLFSE2100WL

**5.25-5.35 Band, 20M UNII 2A:  
Low Channel: 26G to 40G, Horizontal**

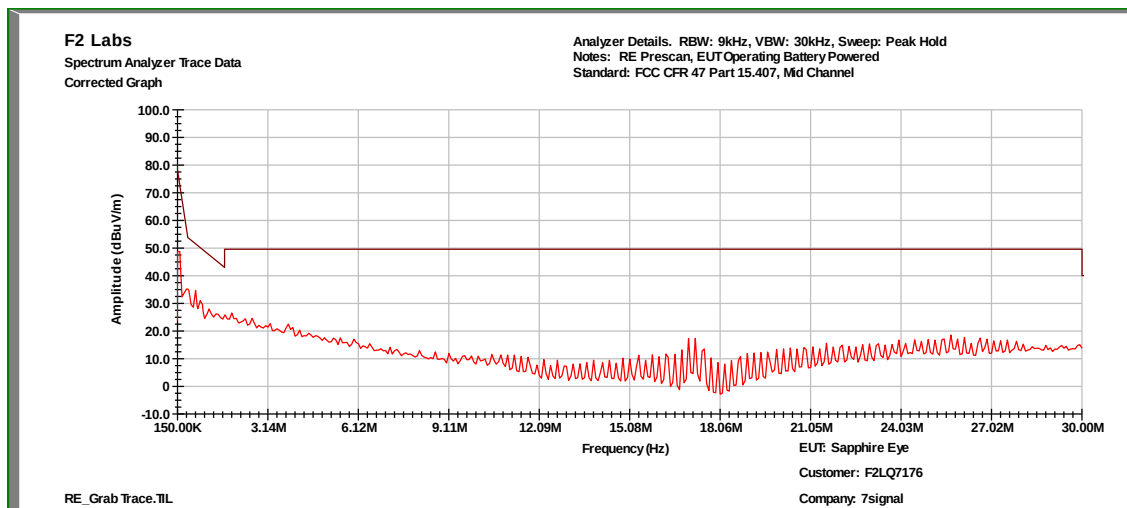




**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 9k to 150k**

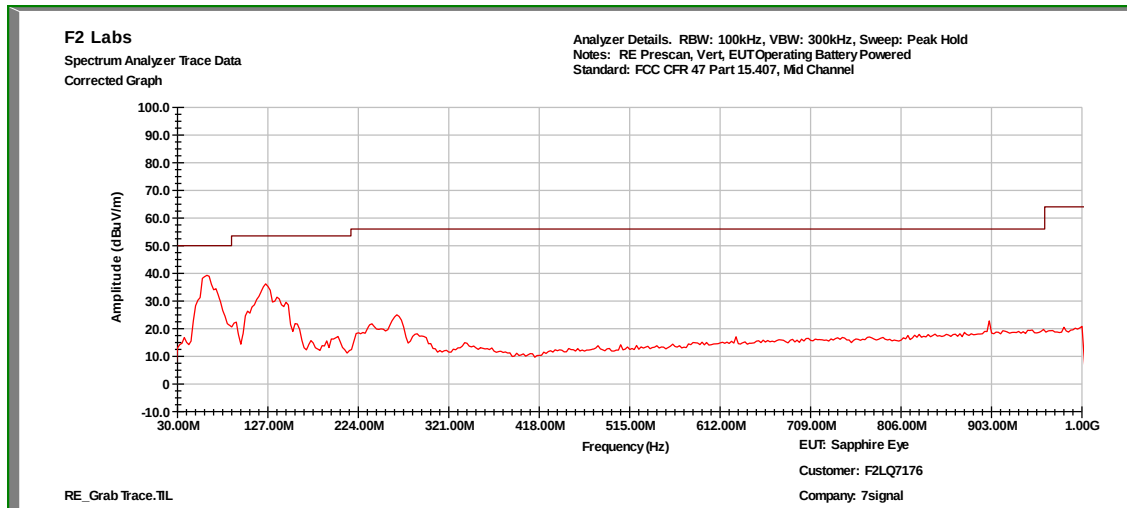


**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 150k to 30M**

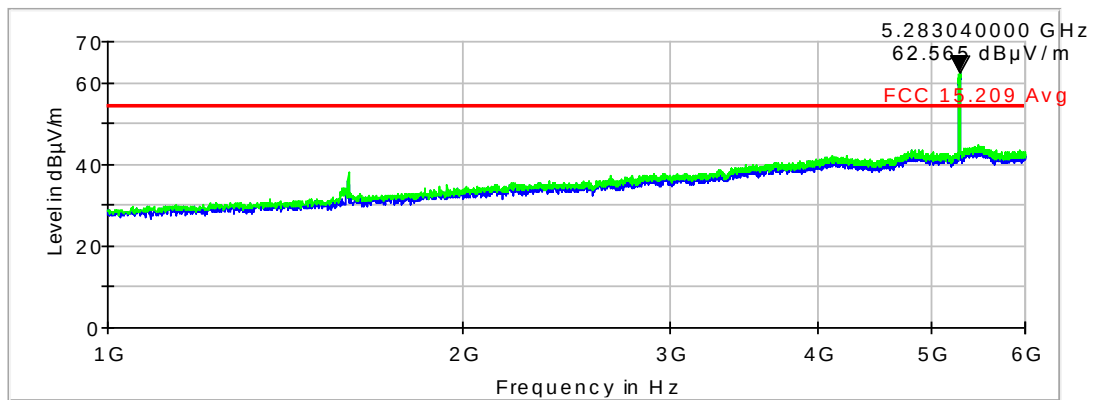




**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 30M to 1G, Vertical**

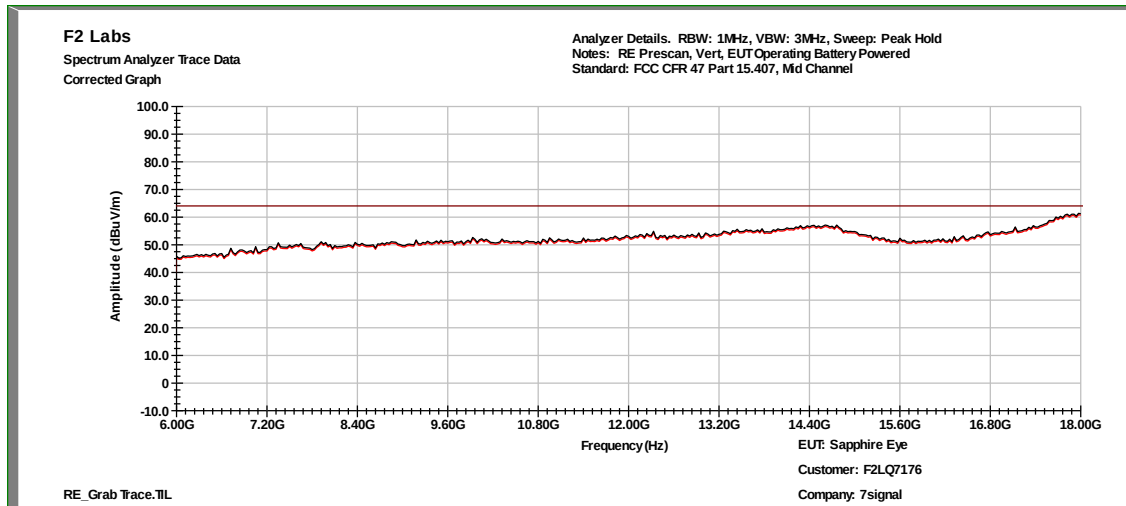


**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 1G to 6G, Vertical**

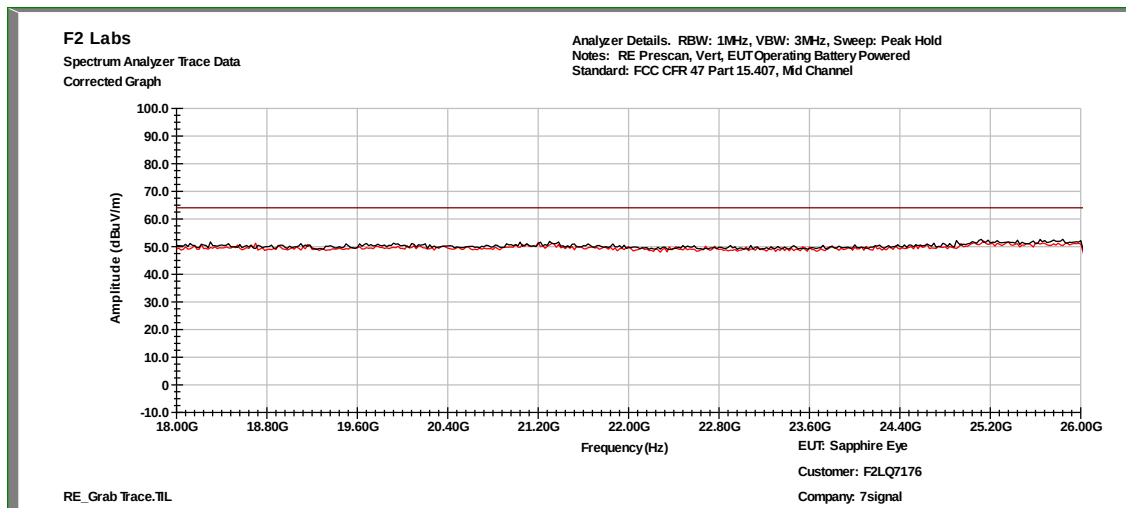




**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 6G to 18G, Vertical**



**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 18G to 26G, Vertical**



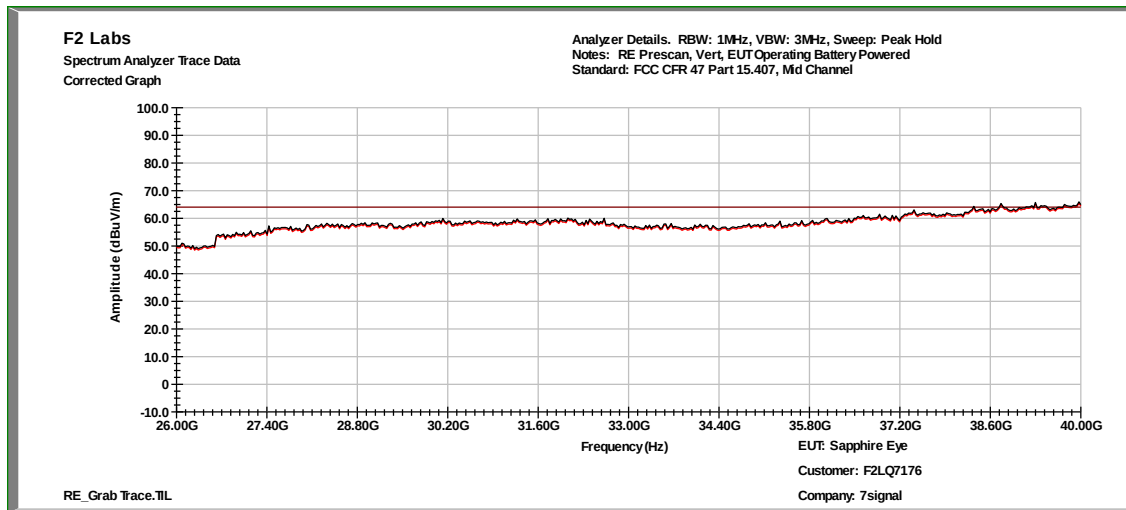


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

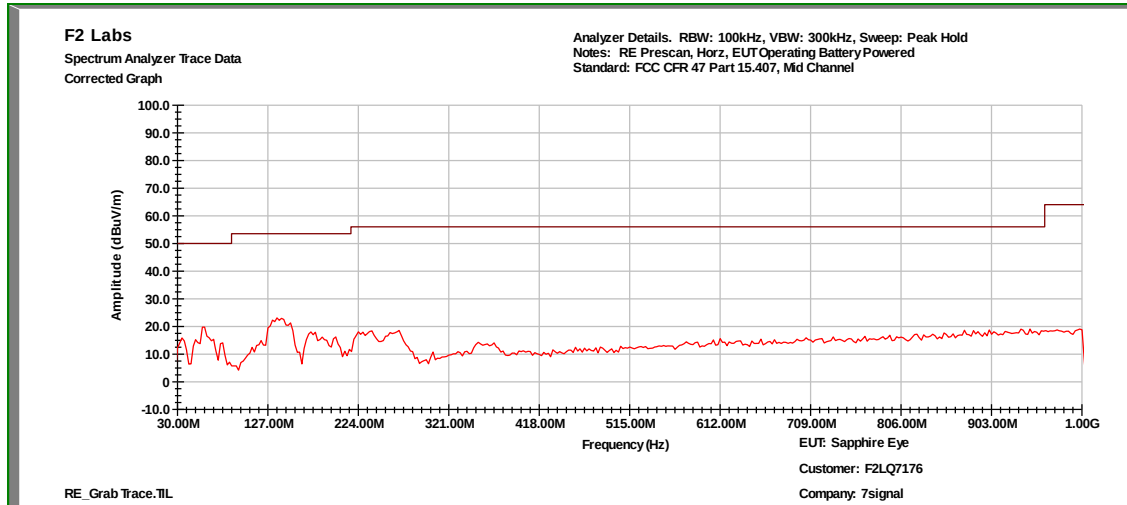
FCC ID: YLFSE2100WL

**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 26G to 40G, Vertical**

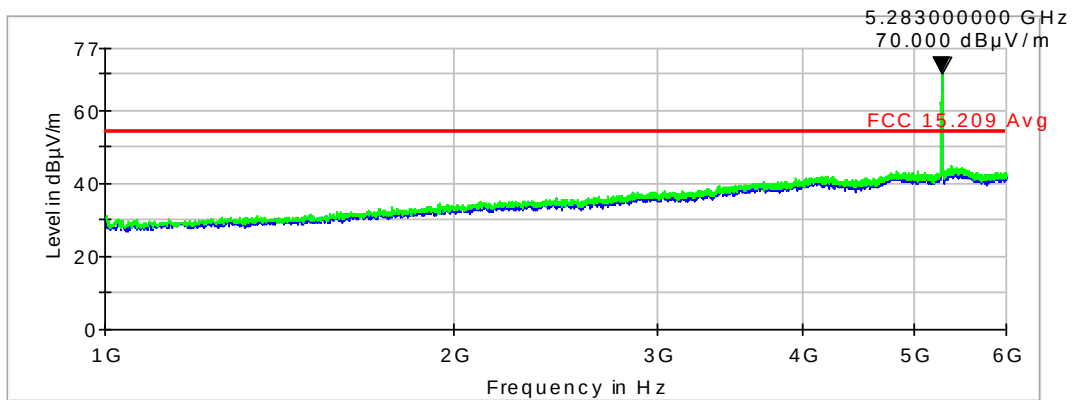




**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 30M to 1G, Horizontal**

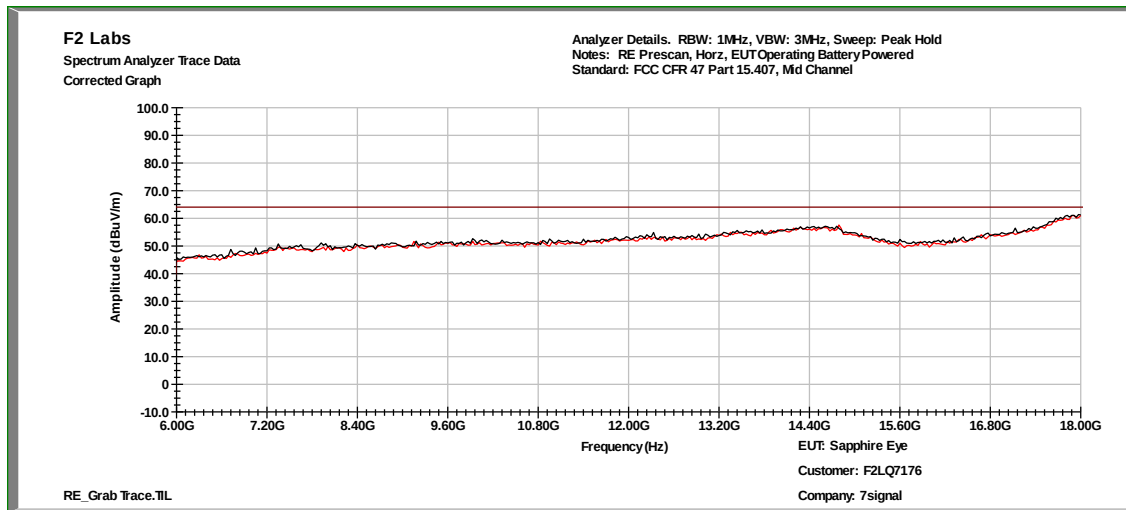


**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 1G to 6G, Horizontal**

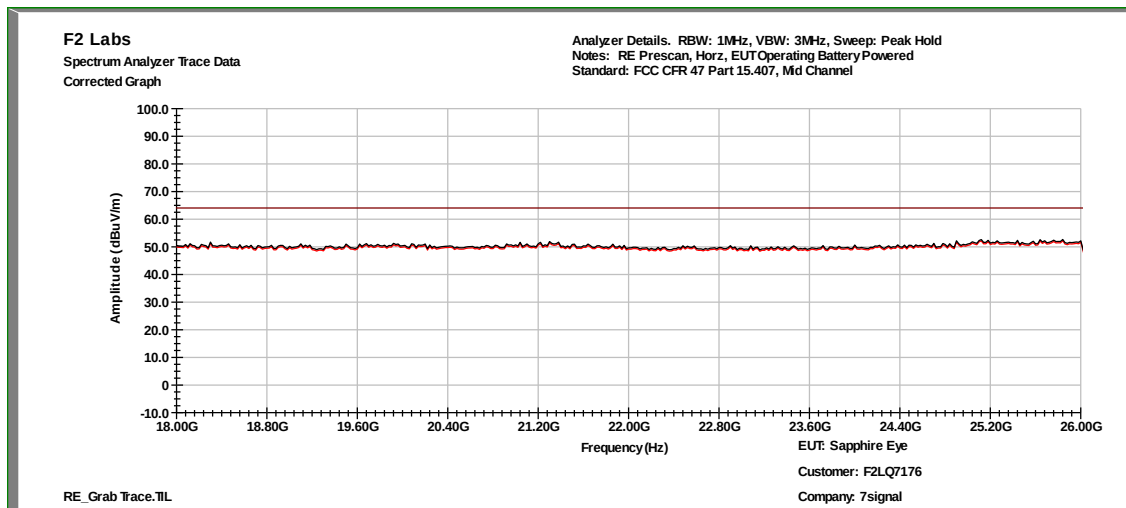




**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 6G to 18G, Horizontal**



**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 18G to 26G, Horizontal**



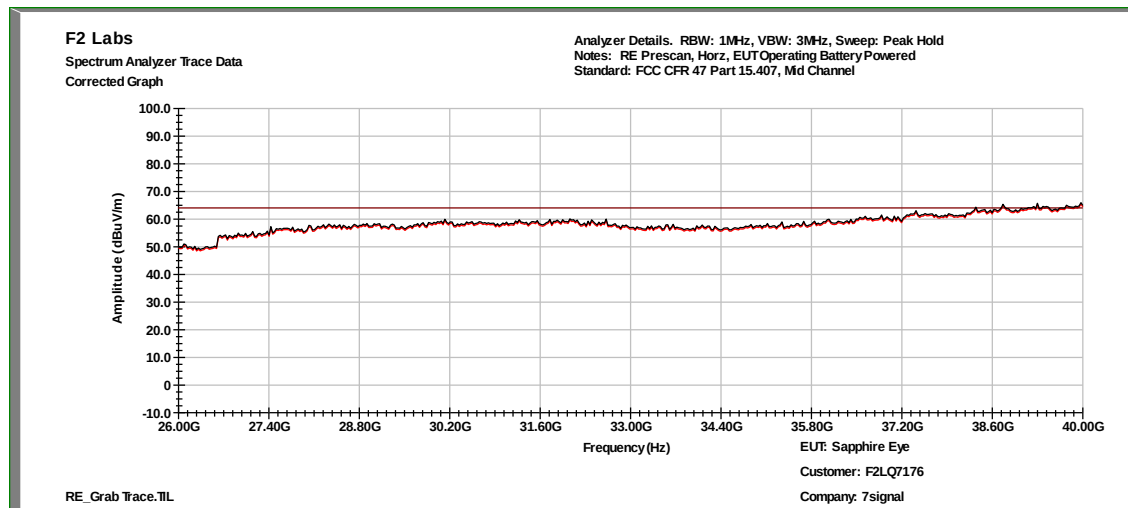


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

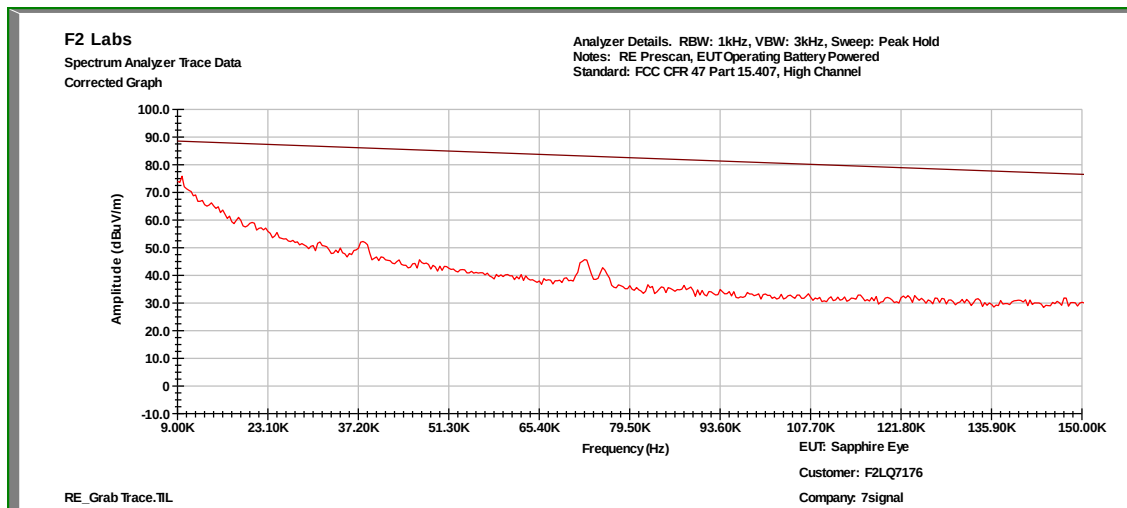
FCC ID: YLFSE2100WL

**5.25-5.35 Band, 20M UNII 2A:  
Mid Channel: 26G to 40G, Horizontal**

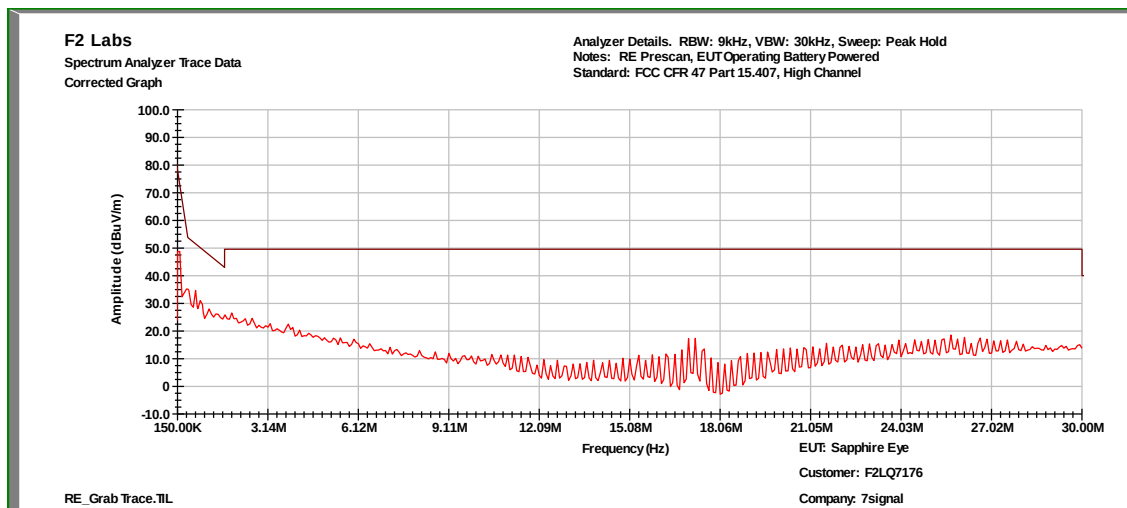




**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 9k to 150k**

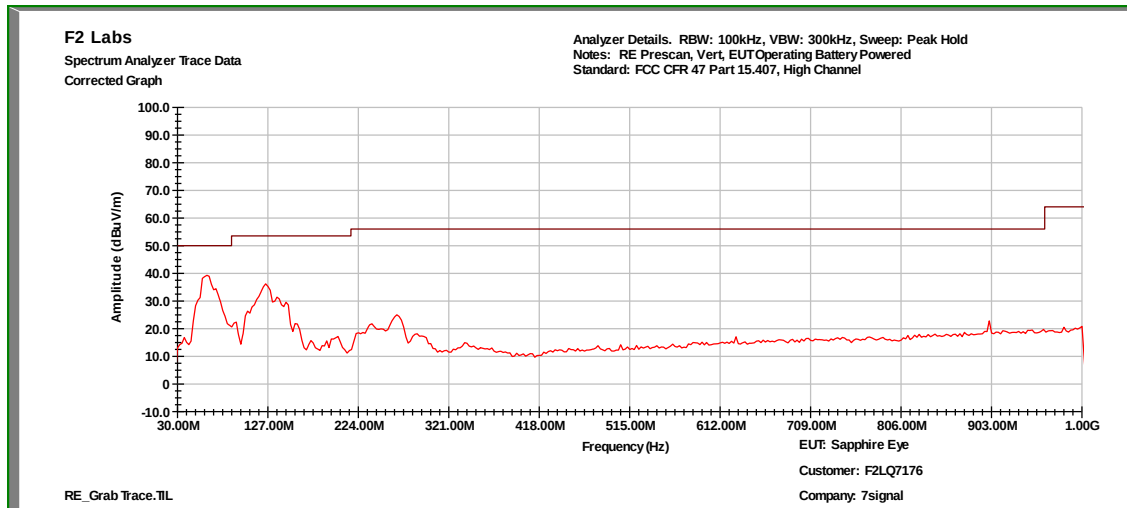


**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 150k to 30M**

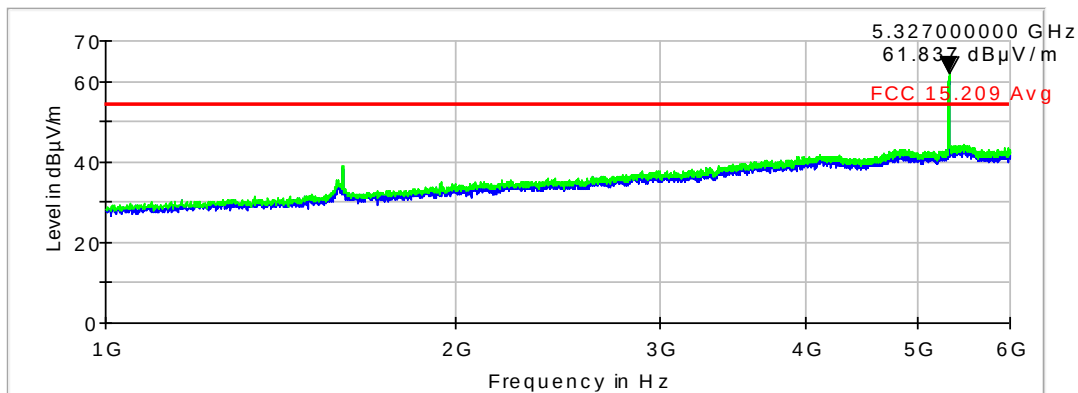




**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 30M to 1G, Vertical**

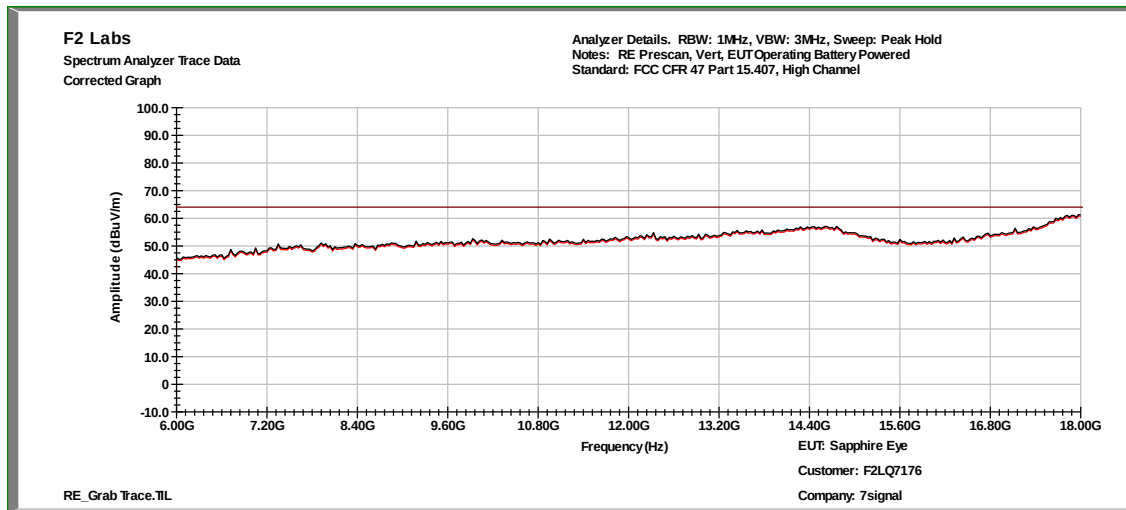


**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 1G to 6G, Vertical**

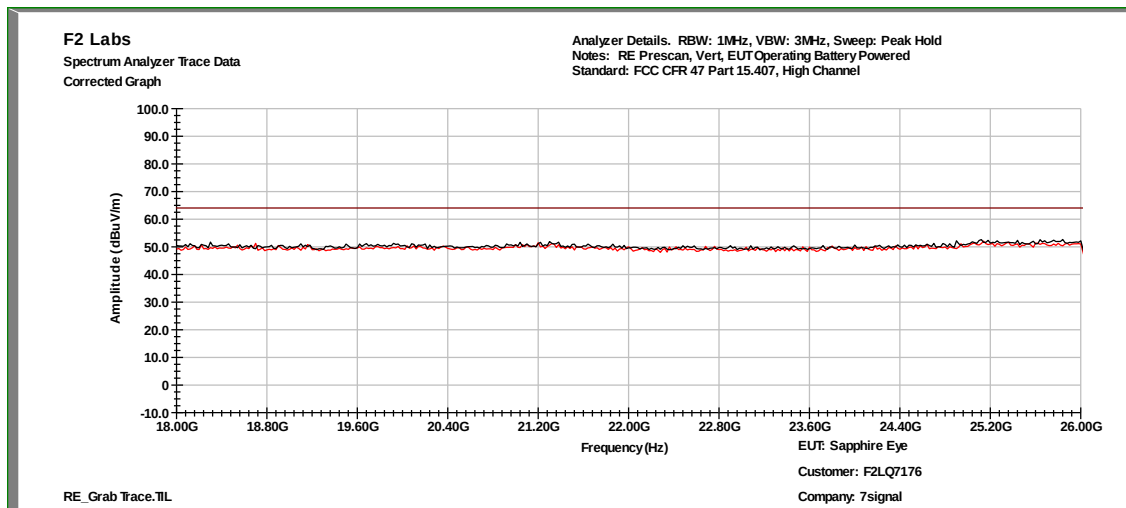




**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 6G to 18G, Vertical**



**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 18G to 26G, Vertical**



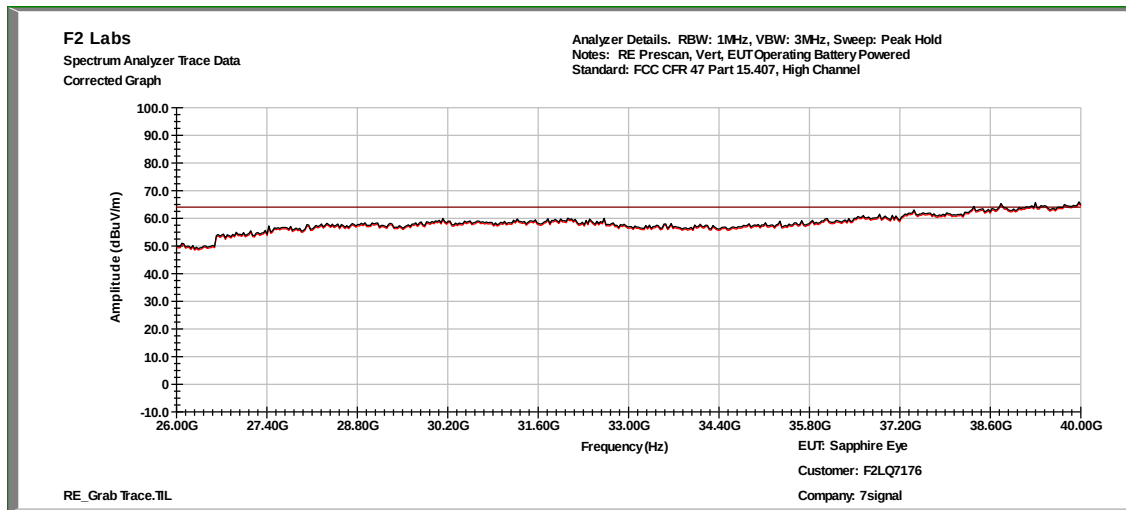


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

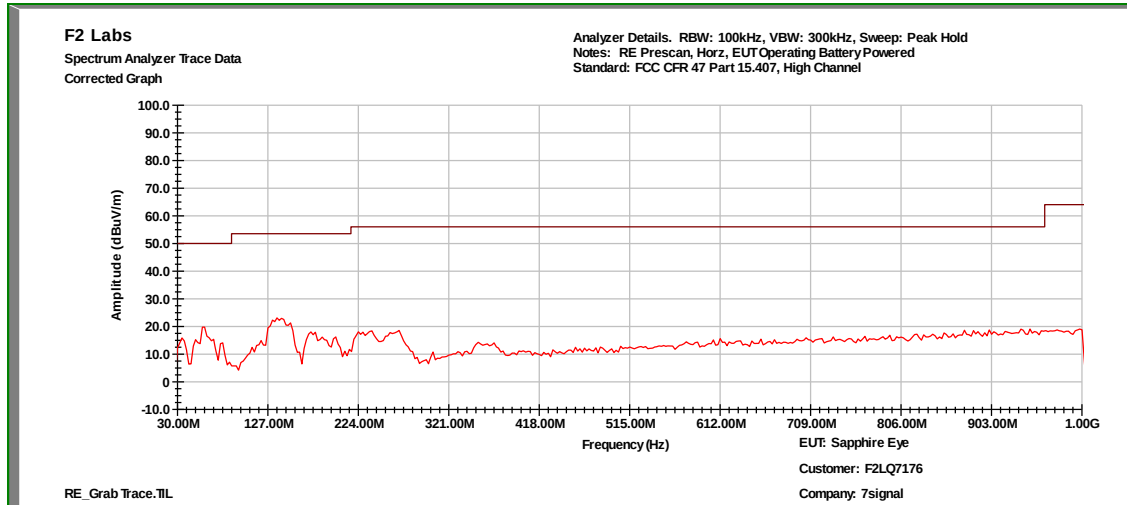
FCC ID: YLFSE2100WL

**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 26G to 40G, Vertical**

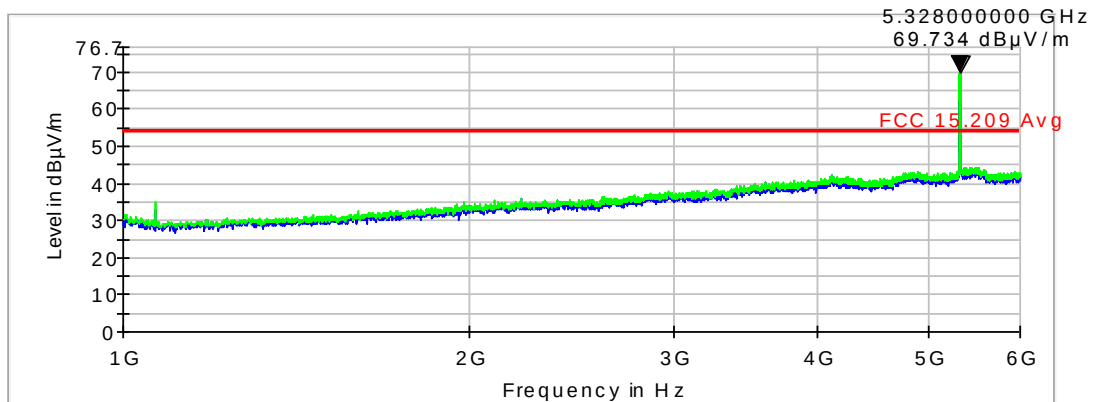




**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 30M to 1G, Horizontal**

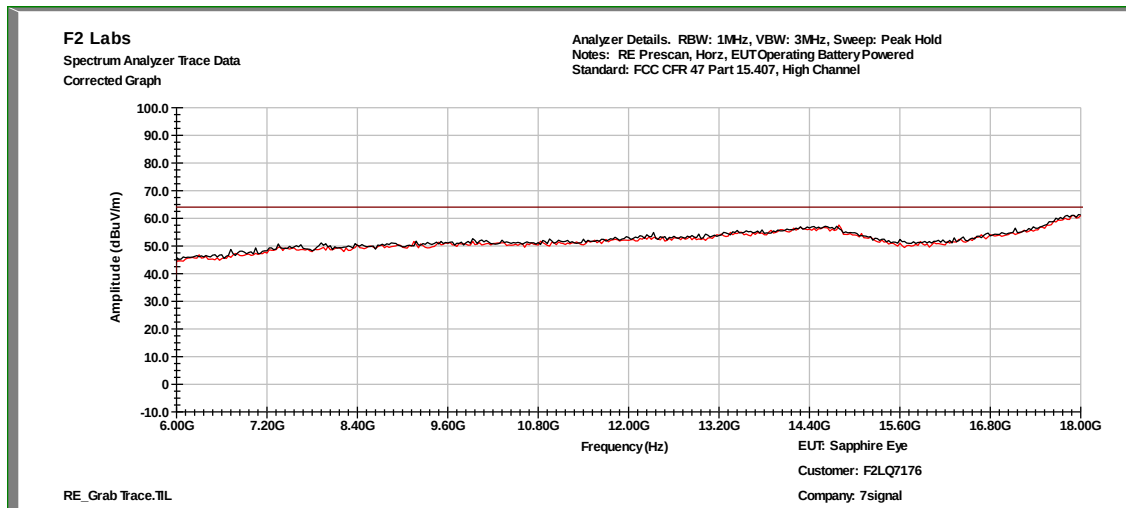


**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 1G to 6G, Horizontal**

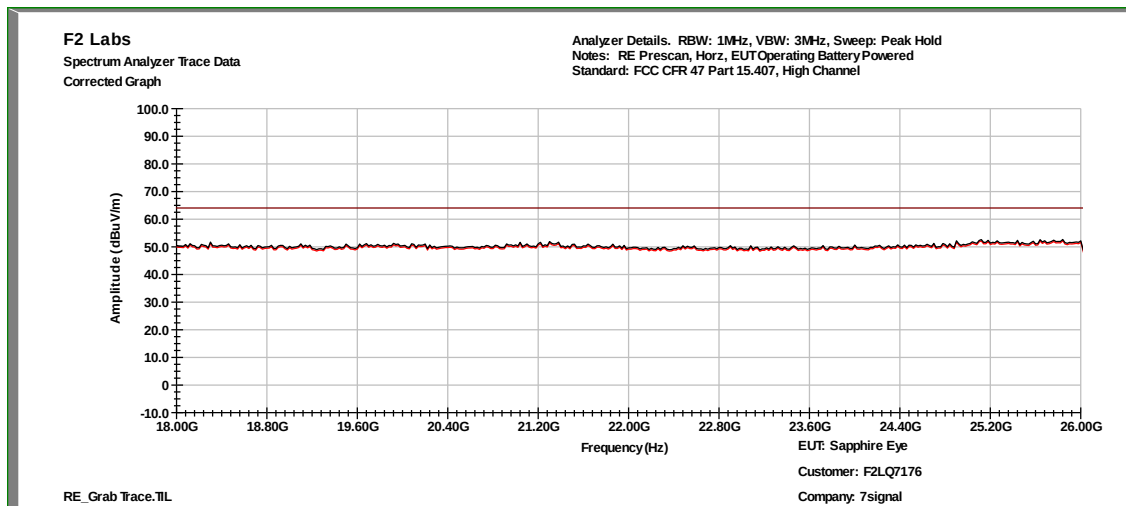




**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 6G to 18G, Horizontal**



**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 18G to 26G, Horizontal**



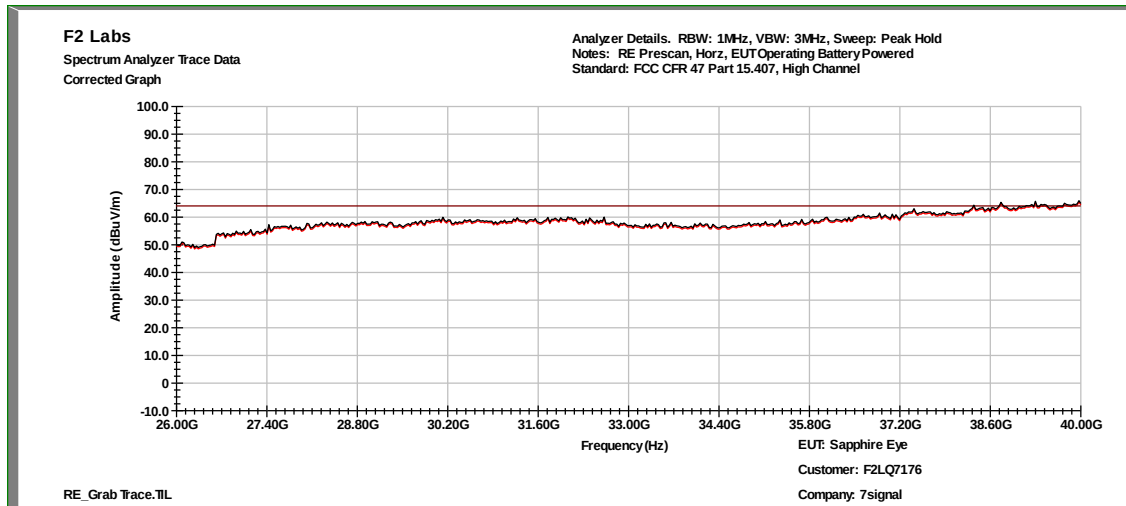


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

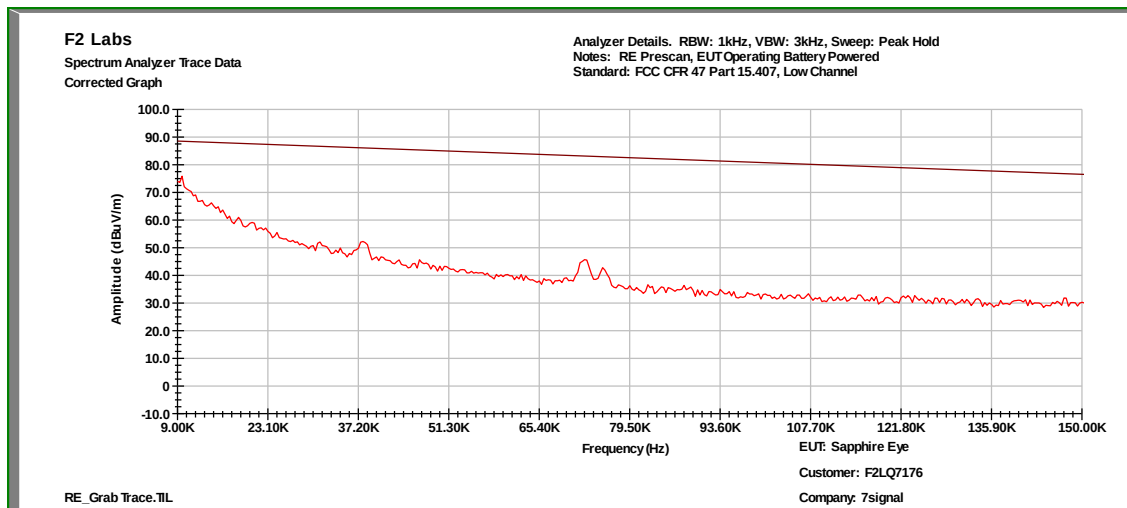
FCC ID: YLFSE2100WL

**5.25-5.35 Band, 20M UNII 2A:  
High Channel: 26G to 40G, Horizontal**

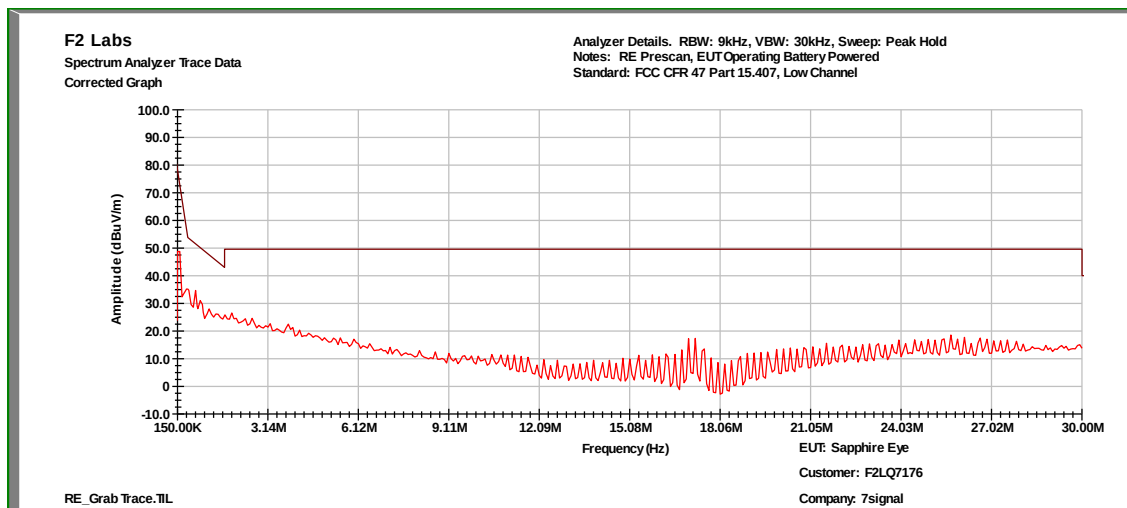




5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 9k to 150k

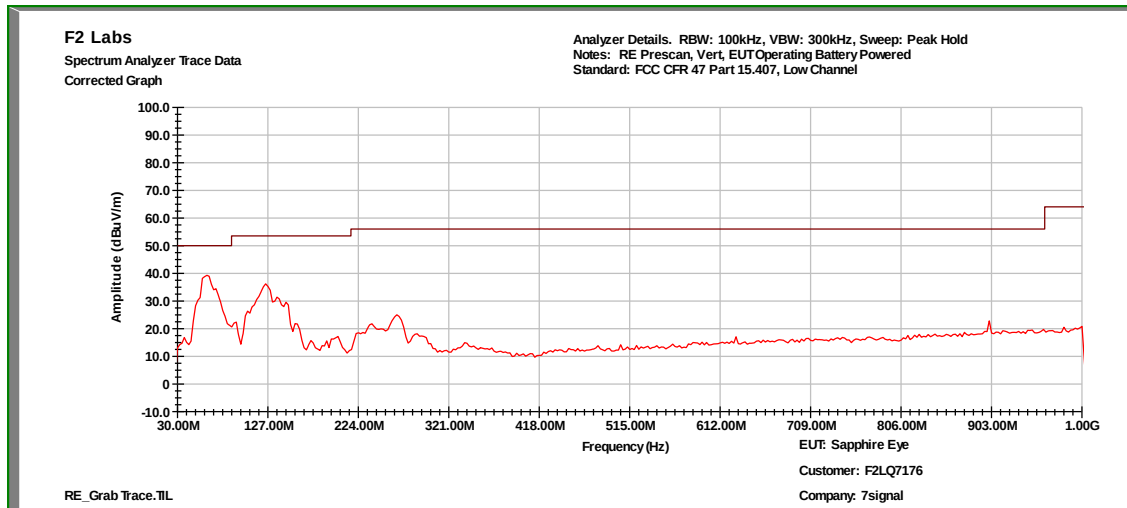


5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 150k to 30M

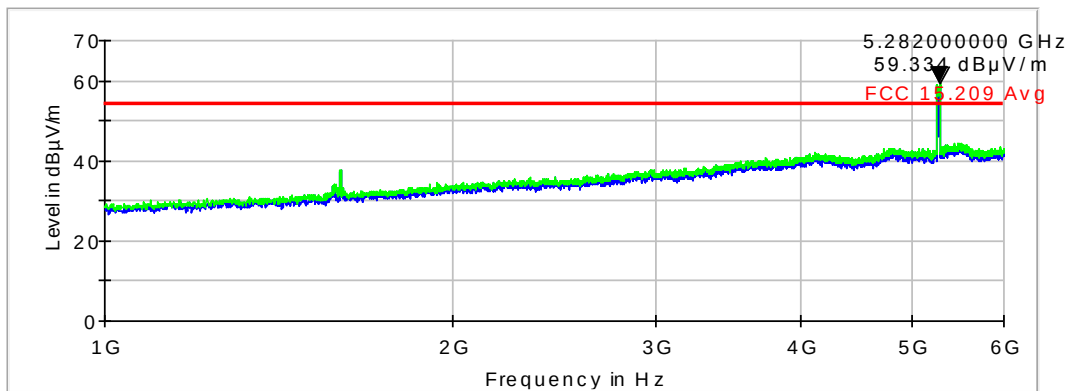




**5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 30M to 1G, Vertical**

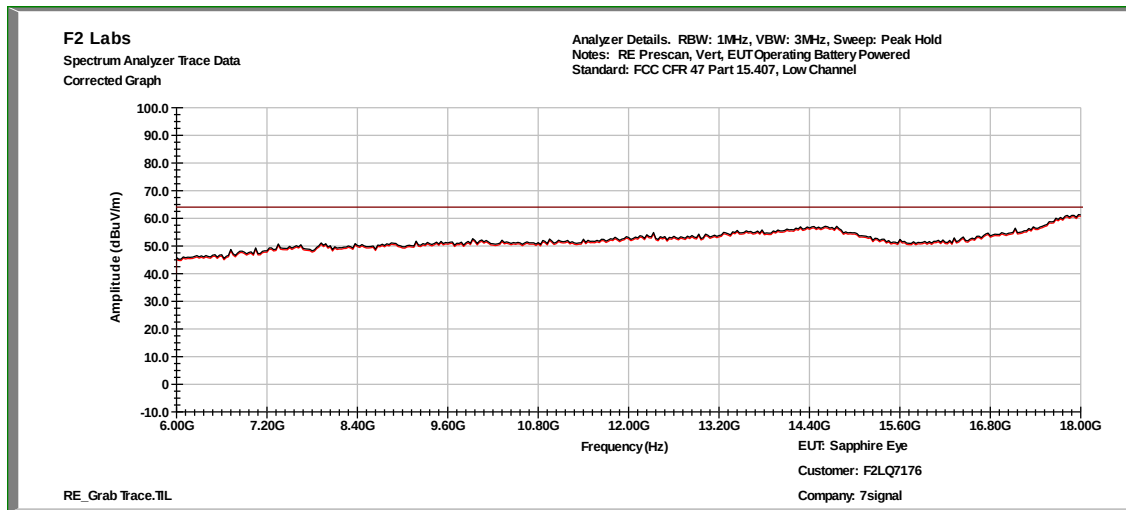


**5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 1G to 6G, Vertical**

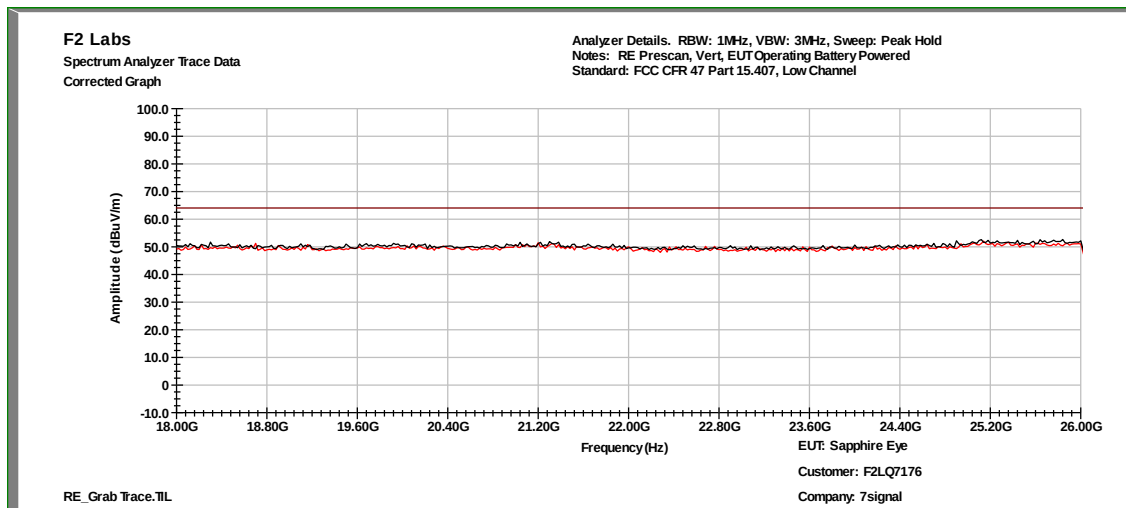




**5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 6G to 18G, Vertical**



**5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 18G to 26G, Vertical**



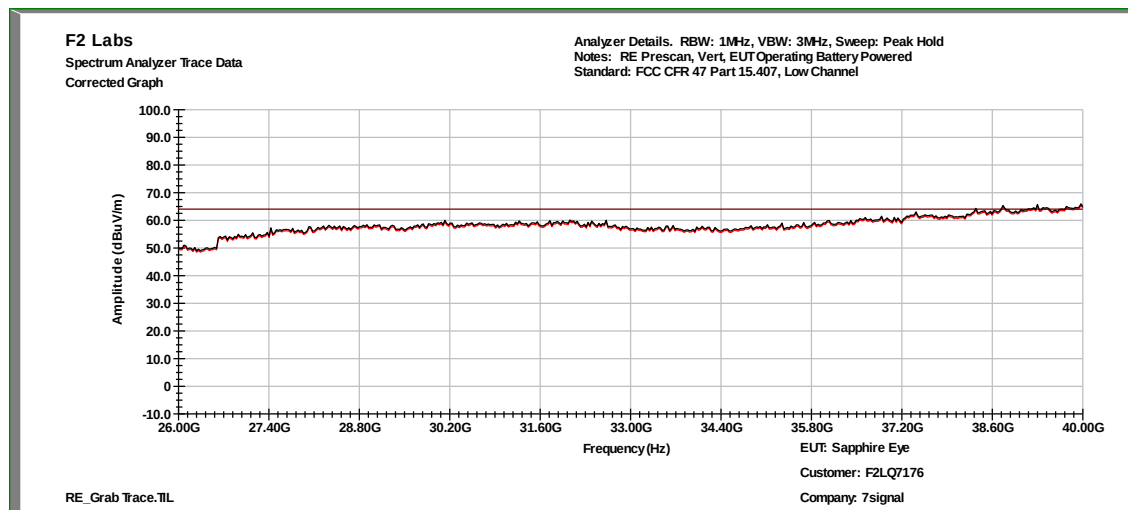


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

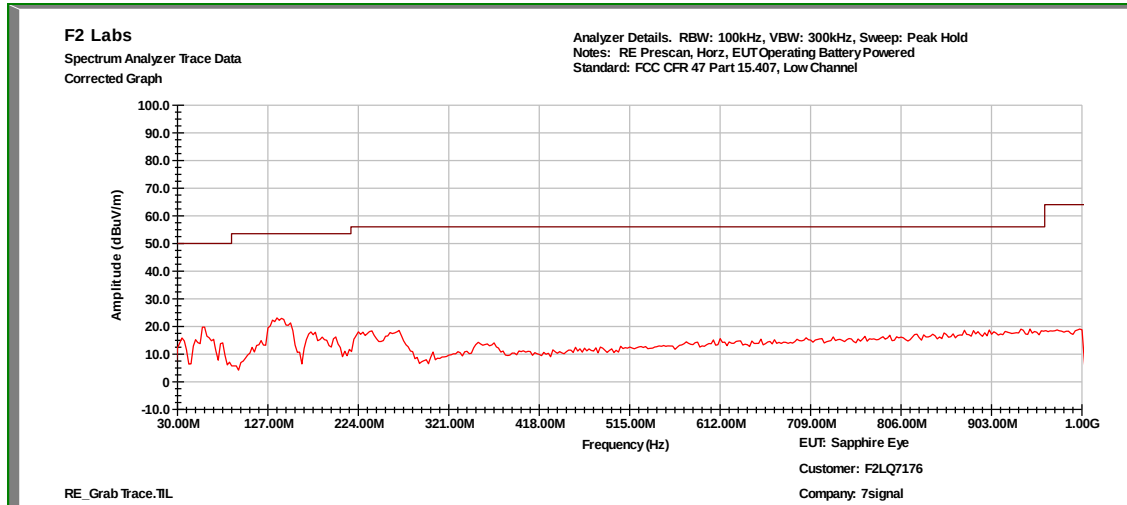
FCC ID: YLFSE2100WL

**5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 26G to 40G, Vertical**

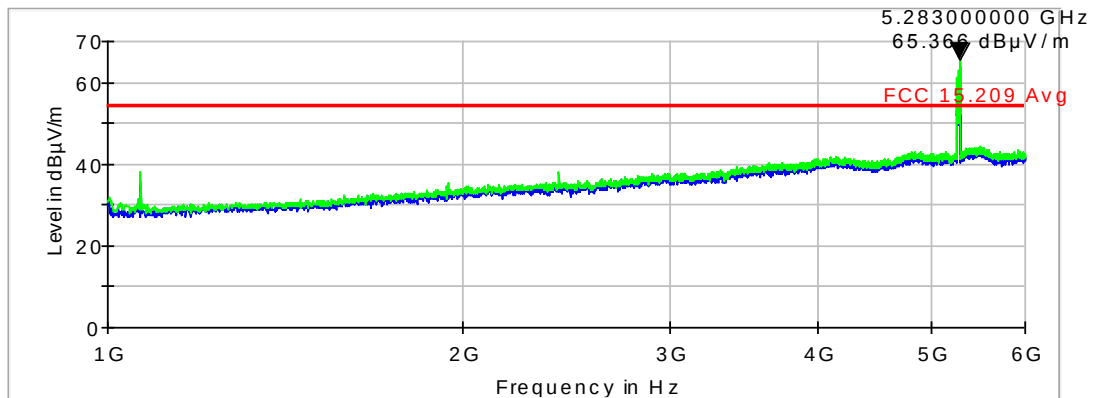




**5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 30M to 1G, Horizontal**

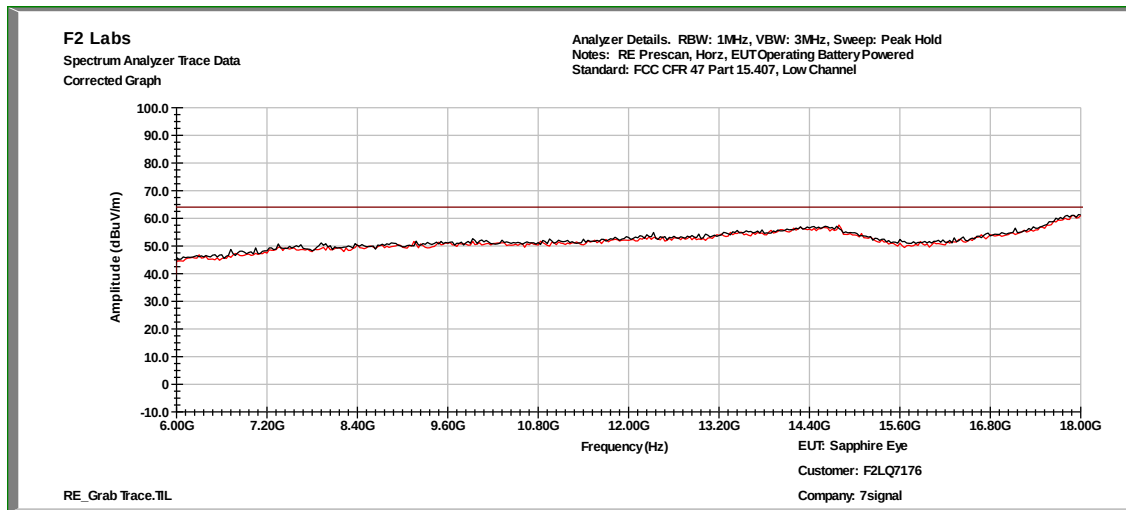


**5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 1G to 6G, Horizontal**

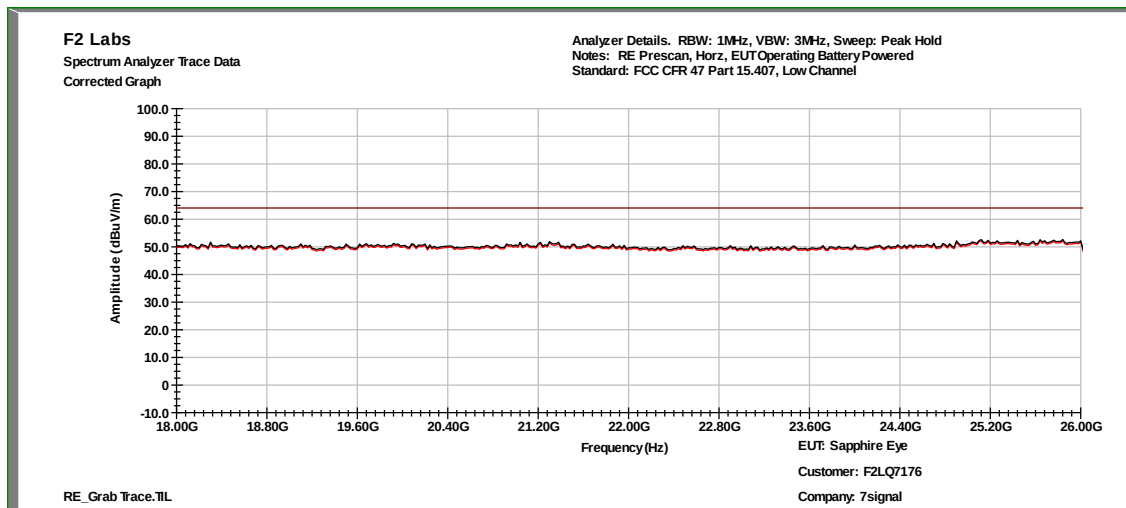




**5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 6G to 18G, Horizontal**



**5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 18G to 26G, Horizontal**



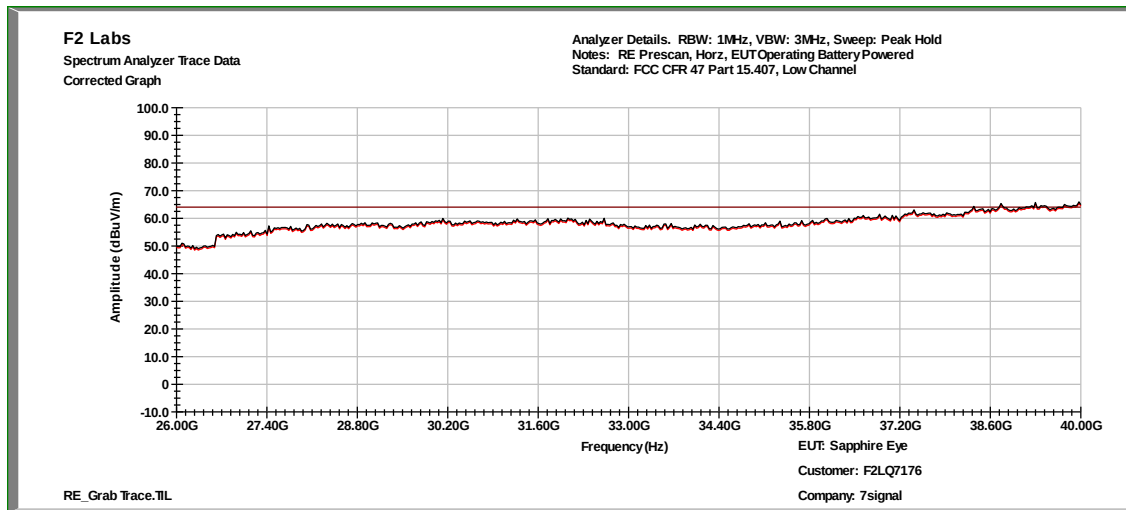


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

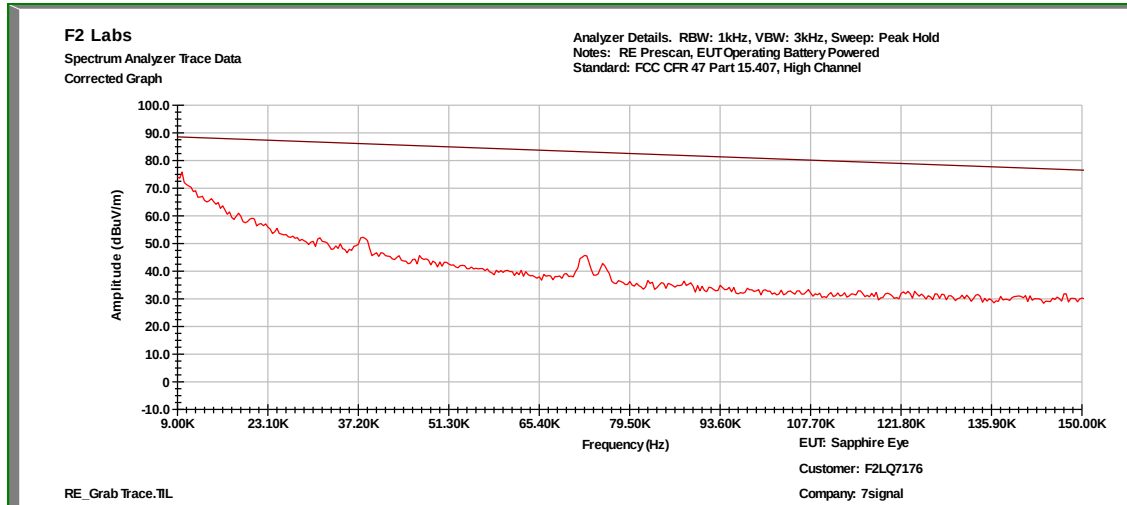
FCC ID: YLFSE2100WL

**5.25-5.35 Band, 40M UNII 2A:  
Low Channel: 26G to 40G, Horizontal**

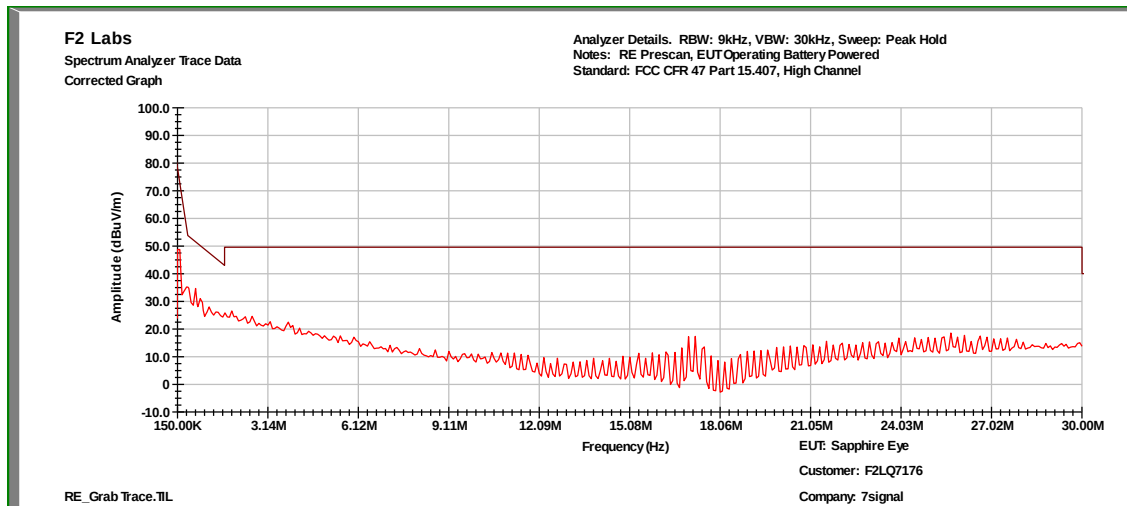




**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 9k to 150k**

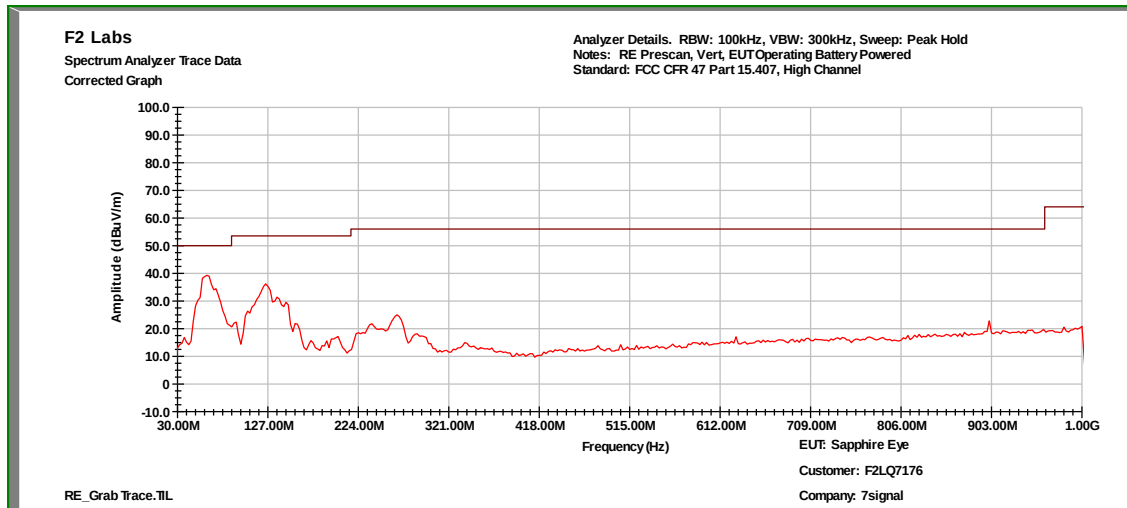


**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 150k to 30M**

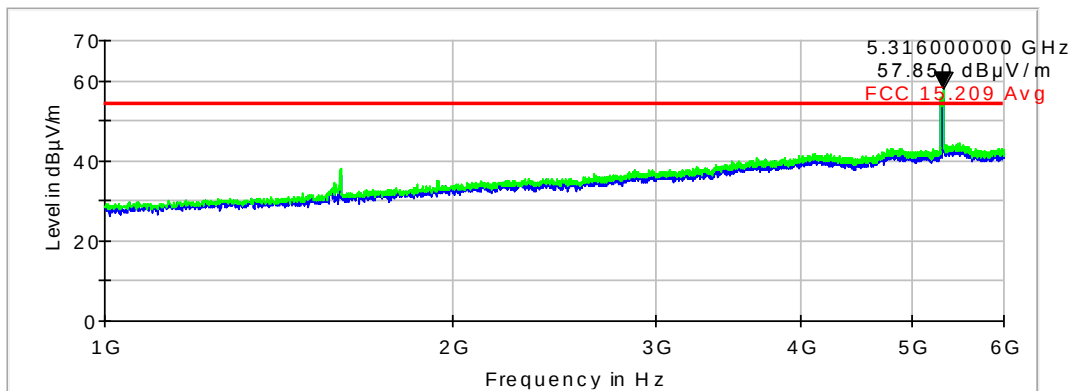




**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 30M to 1G, Vertical**

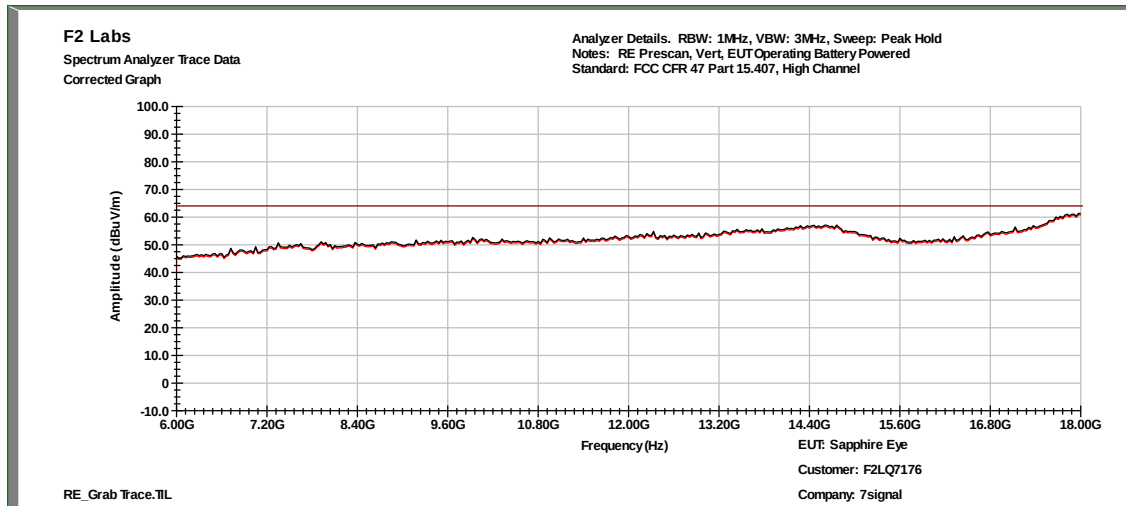


**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 1G to 63G, Vertical**

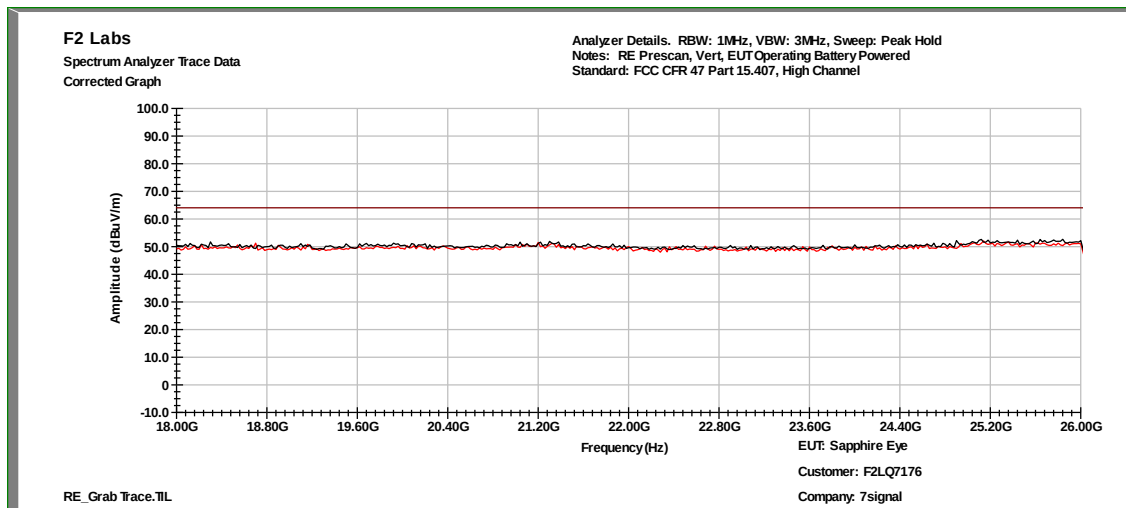




**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 6G to 18G, Vertical**



**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 18G to 26G, Vertical**



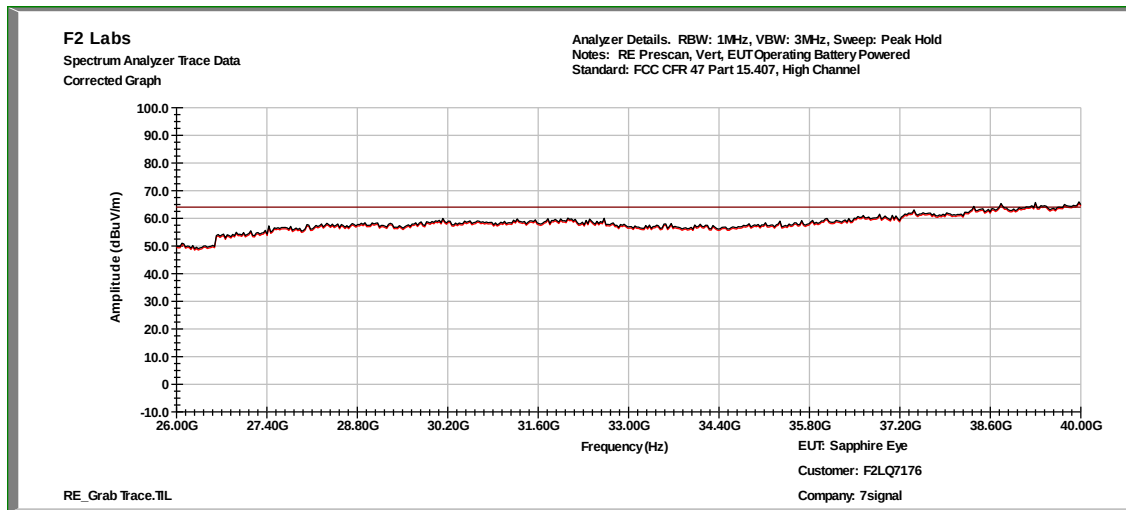


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

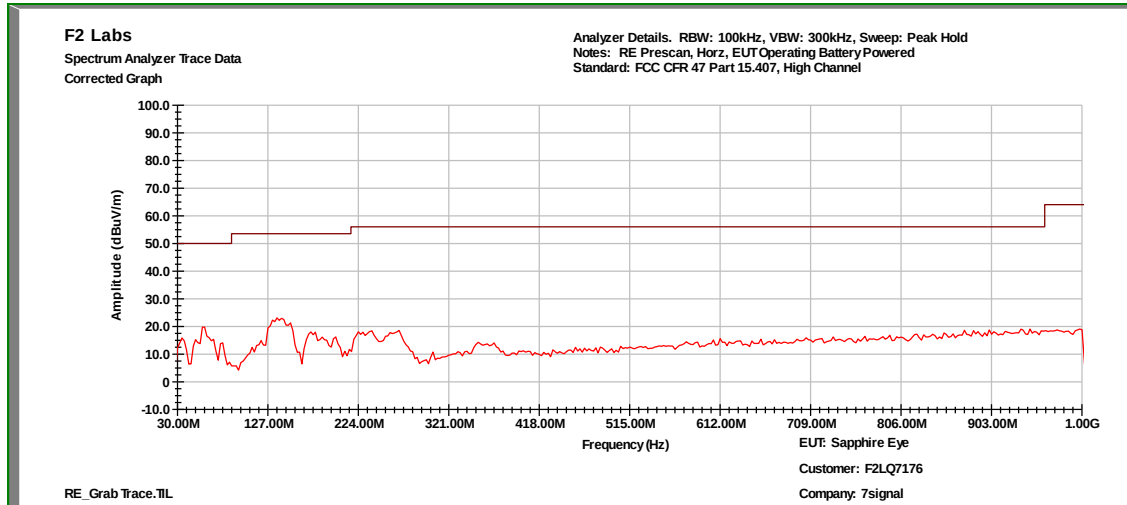
FCC ID: YLFSE2100WL

**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 26G to 40G, Vertical**

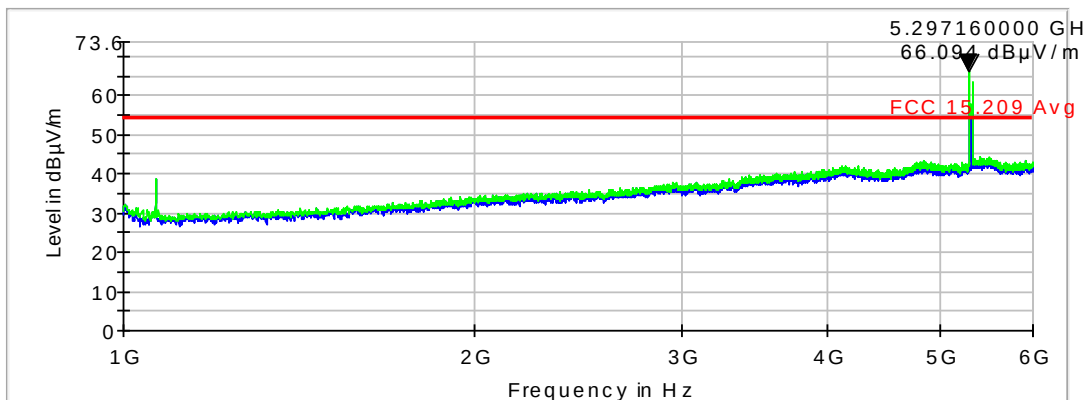




**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 30M to 1G, Horizontal**

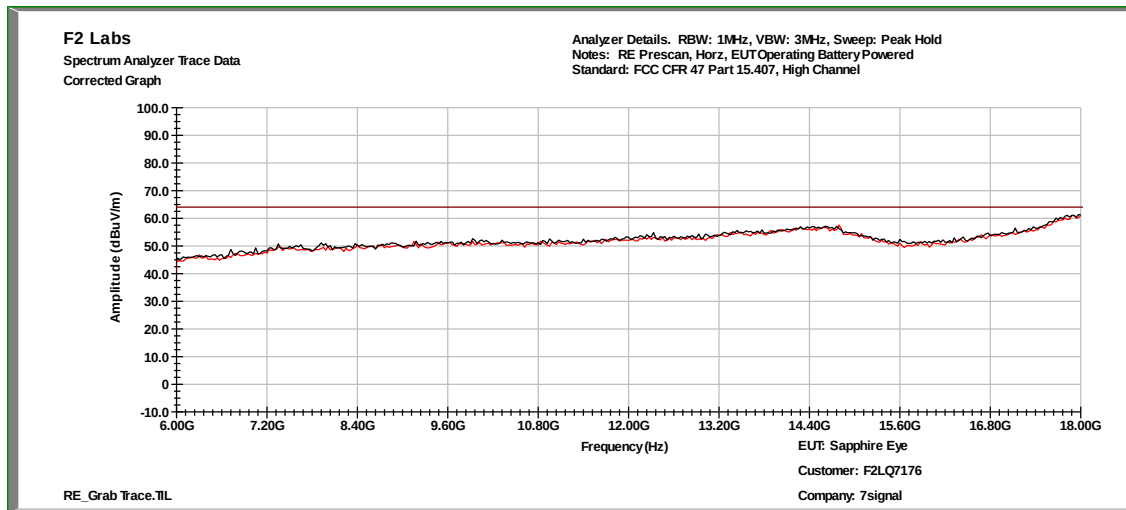


**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 1G to 6G, Horizontal**

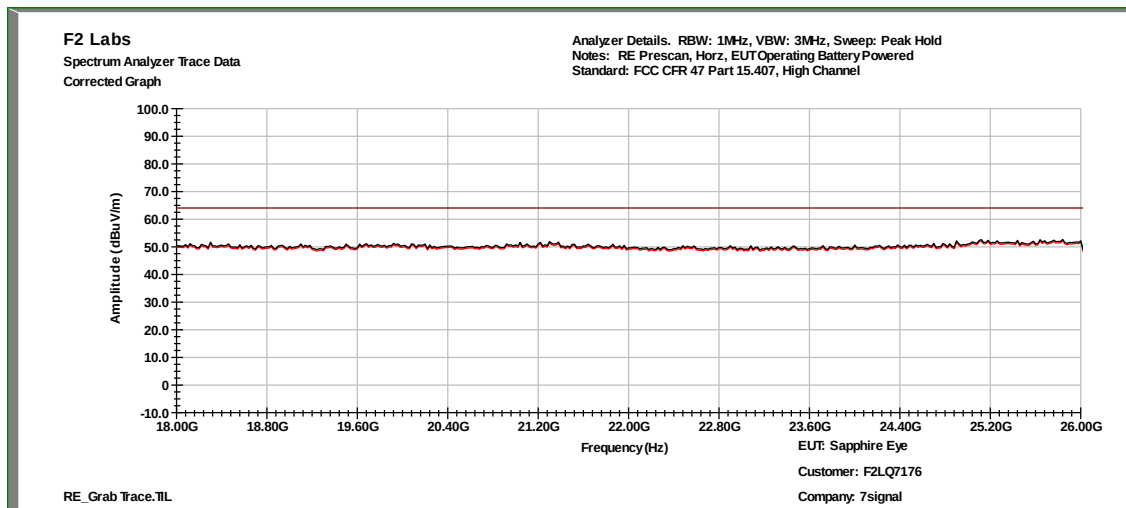




**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 6G to 18G, Horizontal**



**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 18G to 26G, Horizontal**



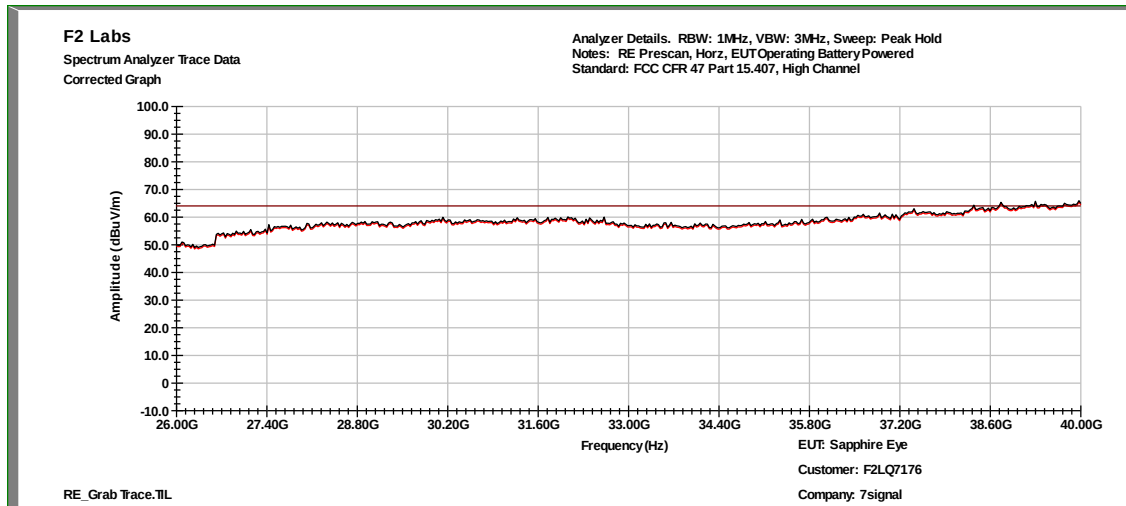


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

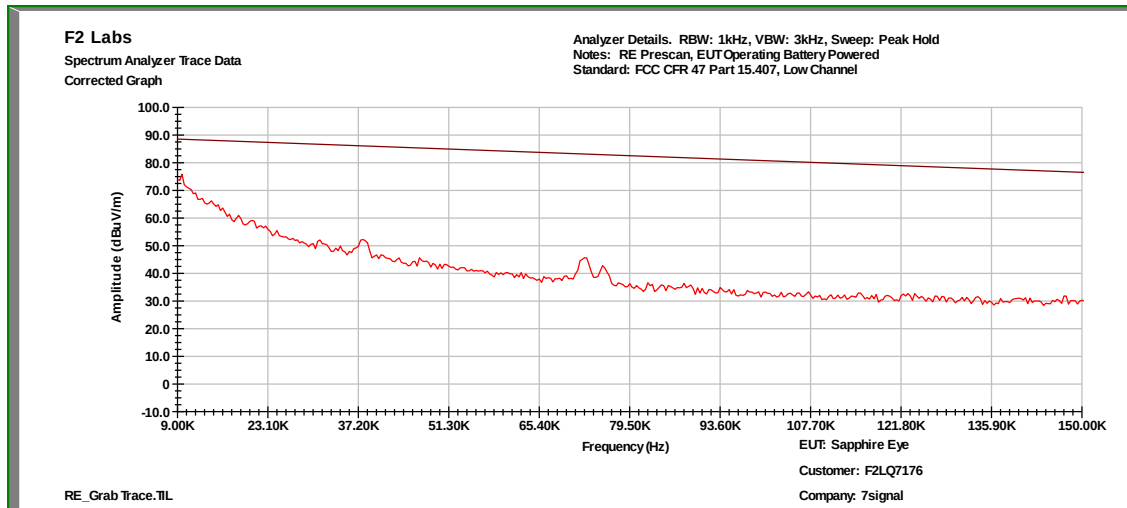
FCC ID: YLFSE2100WL

**5.25-5.35 Band, 40M UNII 2A:  
High Channel: 26G to 40G, Horizontal**

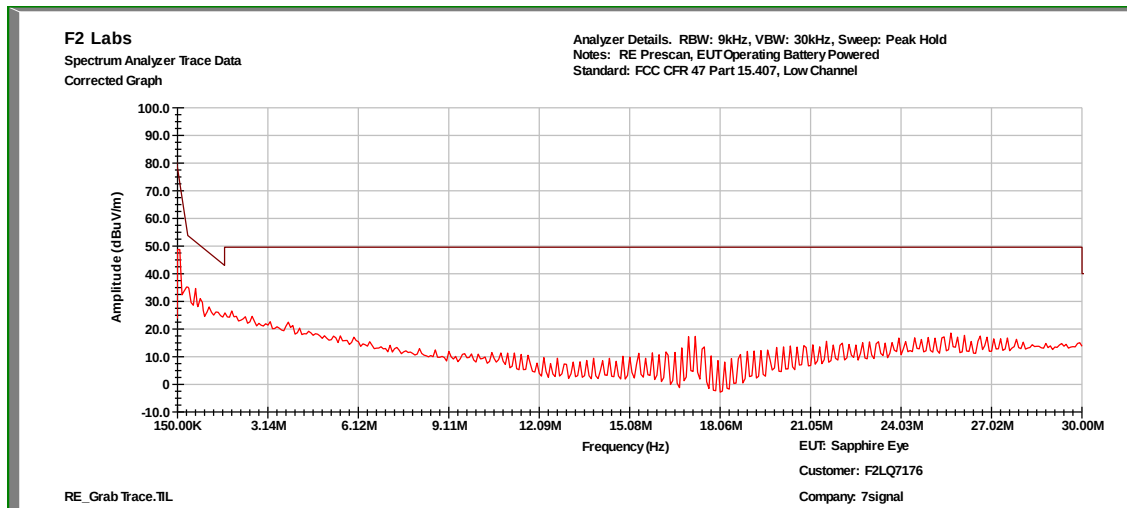




5.25-5.35 Band, 80M UNII 2C:  
9k to 150k

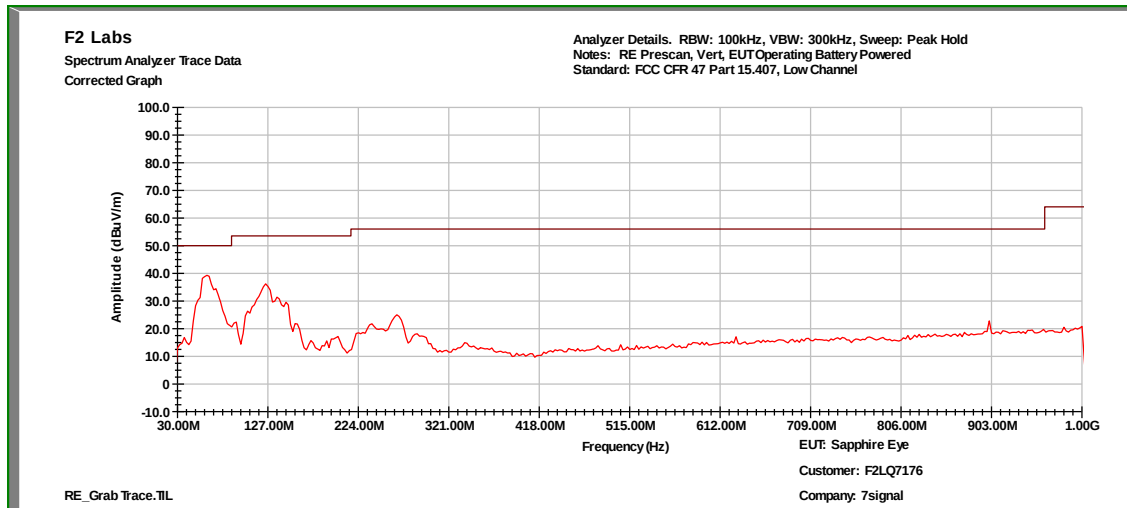


5.25-5.35 Band, 80M UNII 2C:  
150k to 30M

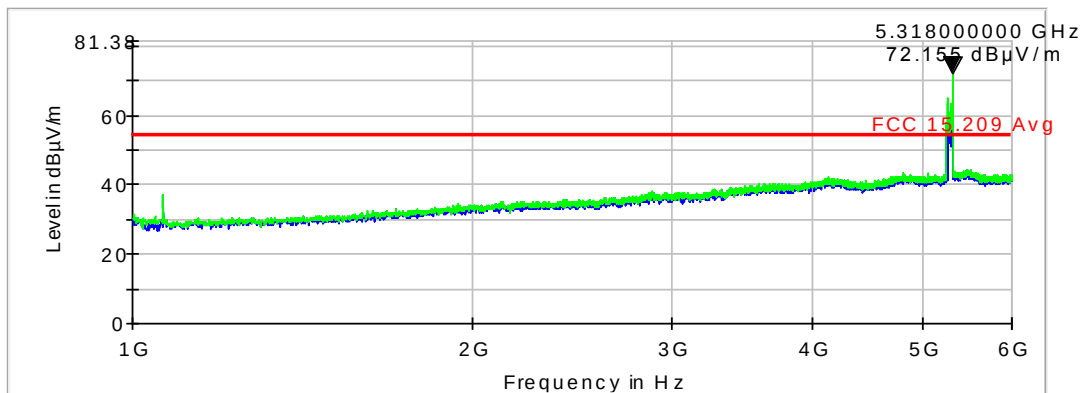




5.25-5.35 Band, 80M UNII 2C:  
30M to 1G, Vertical

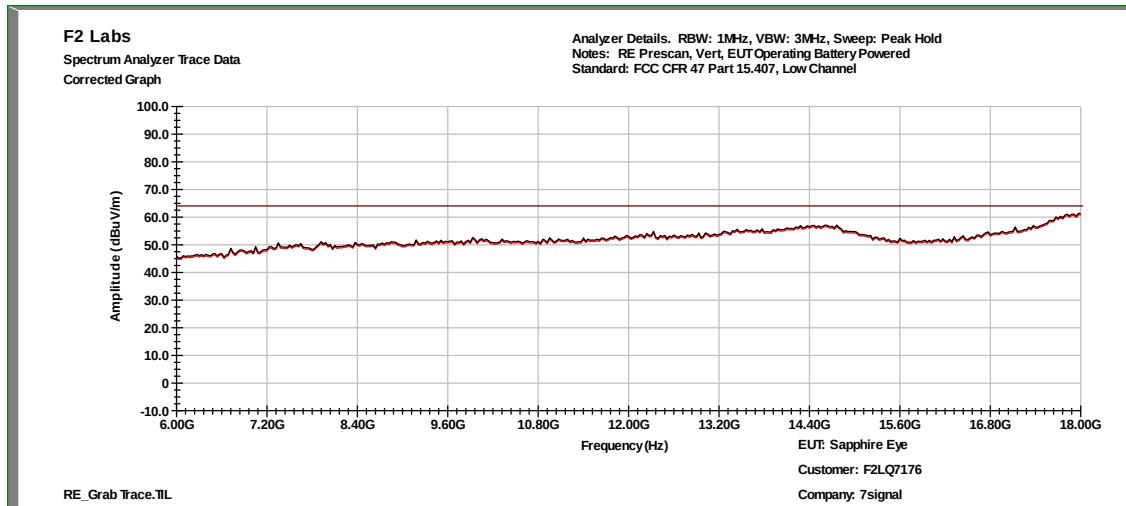


5.25-5.35 Band, 80M UNII 2C:  
1G to 6G, Vertical

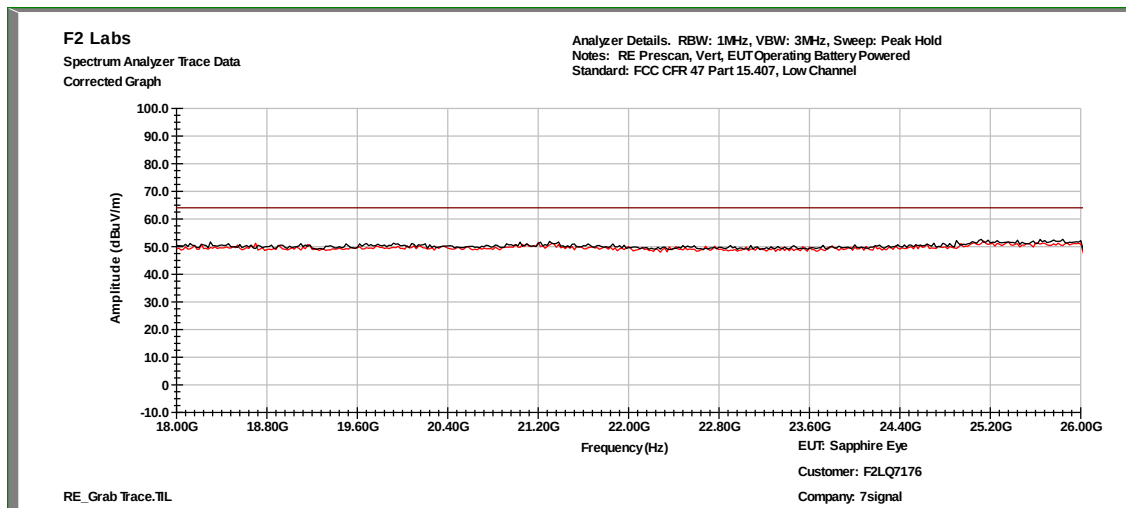




5.25-5.35 Band, 80M UNII 2C:  
6G to 18G, Vertical



5.25-5.35 Band, 80M UNII 2C:  
18G to 26G, Vertical



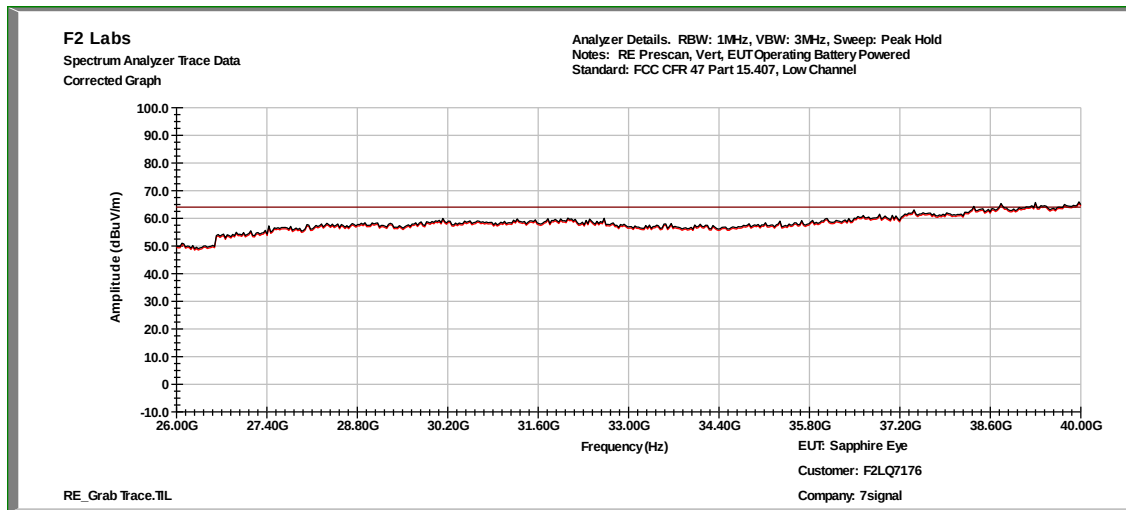


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

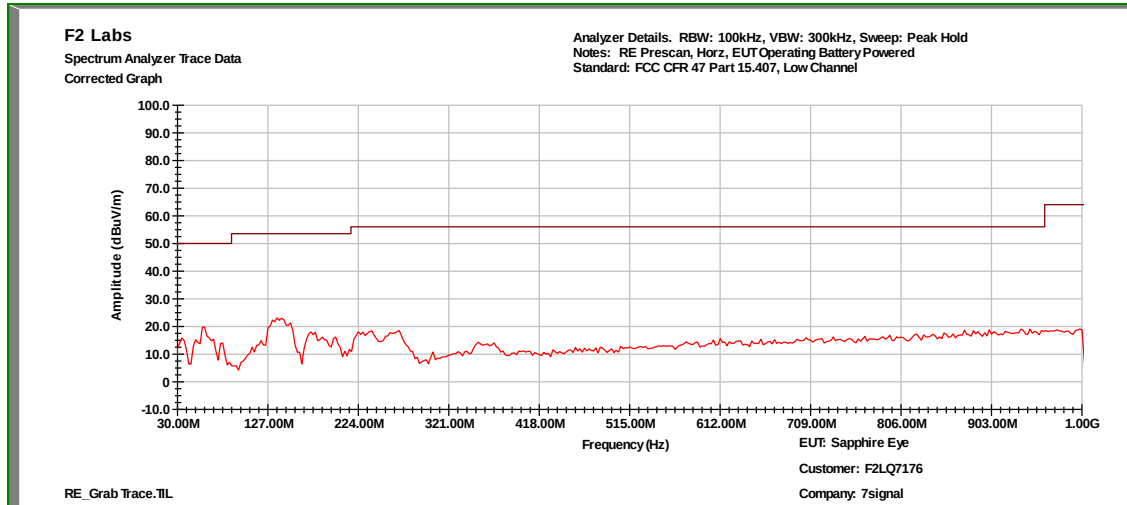
FCC ID: YLFSE2100WL

5.25-5.35 Band, 80M UNII 2C:  
26G to 40G, Vertical

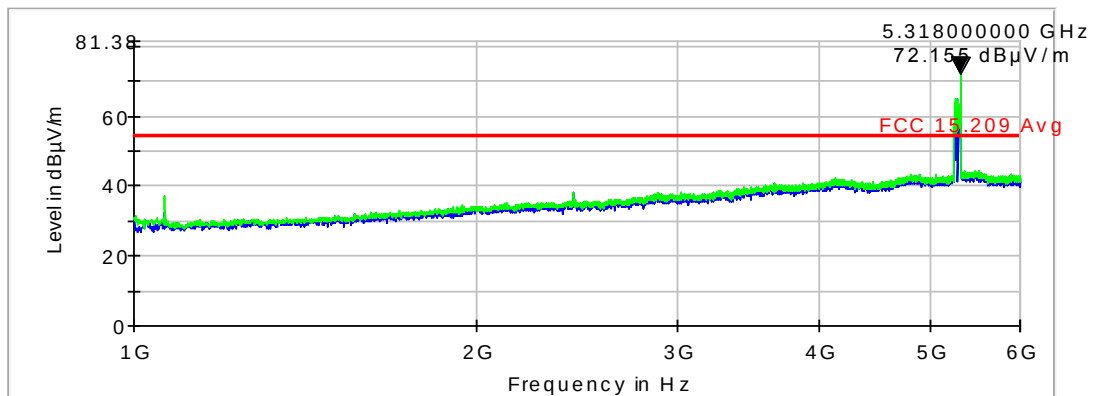




**5.25-5.35 Band, 80M UNII 2C:  
Low Channel: 30M to 1G, Horizontal**

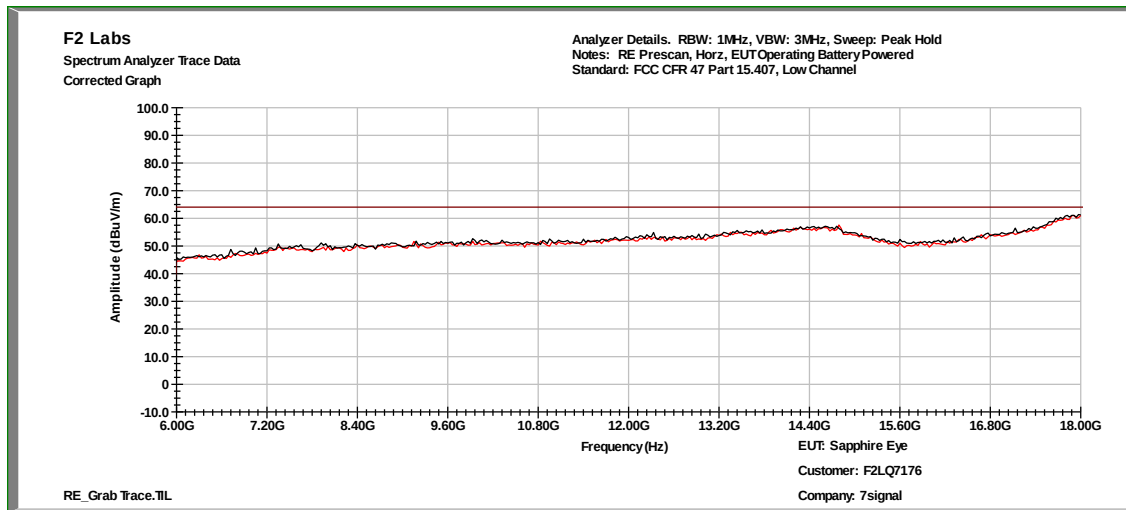


**5.25-5.35 Band, 80M UNII 2C:  
Low Channel: 1G to 6G, Horizontal**

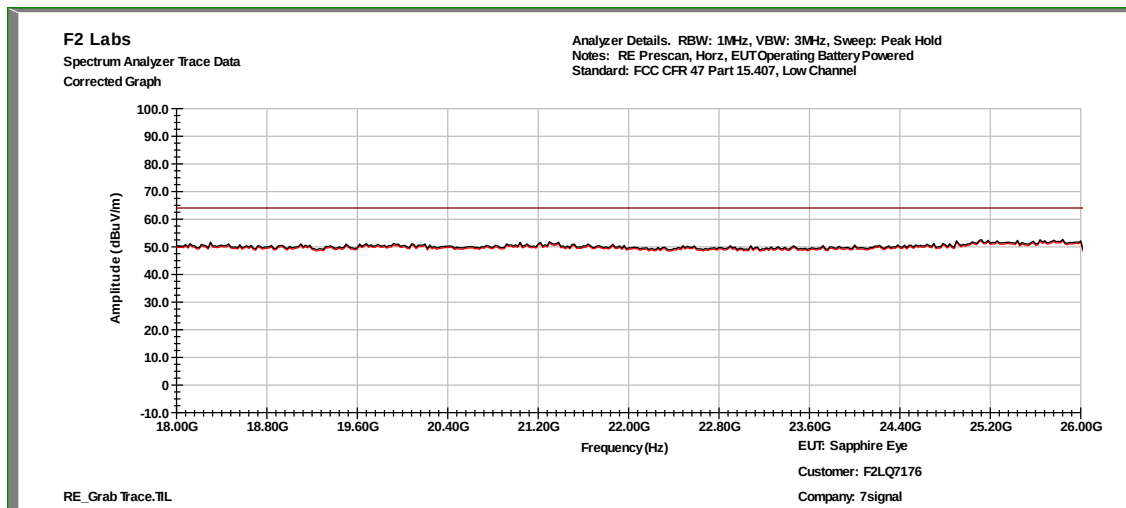




**5.25-5.35 Band, 80M UNII 2C:**  
**Low Channel: 6G to 18G, Horizontal**



**5.25-5.35 Band, 80M UNII 2C:**  
**Low Channel: 18G to 26G, Horizontal**



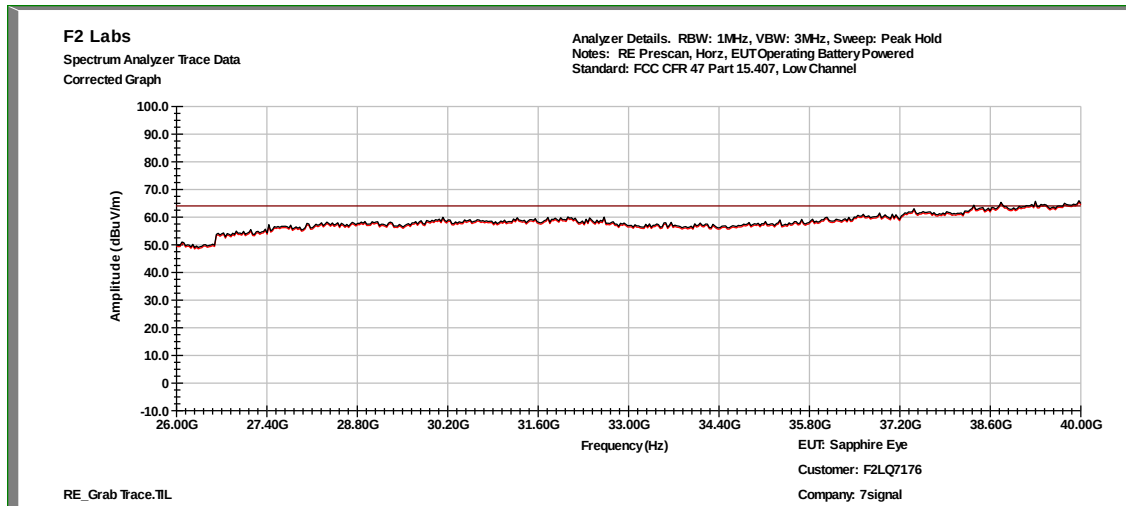


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

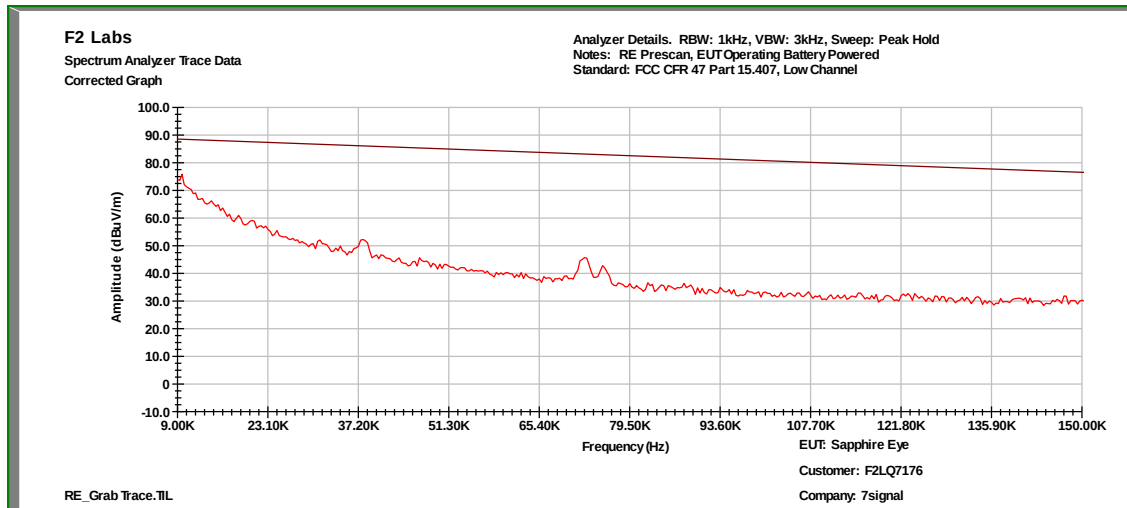
FCC ID: YLFSE2100WL

**5.25-5.35 Band, 80M UNII 2C:  
Low Channel: 26G to 40G, Horizontal**

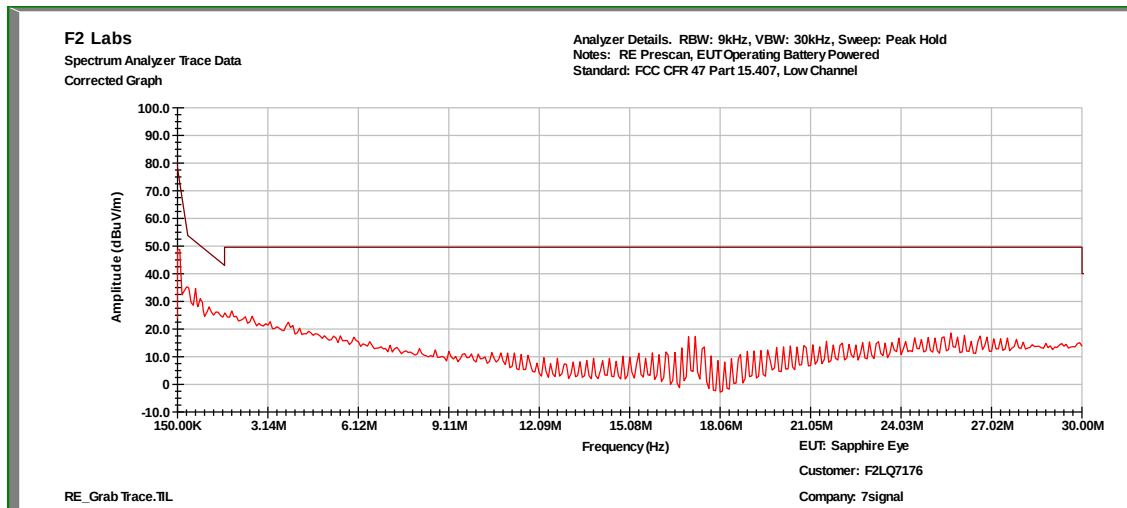




**5.47-5.725 Band, 20M UNII 2C:**  
**Low Channel: 9k to 150k**

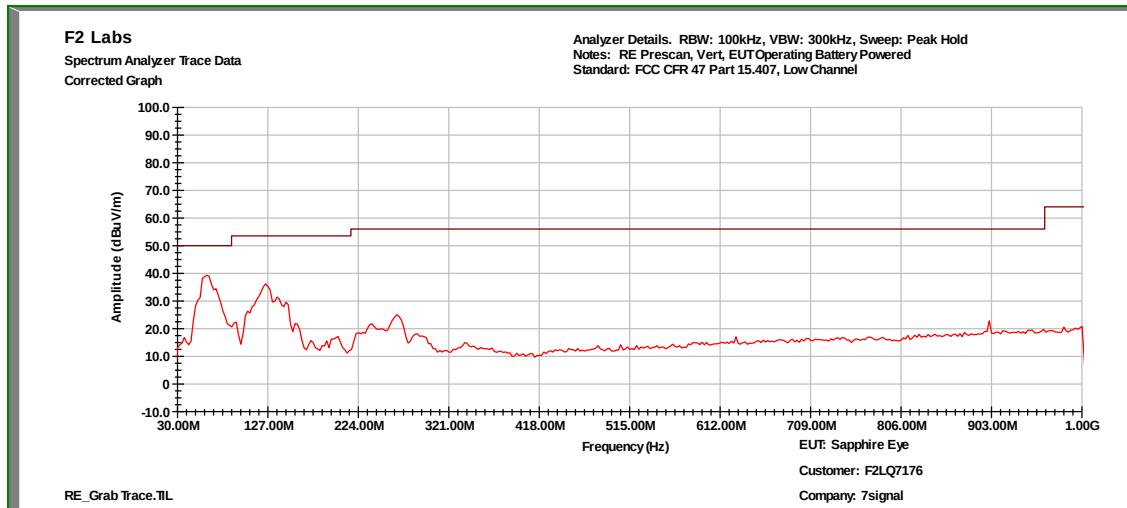


**5.47-5.725 Band, 20M UNII 2C:**  
**Low Channel: 150k to 30M**

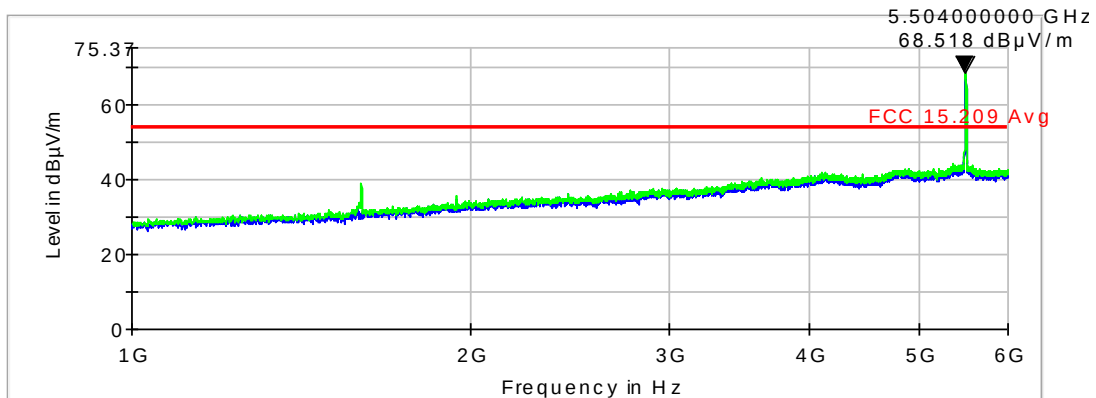




**5.47-5.725 Band, 20M UNII 2C:  
Low Channel: 30M to 1G, Vertical**

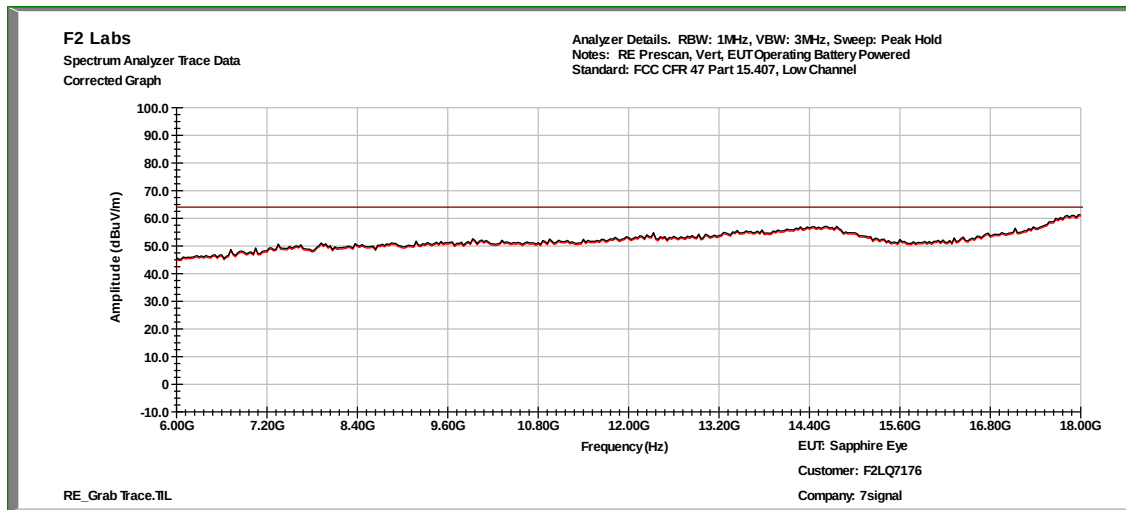


**5.47-5.725 Band, 20M UNII 2C:  
Low Channel: 1G to 6G, Vertical**

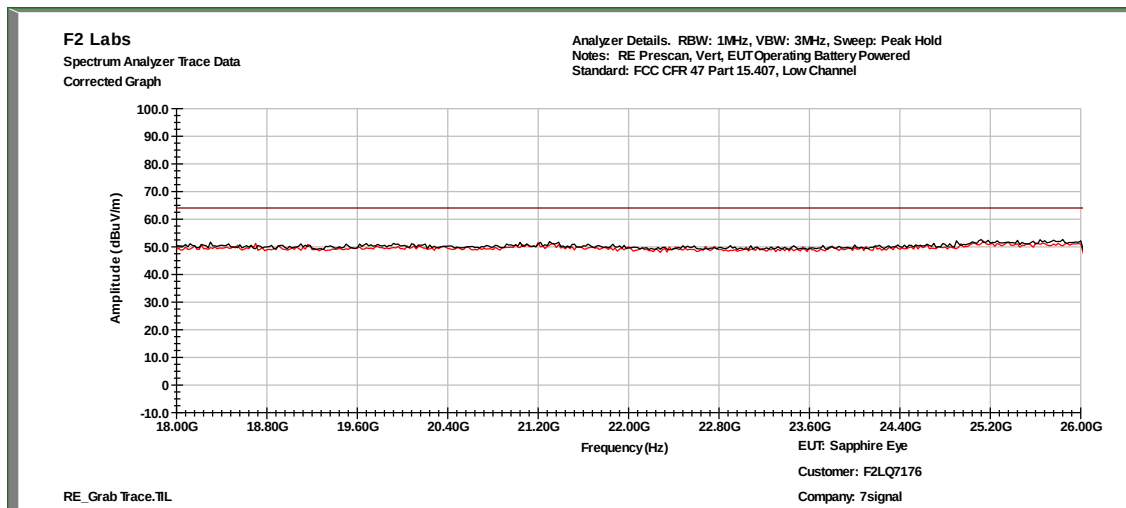




**5.47-5.725 Band, 20M UNII 2C:  
Low Channel: 6G to 18G, Vertical**



**5.47-5.725 Band, 20M UNII 2C:  
Low Channel: 18G to 26G, Vertical**



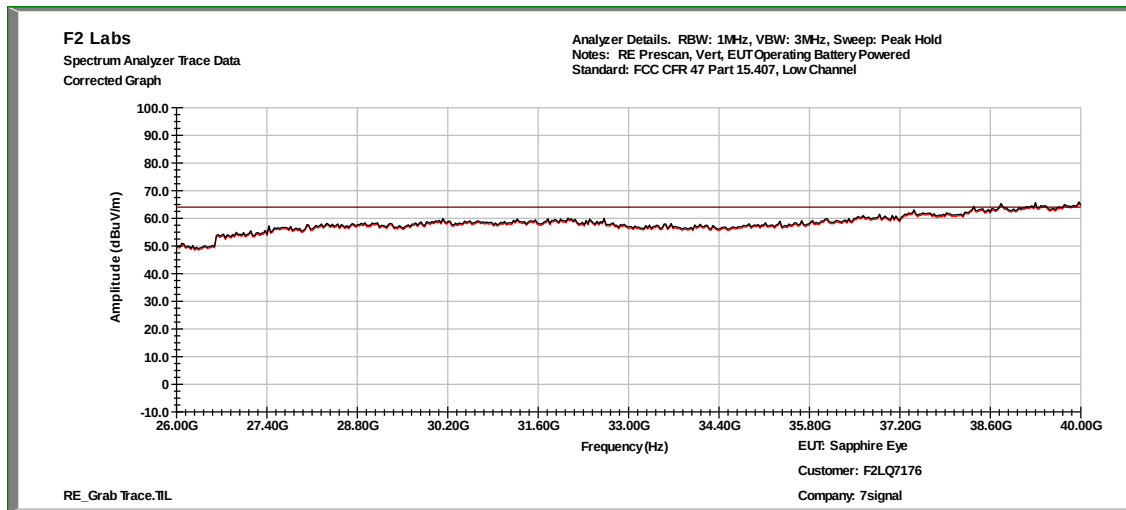


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

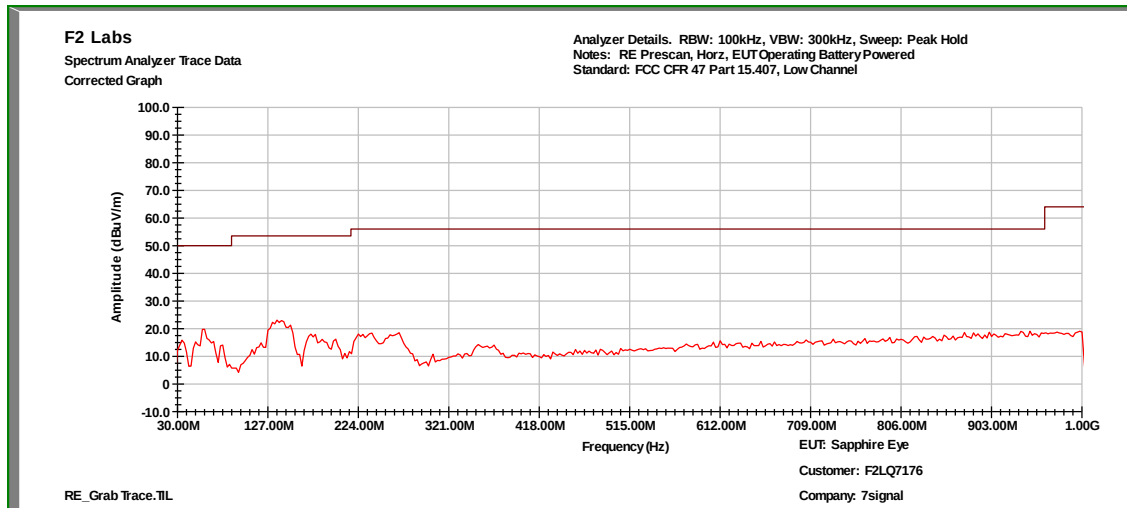
FCC ID: YLFSE2100WL

**5.47-5.725 Band, 20M UNII 2C:  
Low Channel: 26G to 40G, Vertical**

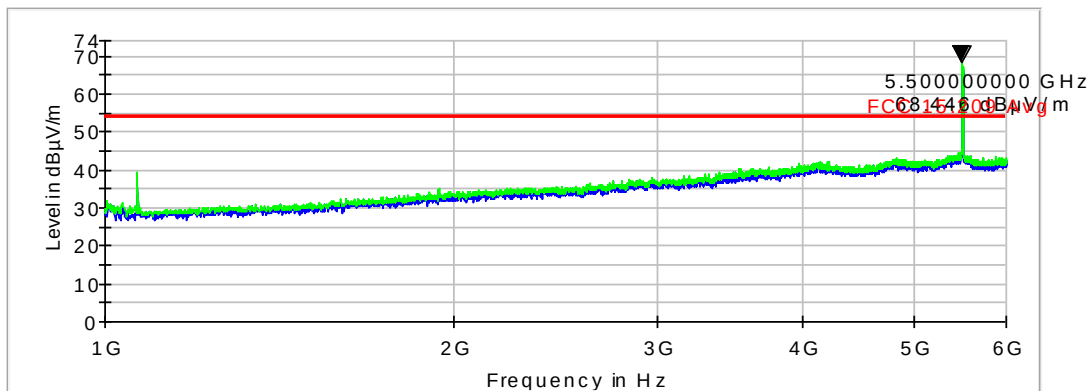




**5.47-5.725 Band, 20M UNII 2C:**  
**Low Channel: 30M to 1G, Horizontal**



**5.47-5.725 Band, 20M UNII 2C:**  
**Low Channel: 1G to 6G, Horizontal**



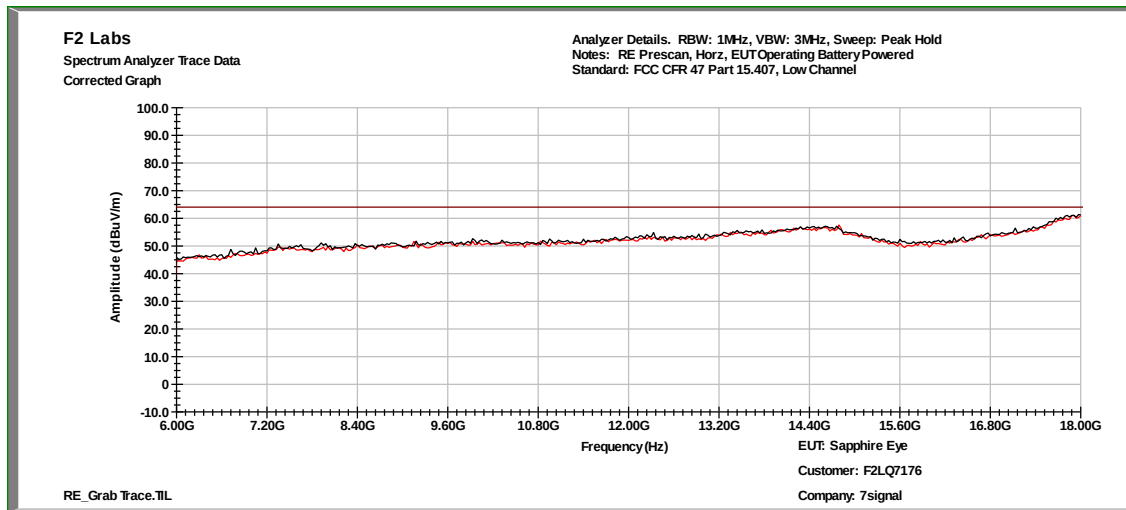


Order Number: F2LQ7176

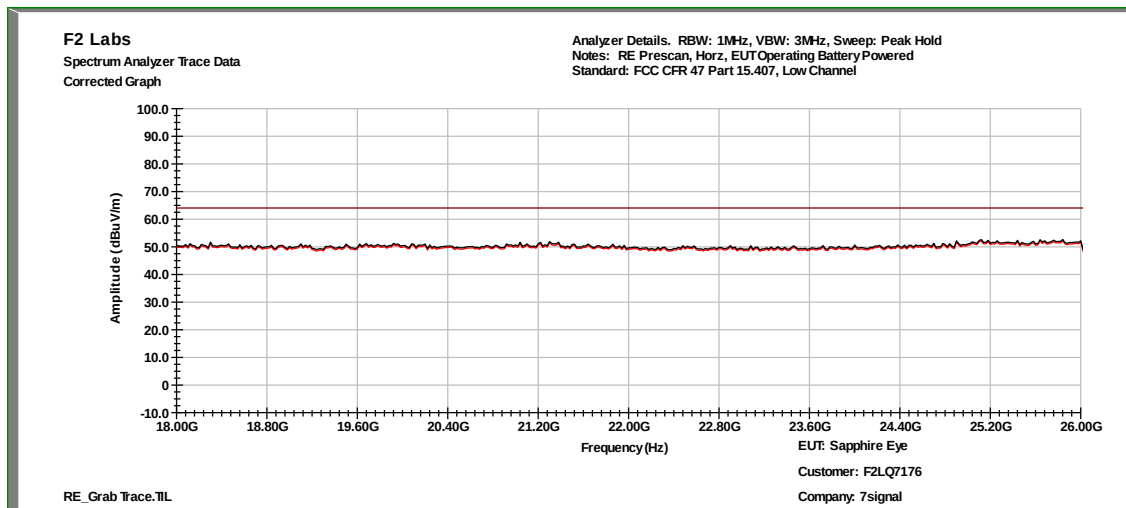
Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

**5.47-5.725 Band, 20M UNII 2C:**  
**Low Channel: 6G to 18G, Horizontal**



**5.47-5.725 Band, 20M UNII 2C:**  
**Low Channel: 18G to 26G, Horizontal**



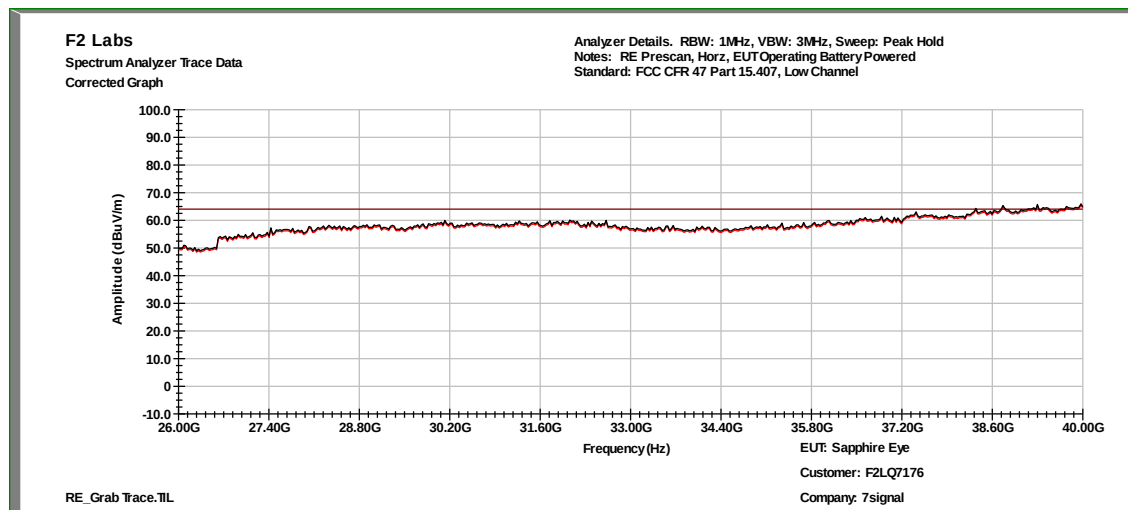


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

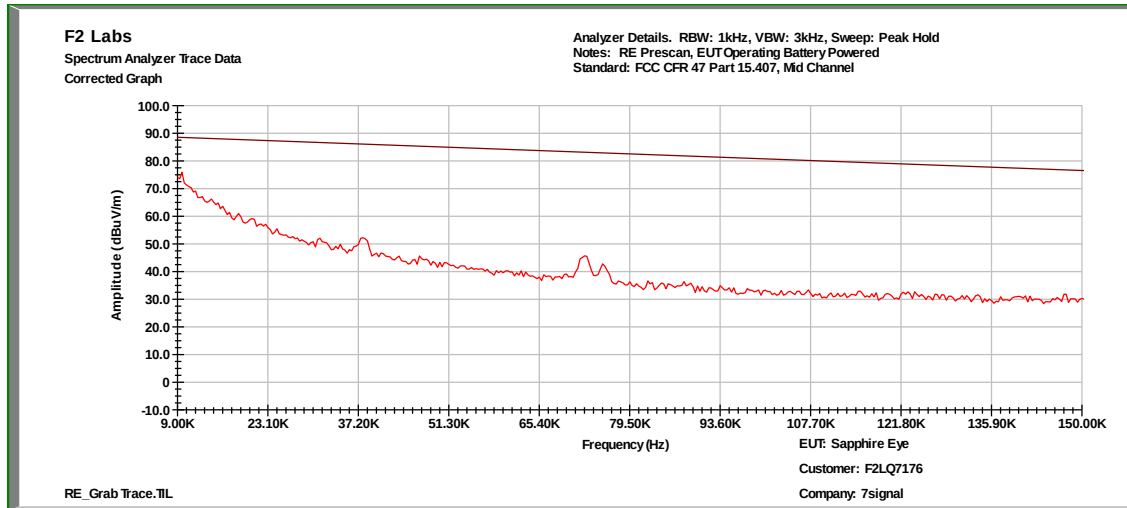
FCC ID: YLFSE2100WL

**5.47-5.725 Band, 20M UNII 2C:  
Low Channel: 26G to 40G, Horizontal**

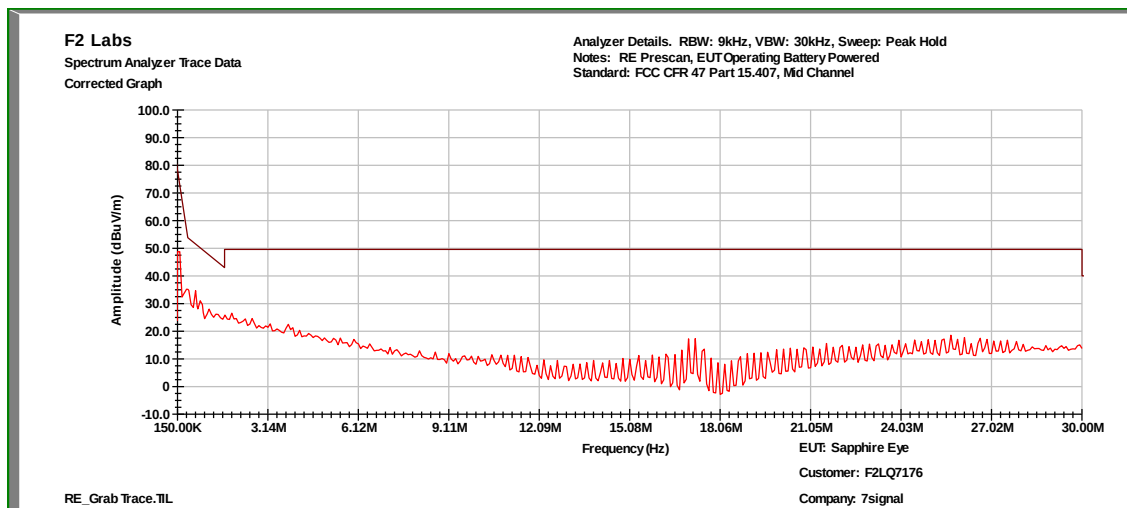




5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 9k to 150k



5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 150k to 30M



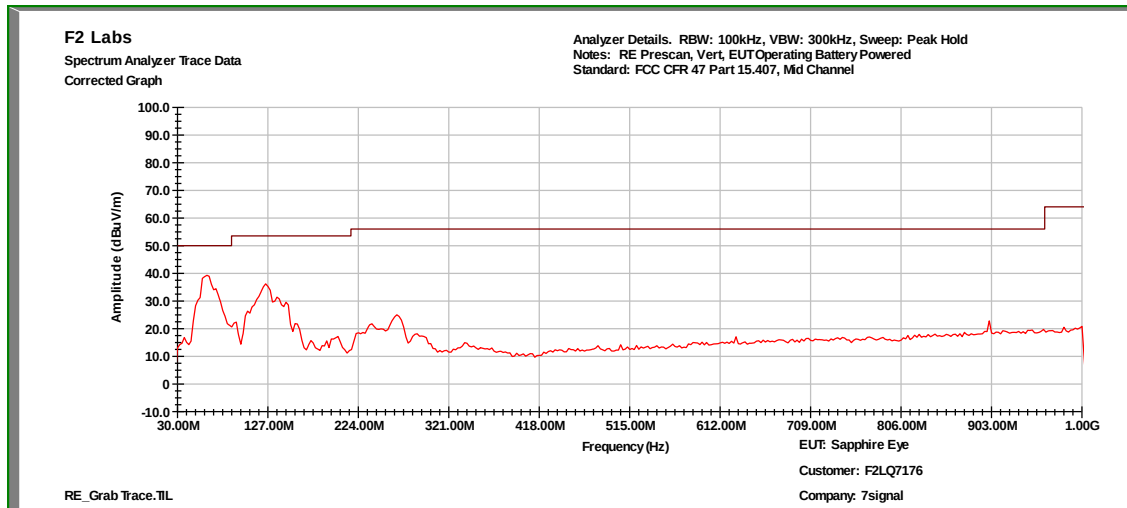


Order Number: F2LQ7176

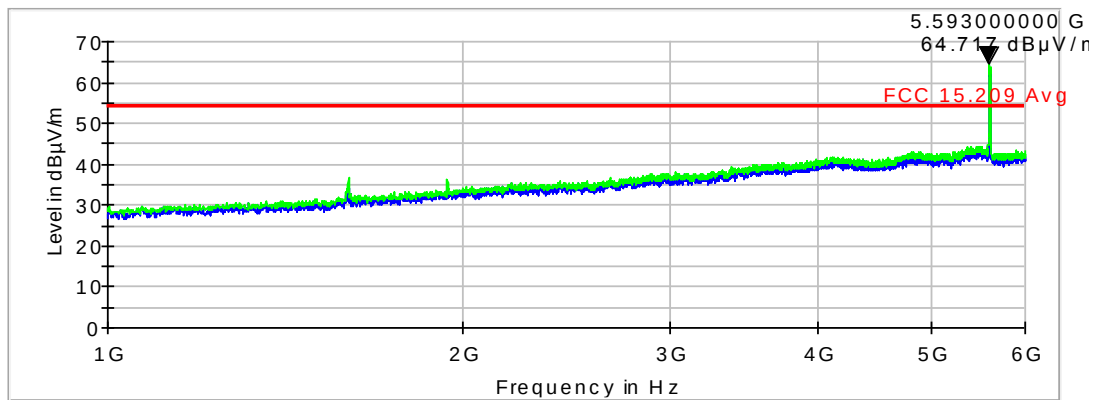
Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

**5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 30M to 1G, Vertical**

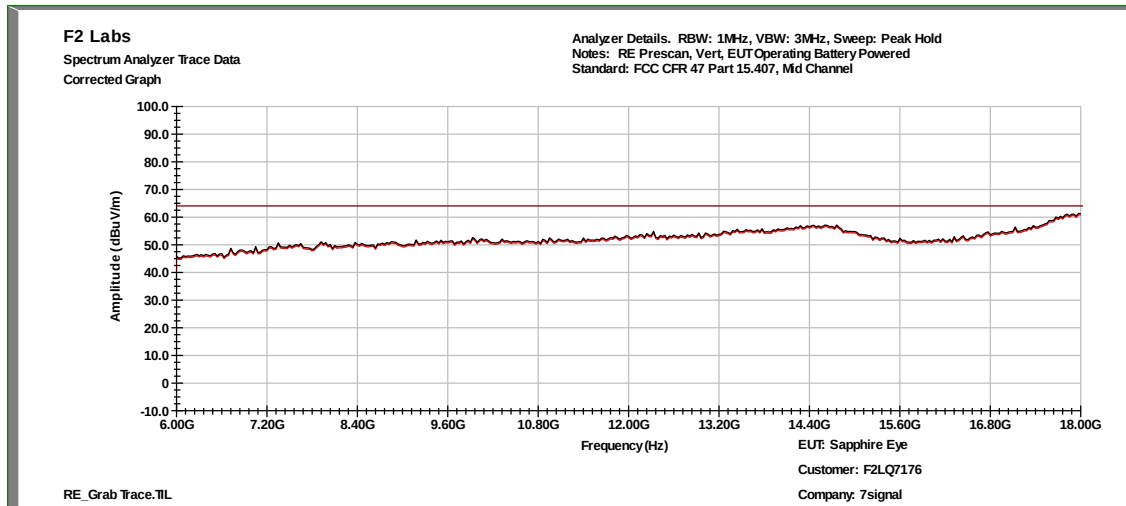


**5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 1G to 6G, Vertical**

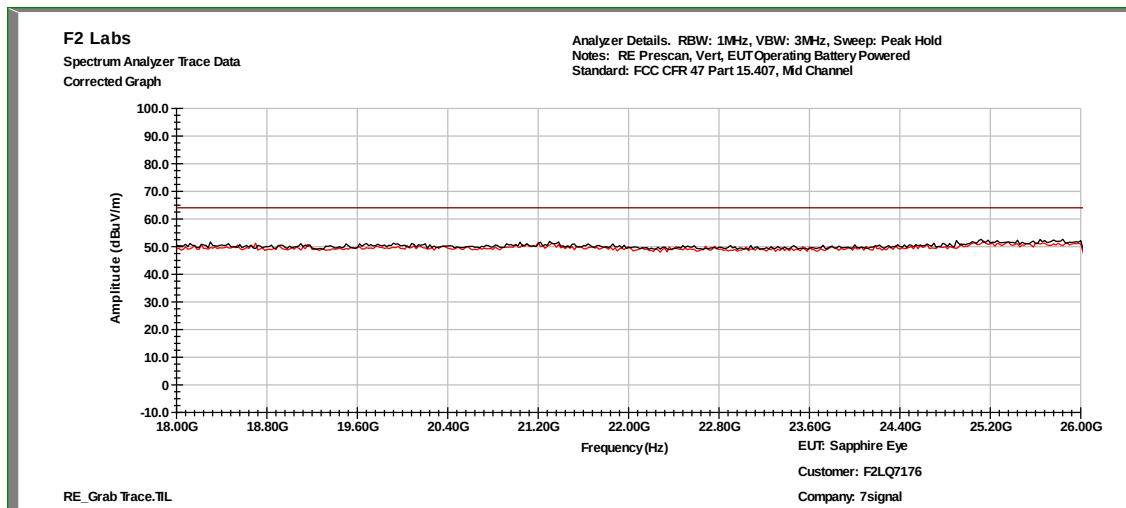




**5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 6G to 18G, Vertical**



**5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 18G to 26G, Vertical**



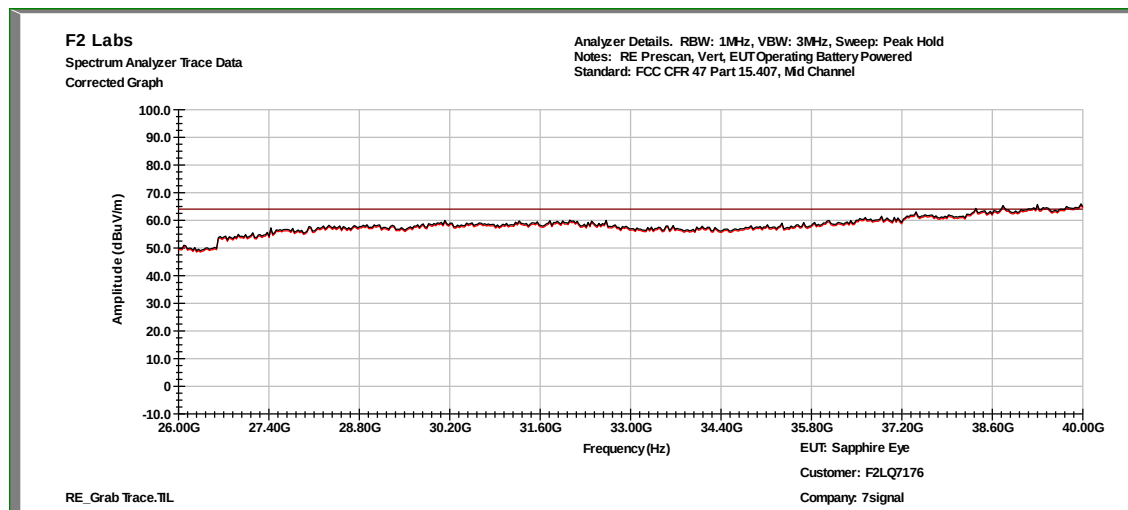


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

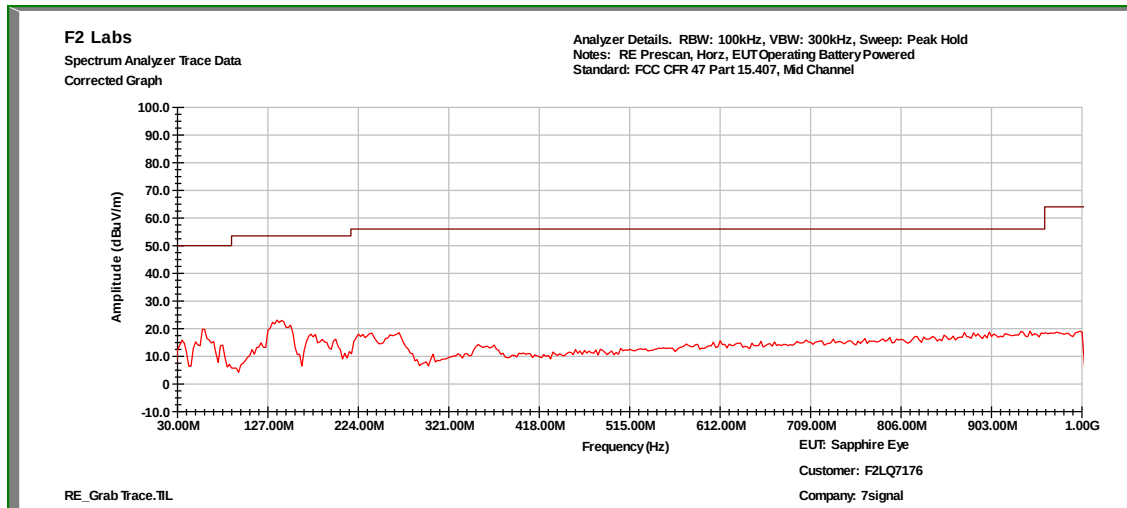
FCC ID: YLFSE2100WL

5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 26G to 40G, Vertical

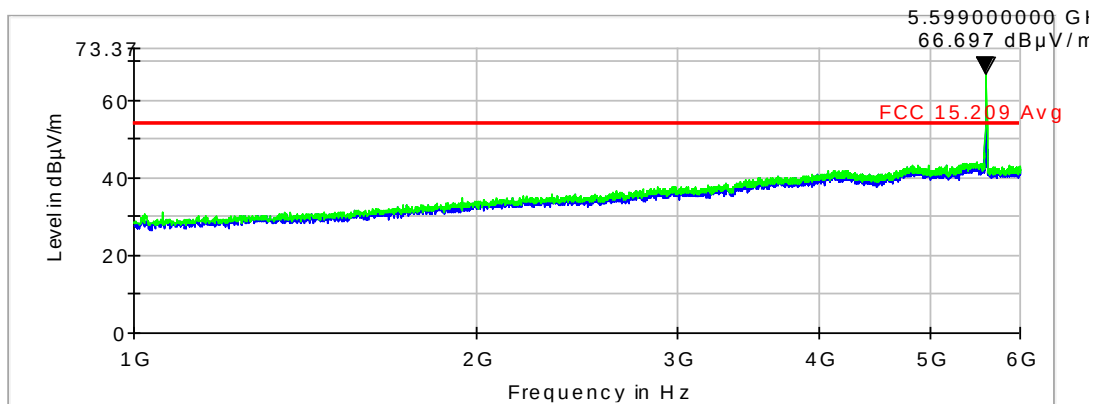




**5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 30M to 1G, Horizontal**



**5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 1G to 2.3G, Horizontal**



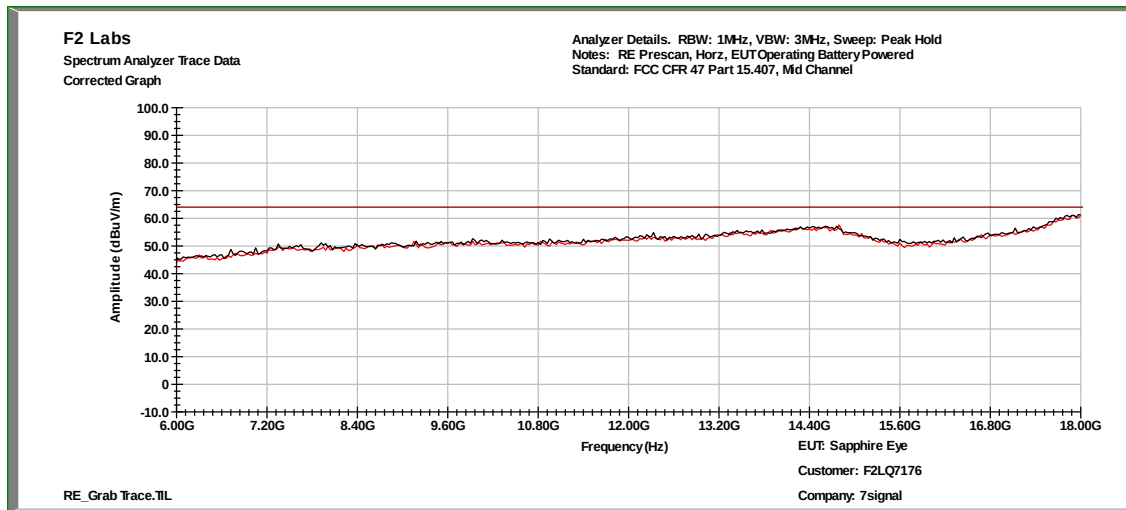


Order Number: F2LQ7176

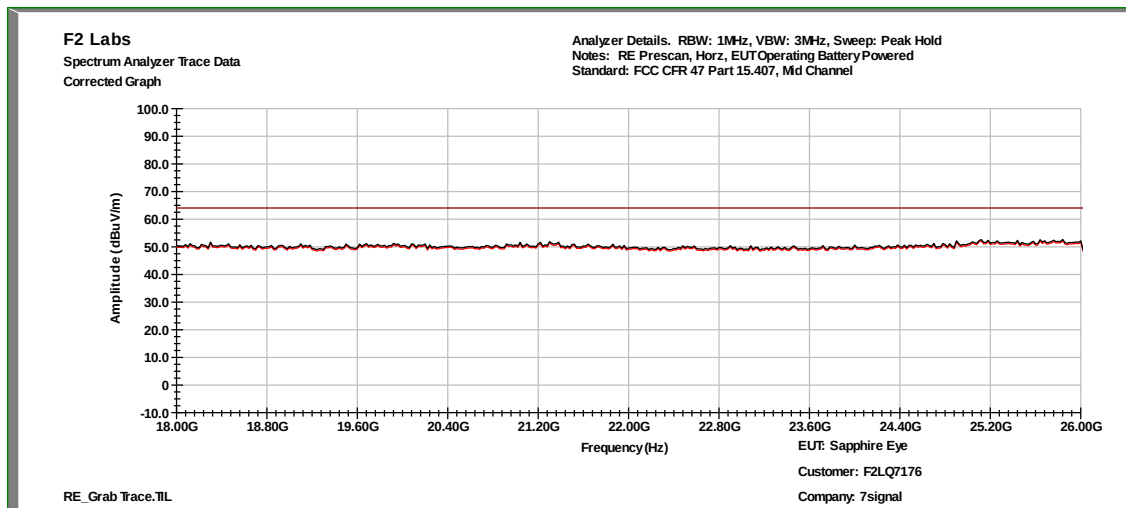
Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

**5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 6G to 18G, Horizontal**



**5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 18G to 26G, Horizontal**



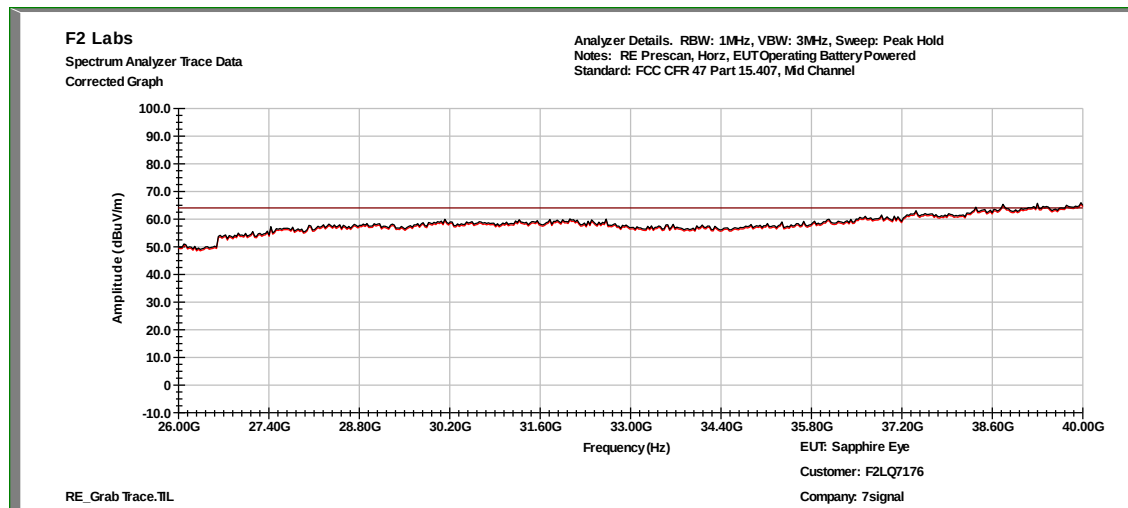


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

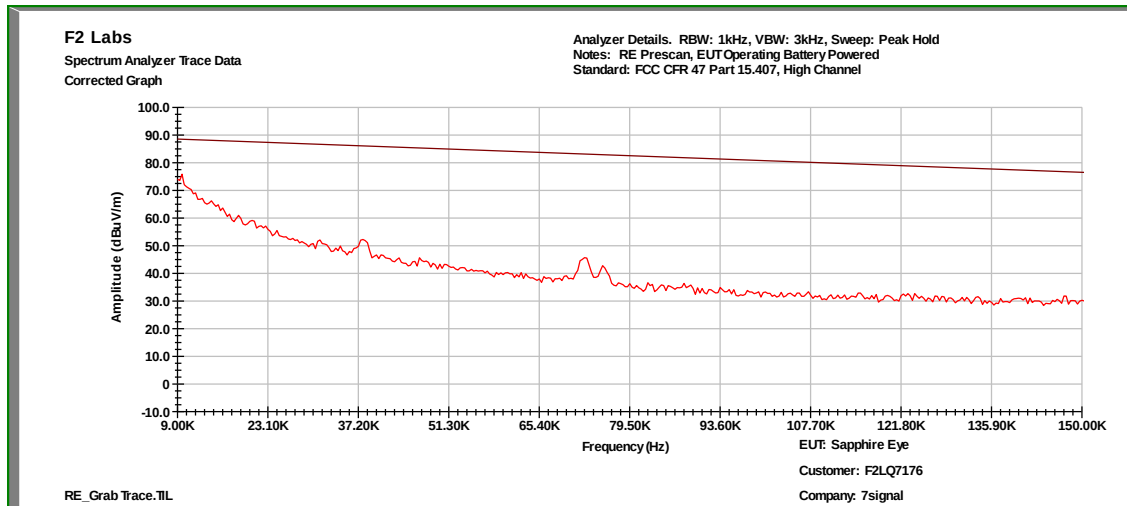
FCC ID: YLFSE2100WL

**5.47-5.725 Band, 20M UNII 2C:  
Mid Channel: 26G to 40G, Horizontal**

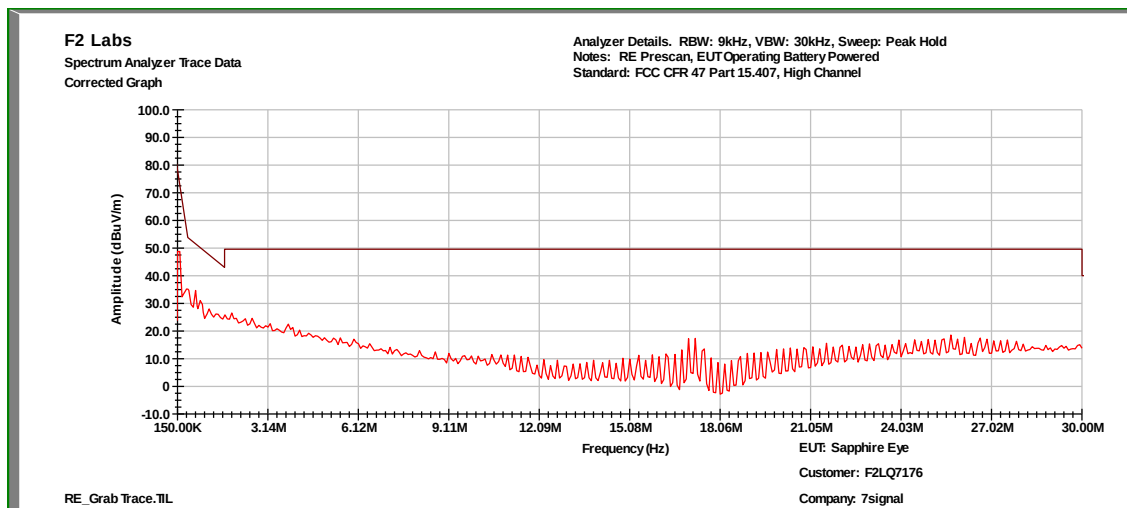




**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 9k to 150k**

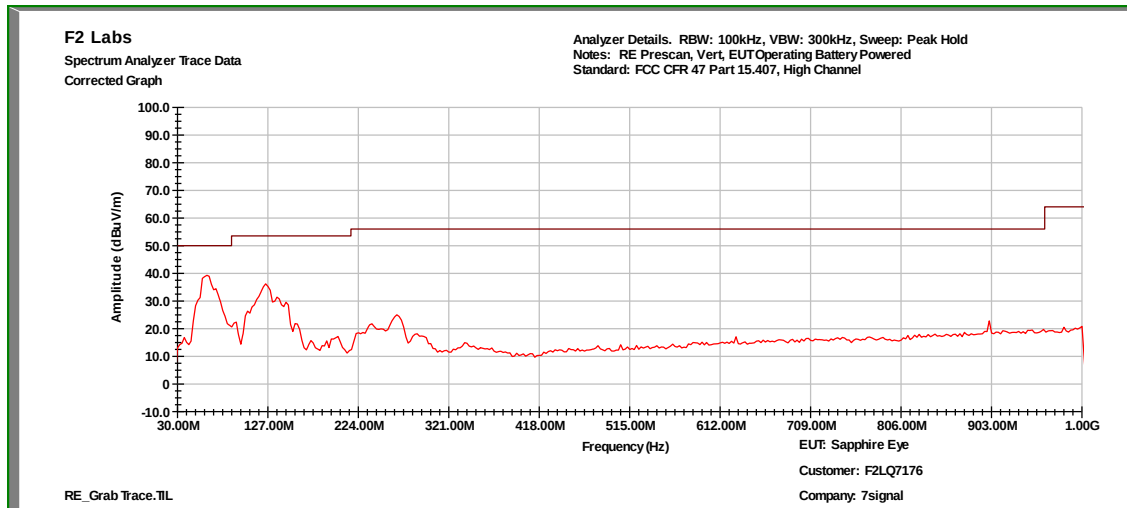


**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 150k to 30M**

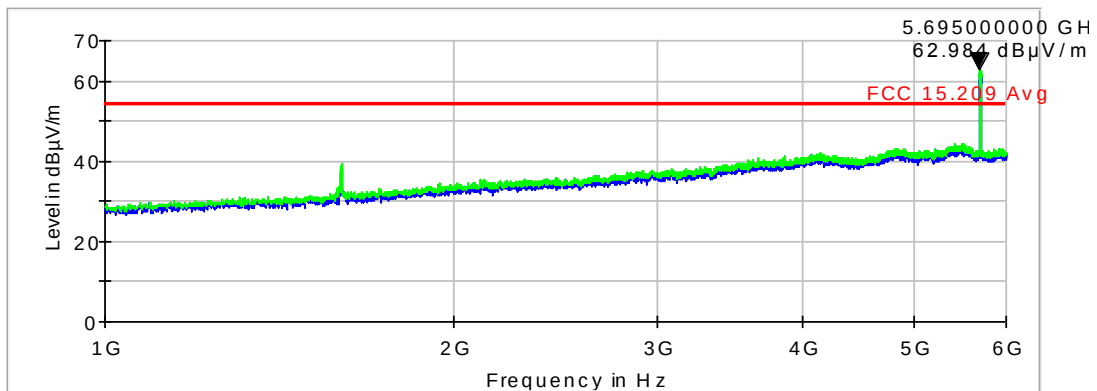




**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 30M to 1G, Vertical**



**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 1G to 6G, Vertical**



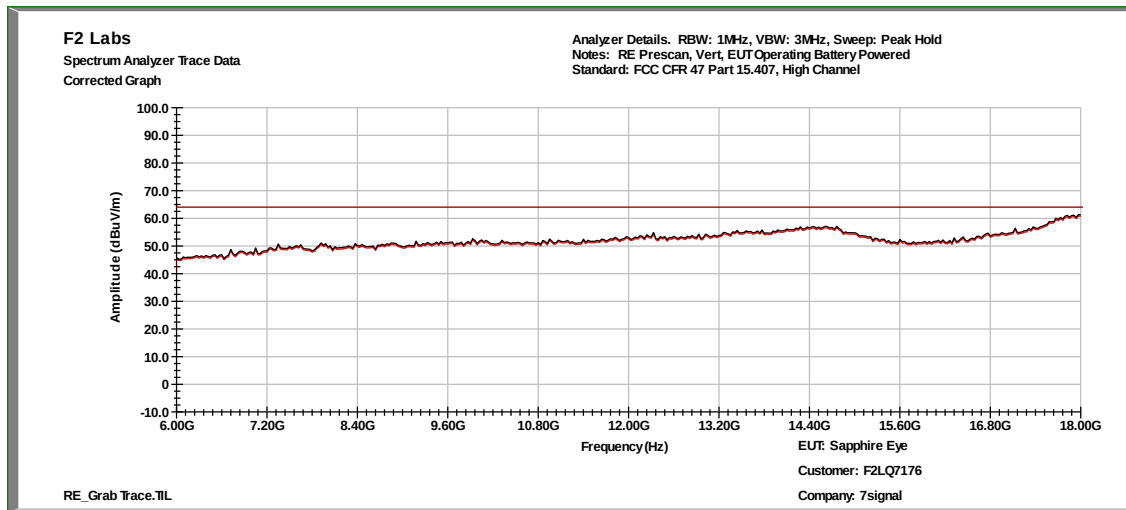


Order Number: F2LQ7176

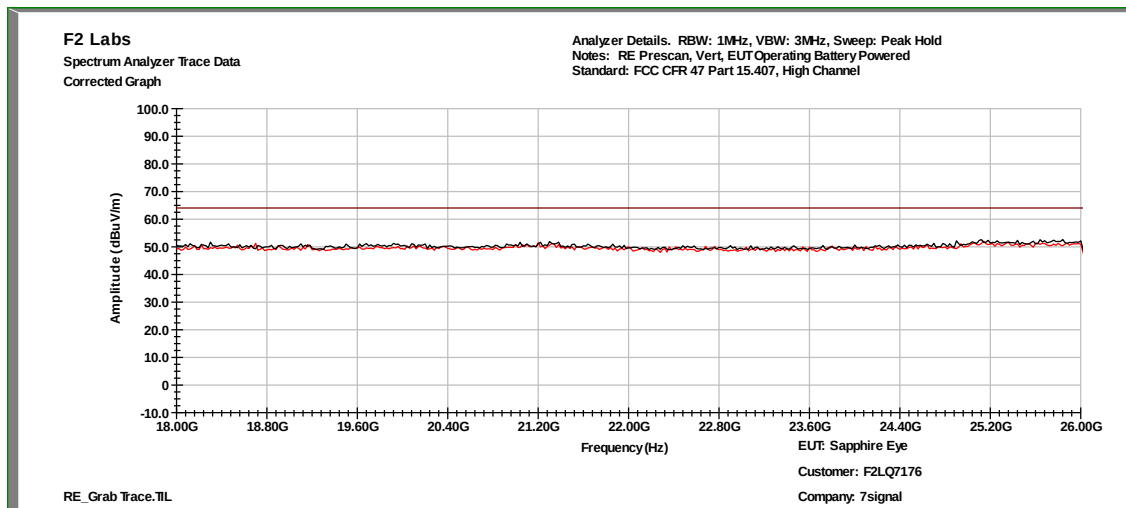
Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 6G to 18G, Vertical**



**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 18G to 26G, Vertical**



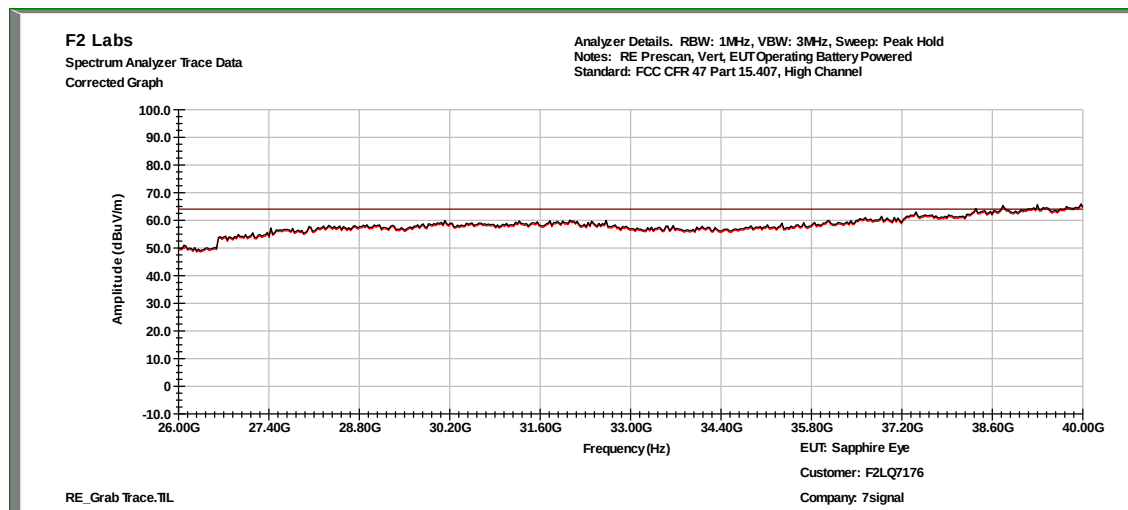


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

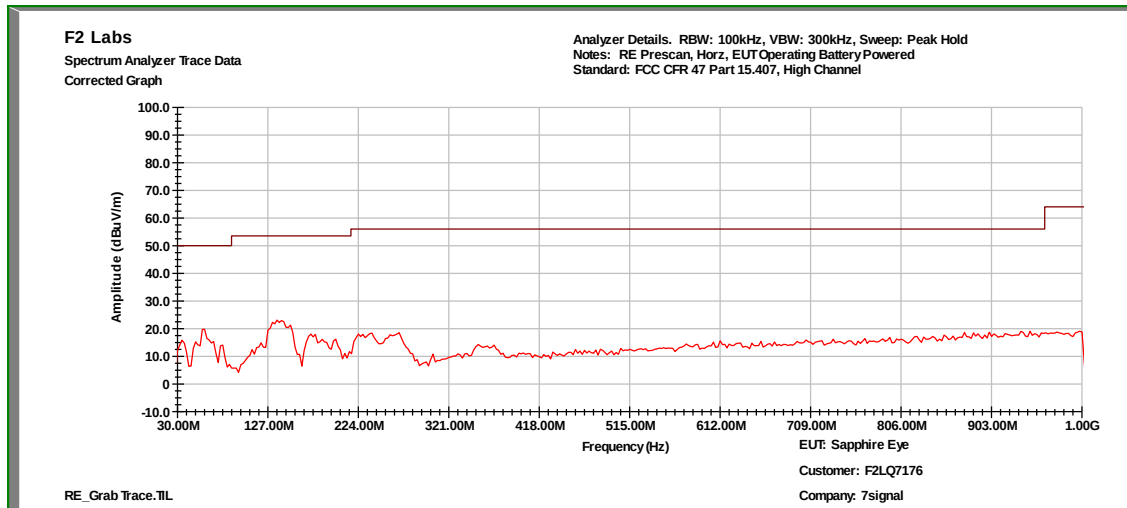
FCC ID: YLFSE2100WL

**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 26G to 40G, Vertical**

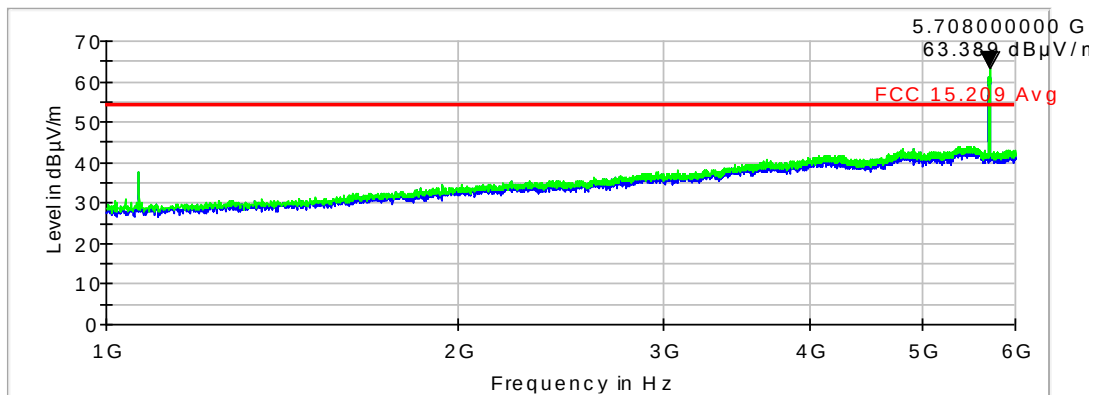




**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 30M to 1G, Horizontal**

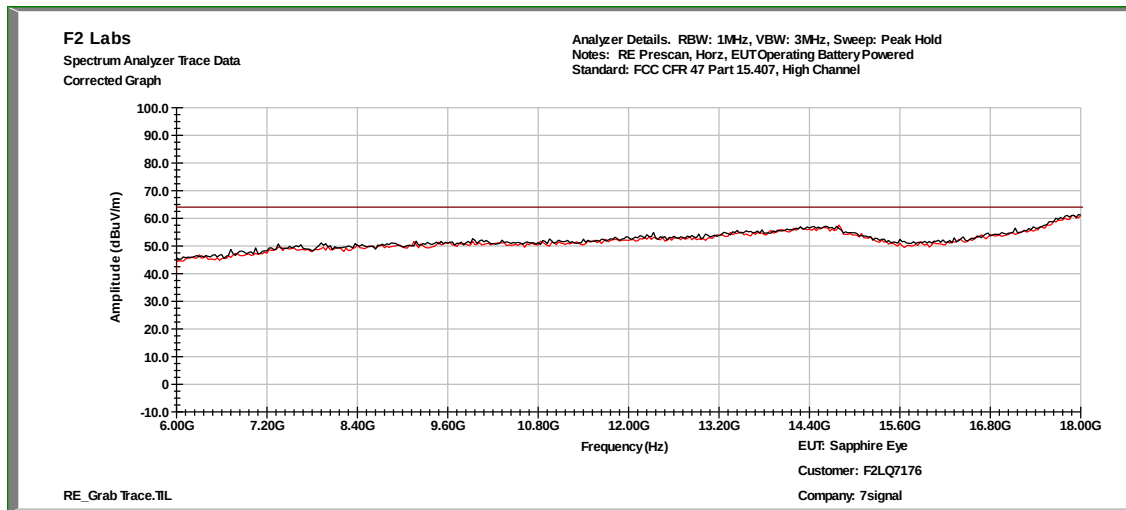


**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 1G to 2.3G, Horizontal**

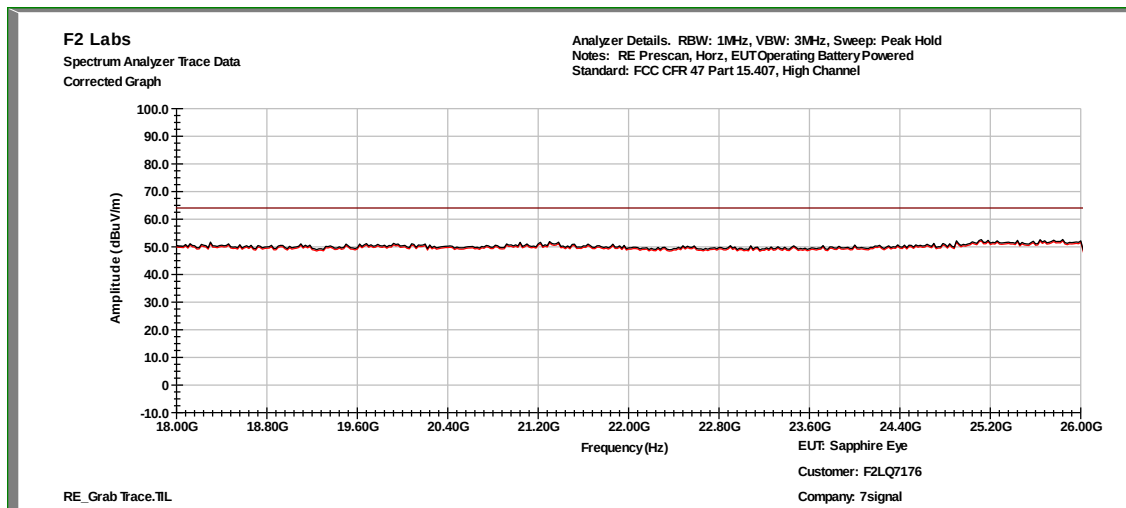




**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 6G to 18G, Horizontal**



**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 18G to 26G, Horizontal**



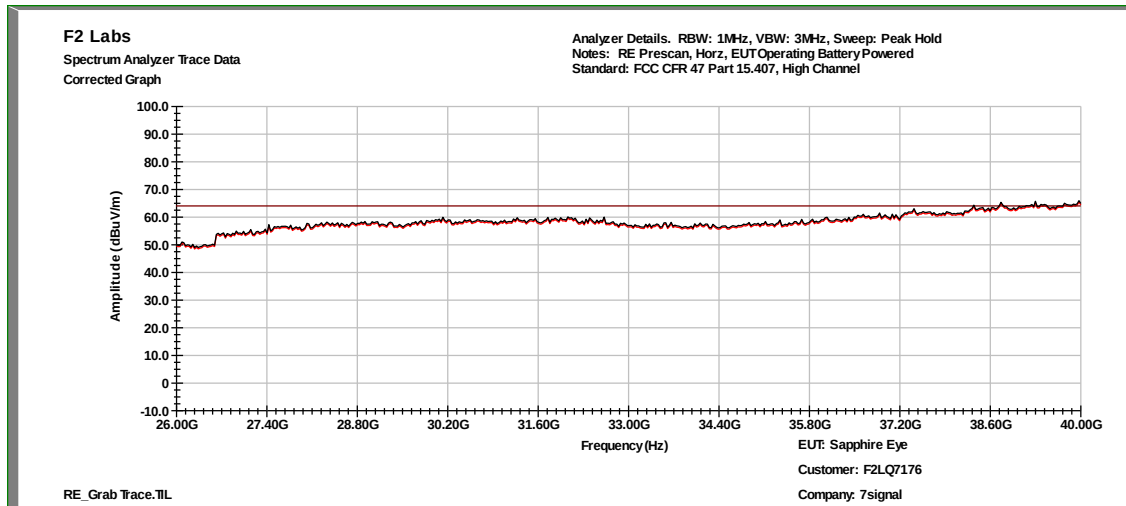


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

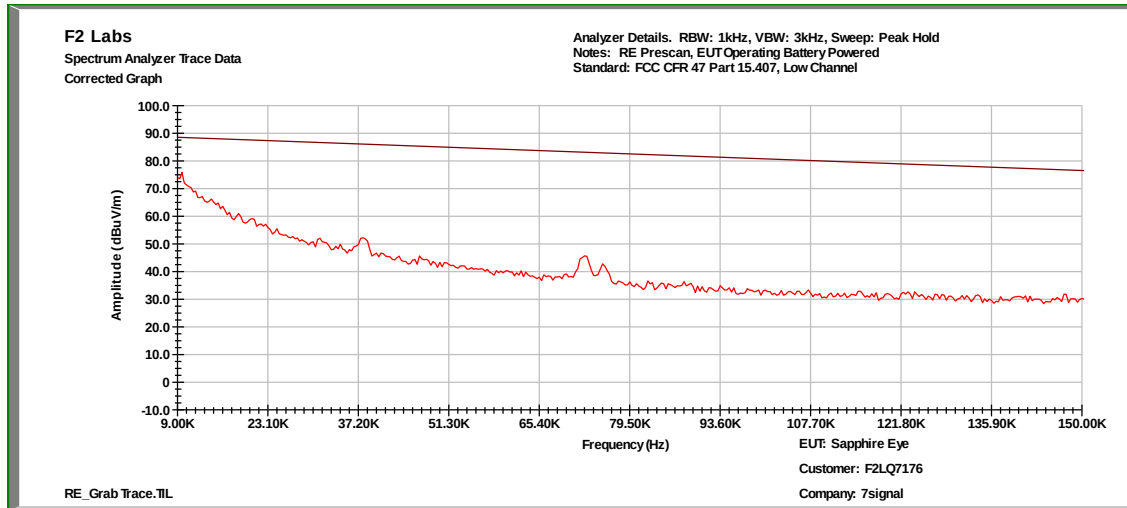
FCC ID: YLFSE2100WL

**5.47-5.725 Band, 20M UNII 2C:  
High Channel: 26G to 40G, Horizontal**

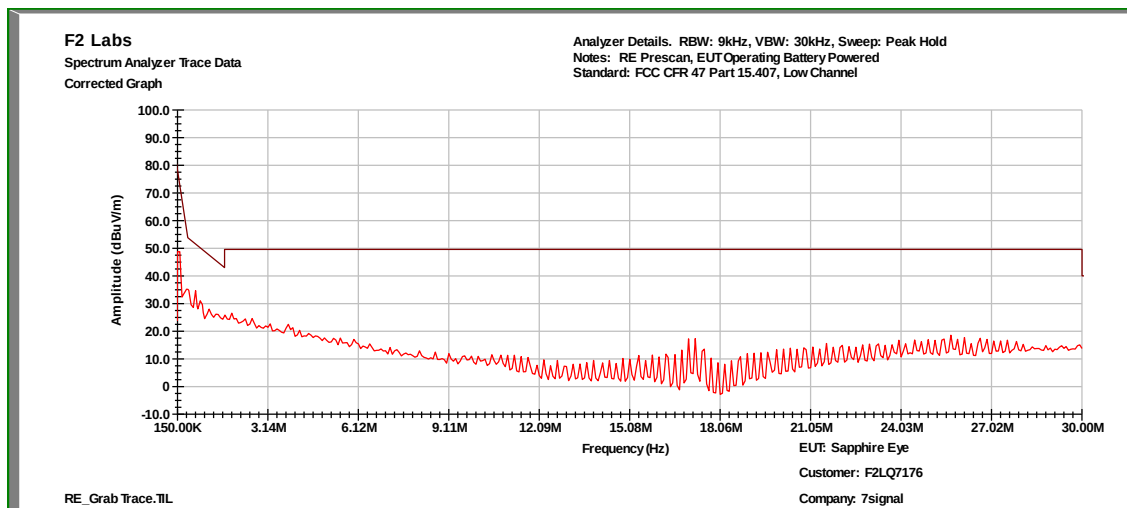




5.47-5.725 Band,40M UNII 2C:  
Low Channel: 9k to 150k

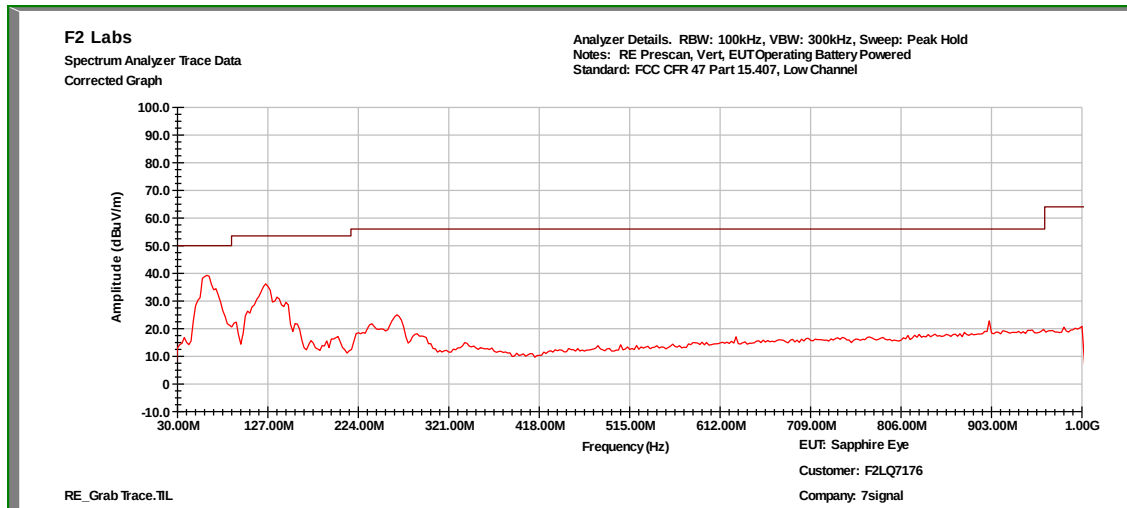


5.47-5.725 Band,40M UNII 2C:  
Low Channel: 150k to 30M

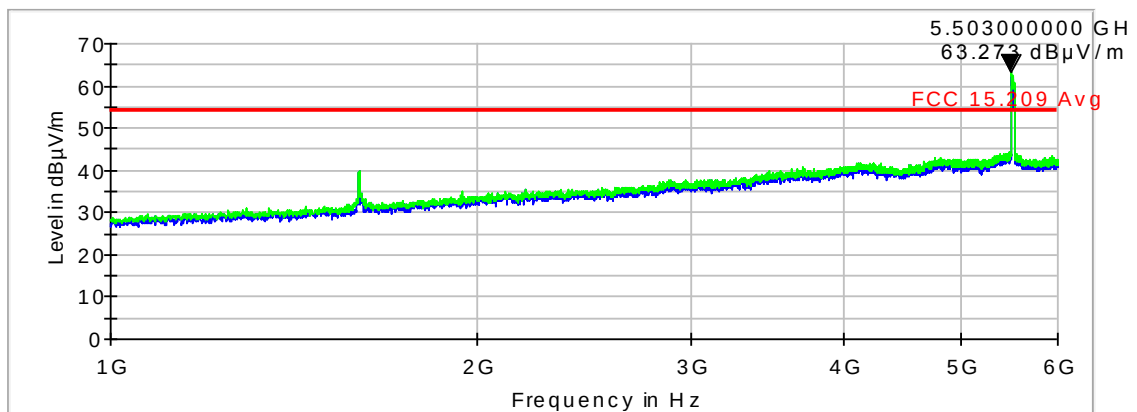




**5.47-5.725 Band,40M UNII 2C:  
Low Channel: 30M to 1G, Vertical**



**5.47-5.725 Band,40M UNII 2C:  
Low Channel: 1G to 6G, Vertical**



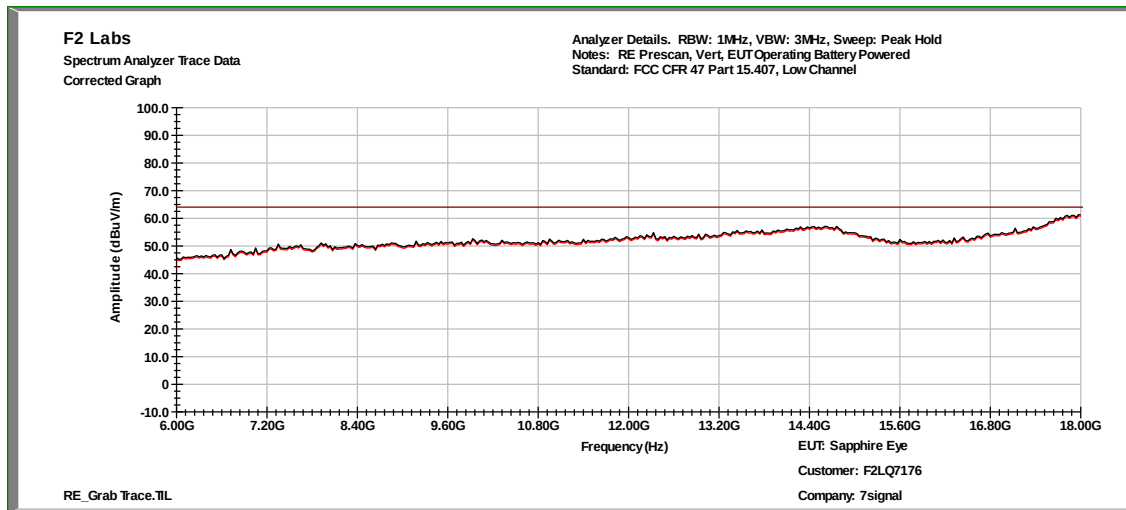


Order Number: F2LQ7176

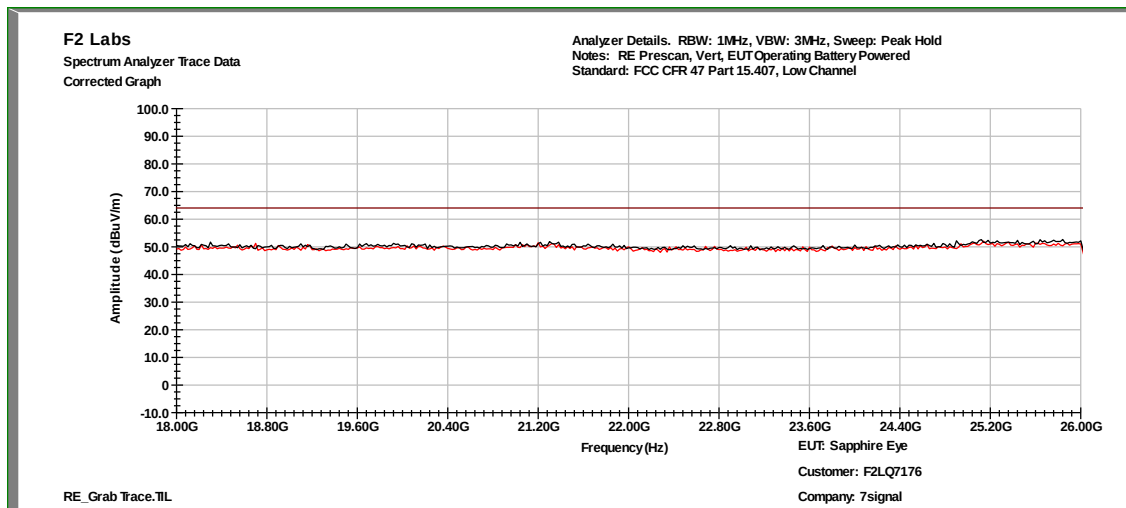
Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

**5.47-5.725 Band,40M UNII 2C:  
Low Channel: 6G to 18G, Vertical**



**5.47-5.725 Band,40M UNII 2C:  
Low Channel: 18G to 26G, Vertical**



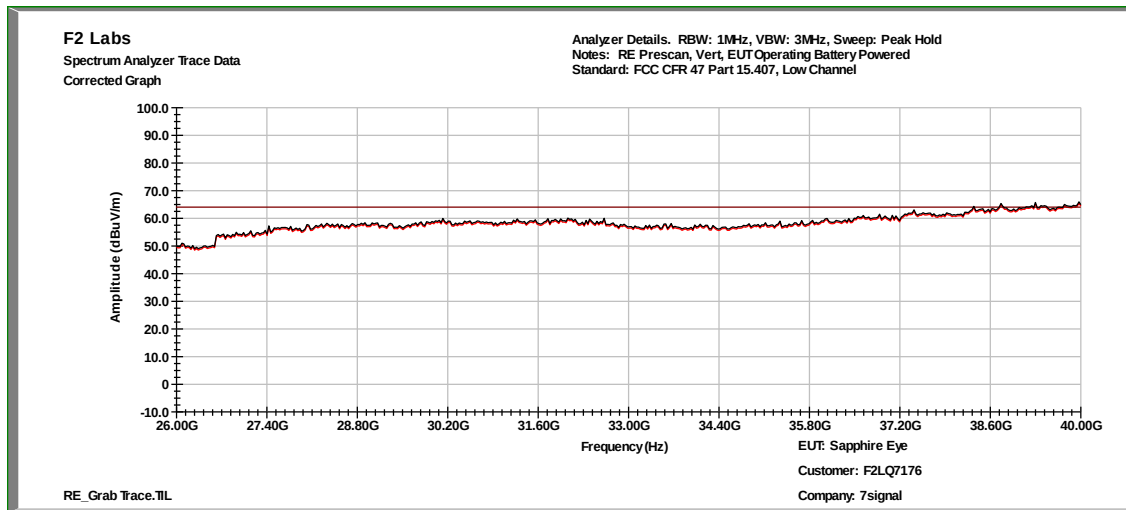


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

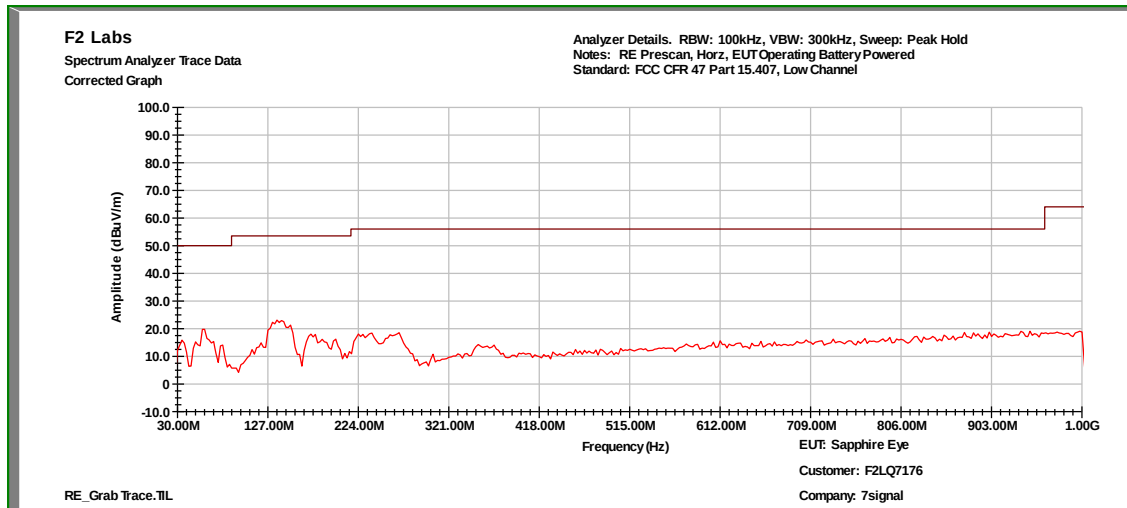
FCC ID: YLFSE2100WL

**5.47-5.725 Band, 40M UNII 2C:  
Low Channel: 26G to 40G, Vertical**

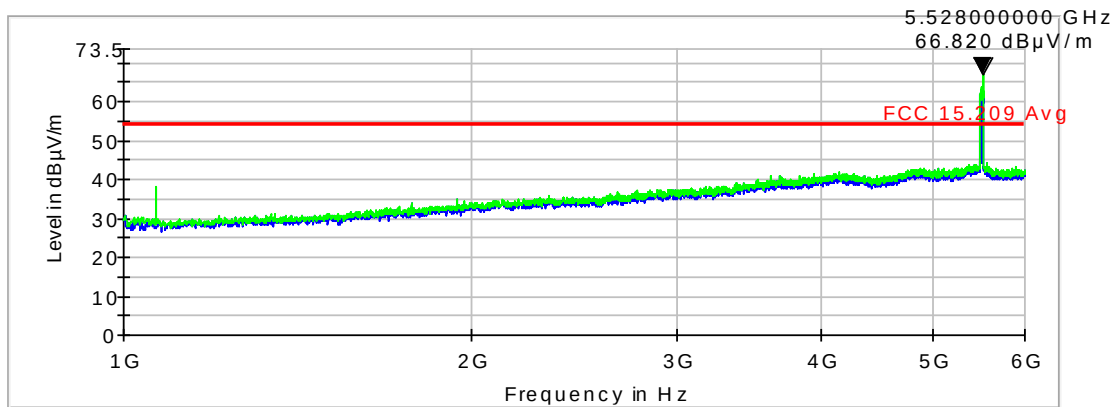




**5.47-5.725 Band, 40M UNII 2C:**  
**Low Channel: 30M to 1G, Horizontal**

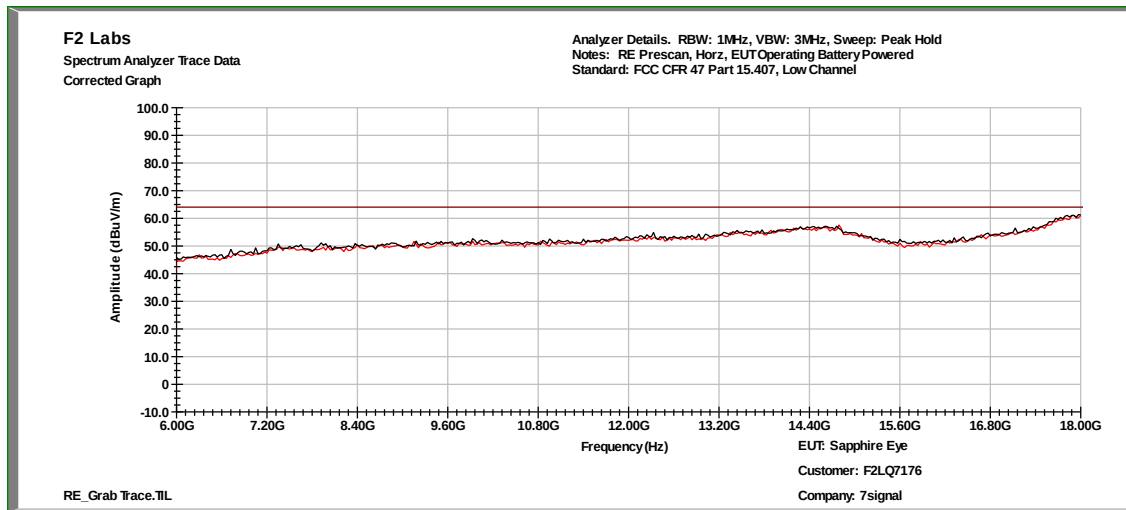


**5.47-5.725 Band, 40M UNII 2C:**  
**Low Channel: 1G to 6G, Horizontal**

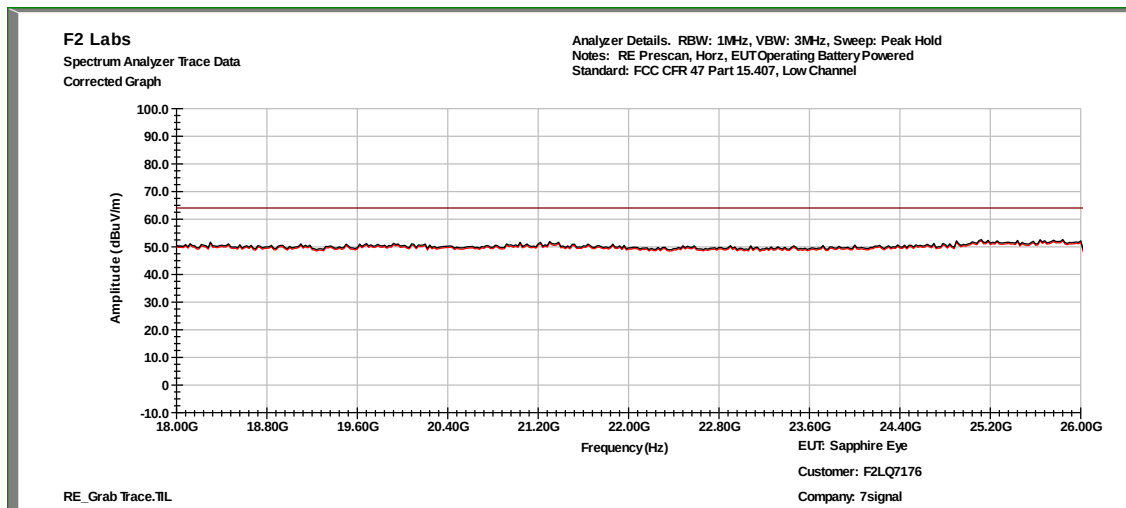




**5.47-5.725 Band,40M UNII 2C:**  
**Low Channel: 6G to 18G, Horizontal**



**5.47-5.725 Band,40M UNII 2C:**  
**Low Channel: 18G to 26G, Horizontal**



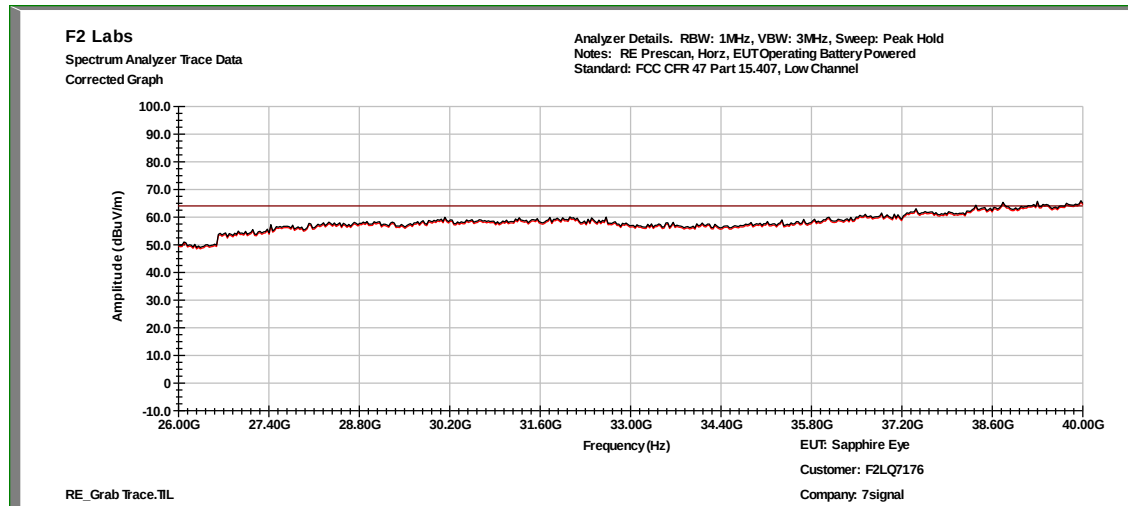


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

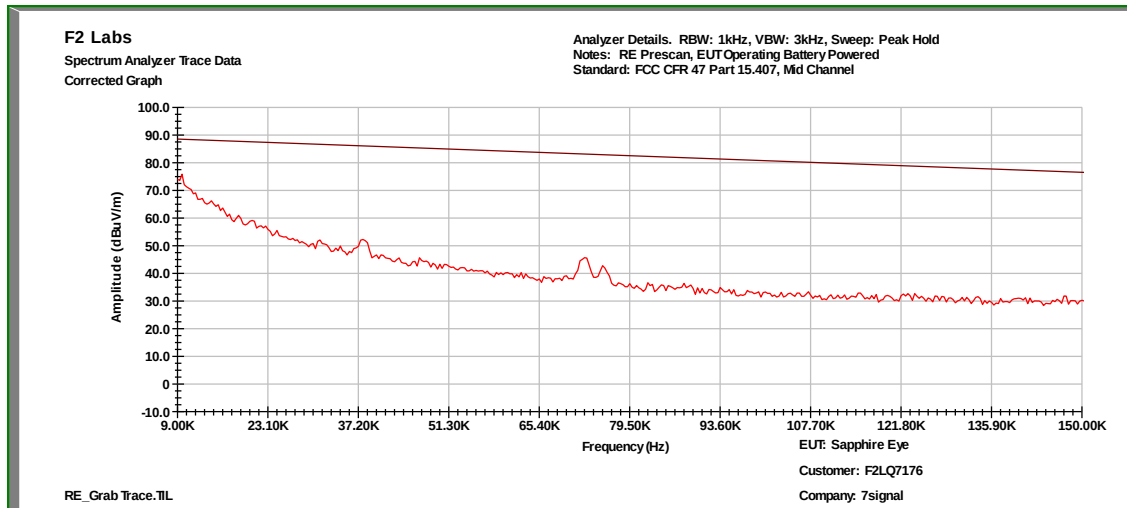
FCC ID: YLFSE2100WL

**5.47-5.725 Band, 40M UNII 2C:  
Low Channel: 26G to 40G, Horizontal**

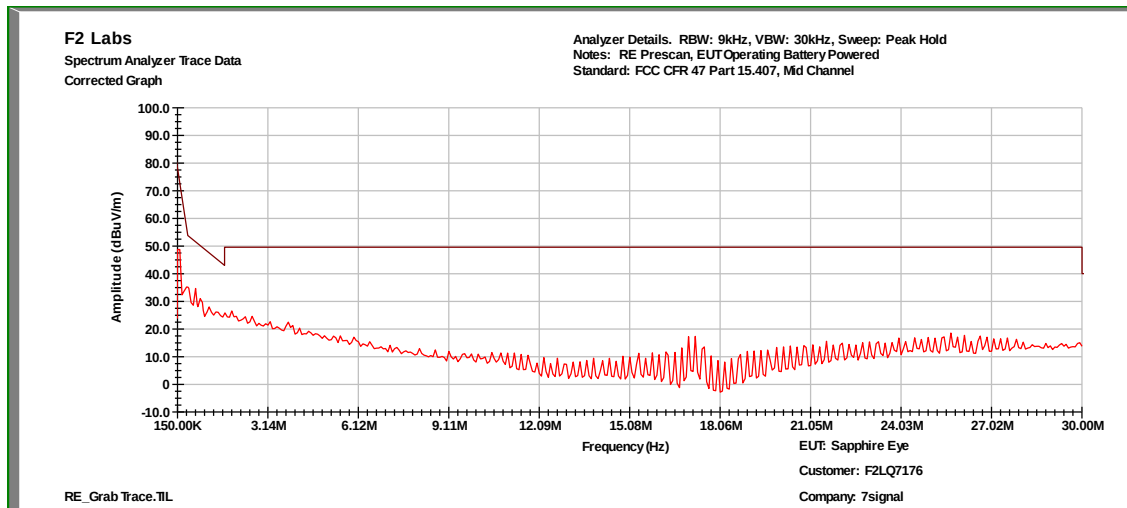




**5.47-5.725 Band,40M UNII 2C:  
Mid Channel: 9k to 150k**

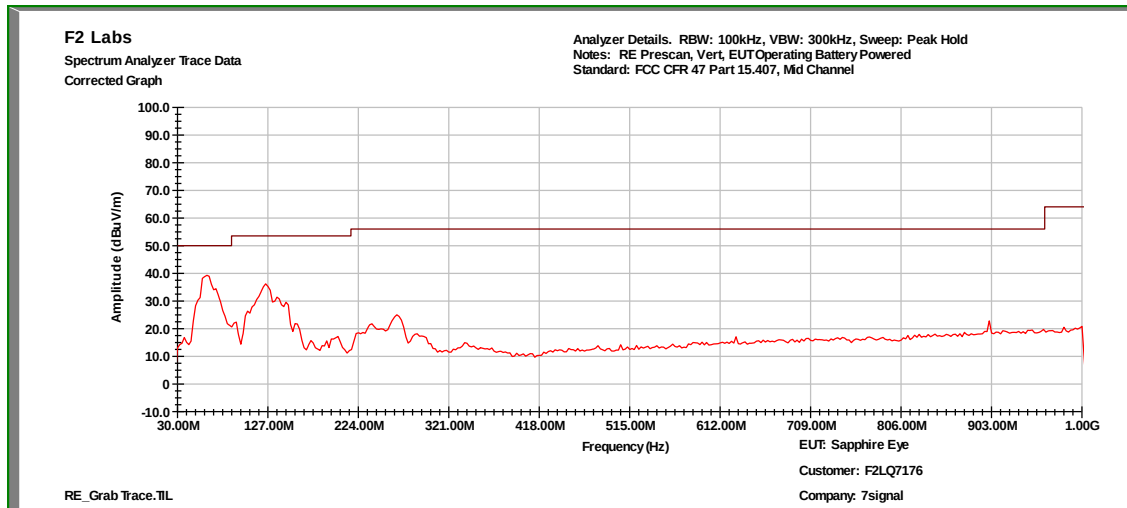


**55.47-5.725 Band,40M UNII 2C:  
Mid Channel: 150k to 30M**

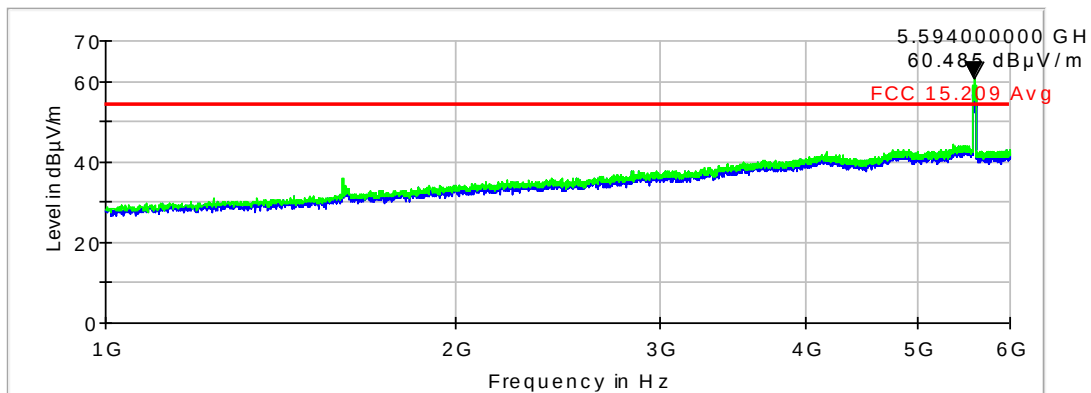




**5.47-5.725 Band,40M UNII 2C:  
Mid Channel: 30M to 1G, Vertical**

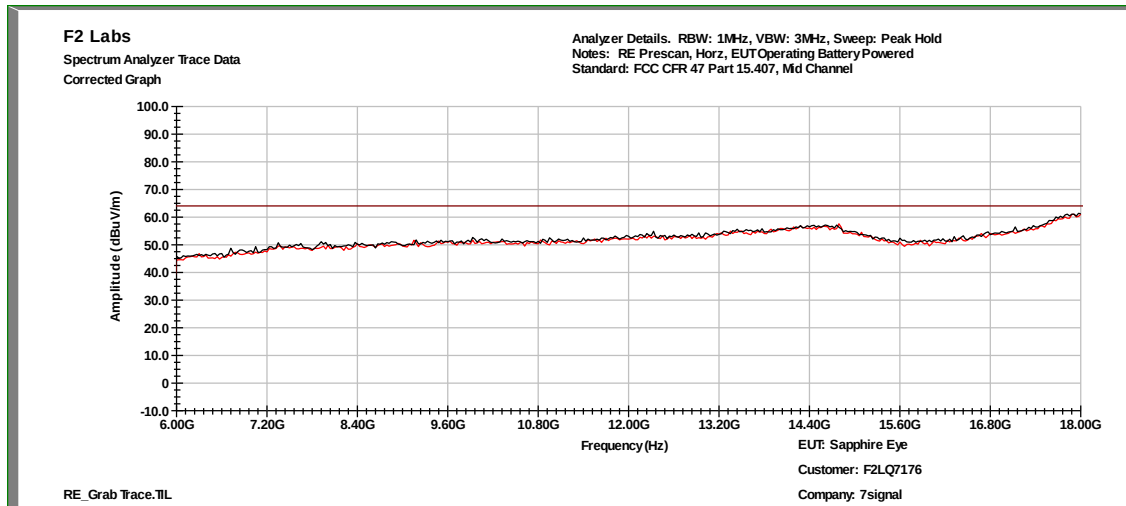


**5.47-5.725 Band,40M UNII 2C:  
Mid Channel: 1G to 6, Vertical**

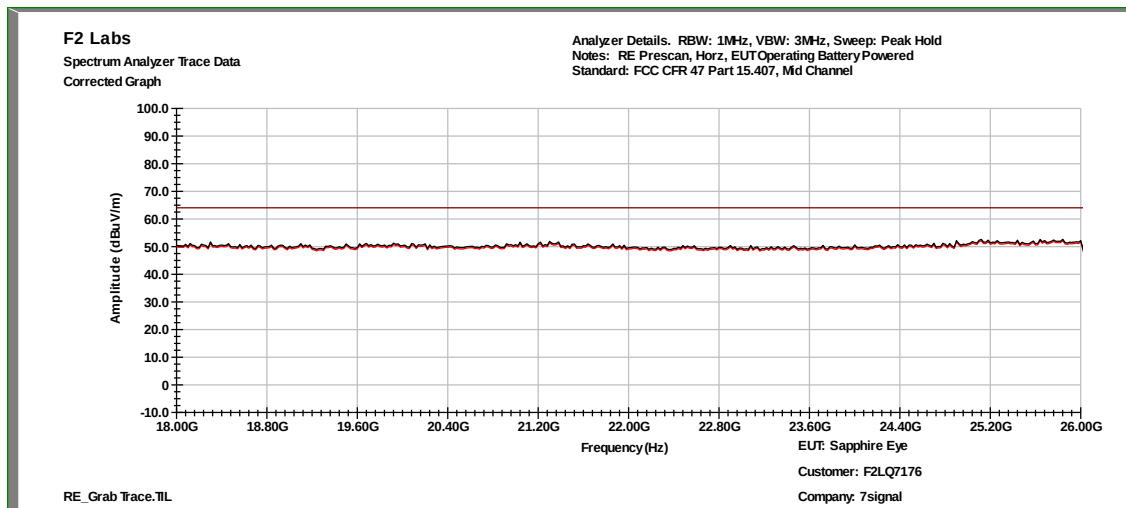




**5.47-5.725 Band,40M UNII 2C:  
Mid Channel: 6G to 18G, Vertical**



**5.47-5.725 Band,40M UNII 2C:  
Mid Channel: 18G to 26G, Vertical**



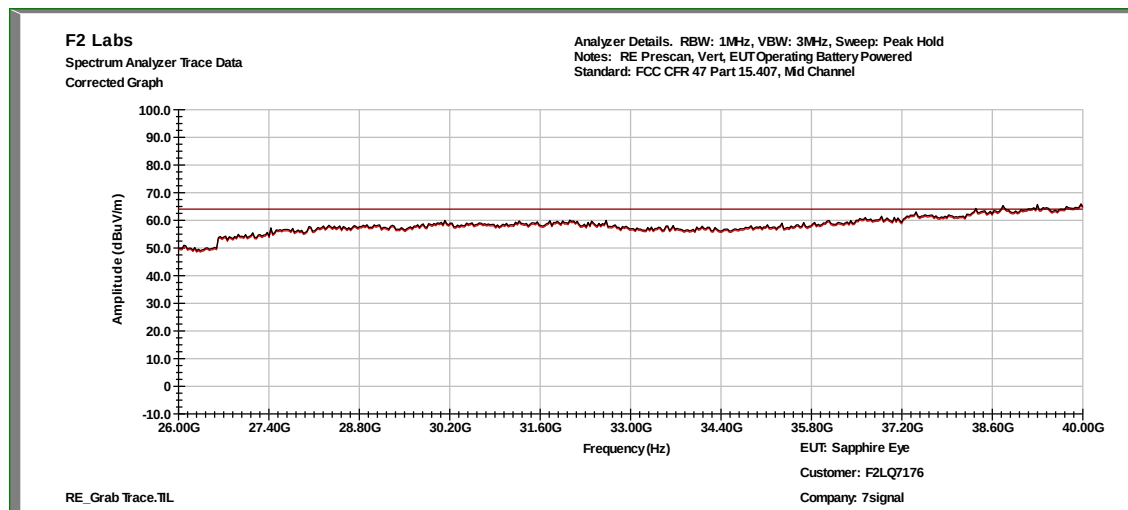


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

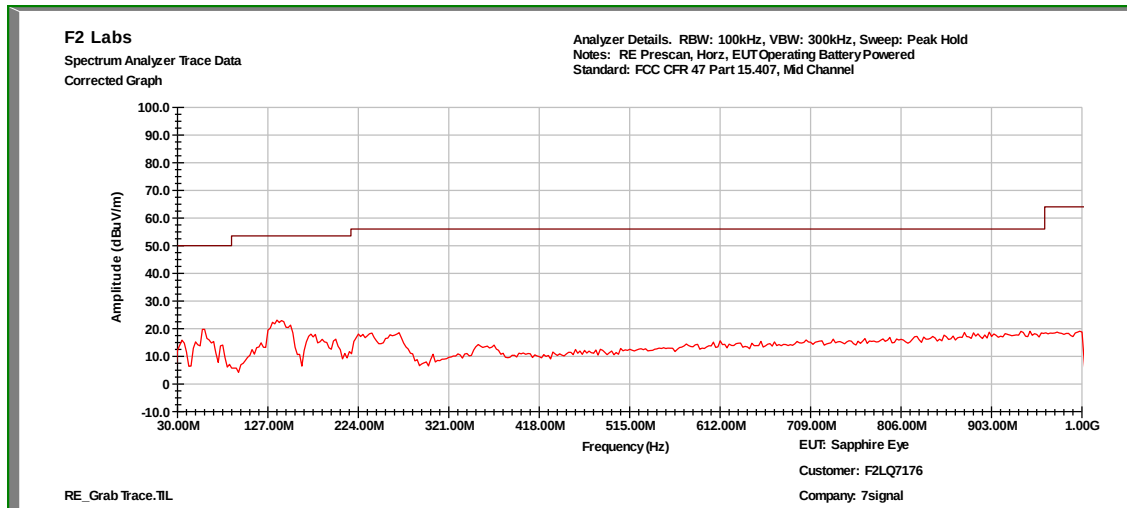
FCC ID: YLFSE2100WL

**5.47-5.725 Band,40M UNII 2C:  
Mid Channel: 26G to 40G, Vertical**

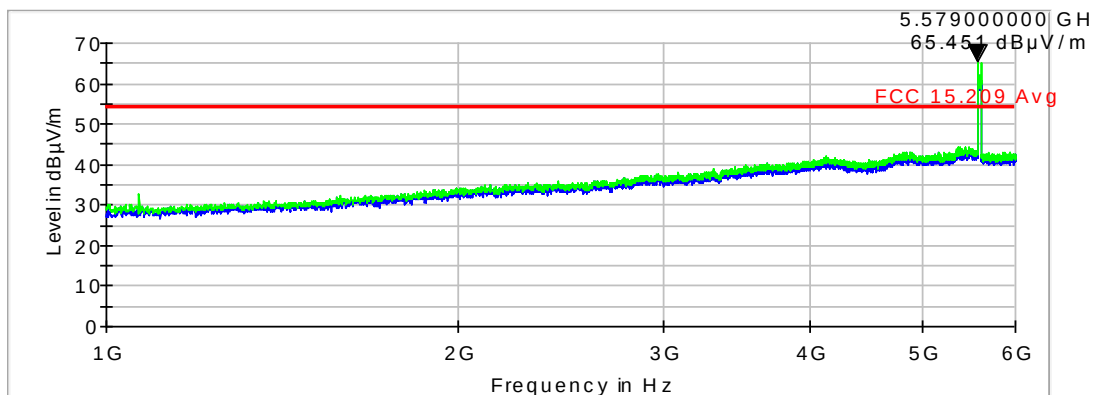




**5.47-5.725 Band, 40M UNII 2C:  
Mid Channel: 30M to 1G, Horizontal**

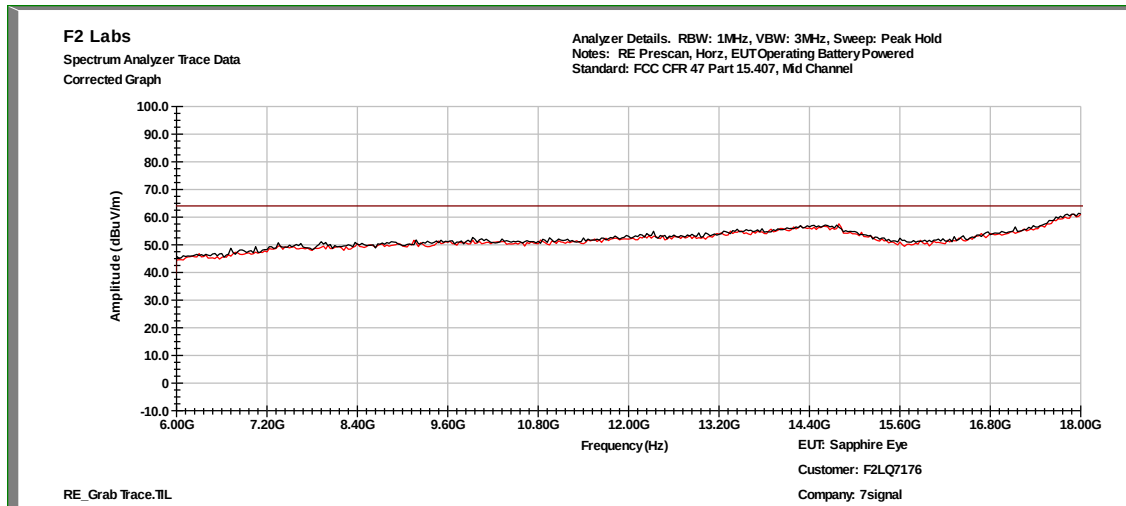


**5.47-5.725 Band, 40M UNII 2C:  
Mid Channel: 1G to 6G, Horizontal**

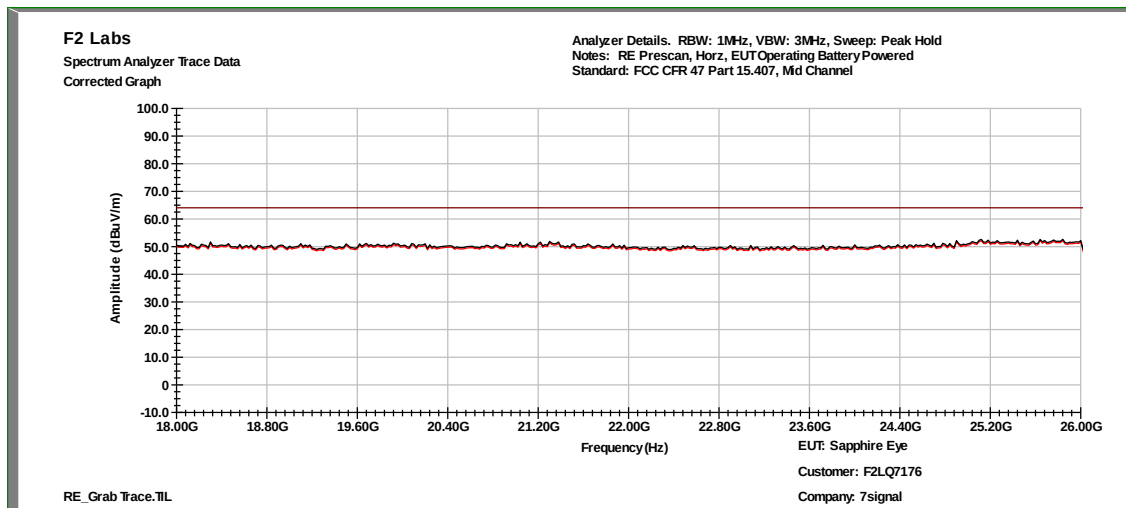




**5.47-5.725 Band,40M UNII 2C:**  
**Mid Channel: 6G to 18G, Horizontal**



**5.47-5.725 Band,40M UNII 2C:**  
**Mid Channel: 18G to 26G, Horizontal**



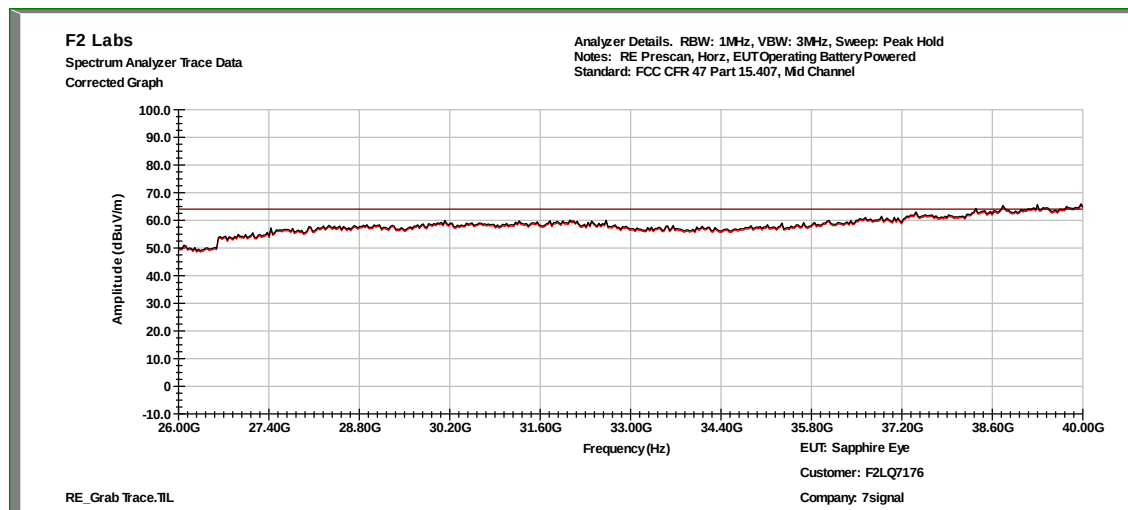


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

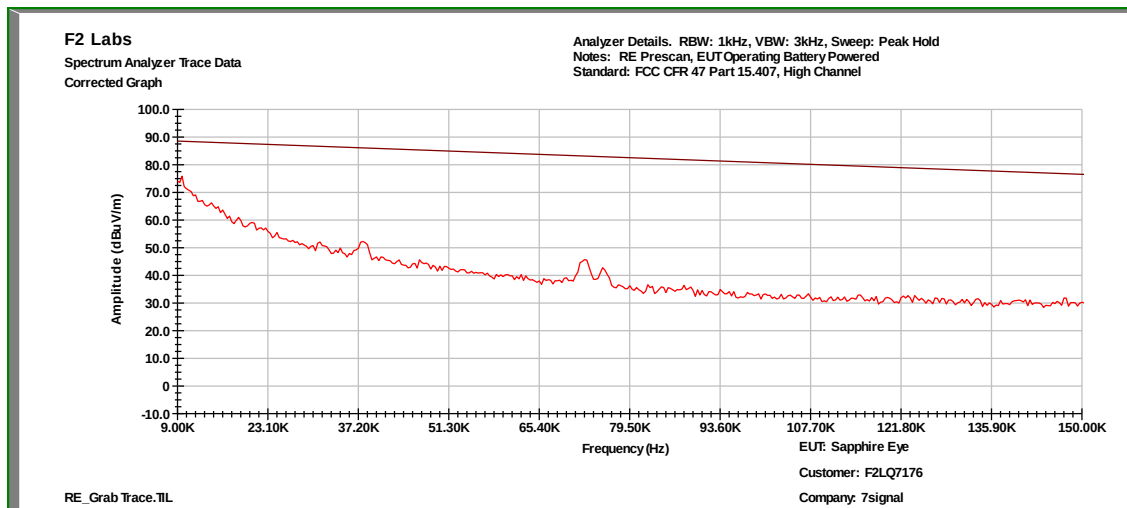
FCC ID: YLFSE2100WL

**5.47-5.725 Band,40M UNII 2C:  
Mid Channel: 26G to 40G, Horizontal**

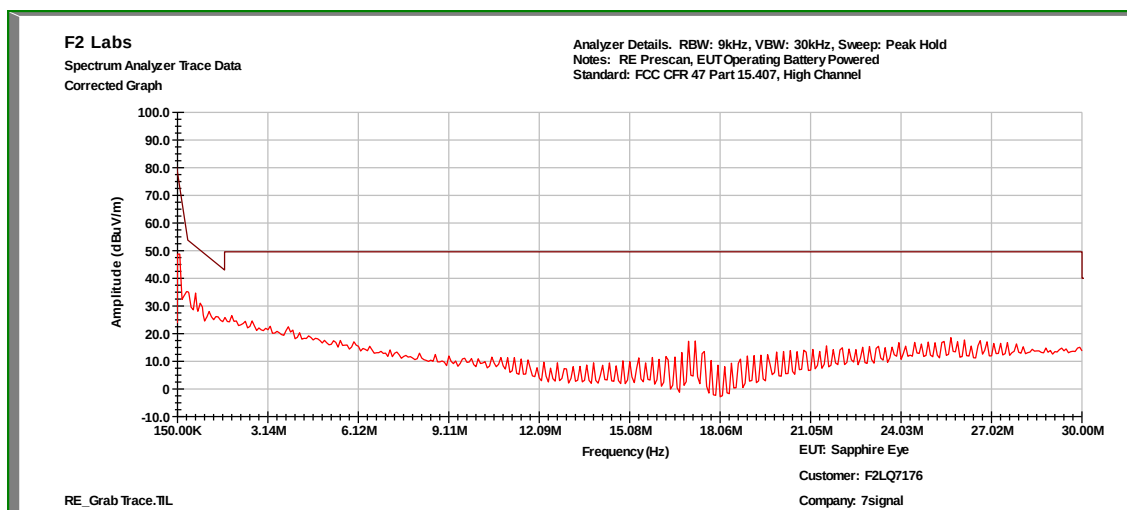




**5.47-5.725 Band,40M UNII 2C:**  
**High Channel: 9k to 150k**

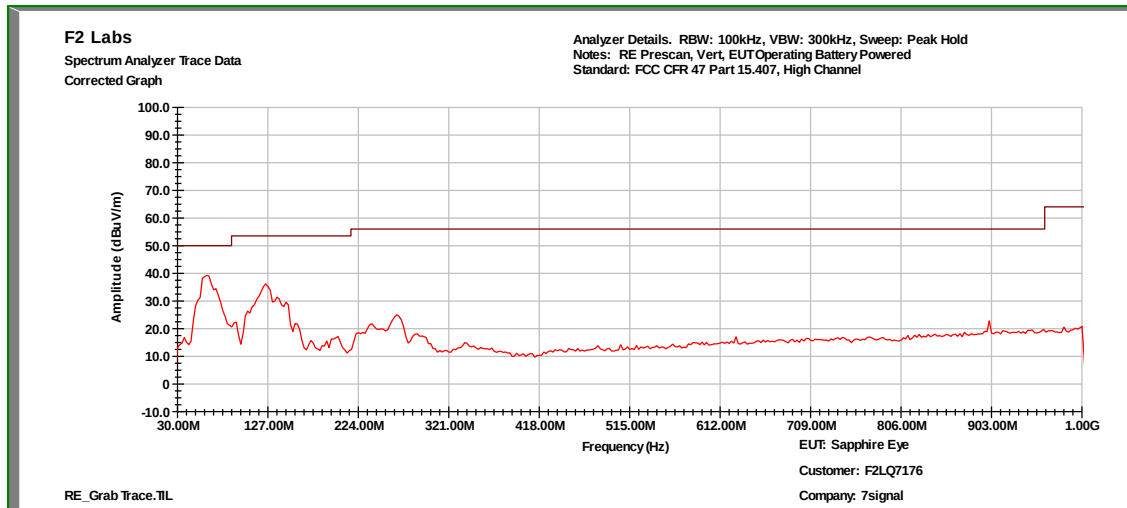


**55.47-5.725 Band,40M UNII 2C:**  
**High Channel: 150k to 30M**

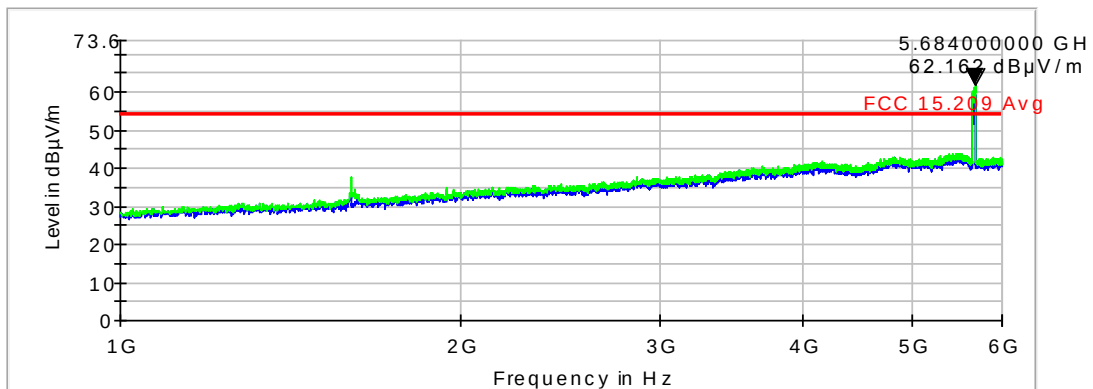




**5.47-5.725 Band, 40M UNII 2C:  
High Channel: 30M to 1G, Vertical**

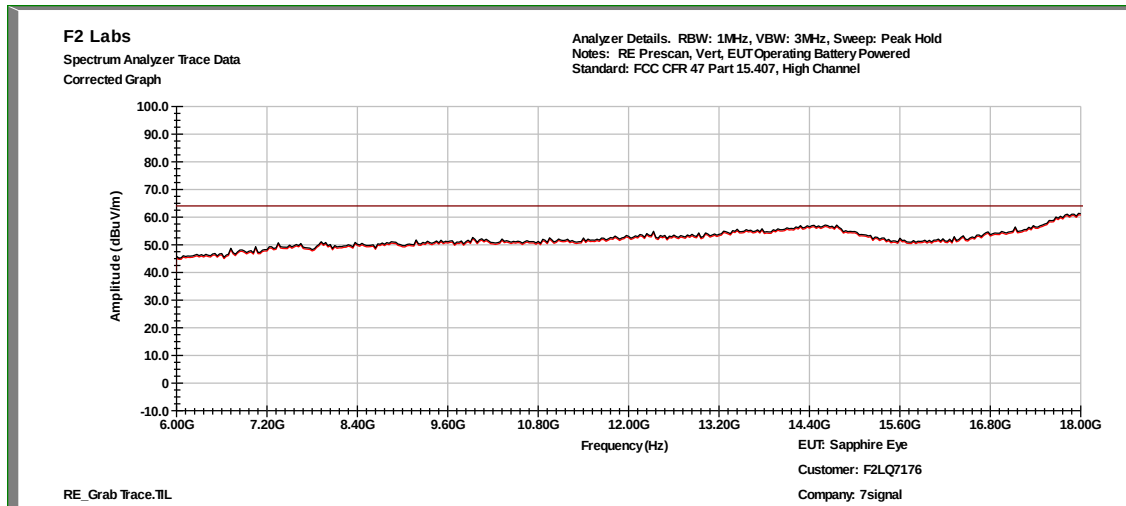


**5.47-5.725 Band, 40M UNII 2C:  
High Channel: 1G to 6, Vertical**

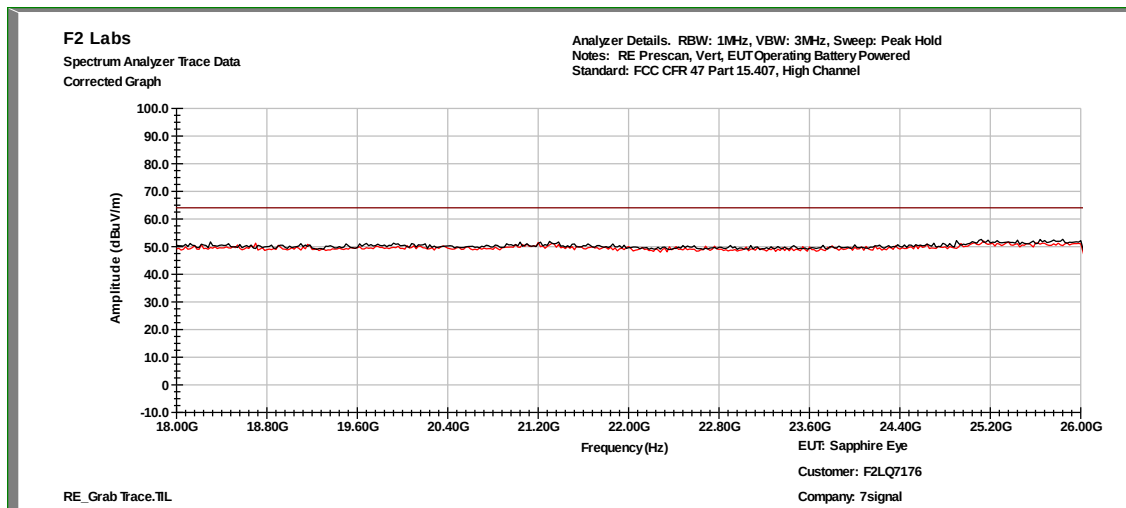




**5.47-5.725 Band,40M UNII 2C:  
High Channel: 6G to 18G, Vertical**



**5.47-5.725 Band,40M UNII 2C:  
High Channel: 18G to 26G, Vertical**



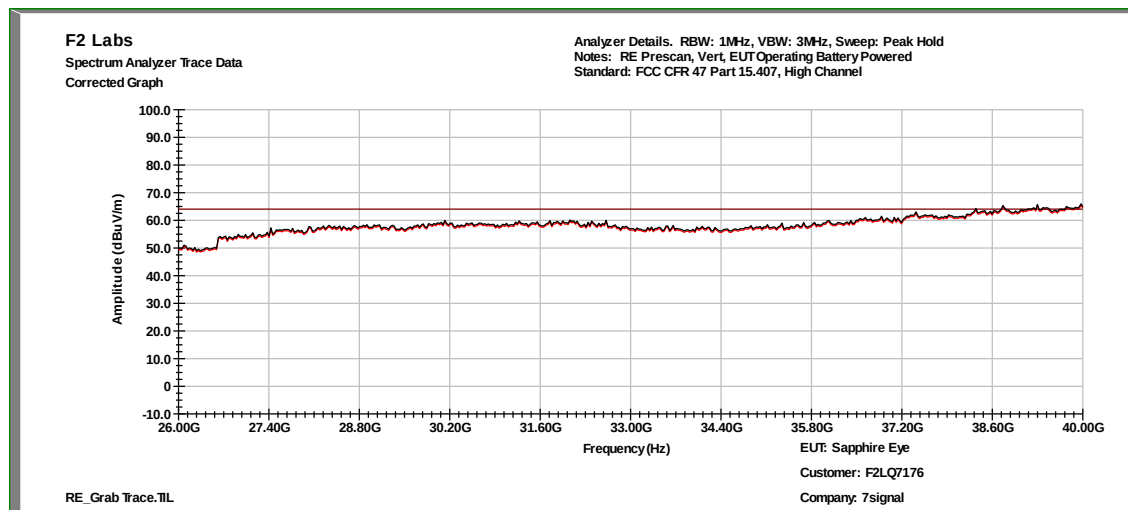


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

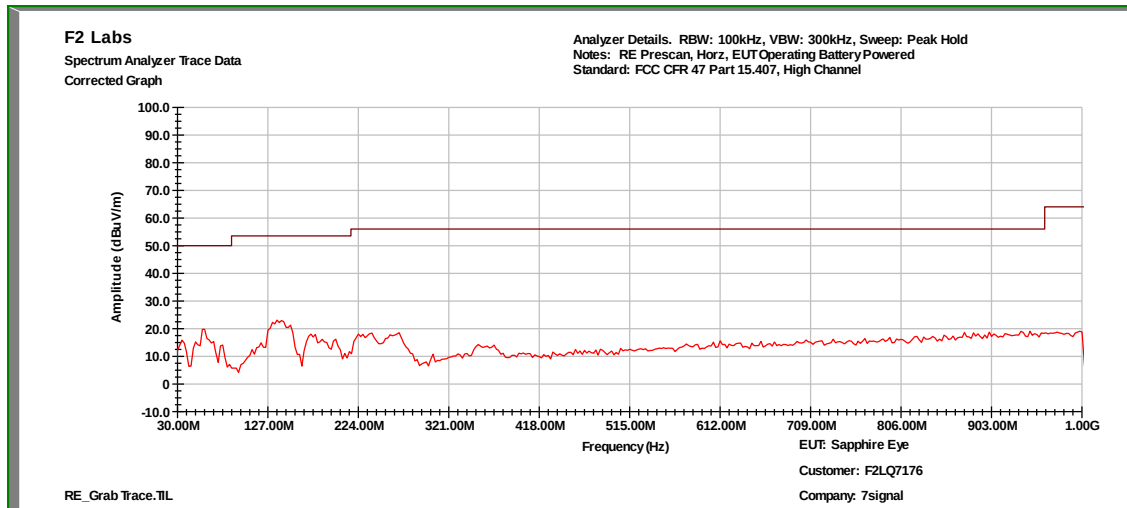
FCC ID: YLFSE2100WL

**5.47-5.725 Band, 40M UNII 2C:  
High Channel: 26G to 40G, Vertical**

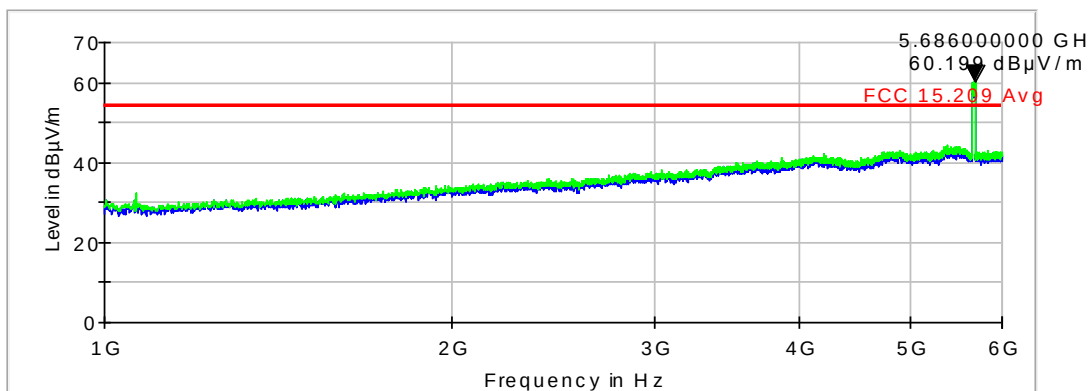




**5.47-5.725 Band, 40M UNII 2C:  
High Channel: 30M to 1G, Horizontal**

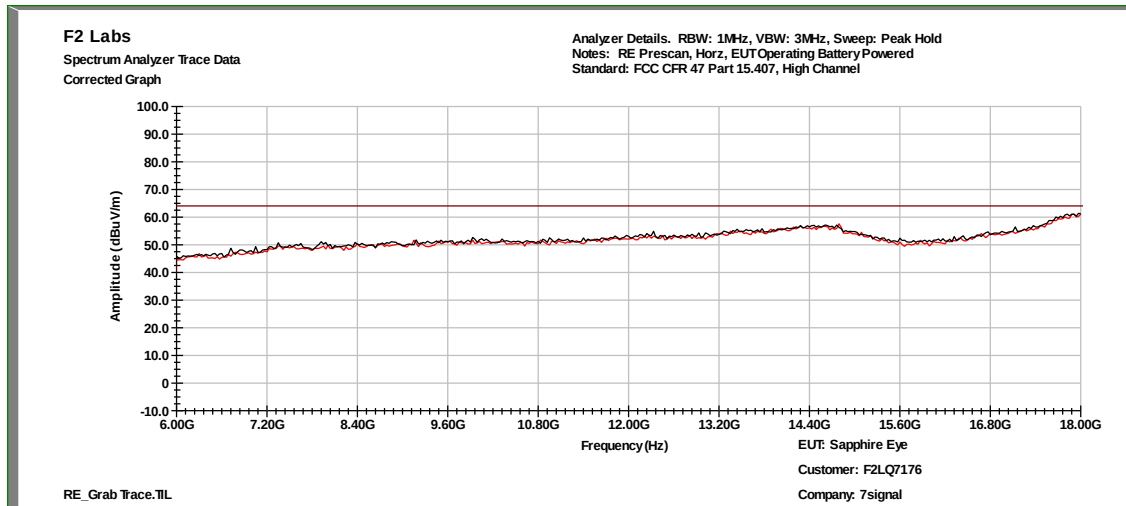


**5.47-5.725 Band, 40M UNII 2C:  
High Channel: 1G to 6G, Horizontal**

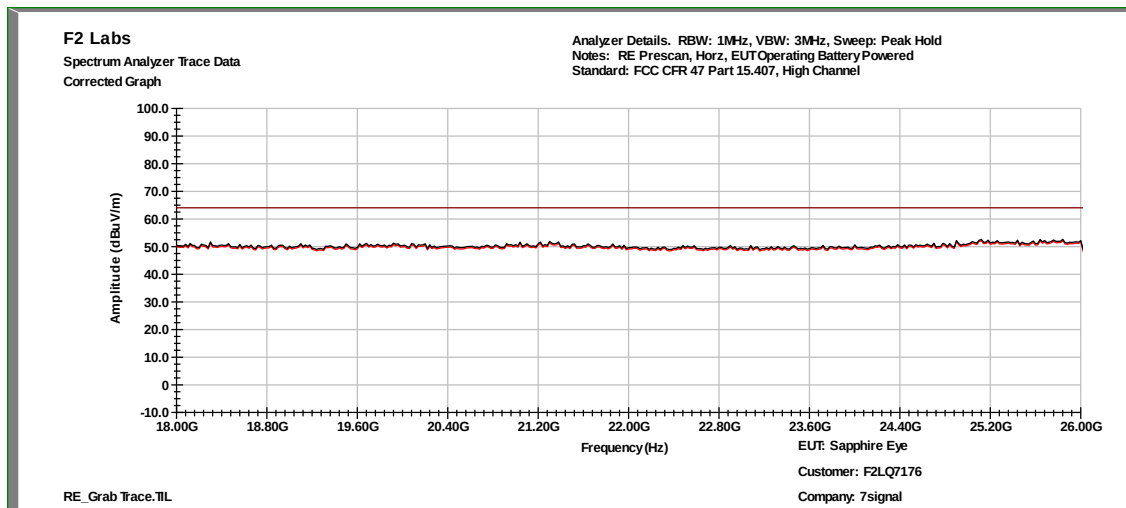




**5.47-5.725 Band,40M UNII 2C:  
High Channel: 6G to 18G, Horizontal**



**5.47-5.725 Band,40M UNII 2C:  
High Channel: 18G to 26G, Horizontal**



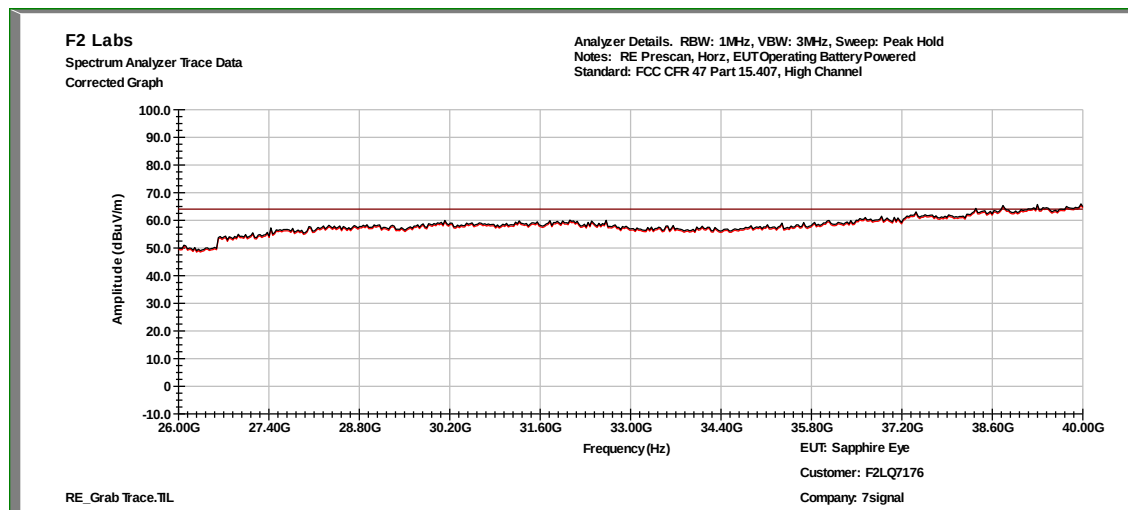


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

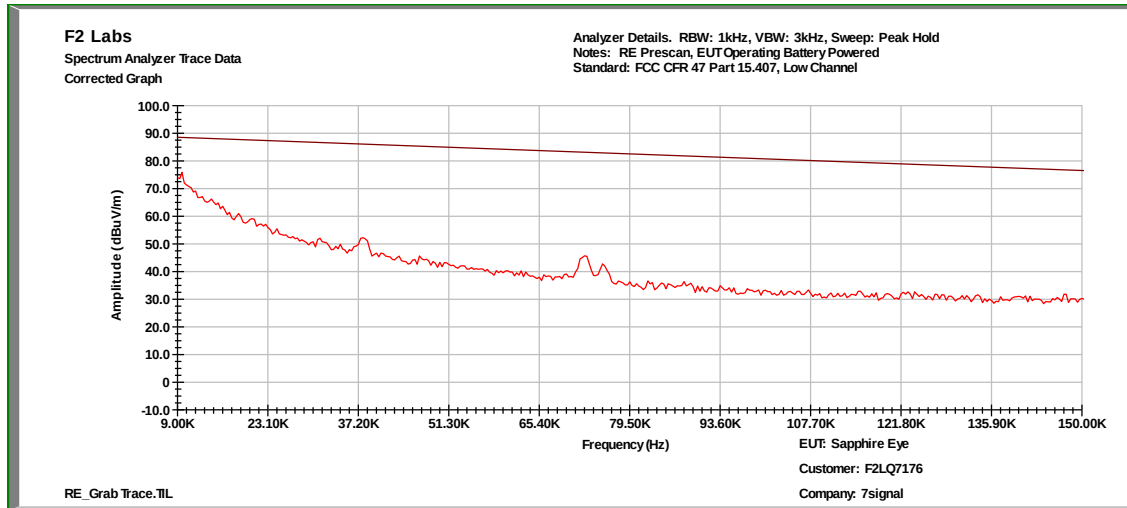
FCC ID: YLFSE2100WL

**5.47-5.725 Band,40M UNII 2C:  
High Channel: 26G to 40G, Horizontal**

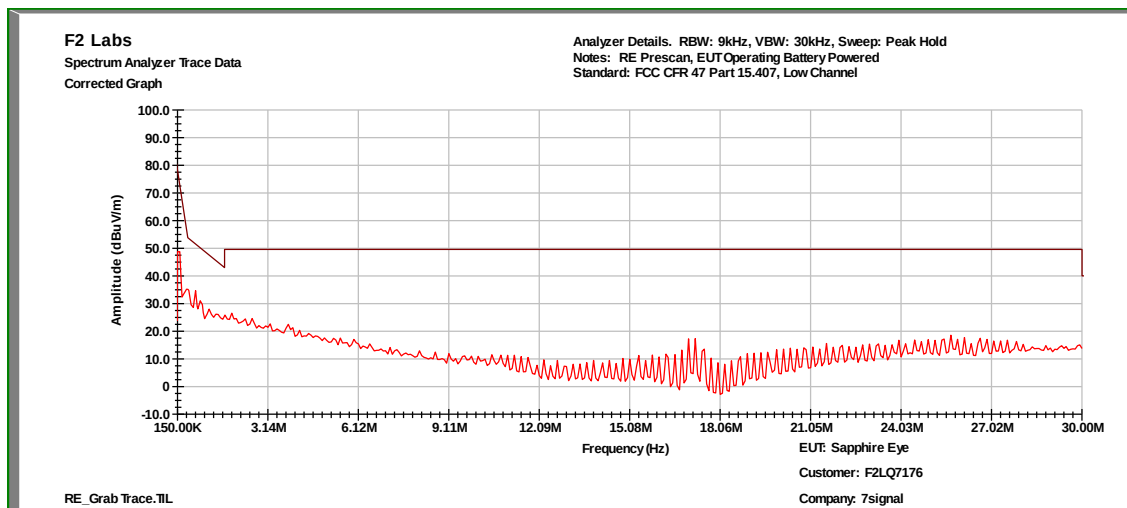




**5.47-5.725 Band, 80M:  
Low Channel: 9k to 150k**

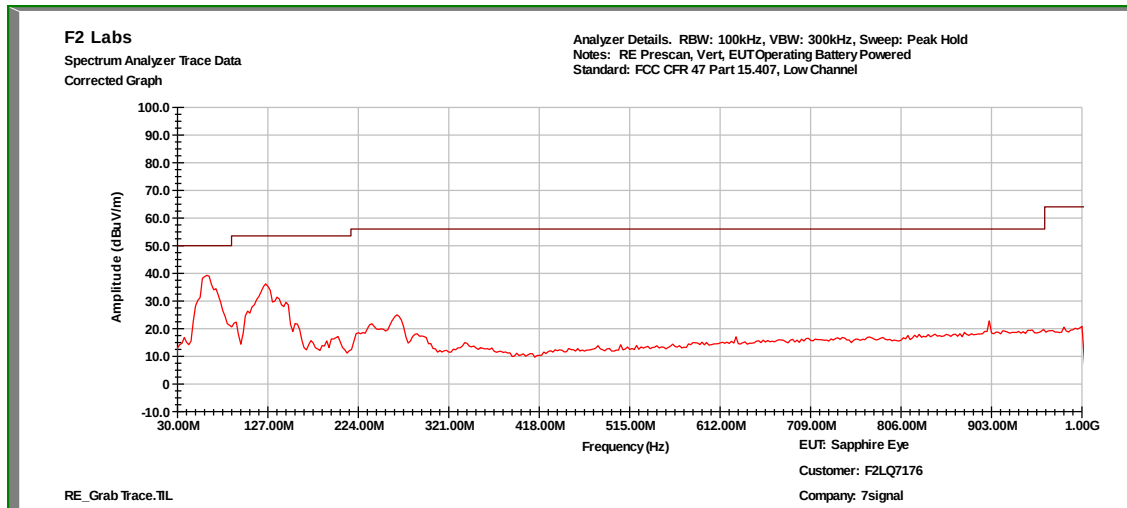


**5.47-5.725 Band, 80M:  
Low Channel: 150k to 30M**

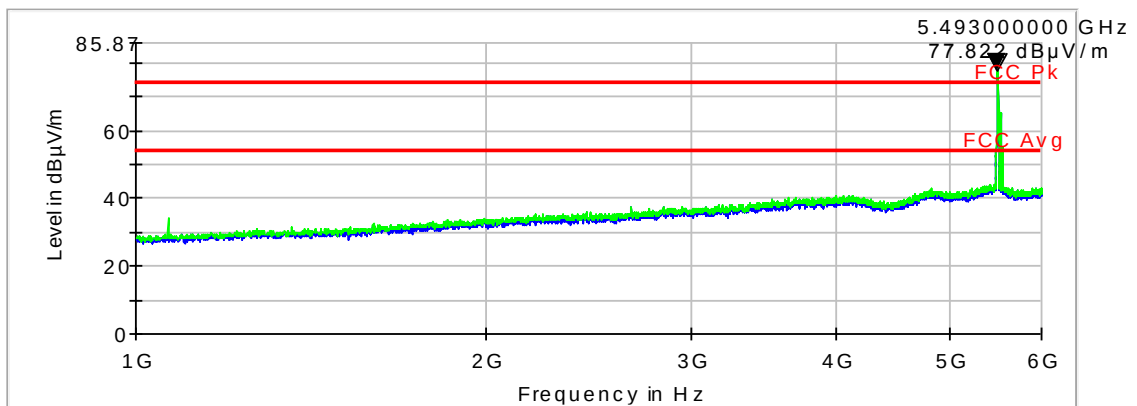




**5.47-5.725 Band, 80M:  
Low Channel: 30M to 1G, Vertical**

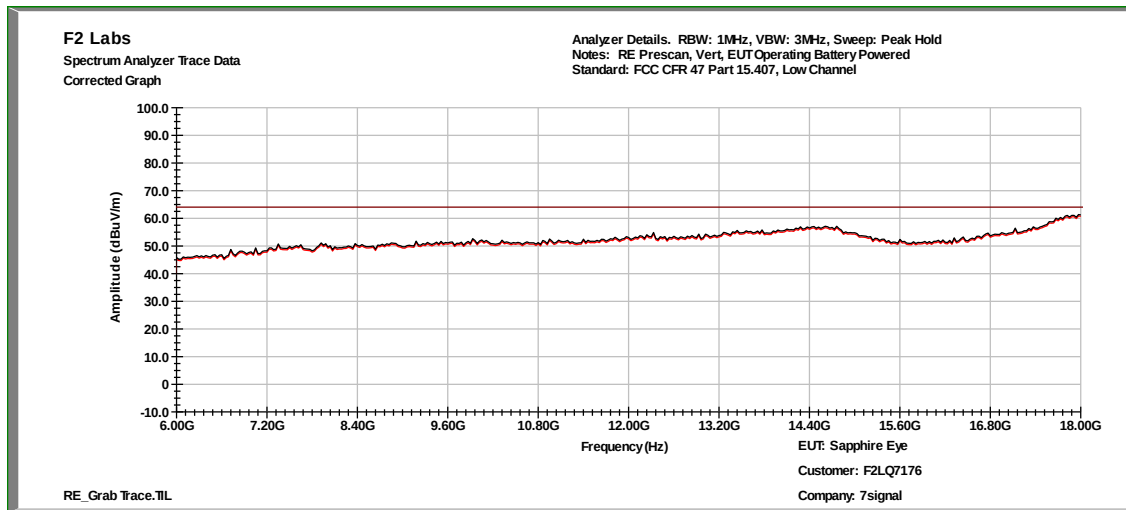


**5.47-5.725 Band, 80M:  
Low Channel: 1G to 6G, Vertical**

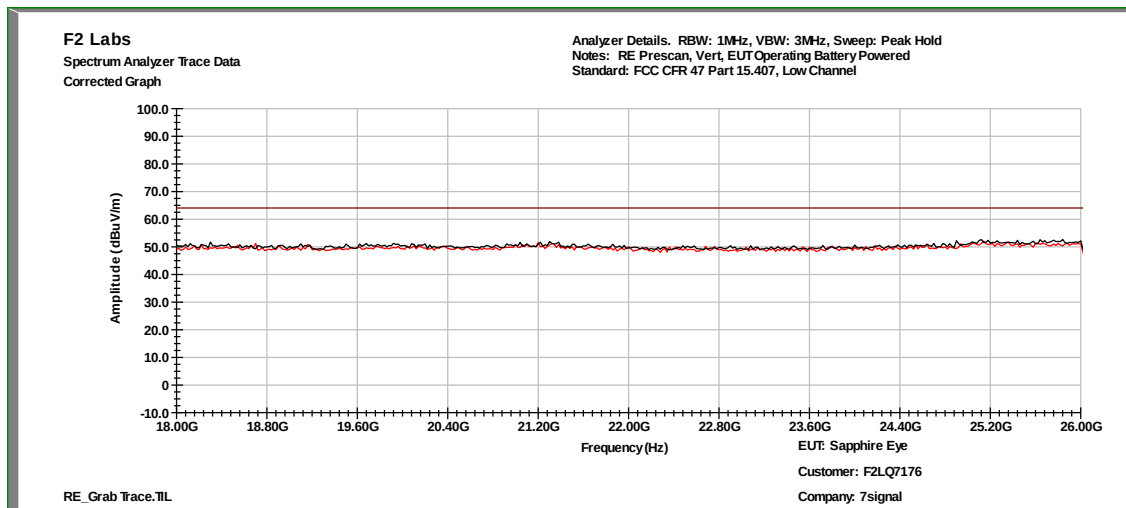




**5.47-5.725 Band, 80M:  
Low Channel: 6G to 18G, Vertical**



**5.47-5.725 Band, 80M:  
Low Channel: 18G to 26G, Vertical**



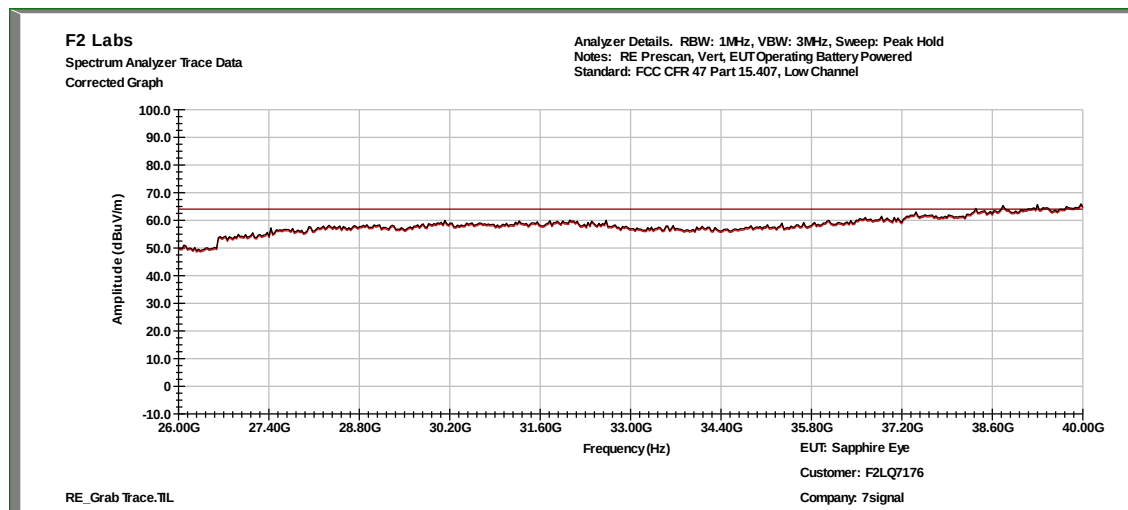


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

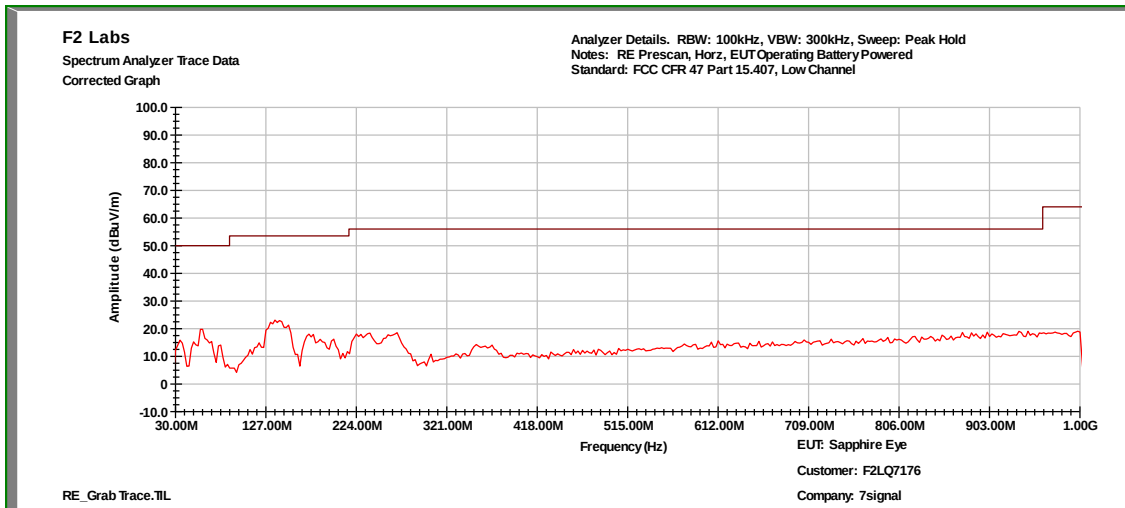
FCC ID: YLFSE2100WL

5.47-5.725 Band, 80M:  
Low Channel: 26G to 40G, Vertical

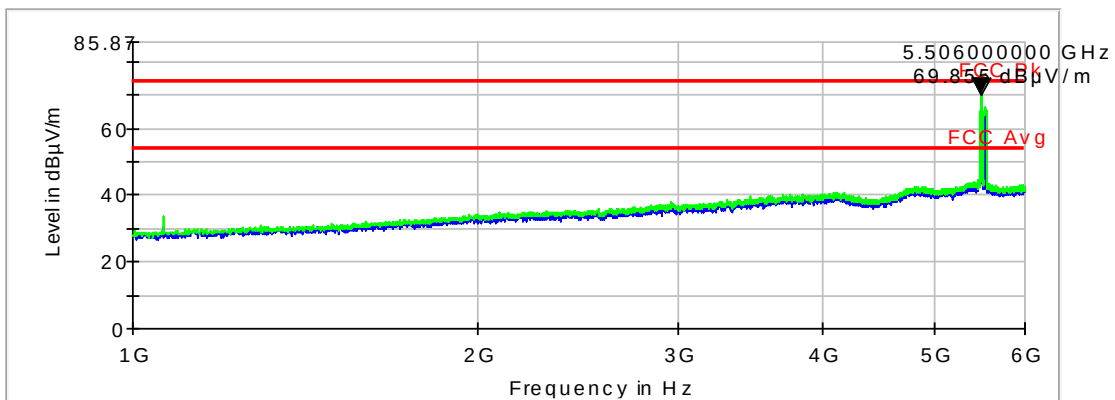




**5.47-5.725 Band, 80M:  
Low Channel: 30M to 1G, Horizontal**

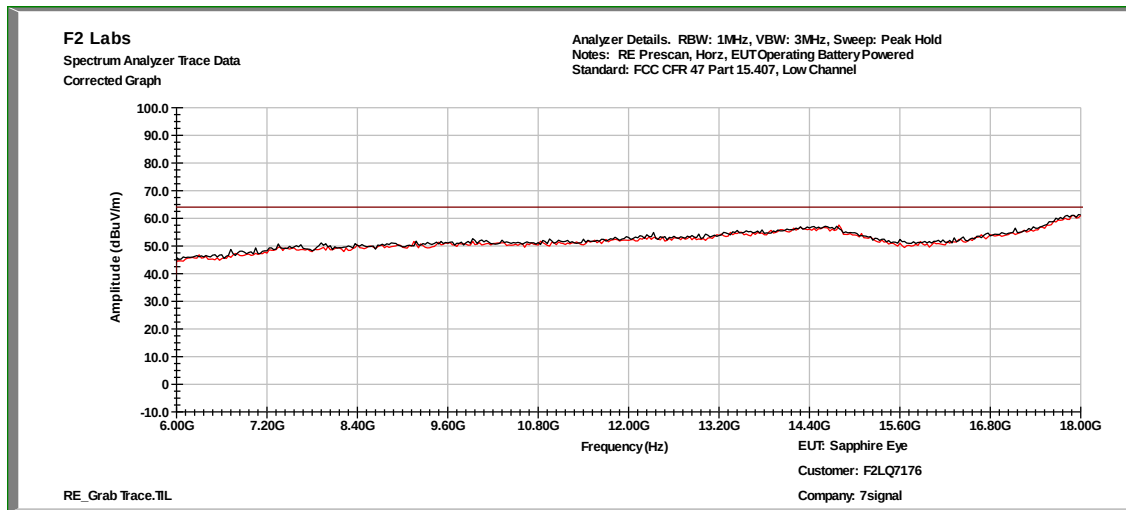


**5.47-5.725 Band, 80M:  
Low Channel: 1G to 6G, Horizontal**

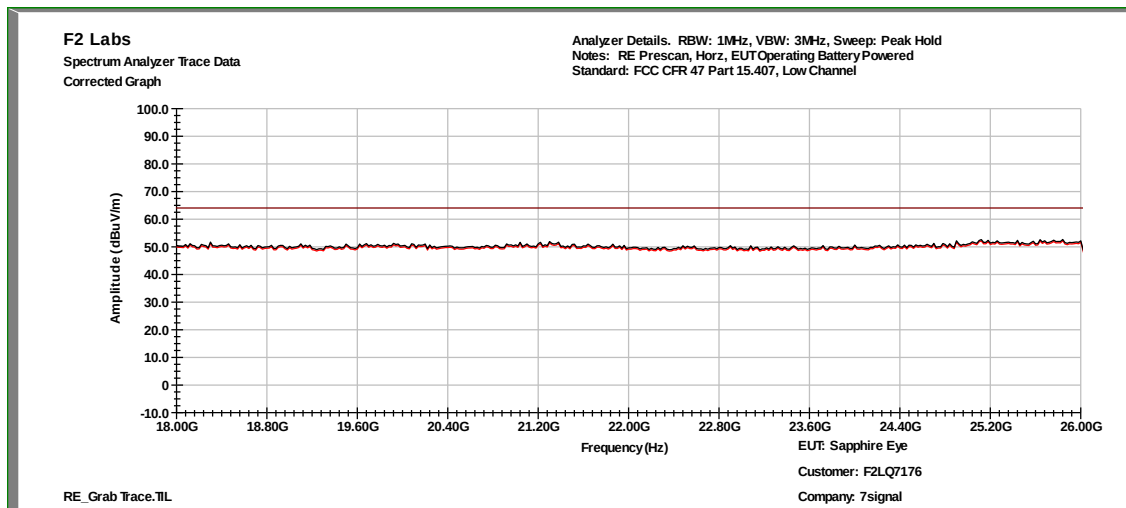




**5.47-5.725 Band, 80M:  
Low Channel: 6G to 18G, Horizontal**



**5.47-5.725 Band, 80M:  
Low Channel: 18G to 26G, Horizontal**



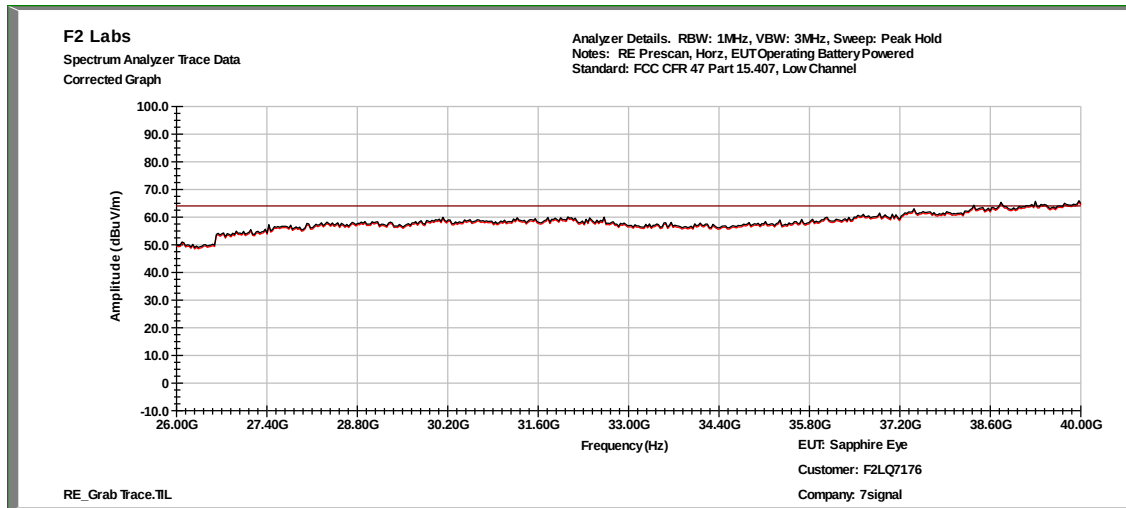


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

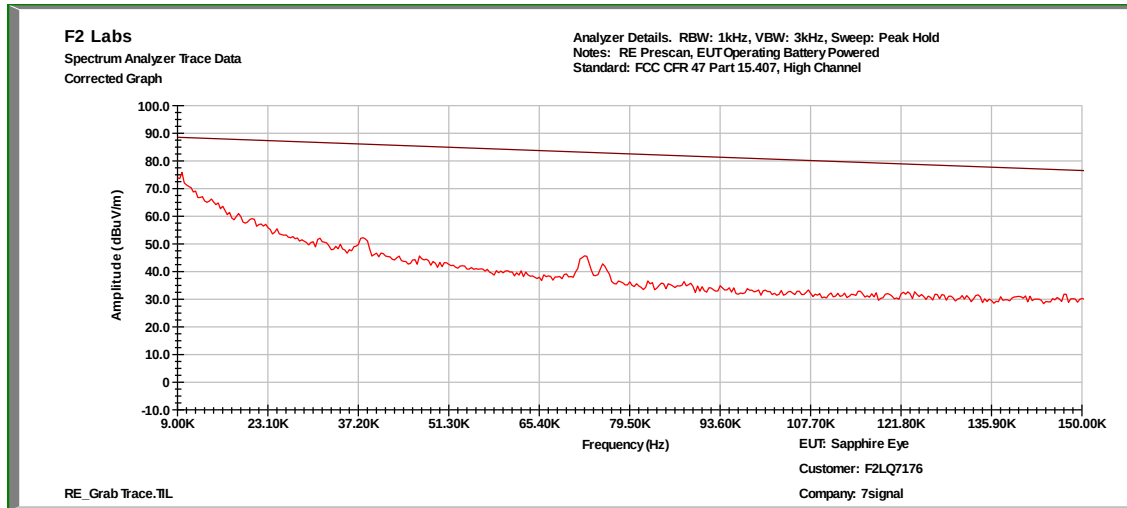
FCC ID: YLFSE2100WL

**5.47-5.725 Band, 80M:  
Low Channel: 26G to 40G, Horizontal**

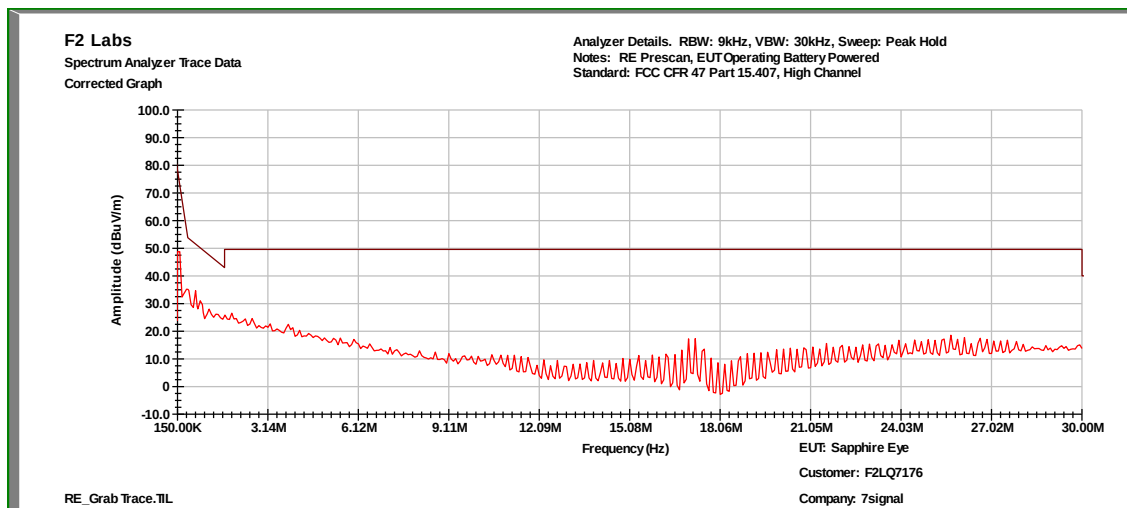




**5.47-5.725 Band, 80M:  
High Channel: 9k to 150k**

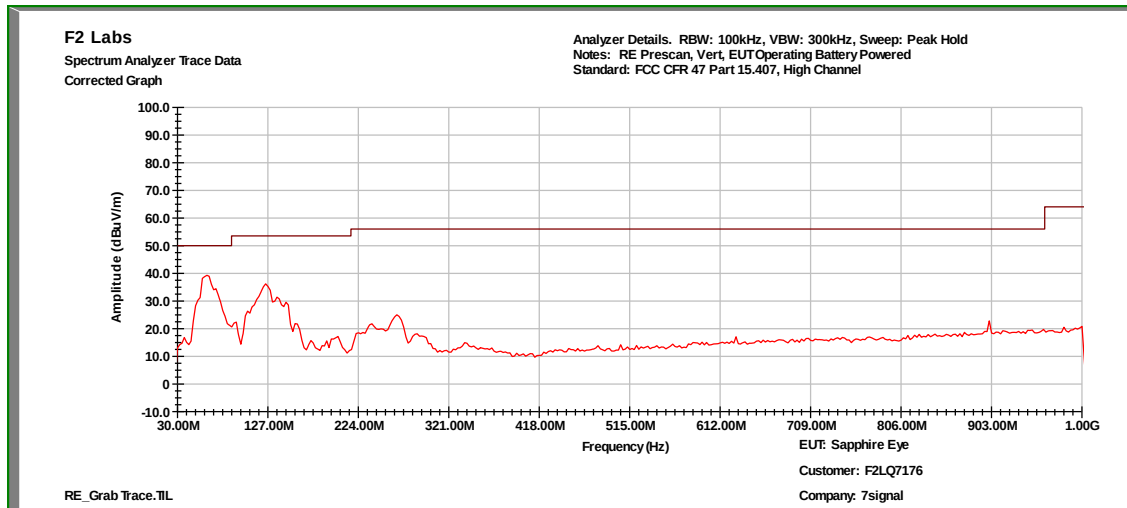


**5.47-5.725 Band, 80M:  
High Channel: 150k to 30M**

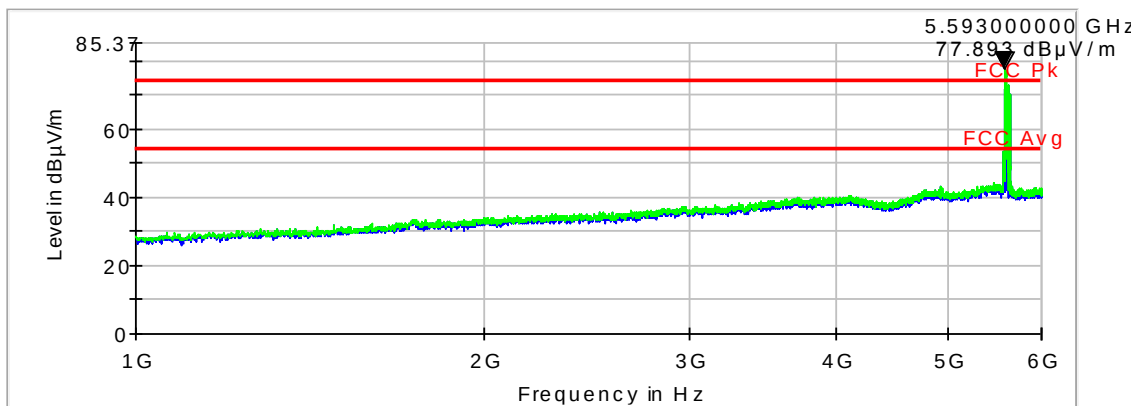




**5.47-5.725 Band, 80M:  
High Channel: 30M to 1G, Vertical**

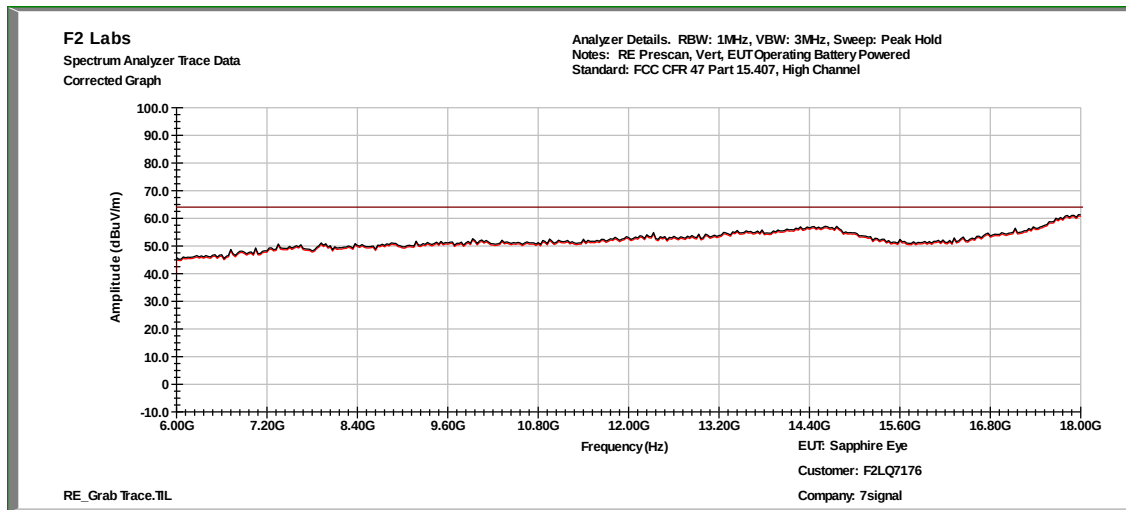


**5.47-5.725 Band, 80M:  
High Channel: 1G to 6G, Vertical**

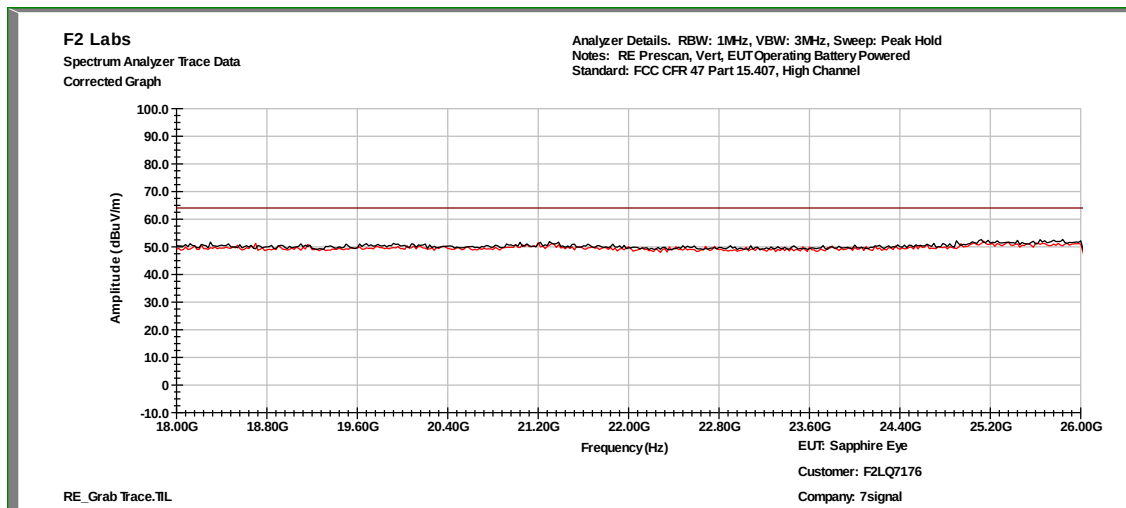




**5.47-5.725 Band, 80M:  
High Channel: 6G to 18G, Vertical**



**5.47-5.725 Band, 80M:  
High Channel: 18G to 26G, Vertical**



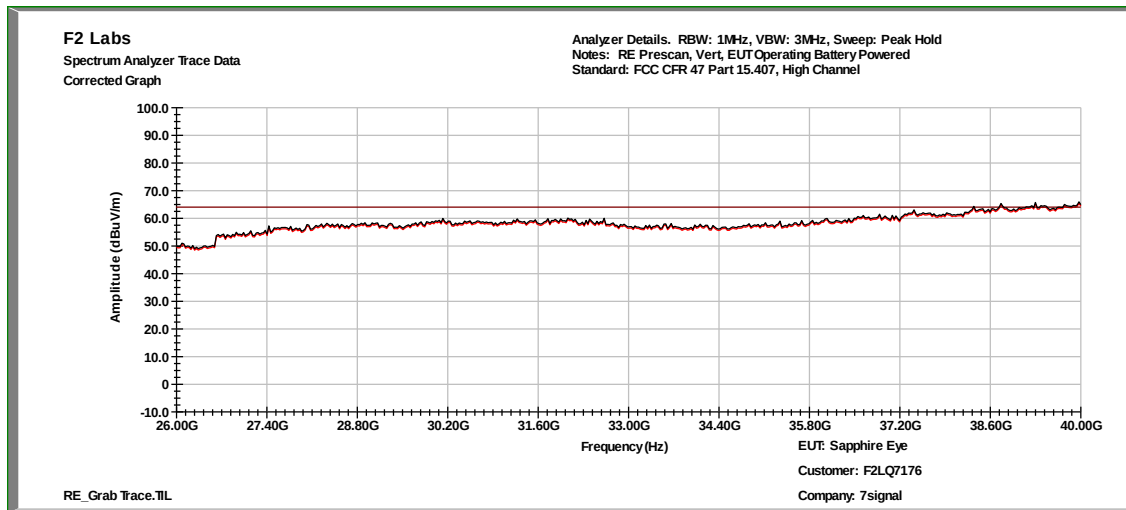


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

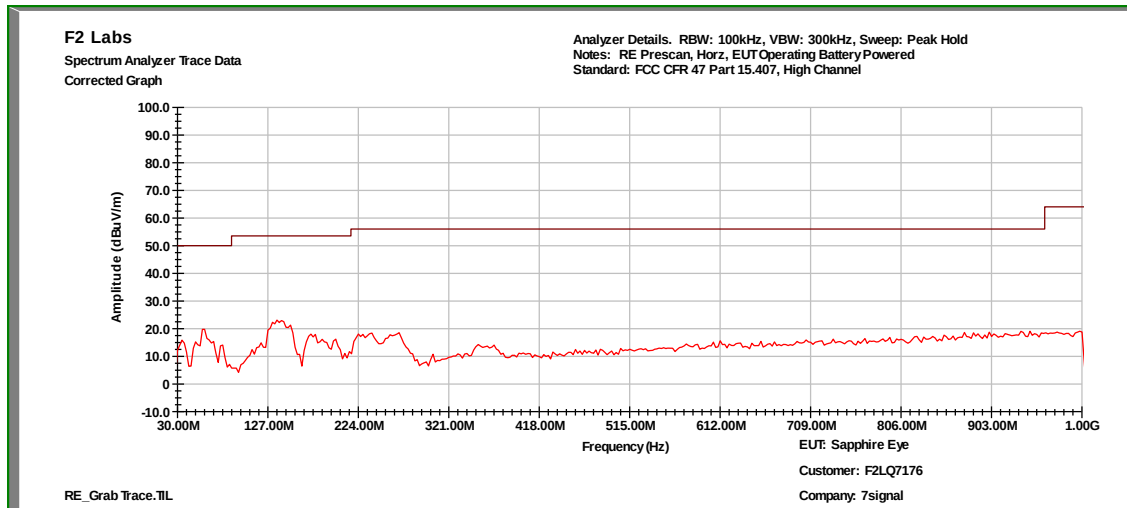
FCC ID: YLFSE2100WL

**5.47-5.725 Band, 80M:  
High Channel: 26G to 40G, Vertical**

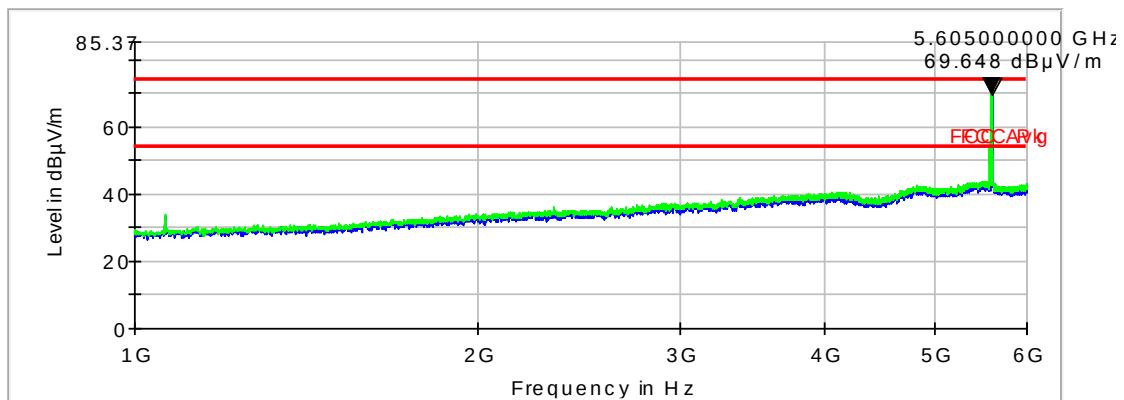




**5.47-5.725 Band, 80M:  
High Channel: 30M to 1G, Horizontal**

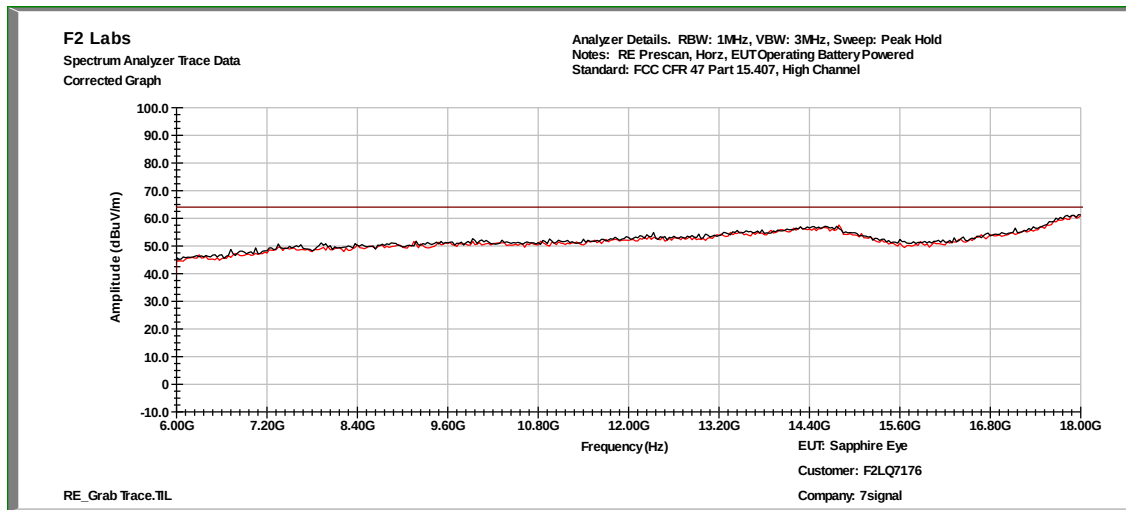


**5.47-5.725 Band, 80M:  
High Channel: 1G to 6G, Horizontal**

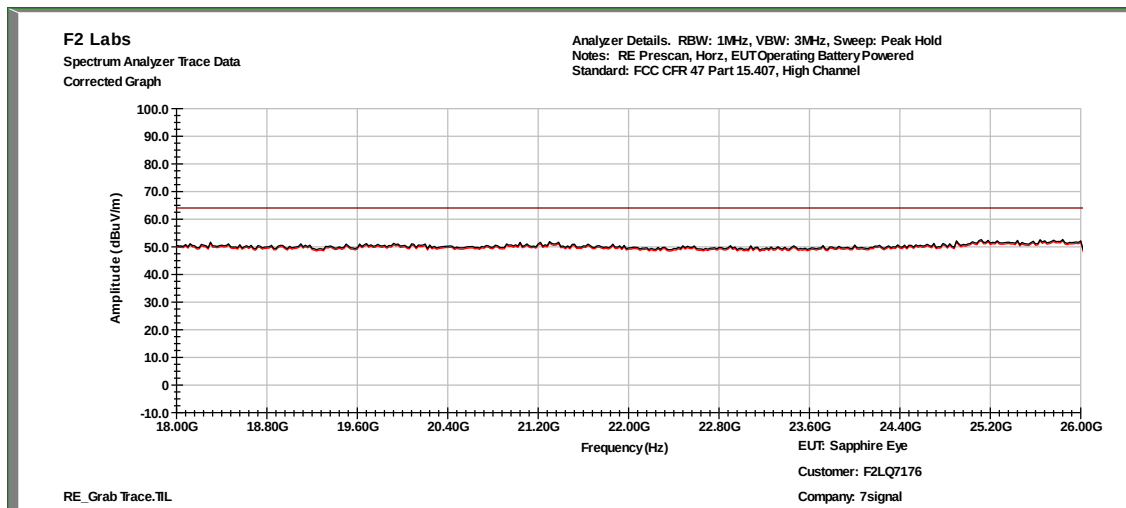




**5.47-5.725 Band, 80M:  
High Channel: 6G to 18G, Horizontal**



**5.47-5.725 Band, 80M:  
High Channel: 18G to 26G, Horizontal**



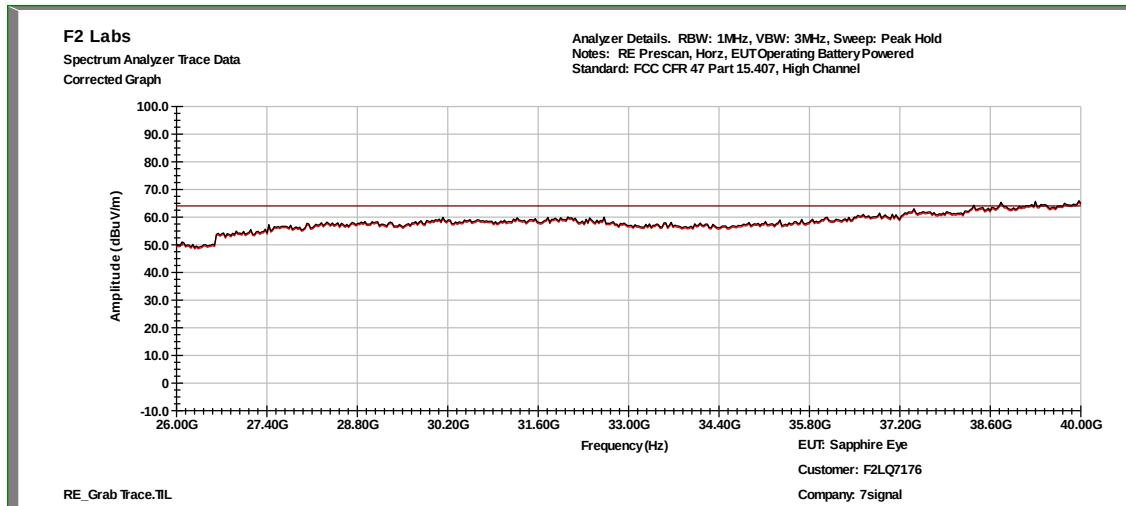


Order Number: F2LQ7176

Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

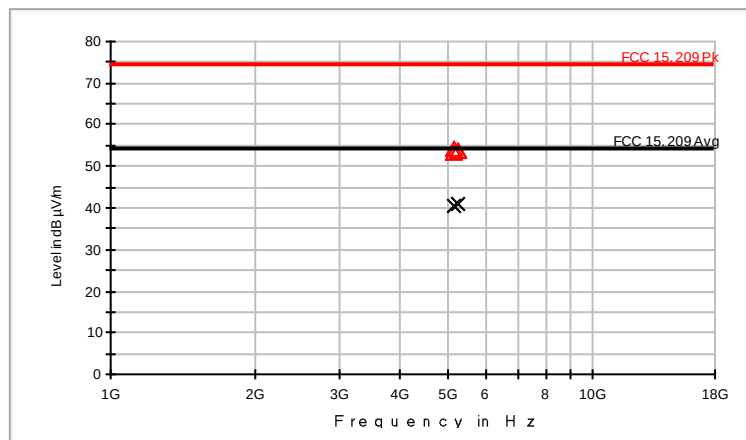
**5.47-5.725 Band, 80M:  
High Channel: 26G to 40G, Horizontal**





## Measurements

## 5.1 GHz, 20M, Low Channel



## 5.1 GHz, 20M, Low Channel - MaxPeak

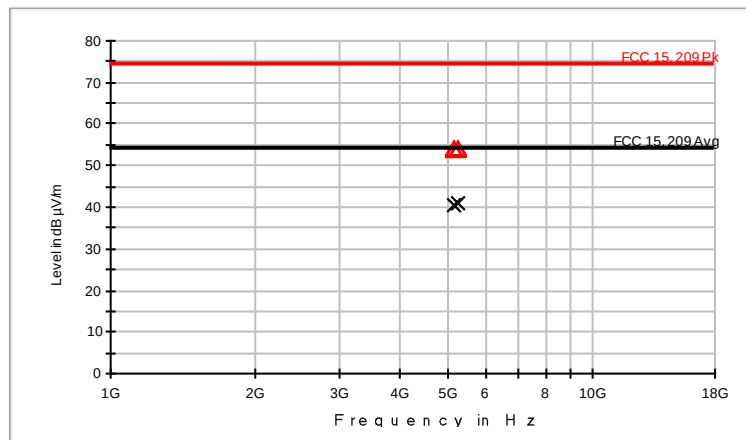
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5149.000000     | V                    | 35.0           | 18.6                             | 53.60             | 74.0           | -20.4       |
| 5149.000000     | H                    | 35.9           | 18.6                             | 54.50             | 74.0           | -19.5       |
| 5251.000000     | V                    | 35.3           | 18.7                             | 54.00             | 74.0           | -20.0       |
| 5251.000000     | H                    | 35.2           | 18.7                             | 53.90             | 74.0           | -20.1       |

## 5.1 GHz, 20M, Low Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5149.000000     | V                    | 21.9           | 18.6                             | 40.50             | 54.0           | -13.5       |
| 5149.000000     | H                    | 21.9           | 18.6                             | 40.50             | 54.0           | -13.5       |
| 5251.000000     | V                    | 22.2           | 18.7                             | 40.90             | 54.0           | -13.1       |
| 5251.000000     | H                    | 22.2           | 18.7                             | 40.90             | 54.0           | -13.1       |



## 5.1 GHz, 20M, Mid Channel



## 5.1 GHz, 20M, Mid Channel – MaxPeak

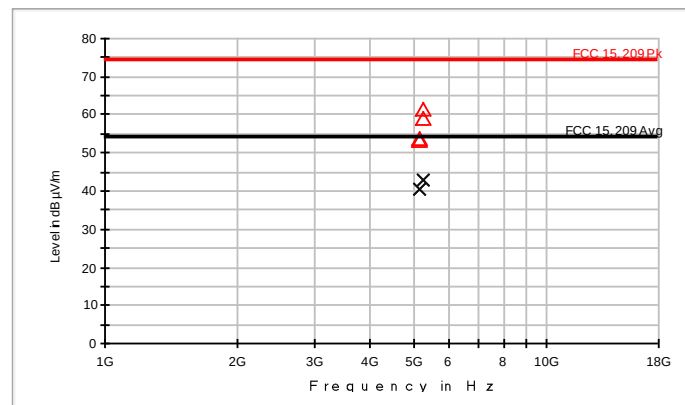
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5149.000000     | H                    | 35.7           | 18.6                             | 54.30             | 74.0           | -19.7       |
| 5149.000000     | V                    | 35.6           | 18.6                             | 54.20             | 74.0           | -19.8       |
| 5251.000000     | H                    | 35.6           | 18.7                             | 54.30             | 74.0           | -19.7       |
| 5251.000000     | V                    | 35.2           | 18.7                             | 53.90             | 74.0           | -20.1       |

## 5.1 GHz, 20M, Mid Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5149.000000     | H                    | 21.9           | 18.6                             | 40.50             | 54.0           | -13.5       |
| 5149.000000     | V                    | 21.9           | 18.6                             | 40.50             | 54.0           | -13.5       |
| 5251.000000     | H                    | 22.2           | 18.7                             | 40.90             | 54.0           | -13.1       |
| 5251.000000     | V                    | 22.2           | 18.7                             | 40.90             | 54.0           | -13.1       |



## 5.1 GHz, 20M, High Channel



## 5.1 GHz, 20M, High Channel - MaxPeak

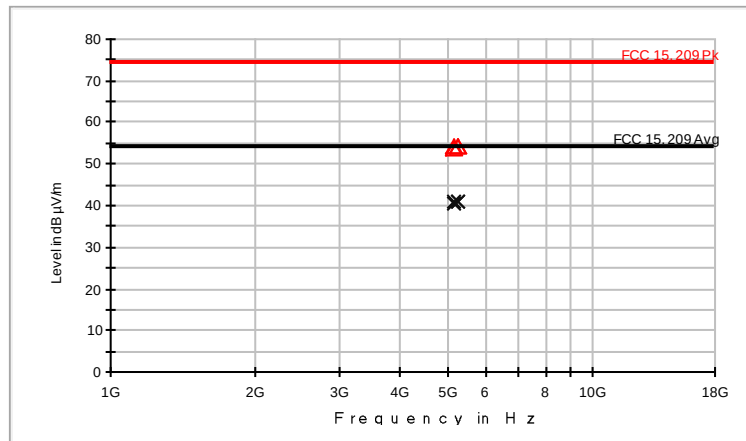
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5149.000000     | V                    | 34.7           | 18.6                             | 53.30             | 74.0           | -20.7       |
| 5149.000000     | H                    | 35.4           | 18.6                             | 54.00             | 74.0           | -20.0       |
| 5251.000000     | V                    | 43.0           | 18.7                             | 61.70             | 74.0           | -12.3       |
| 5251.000000     | H                    | 40.5           | 18.7                             | 59.20             | 74.0           | -14.8       |

## 5.1 GHz, 20M, High Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5149.000000     | V                    | 21.8           | 18.6                             | 40.40             | 54.0           | -13.6       |
| 5149.000000     | H                    | 21.8           | 18.6                             | 40.40             | 54.0           | -13.6       |
| 5251.000000     | V                    | 24.1           | 18.7                             | 42.80             | 54.0           | -11.2       |
| 5251.000000     | H                    | 24.1           | 18.7                             | 42.80             | 54.0           | -11.2       |



## 5.1 GHz, 40M, Low Channel



## 5.1 GHz, 40M, Low Channel - MaxPeak

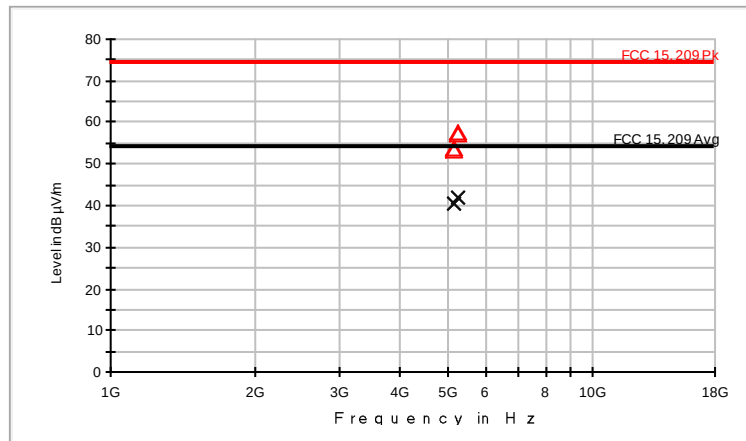
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5149.000000     | V                    | 35.2           | 18.6                             | 53.80             | 74.0           | -20.2       |
| 5149.000000     | H                    | 35.9           | 18.6                             | 54.50             | 74.0           | -19.5       |
| 5251.000000     | V                    | 36.0           | 18.7                             | 54.70             | 74.0           | -19.3       |
| 5251.000000     | H                    | 35.6           | 18.7                             | 54.30             | 74.0           | -19.7       |

## 5.1 GHz, 40M, Low Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5149.000000     | V                    | 22.1           | 18.6                             | 40.70             | 54.0           | -13.3       |
| 5149.000000     | H                    | 22.1           | 18.6                             | 40.70             | 54.0           | -13.3       |
| 5251.000000     | V                    | 22.4           | 18.7                             | 41.10             | 54.0           | -12.9       |
| 5251.000000     | H                    | 22.5           | 18.7                             | 41.20             | 54.0           | -12.8       |



## 5.1 GHz, 40M, High Channel



## 5.1 GHz, 40M, High Channel - MaxPeak

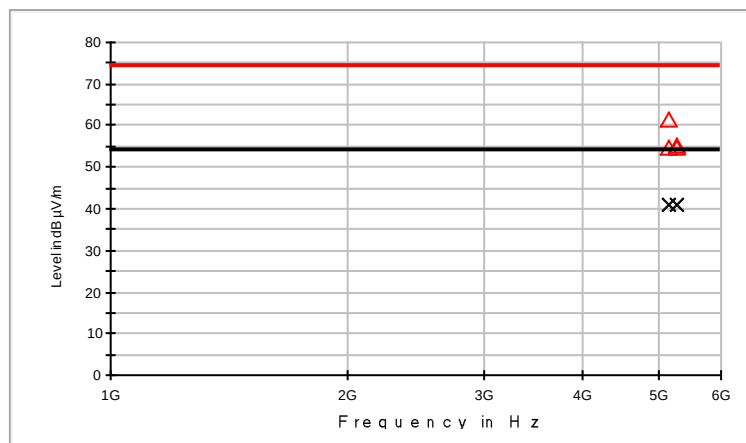
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5149.000000     | H                    | 35.1           | 18.6                             | 53.70             | 74.0           | -20.3       |
| 5149.000000     | V                    | 35.3           | 18.6                             | 53.90             | 74.0           | -20.1       |
| 5251.000000     | V                    | 38.8           | 18.7                             | 57.50             | 74.0           | -16.5       |
| 5251.000000     | H                    | 39.0           | 18.7                             | 57.70             | 74.0           | -16.3       |

## 5.1 GHz, 40M, High Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5149.000000     | H                    | 22.0           | 18.6                             | 40.60             | 54.0           | -13.4       |
| 5149.000000     | V                    | 22.0           | 18.6                             | 40.60             | 54.0           | -13.4       |
| 5251.000000     | V                    | 23.1           | 18.7                             | 41.80             | 54.0           | -12.2       |
| 5251.000000     | H                    | 23.2           | 18.7                             | 41.90             | 54.0           | -12.1       |



## 5.1 GHz, 80M



## 5.1 GHz, 80M - MaxPeak

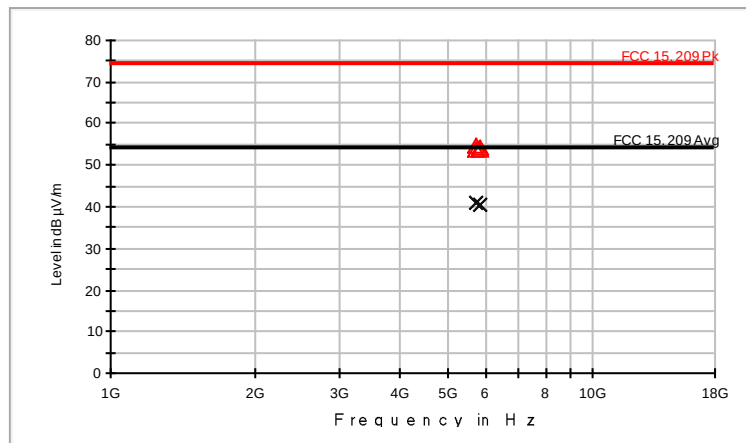
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5149.000000     | V                    | 43.1           | 18.6                             | 61.70             | 74.0           | -12.3       |
| 5149.000000     | H                    | 36.6           | 18.6                             | 55.20             | 74.0           | -18.8       |
| 5251.000000     | V                    | 36.5           | 18.7                             | 55.20             | 74.0           | -18.8       |
| 5251.000000     | H                    | 36.7           | 18.7                             | 55.40             | 74.0           | -18.6       |

## 5.1 GHz, 80M - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5140.000000     | V                    | 22.3           | 18.6                             | 40.90             | 54.0           | -13.1       |
| 5140.000000     | H                    | 22.3           | 18.6                             | 40.90             | 54.0           | -13.1       |
| 5260.000000     | V                    | 22.4           | 18.7                             | 41.10             | 54.0           | -12.9       |
| 5260.000000     | H                    | 22.4           | 18.7                             | 41.10             | 54.0           | -12.9       |



## 5.8 GHz, 20M, Low Channel



## 5.8 GHz, 20M, Low Channel - MaxPeak

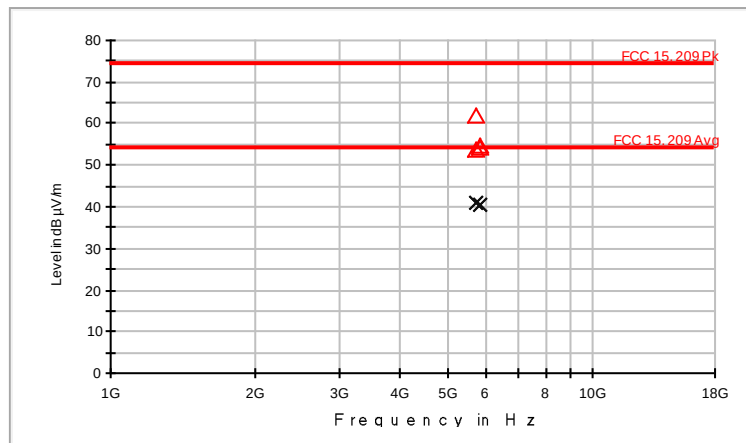
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.000000     | H                    | 35.7           | 19.2                             | 54.90             | 74.0           | -19.1       |
| 5724.000000     | V                    | 34.6           | 19.2                             | 53.80             | 74.0           | -20.2       |
| 5851.000000     | H                    | 34.8           | 19.4                             | 54.20             | 74.0           | -19.8       |
| 5851.000000     | V                    | 35.1           | 19.4                             | 54.50             | 74.0           | -19.5       |

## 5.8 GHz, 20M, Low Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.000000     | H                    | 21.6           | 19.2                             | 40.80             | 54.0           | -13.2       |
| 5724.000000     | V                    | 21.6           | 19.2                             | 40.80             | 54.0           | -13.2       |
| 5851.000000     | H                    | 21.2           | 19.4                             | 40.60             | 54.0           | -13.4       |
| 5851.000000     | V                    | 21.2           | 19.4                             | 40.60             | 54.0           | -13.4       |



## 5.8 GHz, 20M, Mid Channel



## 5.8 GHz, 20M, Mid Channel - MaxPeak

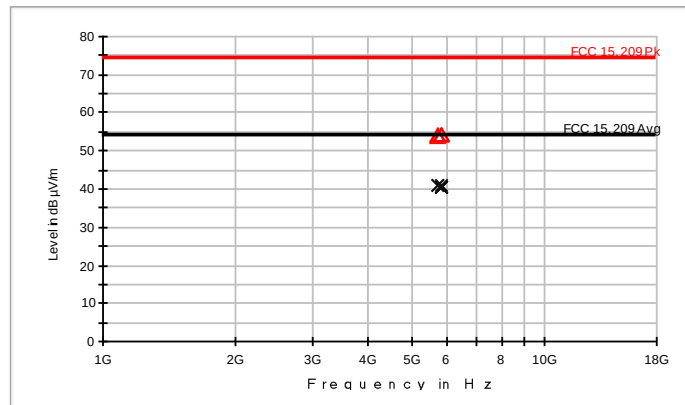
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.000000     | H                    | 34.8           | 19.2                             | 54.00             | 74.0           | -20.0       |
| 5724.000000     | V                    | 42.8           | 19.2                             | 62.00             | 74.0           | -12.0       |
| 5851.000000     | H                    | 34.9           | 19.4                             | 54.30             | 74.0           | -19.7       |
| 5851.000000     | V                    | 35.5           | 19.4                             | 54.90             | 74.0           | -19.1       |

## 5.8 GHz, 20M, Mid Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.000000     | H                    | 21.6           | 19.2                             | 40.80             | 54.0           | -13.2       |
| 5724.000000     | V                    | 21.6           | 19.2                             | 40.80             | 54.0           | -13.2       |
| 5851.000000     | H                    | 21.1           | 19.4                             | 40.50             | 54.0           | -13.5       |
| 5851.000000     | V                    | 21.2           | 19.4                             | 40.60             | 54.0           | -13.4       |



## 5.8 GHz, 20M, High Channel



## 5.8 GHz, 20M, High Channel - MaxPeak

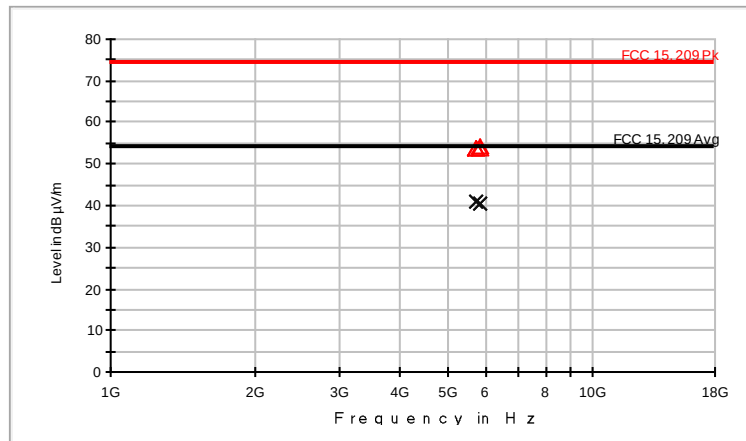
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.000000     | V                    | 34.8           | 19.2                             | 54.00             | 74.0           | -20.0       |
| 5724.000000     | H                    | 35.1           | 19.2                             | 54.30             | 74.0           | -19.7       |
| 5851.000000     | H                    | 35.0           | 19.4                             | 54.40             | 74.0           | -19.6       |
| 5851.000000     | H                    | 35.0           | 19.4                             | 54.40             | 74.0           | -19.6       |
| 5851.000000     | V                    | 34.9           | 19.4                             | 54.30             | 74.0           | -19.7       |
| 5851.000000     | H                    | 35.0           | 19.4                             | 54.40             | 74.0           | -19.6       |

## 5.8 GHz, 20M, High Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.000000     | V                    | 21.6           | 19.2                             | 40.80             | 54.0           | -13.2       |
| 5724.000000     | H                    | 21.6           | 19.2                             | 40.80             | 54.0           | -13.2       |
| 5851.000000     | H                    | 21.2           | 19.4                             | 40.60             | 54.0           | -13.4       |
| 5851.000000     | H                    | 21.2           | 19.4                             | 40.60             | 54.0           | -13.4       |
| 5851.000000     | V                    | 21.4           | 19.4                             | 40.80             | 54.0           | -13.2       |
| 5851.000000     | H                    | 21.2           | 19.4                             | 40.60             | 54.0           | -13.4       |



## 5.8 GHz, 40M, Low Channel



## 5.8 GHz, 40M, Low Channel - MaxPeak

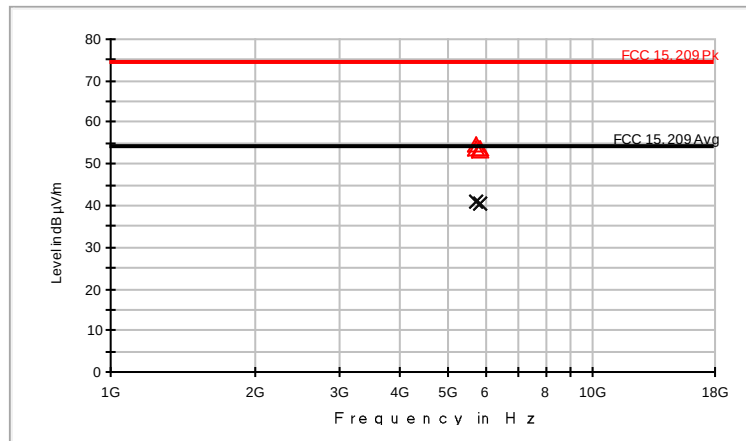
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.000000     | H                    | 34.7           | 19.2                             | 53.90             | 74.0           | -20.1       |
| 5724.000000     | V                    | 34.7           | 19.2                             | 53.90             | 74.0           | -20.1       |
| 5851.000000     | H                    | 34.9           | 19.4                             | 54.30             | 74.0           | -19.7       |
| 5851.000000     | V                    | 34.5           | 19.4                             | 53.90             | 74.0           | -20.1       |

## 5.8 GHz, 40M, Low Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.000000     | H                    | 21.6           | 19.2                             | 40.80             | 54.0           | -13.2       |
| 5724.000000     | V                    | 21.6           | 19.2                             | 40.80             | 54.0           | -13.2       |
| 5851.000000     | H                    | 21.2           | 19.4                             | 40.60             | 54.0           | -13.4       |
| 5851.000000     | V                    | 21.2           | 19.4                             | 40.60             | 54.0           | -13.4       |



## 5.8 GHz, 40M, High Channel



## 5.8 GHz, 40M, High Channel - MaxPeak

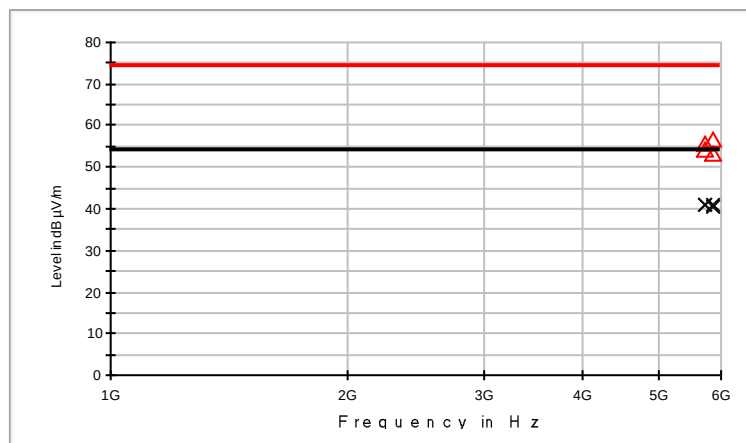
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.920000     | H                    | 34.5           | 19.2                             | 53.70             | 74.0           | -20.3       |
| 5724.920000     | V                    | 34.7           | 19.2                             | 53.90             | 74.0           | -20.1       |
| 5851.000000     | H                    | 38.1           | 19.4                             | 57.50             | 74.0           | -16.5       |
| 5851.000000     | V                    | 38.3           | 19.4                             | 57.70             | 74.0           | -16.3       |

## 5.8 GHz, 40M, High Channel -Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.920000     | H                    | 21.6           | 19.2                             | 40.80             | 54.0           | -13.2       |
| 5724.920000     | V                    | 21.6           | 19.2                             | 40.80             | 54.0           | -13.2       |
| 5851.000000     | H                    | 21.1           | 19.4                             | 40.50             | 54.0           | -13.5       |
| 5851.000000     | V                    | 21.2           | 19.4                             | 40.60             | 54.0           | -13.4       |



## 5.8 GHz, 80M



## 5.8 GHz, 80M - MaxPeak

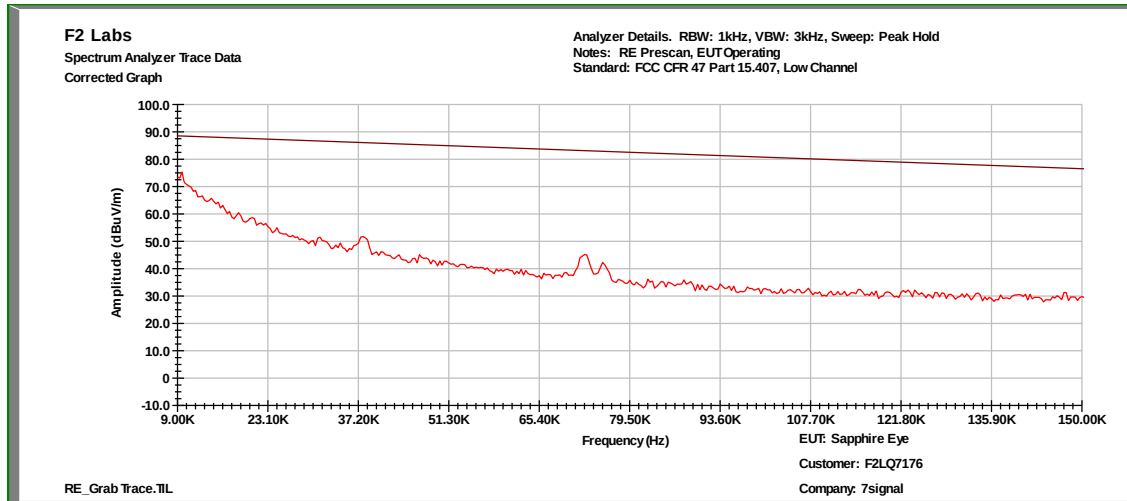
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.000000     | V                    | 35.2           | 19.2                             | 54.40             | 74.0           | -19.6       |
| 5724.000000     | H                    | 36.7           | 19.2                             | 55.90             | 74.0           | -18.1       |
| 5851.000000     | V                    | 33.9           | 19.4                             | 53.30             | 74.0           | -20.7       |
| 5851.000000     | H                    | 37.4           | 19.4                             | 56.80             | 74.0           | -17.2       |

## 5.8 GHz, 80M - Average

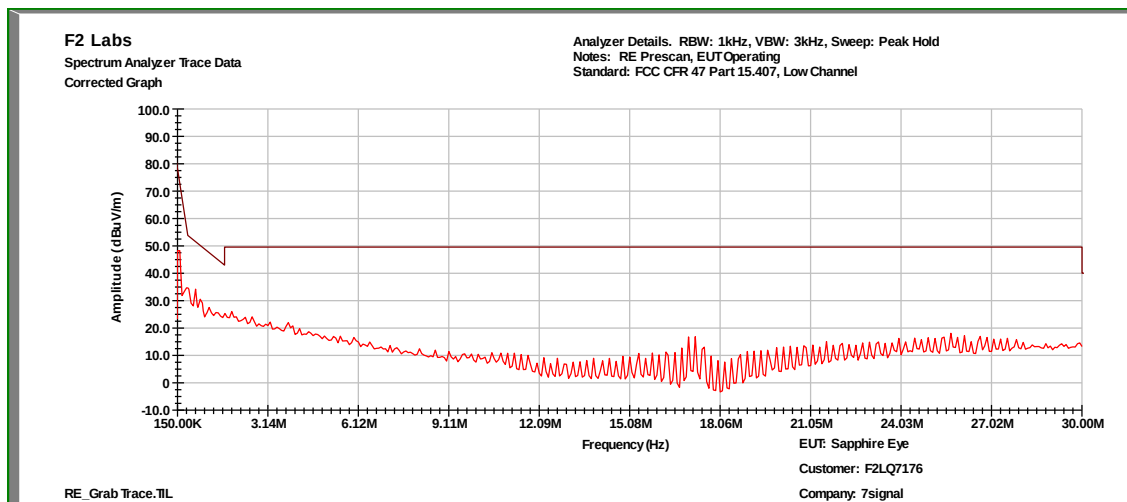
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5724.000000     | V                    | 21.6           | 19.2                             | 40.80             | 54.0           | -13.2       |
| 5724.000000     | H                    | 21.7           | 19.2                             | 40.90             | 54.0           | -13.1       |
| 5851.000000     | V                    | 21.2           | 19.4                             | 40.60             | 54.0           | -13.4       |
| 5851.000000     | H                    | 21.5           | 19.4                             | 40.90             | 54.0           | -13.1       |



## POE, Radiated Spurious Emissions: 9k to 150k

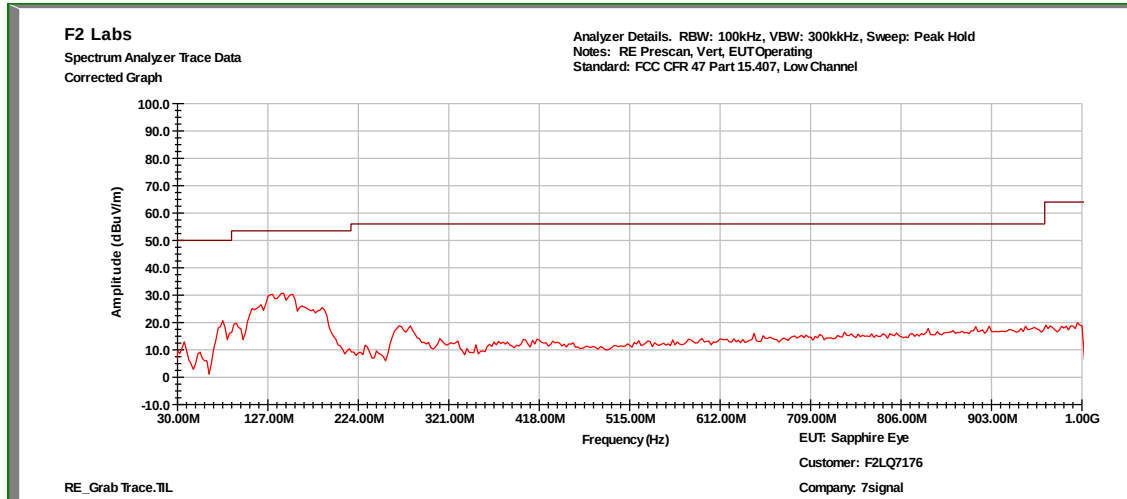


## POE, Radiated Spurious Emissions: 150k to 30 MHz

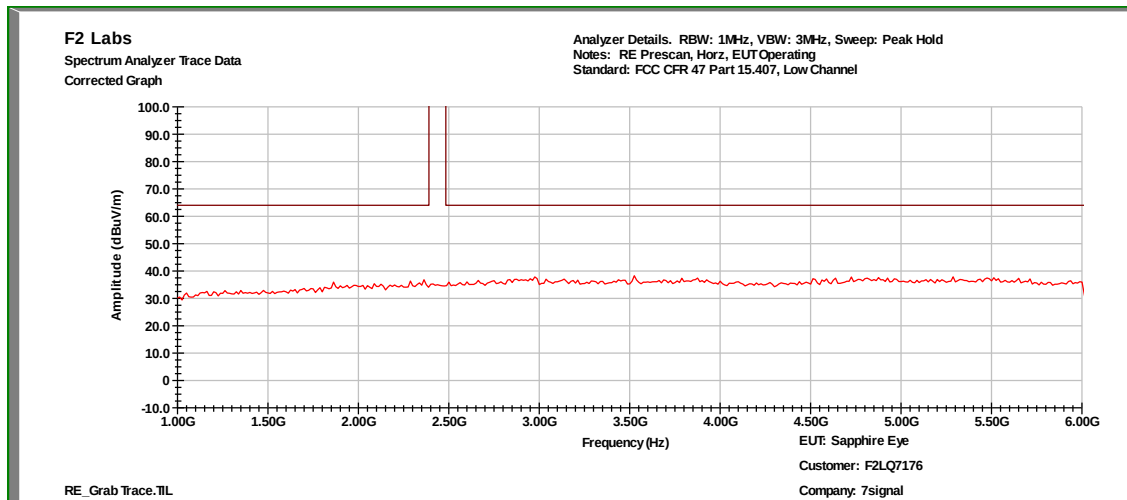




## POE, Radiated Spurious Emissions: 30 MHz to 1 GHz, Vertical

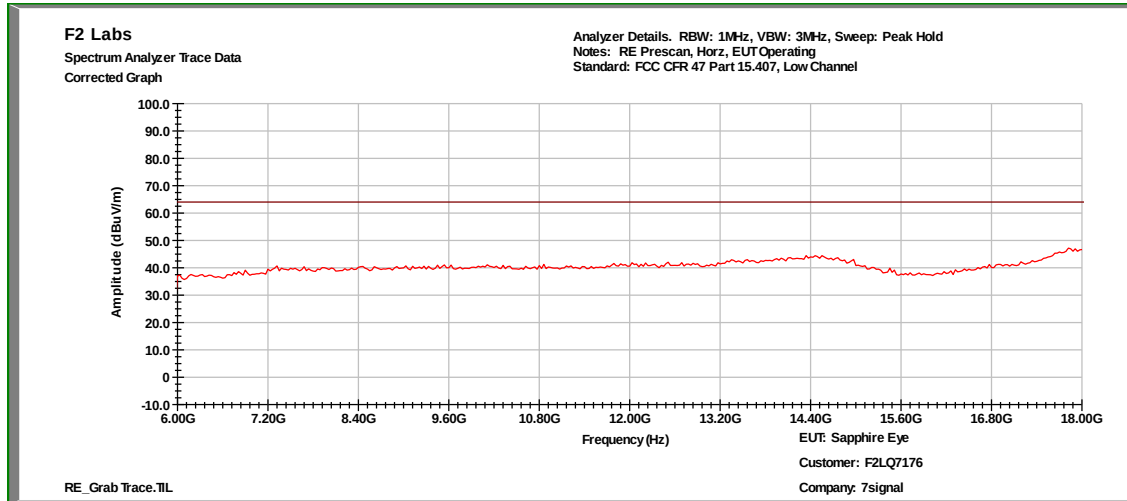


## POE Radiated Spurious Emissions: 1 GHz to 6 GHz, Vertical

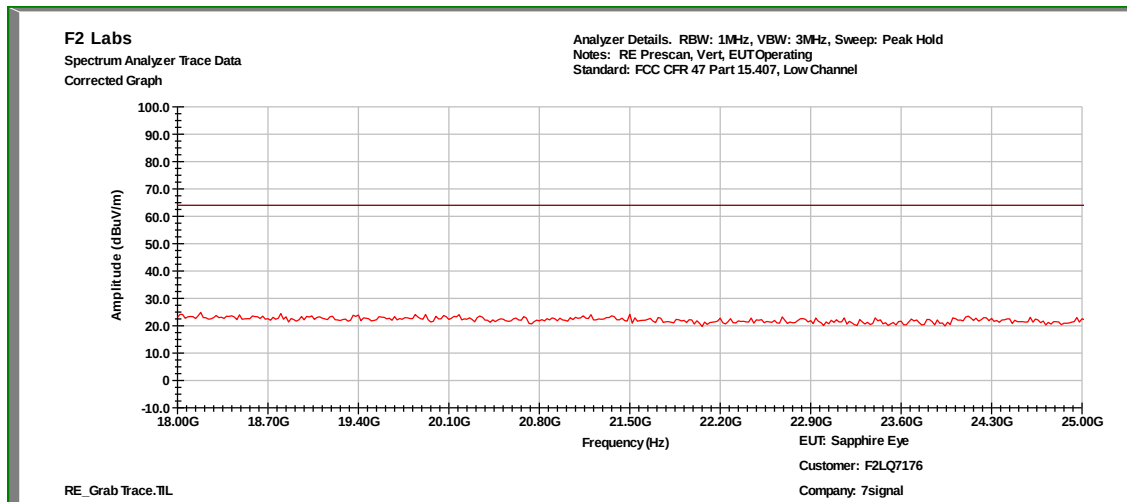




## POE, Radiated Spurious Emissions: 6 GHz to 18 GHz, Vertical

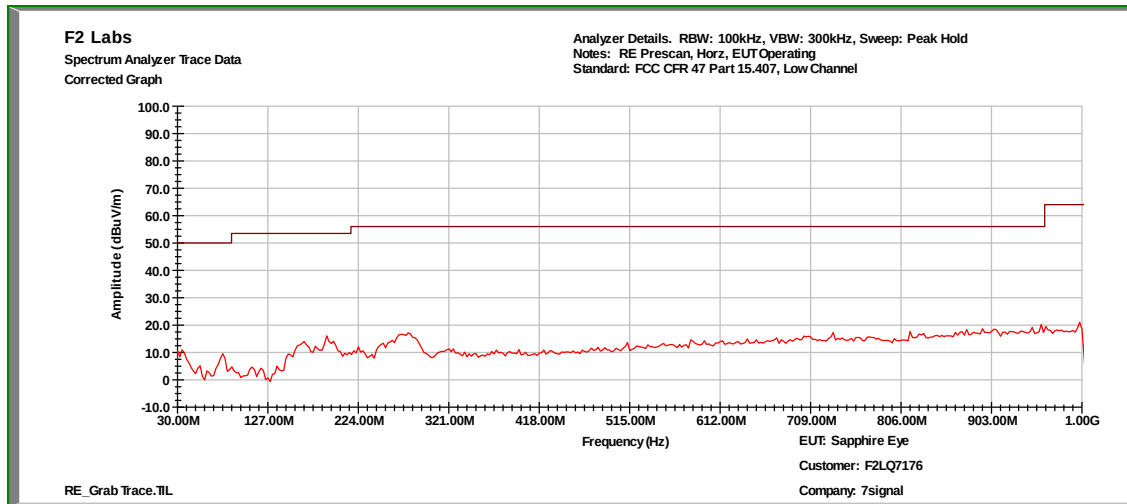


## POE, Radiated Spurious Emissions: 18 GHz to 26 GHz, Vertical

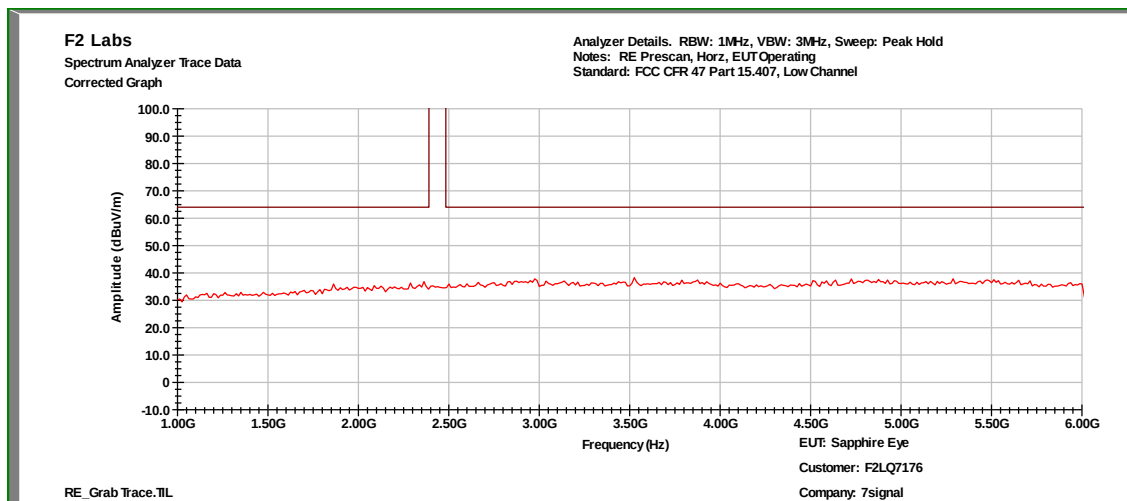




## POE, Radiated Spurious Emissions: 30 MHz to 1 GHz, Horizontal

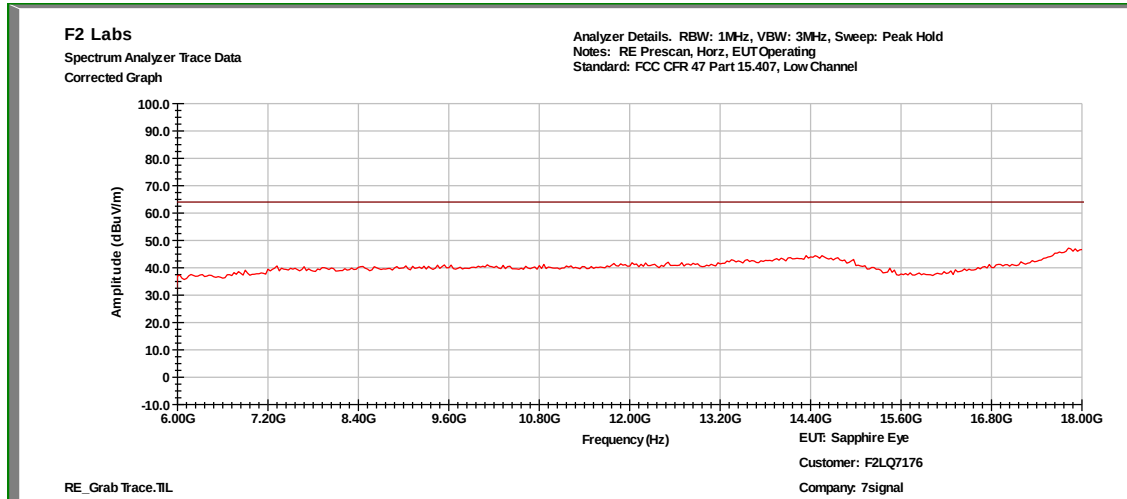


## POE, Radiated Spurious Emissions: 1 GHz to 6 GHz, Horizontal

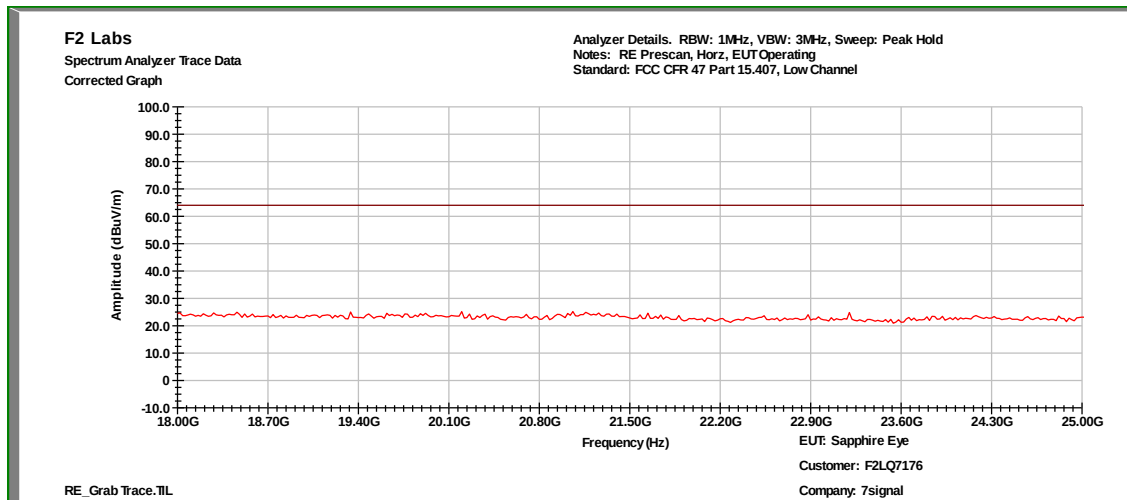




## POE, Radiated Spurious Emissions: 6 GHz to 18 GHz, Horizontal

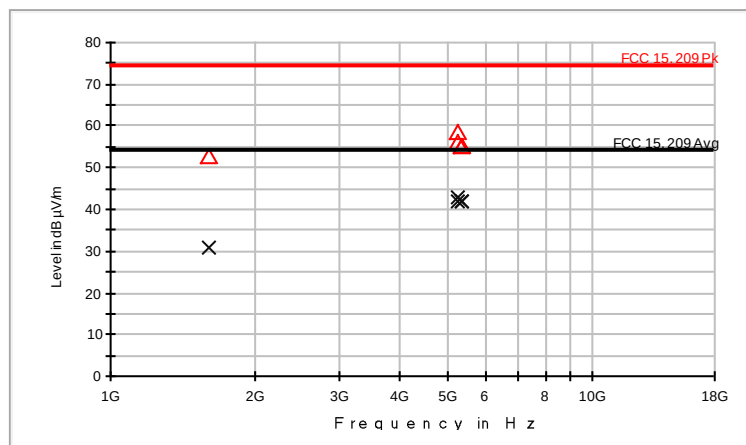


## POE, Radiated Spurious Emissions: 18 GHz to 26 GHz, Horizontal





## 5.25-5.35 Band, 20M UNII2A, Low Channel



## 5.25-5.35 Band, 20M UNII2A, Low Channel - MaxPeak

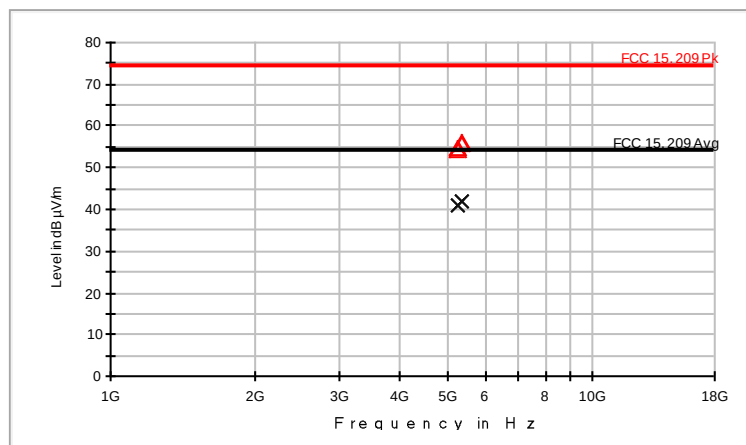
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 1599.080000     | V                    | 46.1           | 7.0                              | 53.10             | 74.0           | -20.9       |
| 5249.000000     | H                    | 40.2           | 18.6                             | 58.80             | 74.0           | -15.2       |
| 5249.000000     | V                    | 37.9           | 18.6                             | 56.50             | 74.0           | -17.5       |
| 5351.000000     | H                    | 36.6           | 18.7                             | 55.30             | 74.0           | -18.7       |
| 5351.000000     | V                    | 36.7           | 18.7                             | 55.40             | 74.0           | -18.6       |

## 5.25-5.35 Band, 20M UNII2A, Low Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 1599.080000     | V                    | 23.9           | 7.0                              | 30.90             | 54.0           | -23.1       |
| 5249.000000     | H                    | 24.4           | 18.6                             | 43.00             | 54.0           | -11.0       |
| 5249.000000     | V                    | 23.4           | 18.6                             | 42.00             | 54.0           | -12.0       |
| 5351.000000     | H                    | 23.5           | 18.7                             | 42.20             | 54.0           | -11.8       |
| 5351.000000     | V                    | 23.4           | 18.7                             | 42.10             | 54.0           | -11.9       |



## 5.25-5.35 Band, 20M UNII2A, Mid Channel



## 5.25-5.35 Band, 20M UNII2A, Mid Channel - MaxPeak

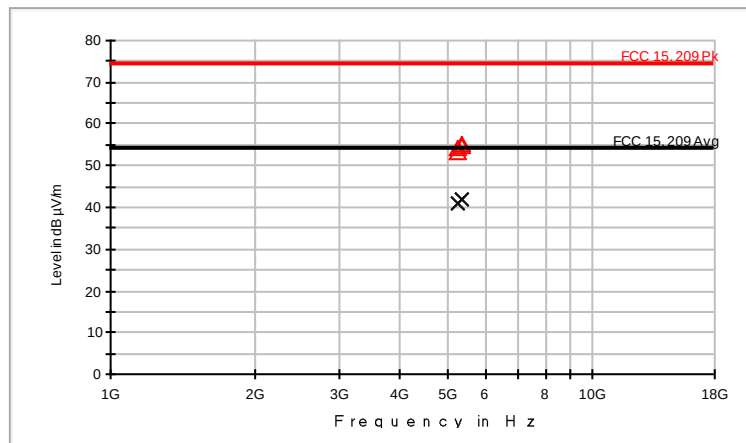
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5249.000000     | V                    | 36.1           | 18.6                             | 54.70             | 74.0           | -19.3       |
| 5249.000000     | H                    | 35.7           | 18.6                             | 54.30             | 74.0           | -19.7       |
| 5351.000000     | V                    | 37.0           | 18.7                             | 55.70             | 74.0           | -18.3       |
| 5351.000000     | H                    | 37.4           | 18.7                             | 56.10             | 74.0           | -17.9       |

## 5.25-5.35 Band, 20M UNII2A, Mid Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5249.000000     | V                    | 22.5           | 18.6                             | 41.10             | 54.0           | -12.9       |
| 5249.000000     | H                    | 22.4           | 18.6                             | 41.00             | 54.0           | -13.0       |
| 5351.000000     | V                    | 23.3           | 18.7                             | 42.00             | 54.0           | -12.0       |
| 5351.000000     | H                    | 23.3           | 18.7                             | 42.00             | 54.0           | -12.0       |



## 5.25-5.35 Band, 20M UNII2A, High Channel



## 5.25-5.35 Band, 20M UNII2A, High Channel - MaxPeak

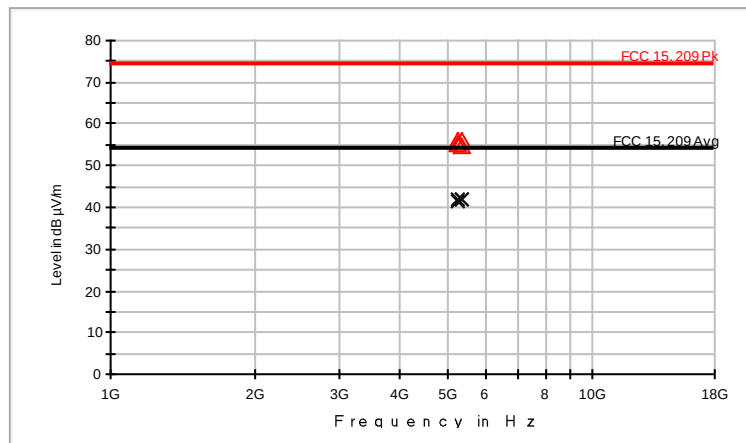
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5249.000000     | H                    | 35.9           | 18.6                             | 54.50             | 74.0           | -19.5       |
| 5249.000000     | V                    | 35.1           | 18.6                             | 53.70             | 74.0           | -20.3       |
| 5351.000000     | V                    | 36.4           | 18.7                             | 55.10             | 74.0           | -18.9       |
| 5351.000000     | H                    | 36.6           | 18.7                             | 55.30             | 74.0           | -18.7       |

## 5.25-5.35 Band, 20M UNII2A, High Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5249.000000     | H                    | 22.4           | 18.6                             | 41.00             | 54.0           | -13.0       |
| 5249.000000     | V                    | 22.3           | 18.6                             | 40.90             | 54.0           | -13.1       |
| 5351.000000     | V                    | 23.2           | 18.7                             | 41.90             | 54.0           | -12.1       |
| 5351.000000     | H                    | 23.2           | 18.7                             | 41.90             | 54.0           | -12.1       |



## 5.25-5.35 Band, 40M UNII2A, Low Channel



## 5.25-5.35 Band, 40M UNII2A, Low Channel - MaxPeak

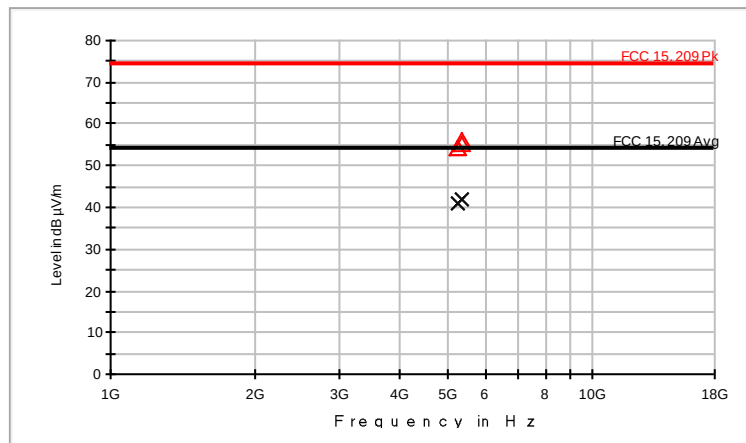
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5249.000000     | V                    | 37.0           | 18.6                             | 55.60             | 74.0           | -18.4       |
| 5249.000000     | H                    | 38.0           | 18.6                             | 56.60             | 74.0           | -17.4       |
| 5351.000000     | V                    | 37.8           | 18.7                             | 56.50             | 74.0           | -17.5       |
| 5351.000000     | H                    | 36.1           | 18.7                             | 54.80             | 74.0           | -19.2       |

## 5.25-5.35 Band, 40M UNII2A, Low Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5249.000000     | V                    | 22.8           | 18.6                             | 41.40             | 54.0           | -12.6       |
| 5249.000000     | H                    | 23.3           | 18.6                             | 41.90             | 54.0           | -12.1       |
| 5351.000000     | V                    | 23.2           | 18.7                             | 41.90             | 54.0           | -12.1       |
| 5351.000000     | H                    | 23.3           | 18.7                             | 42.00             | 54.0           | -12.0       |



## 5.25-5.35 Band, 40M UNII2A, High Channel



## 5.25-5.35 Band, 40M UNII2A, High Channel - MaxPeak

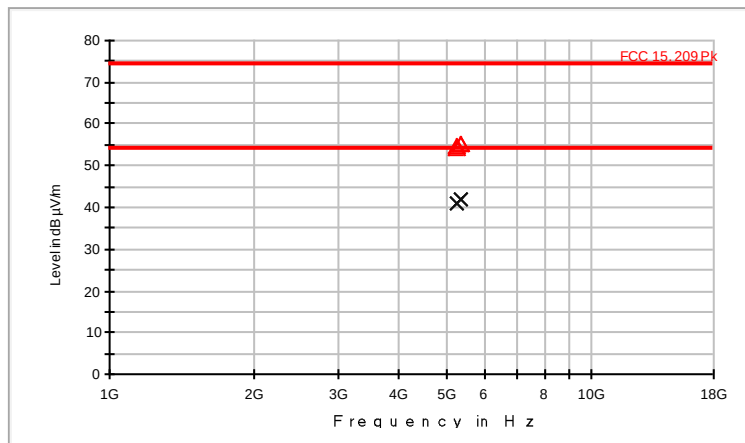
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5249.000000     | H                    | 35.7           | 18.6                             | 54.30             | 74.0           | -19.7       |
| 5249.000000     | V                    | 35.9           | 18.6                             | 54.50             | 74.0           | -19.5       |
| 5351.000000     | H                    | 36.7           | 18.7                             | 55.40             | 74.0           | -18.6       |
| 5351.000000     | V                    | 37.7           | 18.7                             | 56.40             | 74.0           | -17.6       |

## 5.25-5.35 Band, 40M UNII2A, High Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5249.000000     | H                    | 22.3           | 18.6                             | 40.90             | 54.0           | -13.1       |
| 5249.000000     | V                    | 22.3           | 18.6                             | 40.90             | 54.0           | -13.1       |
| 5351.000000     | H                    | 23.2           | 18.7                             | 41.90             | 54.0           | -12.1       |
| 5351.000000     | V                    | 23.2           | 18.7                             | 41.90             | 54.0           | -12.1       |



## 5.25-5.35 Band, 80M UNII2A



## 5.25-5.35 Band, 80M UNII2A - MaxPeak

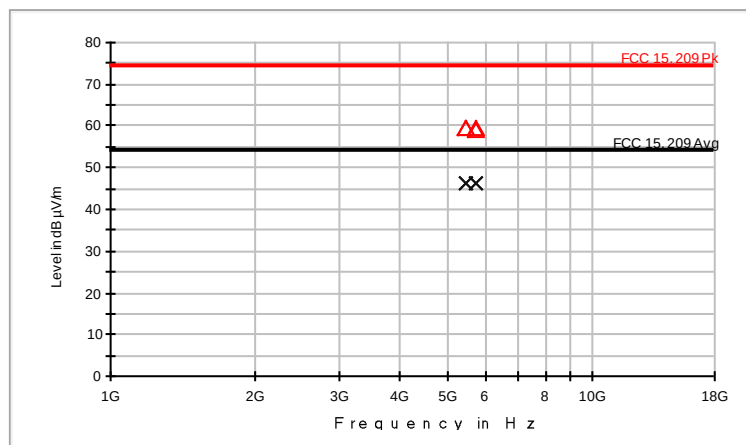
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5249.000000     | V                    | 35.9           | 18.6                             | 54.50             | 74.0           | -19.5       |
| 5249.000000     | H                    | 36.3           | 18.6                             | 54.90             | 74.0           | -19.1       |
| 5351.000000     | V                    | 36.5           | 18.7                             | 55.20             | 74.0           | -18.8       |
| 5351.000000     | H                    | 36.6           | 18.7                             | 55.30             | 74.0           | -18.7       |

## 5.25-5.35 Band, 80M UNII2A - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5249.000000     | V                    | 22.5           | 18.6                             | 41.10             | 54.0           | -12.9       |
| 5249.000000     | H                    | 22.5           | 18.6                             | 41.10             | 54.0           | -12.9       |
| 5351.000000     | V                    | 23.2           | 18.7                             | 41.90             | 54.0           | -12.1       |
| 5351.000000     | H                    | 23.3           | 18.7                             | 42.00             | 54.0           | -12.0       |



## 5.47-5.725 Band, 20M UNII2C, Low Channel



## 5.47-5.725 Band, 20M UNII2C, Low Channel - MaxPeak

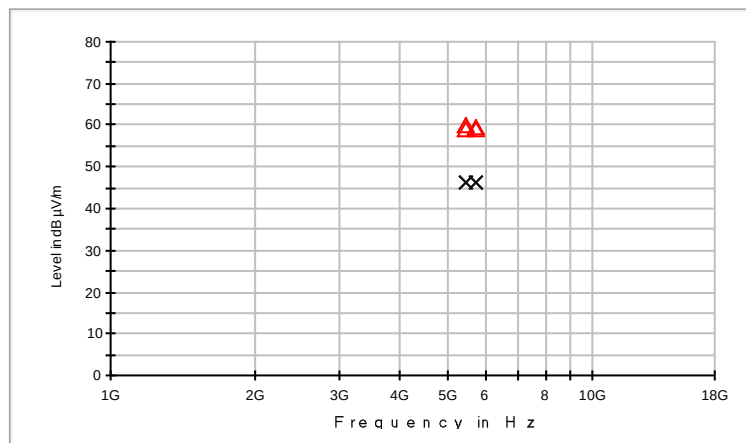
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5469.000000     | H                    | 40.8           | 18.8                             | 59.60             | 74.0           | -14.4       |
| 5469.000000     | V                    | 40.8           | 18.8                             | 59.60             | 74.0           | -14.4       |
| 5724.000000     | H                    | 40.7           | 19.2                             | 59.90             | 74.0           | -14.1       |
| 5724.000000     | V                    | 40.2           | 19.2                             | 59.40             | 74.0           | -14.6       |

## 5.47-5.725 Band, 20M UNII2C, Low Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5469.000000     | H                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5469.000000     | V                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5724.000000     | H                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |
| 5724.000000     | V                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |



## 5.47-5.725 Band, 20M UNII2C, Mid Channel



## 5.47-5.725 Band, 20M UNII2C, Mid Channel - MaxPeak

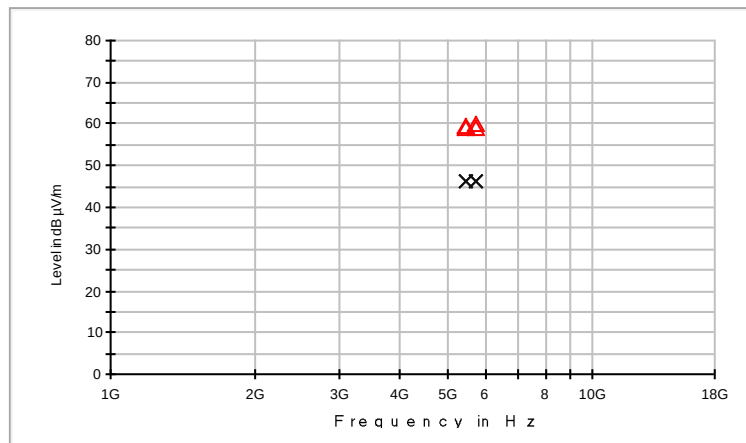
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5469.000000     | V                    | 41.2           | 18.8                             | 60.00             | 74.0           | -14.0       |
| 5469.000000     | H                    | 40.7           | 18.8                             | 59.50             | 74.0           | -14.5       |
| 5726.000000     | V                    | 40.3           | 19.2                             | 59.50             | 74.0           | -14.5       |
| 5726.000000     | H                    | 40.6           | 19.2                             | 59.80             | 74.0           | -14.2       |

## 5.47-5.725 Band, 20M UNII2C, Mid Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5469.000000     | V                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5469.000000     | H                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5726.000000     | V                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |
| 5726.000000     | H                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |



## 5.47-5.725 Band, 20M UNII2C, High Channel



## 5.47-5.725 Band, 20M UNII2C, High Channel - MaxPeak

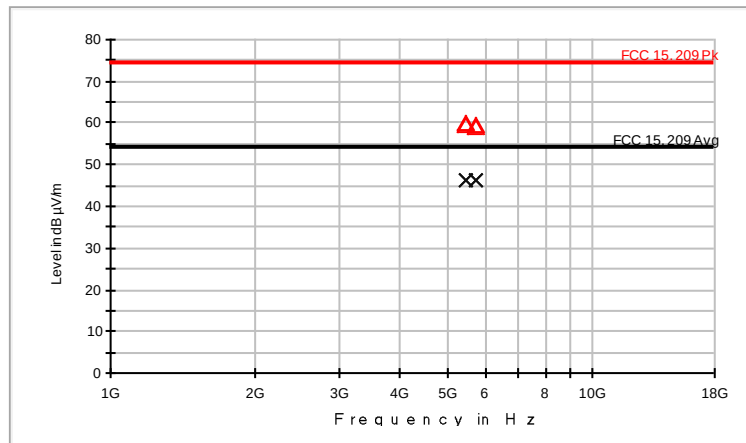
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5469.000000     | H                    | 40.9           | 18.8                             | 59.70             | 74.0           | -14.3       |
| 5469.000000     | V                    | 40.7           | 18.8                             | 59.50             | 74.0           | -14.5       |
| 5724.000000     | H                    | 41.0           | 19.2                             | 60.20             | 74.0           | -13.8       |
| 5724.000000     | V                    | 39.9           | 19.2                             | 59.10             | 74.0           | -14.9       |

## 5.47-5.725 Band, 20M UNII2C, High Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5469.000000     | H                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5469.000000     | V                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5724.000000     | H                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |
| 5724.000000     | V                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |



## 5.47-5.725 Band, 40M UNII2C, Low Channel



## 5.47-5.725 Band, 40M UNII2C, Low Channel - MaxPeak

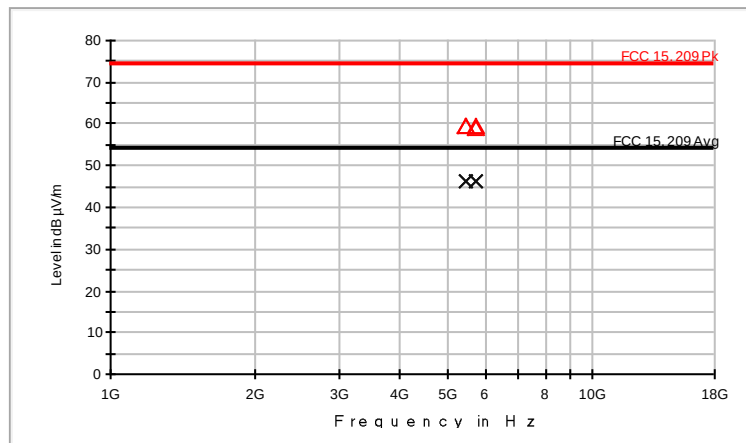
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5469.000000     | V                    | 41.7           | 18.8                             | 60.50             | 74.0           | -13.5       |
| 5469.000000     | H                    | 40.8           | 18.8                             | 59.60             | 74.0           | -14.4       |
| 5726.000000     | V                    | 40.0           | 19.2                             | 59.20             | 74.0           | -14.8       |
| 5726.000000     | H                    | 40.5           | 19.2                             | 59.70             | 74.0           | -14.3       |

## 5.47-5.725 Band, 40M UNII2C, Low Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5469.000000     | V                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5469.000000     | H                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5726.000000     | V                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |
| 5726.000000     | H                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |



## 5.47-5.725 Band, 40M UNII2C, Mid Channel



## 5.47-5.725 Band, 40M UNII2C, Mid Channel - MaxPeak

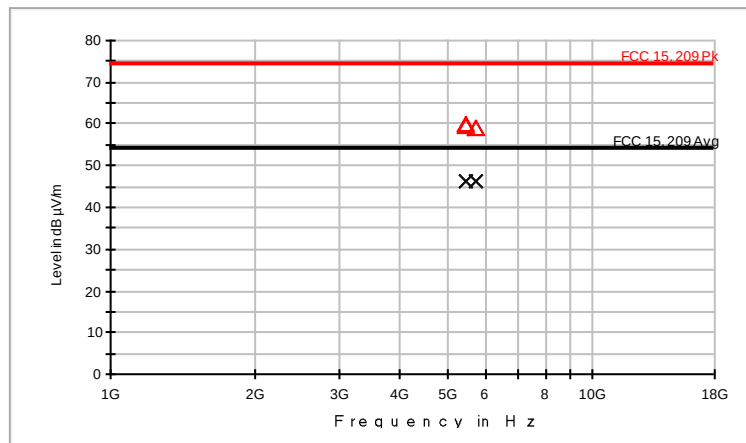
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5469.000000     | H                    | 41.1           | 18.8                             | 59.90             | 74.0           | -14.1       |
| 5469.000000     | V                    | 41.2           | 18.8                             | 60.00             | 74.0           | -14.0       |
| 5726.000000     | H                    | 40.6           | 19.2                             | 59.80             | 74.0           | -14.2       |
| 5726.000000     | V                    | 40.1           | 19.2                             | 59.30             | 74.0           | -14.7       |

## 5.47-5.725 Band, 40M UNII2C, Low Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5469.000000     | H                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5469.000000     | V                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5726.000000     | H                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |
| 5726.000000     | V                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |



## 5.47-5.725 Band, 40M UNII2C, High Channel



## 5.47-5.725 Band, 40M UNII2C, High Channel - MaxPeak

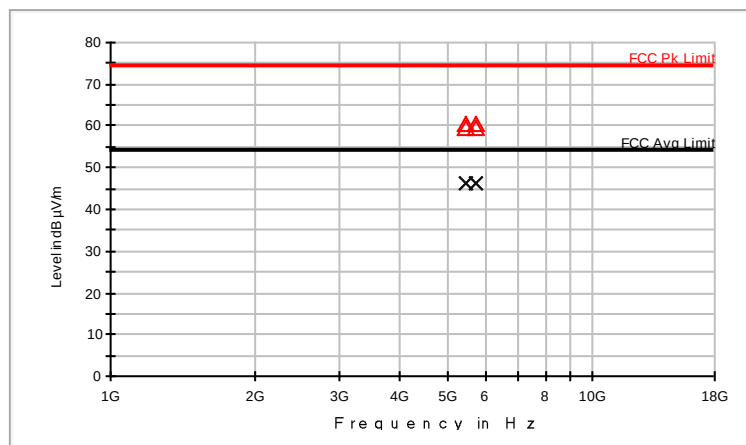
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5470.000000     | V                    | 40.8           | 18.8                             | 59.60             | 74.0           | -14.4       |
| 5470.000000     | H                    | 41.4           | 18.8                             | 60.20             | 74.0           | -13.8       |
| 5725.000000     | V                    | 40.2           | 19.2                             | 59.40             | 74.0           | -14.6       |
| 5725.000000     | H                    | 40.3           | 19.2                             | 59.50             | 74.0           | -14.5       |

## 5.47-5.725 Band, 40M UNII2C, High Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5470.000000     | V                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5470.000000     | H                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5725.000000     | V                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |
| 5725.000000     | H                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |



## 5.47-5.725 Band, 80M, Low Channel



## 5.47-5.725 Band, 80M, Low Channel - MaxPeak

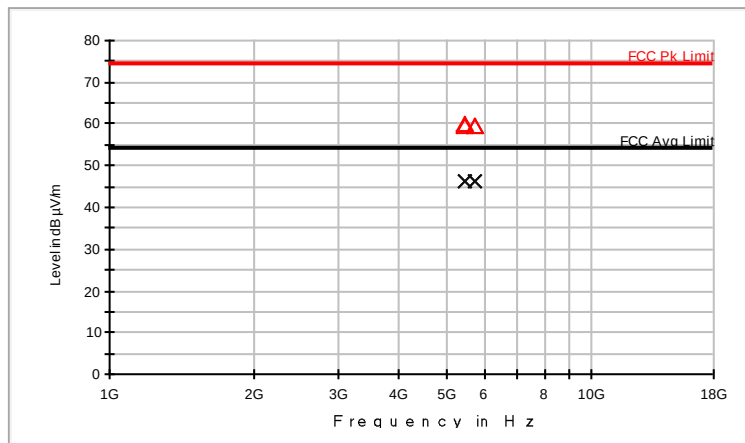
| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5470.000000     | H                    | 41.1           | 18.8                             | 59.90             | 74.0           | -14.1       |
| 5470.000000     | V                    | 41.9           | 18.8                             | 60.70             | 74.0           | -13.3       |
| 5725.000000     | V                    | 41.5           | 19.2                             | 60.70             | 74.0           | -13.3       |
| 5725.000000     | H                    | 40.6           | 19.2                             | 59.80             | 74.0           | -14.2       |

## 5.47-5.725 Band, 80M, Low Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5470.000000     | H                    | 27.5           | 18.8                             | 46.30             | 54.0           | -7.7        |
| 5470.000000     | V                    | 27.7           | 18.8                             | 46.50             | 54.0           | -7.5        |
| 5725.000000     | V                    | 26.8           | 19.2                             | 46.00             | 54.0           | -8.0        |
| 5725.000000     | H                    | 26.8           | 19.2                             | 46.00             | 54.0           | -8.0        |



## 5.47-5.725 Band, 80M, High Channel



## 5.47-5.725 Band, 80M, High Channel - MaxPeak

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5470.000000     | H                    | 41.0           | 18.8                             | 59.80             | 74.0           | -14.2       |
| 5470.000000     | V                    | 41.3           | 18.8                             | 60.10             | 74.0           | -13.9       |
| 5725.000000     | H                    | 40.4           | 19.2                             | 59.60             | 74.0           | -14.4       |
| 5725.000000     | V                    | 40.5           | 19.2                             | 59.70             | 74.0           | -14.3       |

## 5.47-5.725 Band, 80M, High Channel - Average

| Frequency (MHz) | Antenna Polarization | Reading (dBµV) | Cable Loss & Antenna Factor (dB) | Emission (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|----------------------|----------------|----------------------------------|-------------------|----------------|-------------|
| 5470.000000     | H                    | 27.4           | 18.8                             | 46.20             | 54.0           | -7.8        |
| 5470.000000     | V                    | 27.4           | 18.8                             | 46.20             | 54.0           | -7.8        |
| 5725.000000     | H                    | 26.8           | 19.2                             | 46.00             | 54.0           | -8.0        |
| 5725.000000     | V                    | 26.9           | 19.2                             | 46.10             | 54.0           | -7.9        |



## 7 FCC PART 15.207 – CONDUCTED EMISSIONS

### 7.1 Requirements

In accordance with FCC CFR 47 Part 15.207(a), “Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency of Emission (MHz) | Conducted Limit (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | Quasi-peak                   | Average   |
| 0.15-0.5                    | 66 to 56*                    | 56 to 46* |
| 0.5-5                       | 56                           | 46        |
| 5-30                        | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

### 7.2 Procedure

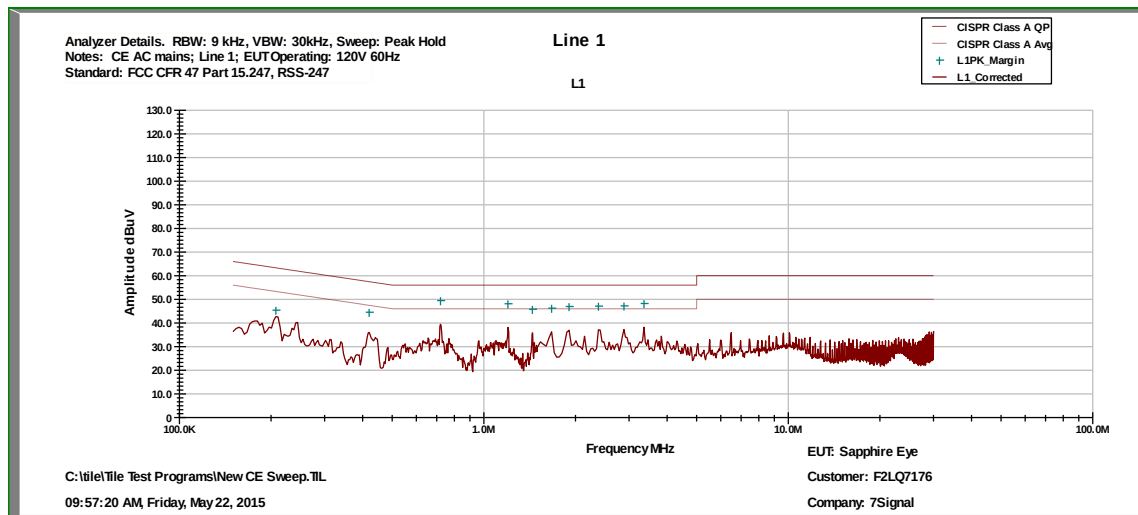
The EUT was placed on a 1.0 x 1.5 meter non-conductive table, 0.8 meter above a horizontal ground plane and 0.4 meter from a vertical ground plane. Power was provided to the EUT through a LISN bonded to a 3 x 2 meter ground plane. The LISN and peripherals were supplied power through a filtered AC power source. The output of the LISN was connected to the input of the receiver via a transient limiter, and emissions in the range 150 kHz to 30 MHz were measured. The measurements were recorded using the quasi-peak and average detectors as directed by the standard, and the resolution bandwidth during testing was 9 kHz. The raw measurements were corrected to allow for attenuation from the LISN, transient limiter and cables.



## 7.3 Conducted Emissions Test Data

|               |                             |                    |            |
|---------------|-----------------------------|--------------------|------------|
| Test Date(s): | May 22, 2015; July 14, 2 15 | Test Engineer:     | J. Knepper |
| Rule:         | 15.207                      | Air Temperature:   | 21.0° C    |
| Test Results: | Pass                        | Relative Humidity: | 46%        |

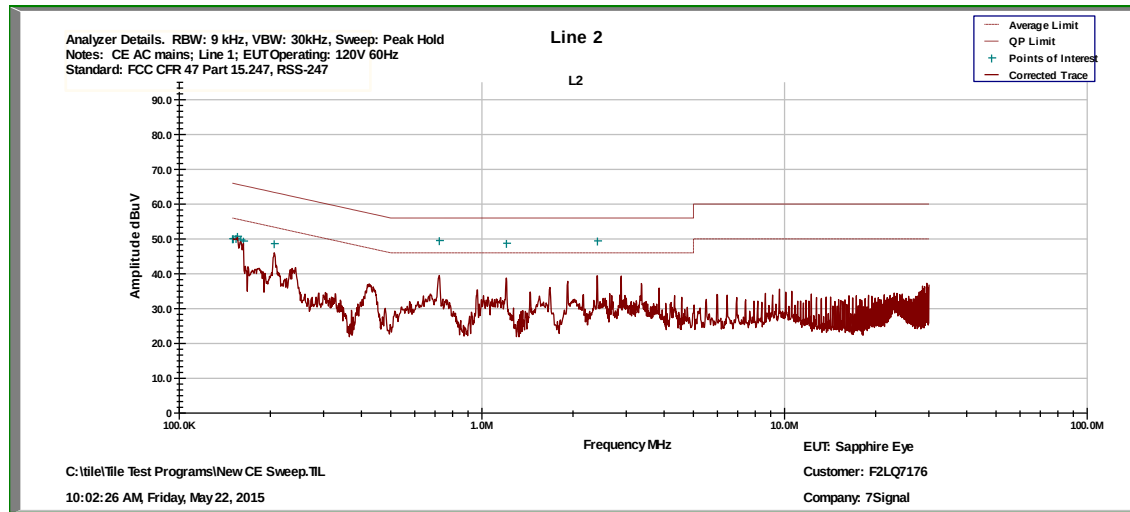
## Loaded, Conducted Test – Line 1: 0.15 MHz to 30.0 MHz



| Top Discrete Measurements |           |                 |            |              |                 |                |              |             |
|---------------------------|-----------|-----------------|------------|--------------|-----------------|----------------|--------------|-------------|
| No.                       | Conductor | Frequency (MHz) | Detector   | Level (dBμV) | Adjustment (dB) | Results (dBμV) | Limit (dBμV) | Margin (dB) |
| 1                         | Line 1    | 0.718934        | Quasi-Peak | 29.140       | 10.441          | 39.581         | 56.0         | -16.419     |
|                           |           | 0.718934        | Average    | 26.315       | 10.441          | 36.756         | 46.0         | -9.244      |
| 2                         | Line 1    | 1.1981          | Quasi-Peak | 27.730       | 10.400          | 38.130         | 56.0         | -17.87      |
|                           |           | 1.1981          | Average    | 25.108       | 10.400          | 35.508         | 46.0         | -10.492     |
| 3                         | Line 1    | 1.43913         | Quasi-Peak | 24.500       | 10.384          | 34.884         | 56.0         | -21.116     |
|                           |           | 1.43913         | Average    | 20.737       | 10.384          | 31.121         | 46.0         | -14.879     |
| 4                         | Line 1    | 1.67664         | Quasi-Peak | 26.250       | 10.380          | 36.630         | 56.0         | -19.37      |
|                           |           | 1.67664         | Average    | 22.618       | 10.380          | 32.998         | 46.0         | -13.002     |
| 5                         | Line 1    | 1.91458         | Quasi-Peak | 25.360       | 10.371          | 35.731         | 56.0         | -20.269     |
|                           |           | 1.91458         | Average    | 22.048       | 10.371          | 32.419         | 46.0         | -13.581     |
| 6                         | Line 1    | 2.39456         | Quasi-Peak | 26.540       | 10.364          | 36.904         | 56.0         | -19.096     |
|                           |           | 2.39456         | Average    | 23.365       | 10.364          | 33.729         | 46.0         | -12.271     |
| 7                         | Line 1    | 2.87596         | Quasi-Peak | 26.770       | 10.360          | 37.130         | 56.0         | -18.870     |
|                           |           | 2.87596         | Average    | 23.063       | 10.360          | 33.423         | 46.0         | -12.577     |
| 8                         | Line 1    | 3.35181         | Quasi-Peak | 25.480       | 10.353          | 35.833         | 56.0         | -20.167     |
|                           |           | 3.35181         | Average    | 21.950       | 10.353          | 32.303         | 46.0         | -13.697     |



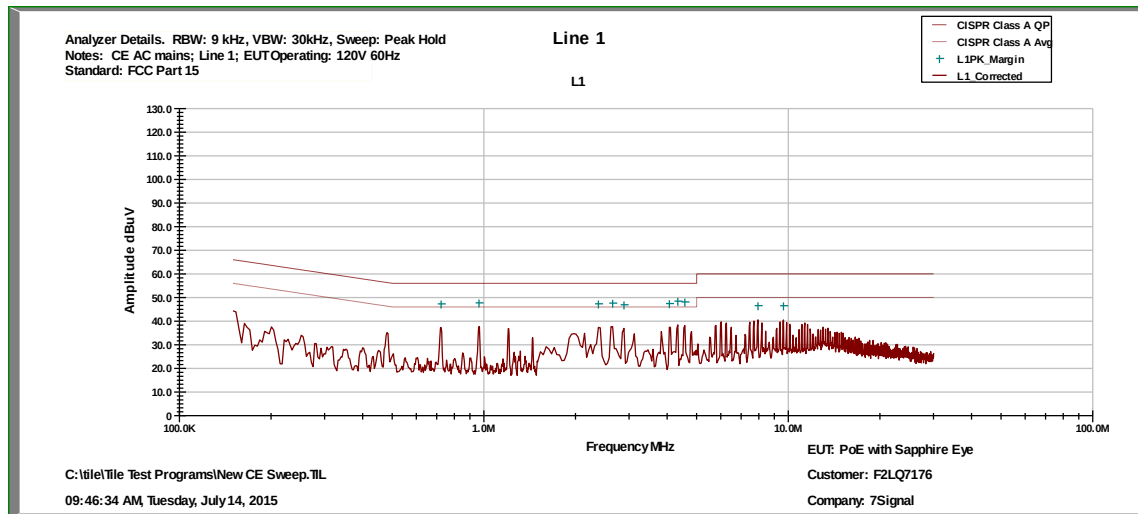
## Loaded, Conducted Test – Line 2: 0.15 MHz to 30.0 MHz



| Top Discrete Measurements |           |                 |            |              |                 |                |              |             |
|---------------------------|-----------|-----------------|------------|--------------|-----------------|----------------|--------------|-------------|
| No.                       | Conductor | Frequency (MHz) | Detector   | Level (dBμV) | Adjustment (dB) | Results (dBμV) | Limit (dBμV) | Margin (dB) |
| 1                         | Line 2    | 0.15047         | Quasi-Peak | 36.820       | 11.498          | 48.318         | 65.974       | -17.656     |
|                           |           | 0.15047         | Average    | 21.743       | 11.498          | 33.241         | 55.974       | -22.733     |
| 2                         | Line 2    | 0.151161        | Quasi-Peak | 36.520       | 11.494          | 48.014         | 65.937       | -17.923     |
|                           |           | 0.151161        | Average    | 23.615       | 11.494          | 35.109         | 55.937       | -20.828     |
| 3                         | Line 2    | 0.155316        | Quasi-Peak | 35.330       | 11.473          | 46.803         | 65.711       | -18.908     |
|                           |           | 0.155316        | Average    | 22.280       | 11.473          | 33.753         | 55.711       | -21.958     |
| 4                         | Line 2    | 0.155494        | Quasi-Peak | 35.930       | 11.473          | 47.403         | 65.702       | -18.299     |
|                           |           | 0.155494        | Average    | 21.878       | 11.473          | 33.351         | 55.702       | -22.351     |
| 5                         | Line 2    | 0.159814        | Quasi-Peak | 33.200       | 11.451          | 44.651         | 65.474       | -20.82      |
|                           |           | 0.159814        | Average    | 18.422       | 11.451          | 29.873         | 55.474       | -25.601     |
| 6                         | Line 2    | 0.162702        | Quasi-Peak | 30.290       | 11.407          | 41.697         | 65.326       | -23.629     |
|                           |           | 0.162702        | Average    | 13.097       | 11.407          | 24.504         | 55.326       | -30.822     |
| 7                         | Line 2    | 0.203327        | Quasi-Peak | 32.300       | 11.053          | 43.353         | 63.475       | -20.122     |
|                           |           | 0.203327        | Average    | 21.660       | 11.053          | 32.713         | 53.475       | -20.762     |
| 8                         | Line 2    | 0.717225        | Quasi-Peak | 28.260       | 10.441          | 38.701         | 56.0         | -17.299     |
|                           |           | 0.717225        | Average    | 24.813       | 10.441          | 35.254         | 46.0         | -10.746     |
| 9                         | Line 2    | 1.19702         | Quasi-Peak | 27.640       | 10.400          | 38.040         | 56.0         | -17.960     |
|                           |           | 1.19702         | Average    | 24.568       | 10.400          | 34.968         | 46.0         | -11.032     |
| 10                        | Line 2    | 2.39485         | Quasi-Peak | 26.380       | 10.364          | 36.744         | 56.0         | -19.256     |
|                           |           | 2.39485         | Average    | 23.397       | 10.364          | 33.761         | 46.0         | -12.239     |



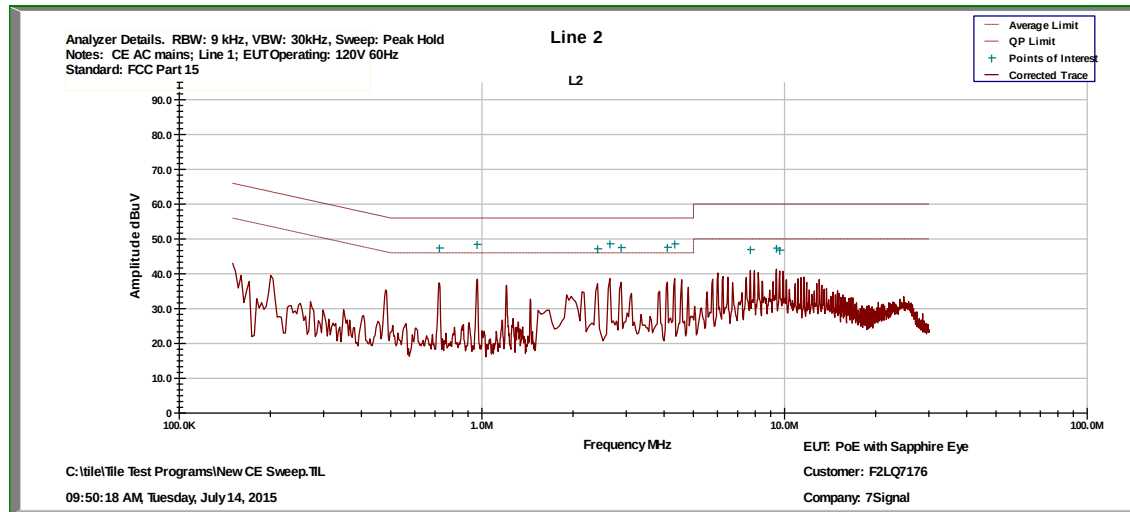
## POE, Conducted Test – Line 1: 0.15 MHz to 30.0 MHz



| Top Discrete Measurements |           |                 |            |              |                 |                |              |             |
|---------------------------|-----------|-----------------|------------|--------------|-----------------|----------------|--------------|-------------|
| No.                       | Conductor | Frequency (MHz) | Detector   | Level (dBμV) | Adjustment (dB) | Results (dBμV) | Limit (dBμV) | Margin (dB) |
| 1                         | Line 1    | 0.720586        | Quasi-Peak | 26.090       | 10.440          | 36.530         | 56.0         | -19.470     |
|                           |           | 0.720586        | Average    | 25.198       | 10.440          | 35.638         | 46.0         | -10.362     |
| 2                         | Line 1    | 0.958628        | Quasi-Peak | 27.340       | 10.412          | 37.752         | 56.0         | -18.25      |
|                           |           | 0.958628        | Average    | 25.462       | 10.412          | 35.874         | 46.0         | -10.126     |
| 3                         | Line 1    | 2.36193         | Quasi-Peak | 17.250       | 10.366          | 27.616         | 56.0         | -28.384     |
|                           |           | 2.36193         | Average    | 5.548        | 10.366          | 15.914         | 46.0         | -30.086     |
| 4                         | Line 1    | 2.63803         | Quasi-Peak | 26.970       | 10.360          | 37.330         | 56.0         | -18.67      |
|                           |           | 2.63803         | Average    | 25.732       | 10.360          | 36.092         | 46.0         | -9.908      |
| 5                         | Line 1    | 2.87655         | Quasi-Peak | 25.330       | 10.360          | 35.690         | 56.0         | -20.310     |
|                           |           | 2.87655         | Average    | 23.670       | 10.360          | 34.030         | 46.0         | -11.970     |
| 6                         | Line 1    | 4.07699         | Quasi-Peak | 26.370       | 10.342          | 36.712         | 56.0         | -19.288     |
|                           |           | 4.07699         | Average    | 25.300       | 10.342          | 35.642         | 46.0         | -10.358     |
| 7                         | Line 1    | 4.31777         | Quasi-Peak | 27.560       | 10.318          | 37.878         | 56.0         | -18.122     |
|                           |           | 4.31777         | Average    | 26.368       | 10.318          | 36.686         | 46.0         | -9.314      |
| 8                         | Line 1    | 4.558           | Quasi-Peak | 26.750       | 10.301          | 37.051         | 56.0         | -18.949     |
|                           |           | 4.558           | Average    | 25.517       | 10.301          | 35.818         | 46.0         | -10.182     |
| 9                         | Line 1    | 7.91467         | Quasi-Peak | 29.930       | 10.059          | 39.989         | 60.0         | -20.011     |
|                           |           | 7.91467         | Average    | 28.603       | 10.059          | 38.662         | 50.0         | -11.338     |
| 10                        | Line 1    | 9.59425         | Quasi-Peak | 30.110       | 10.124          | 40.234         | 60.0         | -19.766     |
|                           |           | 9.59425         | Average    | 28.695       | 10.124          | 38.819         | 50.0         | -11.181     |



## POE, Conducted Test – Line 2: 0.15 MHz to 30.0 MHz

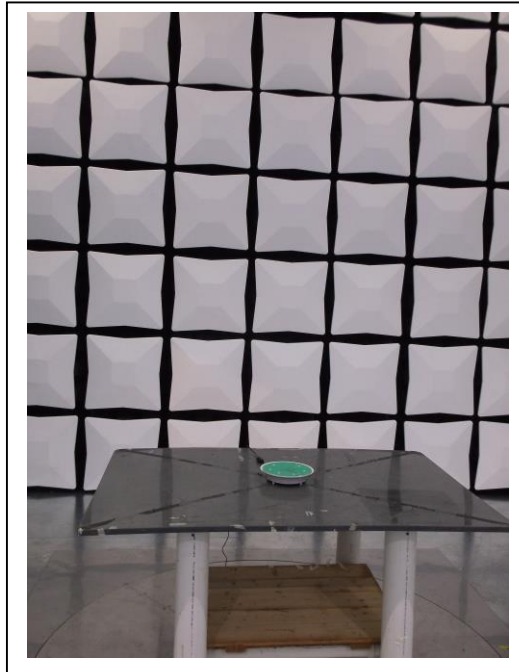


| Top Discrete Measurements |           |                 |            |              |                 |                |              |             |
|---------------------------|-----------|-----------------|------------|--------------|-----------------|----------------|--------------|-------------|
| No.                       | Conductor | Frequency (MHz) | Detector   | Level (dBμV) | Adjustment (dB) | Results (dBμV) | Limit (dBμV) | Margin (dB) |
| 1                         | Line 2    | 0.720238        | Quasi-Peak | 26.320       | 10.440          | 36.760         | 56.000       | -19.240     |
|                           |           | 0.720238        | Average    | 25.545       | 10.440          | 35.985         | 46.000       | -10.015     |
| 2                         | Line 2    | 0.959618        | Quasi-Peak | 28.080       | 10.412          | 38.492         | 56.000       | -17.508     |
|                           |           | 0.959618        | Average    | 26.045       | 10.412          | 36.457         | 46.000       | -9.543      |
| 3                         | Line 2    | 2.40076         | Quasi-Peak | 25.270       | 10.364          | 35.634         | 56.000       | -20.366     |
|                           |           | 2.40076         | Average    | 24.090       | 10.364          | 34.454         | 46.000       | -11.546     |
| 4                         | Line 2    | 2.63844         | Quasi-Peak | 27.120       | 10.360          | 37.480         | 56.000       | -18.520     |
|                           |           | 2.63844         | Average    | 25.938       | 10.360          | 36.298         | 46.000       | -9.702      |
| 5                         | Line 2    | 2.87979         | Quasi-Peak | 25.850       | 10.360          | 36.210         | 56.000       | -19.79      |
|                           |           | 2.87979         | Average    | 24.360       | 10.360          | 34.720         | 46.000       | -11.280     |
| 6                         | Line 2    | 4.07734         | Quasi-Peak | 26.500       | 10.342          | 36.842         | 56.000       | -19.158     |
|                           |           | 4.07734         | Average    | 25.295       | 10.342          | 35.637         | 46.000       | -10.363     |
| 7                         | Line 2    | 4.31767         | Quasi-Peak | 27.560       | 10.318          | 37.878         | 56.000       | -18.122     |
|                           |           | 4.31767         | Average    | 26.533       | 10.318          | 36.851         | 46.000       | -9.149      |
| 8                         | Line 2    | 7.67395         | Quasi-Peak | 28.870       | 10.086          | 38.956         | 60.0         | -21.044     |
|                           |           | 7.67395         | Average    | 27.365       | 10.086          | 37.451         | 50.0         | -12.549     |
| 9                         | Line 2    | 9.35379         | Quasi-Peak | 29.570       | 10.114          | 39.684         | 60.0         | -20.316     |
|                           |           | 9.35379         | Average    | 27.880       | 10.114          | 37.994         | 50.0         | -12.006     |
| 10                        | Line 2    | 9.59569         | Quasi-Peak | 30.270       | 10.124          | 40.394         | 60.0         | -19.606     |
|                           |           | 9.59569         | Average    | 28.108       | 10.124          | 38.232         | 50.0         | -11.768     |



## 8 PHOTOGRAPHS/EXHIBITS – PRODUCT PHOTOS, TEST SETUPS

### Radiated Spurious



### Conducted Emissions

