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HEADQUARTERS: 914 WEST PATAPSCO AVENUE • BALTIMORE, MARYLAND 21230 • PHONE (410) 354-3300 • FAX (410) 354-3313

July 10, 2019

Harris Corp- Communication Systems
221 Jefferson Ridge Parkway,
Lynchburg, VA 24501

Dear Dave Scherer,

Enclosed is the EMC Wireless test report for compliance testing of the Harris Corp- Communication Systems, Harris RF-7800W Broadband Ethernet Radio as tested to the requirements of Title 47 of the CFR, Ch. 1 (10-1-06 ed.), Title 47 of the CFR, Part 15.407, Subpart E (UNII 2).

Thank you for using the services of MET Laboratories, Inc. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,
MET LABORATORIES, INC.

Mae Ramirez
Documentation Department

Reference: (\Harris Corp- Communication Systems\ EMC94059-FCC407 UNII 2 Rev. 4)

# Electromagnetic Compatibility Criteria
# Test Report

for the

**Harris Corp- Communication Systems**
**Model Harris RF-7800W Broadband Ethernet Radio**

**Tested under**
The FCC Certification Rules
contained in
Title 47 of the CFR
15.407 Subpart E

**MET Report: EMC94059-FCC407 UNII 2 Rev. 4**

July 10, 2019

**Prepared For:**

**Harris Corp- Communication Systems**
**221 Jefferson Ridge Parkway,**
**Lynchburg, VA 24501**

**Prepared By:**
**MET Laboratories, Inc.**
914 West Patapsco Avenue,
Baltimore, MD 21230

  

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# Test Report

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## Harris Corp- Communication Systems
## Model Harris RF-7800W Broadband Ethernet Radio

**Tested under**
The FCC Certification Rules
contained in
Title 47 of the CFR
15.407 Subpart E

Arsalan Hasan, Project Engineer
Electromagnetic Compatibility Lab

Mae Ramirez
Documentation Department

**Engineering Statement:** The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of Parts 15B, 15.407, of the FCC Rules under normal use and maintenance.

Benjamin Taylor,
Wireless Manager, Electromagnetic Compatibility Lab

# Report Status Sheet

| Revision | Report Date | Reason for Revision |
|---|---|---|
| ∅ | July 18, 2019 | Initial Issue. |
| 1 | September 12, 2019 | Added more date for PSD, Spurious & Bandedges |
| 2 | September 16, 2019 | Corrected typos |
| 3 | October 28, 2019 | TCB updates |

# Table of Contents



# List of Terms and Abbreviations

| | |
|---|---|
| **AC** | **A**lternating **C**urrent |
| **ACF** | **A**ntenna **C**orrection **F**actor |
| **Cal** | **Cal**ibration |
| ***d*** | **M**easurement **D**istance |
| **dB** | **D**eci**b**els |
| **dBµA** | **D**eci**b**els above one **micro**amp |
| **dBµV** | **D**eci**b**els above one **micro**volt |
| **dBµA/m** | **D**eci**b**els above one **micro**amp **per m**eter |
| **dBµV/m** | **D**eci**b**els above one **micro**volt **per m**eter |
| **DC** | **D**irect **C**urrent |
| **E** | **E**lectric Field |
| **DSL** | **D**igital **S**ubscriber **L**ine |
| **ESD** | **E**lectro**s**tatic **D**ischarge |
| **EUT** | **E**quipment **U**nder **T**est |
| ***f*** | **F**requency |
| **FCC** | **F**ederal **C**ommunications **C**ommission |
| **GRP** | **G**round **R**eference **P**lane |
| **H** | Magnetic Field |
| **HCP** | **H**orizontal **C**oupling **P**lane |
| **Hz** | **H**ert**z** |
| **IEC** | **I**nternational **E**lectrotechnical **C**ommission |
| **kHz** | **K**ilo**h**ert**z** |
| **kPa** | **K**ilo**pa**scal |
| **kV** | **K**ilo**v**olt |
| **LISN** | **L**ine **I**mpedance **S**tabilization **N**etwork |
| **MHz** | **M**ega**h**ertz |
| **µH** | **Microh**enry |
| **µ** | **Microf**arad |
| **µs** | **Micros**econds |
| **PRF** | **P**ulse **R**epetition **F**requency |
| **RF** | **R**adio **F**requency |
| **RMS** | **R**oot-**M**ean-**S**quare |
| **TWT** | **T**raveling **W**ave **T**ube |
| **V/m** | **V**olts **per m**eter |
| **VCP** | **V**ertical **C**oupling **P**lane |

# I. Executive Summary

## A. Purpose of Test

An EMC evaluation was performed to determine compliance of the Harris Corp- Communication Systems Harris RF-7800W Broadband Ethernet Radio, with the requirements of Part 15, §15.407. All references are to the most current version of Title 47 of the Code of Federal Regulations in effect. In accordance with §2.1033, the following data is presented in support of the Certification of the Harris RF-7800W Broadband Ethernet Radio. Harris Corp- Communication Systems should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the Harris RF-7800W Broadband Ethernet Radio, has been **permanently** discontinued.

## B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, §15.407, in accordance with Harris Corp- Communication Systems, purchase order number 67583. All tests were conducted using measurement procedure ANSI C63.4-2014.

| FCC Reference | Description | Results |
|---|---|---|
| §15.203 | Antenna Requirement | Compliant |
| §15.403(i) | 26dB Occupied Bandwidth | Compliant |
| §15.407 (a)(1) | Maximum Conducted Output Power | Compliant |
| §15.407 (a)(1) | EIRP Above Elevation Angle | N/A |
| §15.407 (a)(1) | Maximum Power Spectral Density | Compliant |
| §15.407 (b)(1)& (6 - 7) | Undesirable Emissions | Compliant |
| §15.407(b)(6) | Conducted Emission Limits | N/A |
| §15.407(f) | RF Exposure | Compliant |

**Table 1. Executive Summary of EMC Part 15.407 ComplianceTesting**

# II. Equipment Configuration

# A. Overview

MET Laboratories, Inc. was contracted by Harris Corp- Communication Systems to perform testing on the Harris RF-7800W Broadband Ethernet Radio, under Harris Corp- Communication Systems' purchase order number 67583.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Harris Corp- Communication Systems Harris RF-7800W Broadband Ethernet Radio.

The results obtained relate only to the item(s) tested.

| | | |
|---|---|---|
| **Model(s) Tested:** | Harris RF-7800W Broadband Ethernet Radio | |
| **Model(s) Covered:** | Harris RF-7800W Broadband Ethernet Radio | |
| **Antennas Tested:** | RF-7800W-AT202<br>RF-7800W-AT203<br>RF-7800W-AT206<br>RF-7800W-AT207 | |
| **Antennas Covered:** | RF-7800W-AT201<br>RF-7800W-AT246 | |
| **EUT Specifications:** | Primary Power: 52 VDC | |
| | FCC ID: AQZ-RF-7800W-RPG2 | |
| | Type of Modulations: | QPSK 1/16, 16-QAM, 64-QAM, 256-QAM |
| | Equipment Code: | NII |
| | Max. RF Output Power: | 20.86 dBm (8dBi/5dBi Antenna) PTMP<br>15.69 dBm (13.5dBi Antenna) PTMP<br>3.59 dBm (26dBi/21dBi Antenna) PTP<br>-0.88 dBm (30dBi Antenna) PTP |
| | EUT Frequency Ranges: | 5255 – 5345 MHz; 5475 – 5720 MHz |
| | Bandwidths: | 5/10/20/40 MHz |
| **Analysis:** | The results obtained relate only to the item(s) tested. | |
| **Duty Cycle Tested:** | 100% | |
| **Environmental Test Conditions:** | Temperature: 15-35º C | |
| | Relative Humidity: 30-60% | |
| | Barometric Pressure: 860-1060 mbar | |
| **Type of Filing:** | Original | |
| **Evaluated by:** | Arsalan Hasan | |
| **Report Date(s):** | July 10, 2019 | |

**Table 2. EUT Summary**

## B. References

## C.

| | |
|---|---|
| **CFR 47, Part 15, Subpart E** | Unlicensed National Information Infrastructure Devices (UNII) |
| **ANSI C63.4:2014** | Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical And Electronic Equipment in the Range of 9 kHz to 40 GHz |
| **ISO/IEC 17025:2005** | General Requirements for the Competence of Testing and Calibration Laboratories |
| **ANSI C63.10-2013** | American National Standard for Testing Unlicensed Wireless Devices |
| **789033 D02 General UNII Test Procedures New Rules v01** | Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E |
| **905462 DO2 UNII DFS Compliance Procedures New Rules v01r02** | Compliance Measurement Procedures for Unlicensed-National Information Infrastructure Devices Operating in the 5250-5350 MHz and 5470-5725 MHz Bands Incorporating Dynamic Frequency Selection |
| **662911 D02 v01** | MIMO with Cross Polarized Antenna |

**Table 3. References**

## D. Test Site

All testing was performed at MET Laboratories, Inc., 914 West Patapsco Avenue, Baltimore, MD 21230. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a 3 semi-anechoic chamber (equivalent to an Open Area Test Site). In accordance with §2.948(a)(3), a complete site description is contained at MET Laboratories.

## E. Measurement Uncertainty

| Test Method | Typical Expanded Uncertainty | K | Confidence Level |
|---|---|---|---|
| **RF Frequencies** | ±4.52 Hz | 2 | 95% |
| **RF Power Conducted Emissions** | ±2.32 dB | 2 | 95% |
| **RF Power Conducted Spurious Emissions** | ±2.25 dB | 2 | 95% |
| **RF Power Radiated Emissions** | ±3.01 dB | 2 | 95% |

**Table 4. Uncertainty Calculations Summary**

## F. Description of Test Sample

The Harris Corp- Communication Systems Harris RF-7800W Broadband Ethernet Radio, Equipment Under Test (EUT), is used to provide long-range, high-throughput Ethernet network backhaul in outdoor point-to-point and point-to-multipoint scenarios.

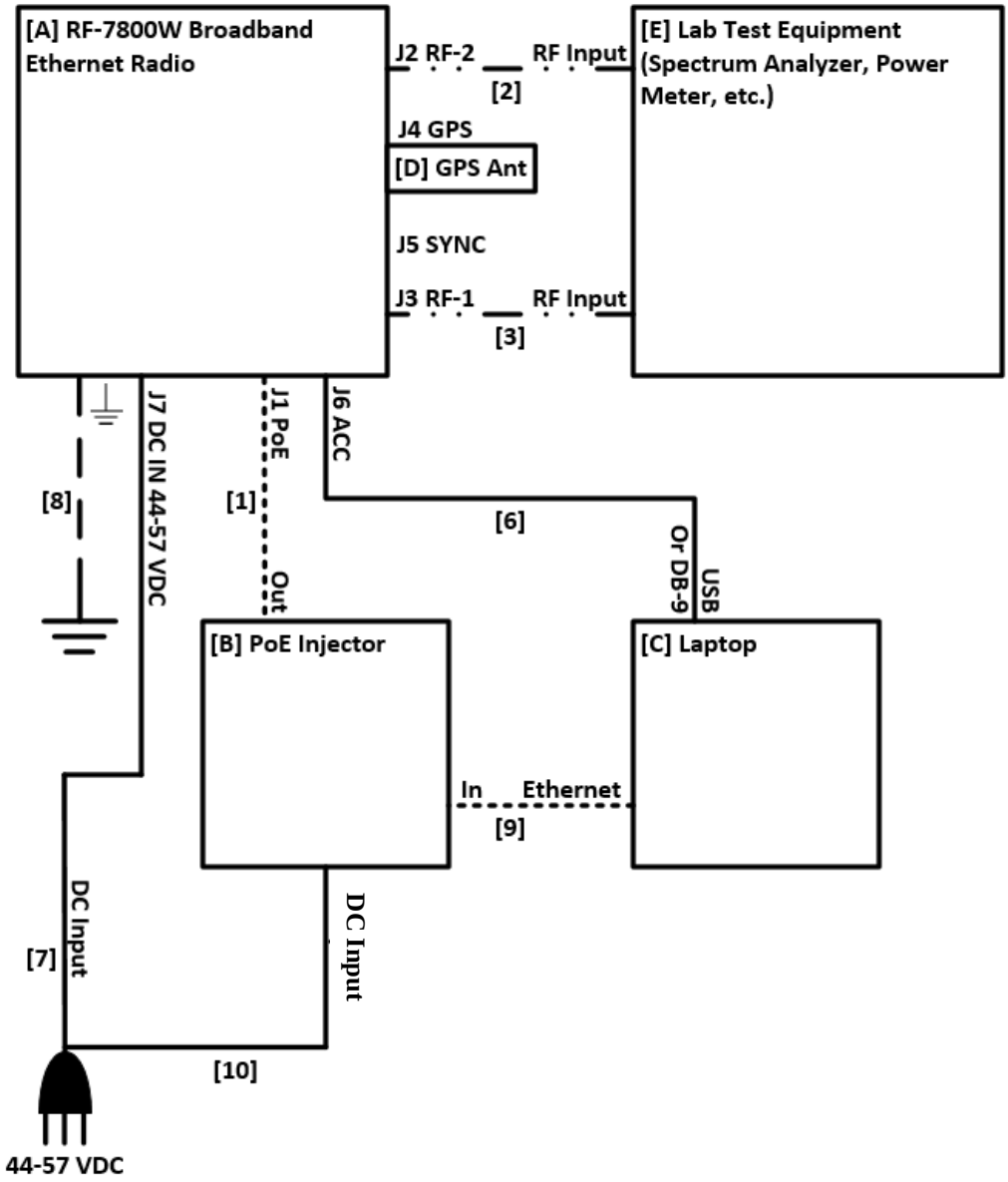



**Figure 1. Block Diagram of Test Configuration**

## G. Equipment Configuration

The EUT was set up as outlined in Figure 1 and 2. All cards, racks, etc., incorporated as part of the EUT is included in the following list.

| Ref. ID | Slot # | Name / Description | Model Number | Part Number | Serial Number | Rev. # |
|---|---|---|---|---|---|---|
| A | | Broadband Ethernet Radio | RF-7800W-RP500 | 12069-5010-01 | A01067 or A01056 | T502C |

**Table 5. Equipment Configuration**

## H. Support Equipment

Support equipment necessary for the operation and testing of the EUT is included in the following list.

| Ref. ID | Name / Description | Manufacturer | Model Number | *Customer Supplied Calibration Data |
|---|---|---|---|---|
| B | DC PoE Injector | L-Com | | Not Applicable |
| C | Laptop | Panasonic | CF-29/CF-31 | Not Applicable |
| D | GPS Antenna | Harris | 12069-3160-01 | Not Applicable |
| E | Lab Test Equipment (Spectrum Analyzer) | | | |
| F | Lab Test Equipment (Signal Generator) | | | |
| G | 2-way Splitter | Narda | 4314B-2 | Not Available |
| H | 30 dB Attenuator | Narda | Micro-Pad 4779-30 | Not Available |
| K | N[M]-to-SMA[F] Adaptor | | | Not Available |
| L | N[F]-to-SMA[F] Adaptor | | | Not Available |
| M | SMA[M]-to-SMA[M] Adaptor | | | Not Available |
| N | Circulator | Narda | 4924 | Not Available |
| O | 50 Ohm Terminator | | | Not Available |

The 'Customer Supplied Calibration Data' column will be marked as either not applicable, not available, or will contain the calibration date supplied by the customer.

**Table 6. Support Equipment**

# I. Ports and Cabling Information

## J.

| Ref. ID | Port name on EUT | Cable Description or reason for no cable | Qty | Length as tested (m) | Max Length (m) | Shielded? (Y/N) | Termination Box ID & Port Name |
|---|---|---|---|---|---|---|---|
| 1 | J1 PoE | Power over Ethernet (Cat6) | 1 | ~30 | 90 | Yes | B.Out |
| 2 | J2 RF-2 | Coaxial RF (SMA[M]-to-SMA[M]) | 2 | 0.91 | 0.5 | Yes | E.RF Input |
| 3 | J3 RF-1 | Coaxial RF (SMA[M]-to-SMA[M]) | 2 | 0.91 | 0.5 | Yes | E.RF Input |
| 4 | J4 GPS | Direct connection to GPS Antenna (refer to Ref ID *D*) | 1 | N/A | N/A | N/A | D |
| 5 | J5 SYNC | Unused, future use | - | N/A | N/A | N/A | N/A |
| 6 | J6 ACC | Configuration/Monitoring (Serial Communications) | 1 | 15 | 90 | Yes | C.USB<br>Or<br>C.DB-9 |
| 7 | J6 DC IN 44-57 VDC | DC Power | 1 | | 90 | Yes | |
| 8 | ⏚ | Ground Strap | 1 | 0.5 | 0.5 | N/A | Ground |
| 9 | In | Ethernet (Cat6) | 1 | 3 | 100 minus length of Ref ID *1* | Yes | C.Ethernet |
| 10 | N/A | DC Input (Barrel Connector) | 1 | 1.8 | 2 | No | 44-57 V |
| 11 | N/A | Coaxial RF (SMA[M]-to-SMA[M]) | 3 | 1 | N/A | Yes | N/A |

**Table 7. Ports and Cabling Information**

# K. Mode of Operation

**Emissions:**

The RF-7800W Broadband Ethernet Radio will be put into constant transmit mode and its RF transmissions will be measured on the lab test equipment (Spectrum Analyzer, Power Meter, etc.).

**DFS:**
One RF-7800W Broadband Ethernet Radio will be put into Master mode (SPTP SC) and the other will be put into Client mode (SPTP SS).

# L. Method of Monitoring EUT Operation

Consistent with the Mode of Operation section above, there needs to be a means of continuously monitoring the operation of the EUT.

**Emissions:**

1. RF transmissions will be present on the lab test equipment (Spectrum Analyzer, Power Meter, etc.).

2. RF transmissions will not be present on the lab test equipment (Spectrum Analyzer, Power Meter, etc.).

**DFS:**

1. RF transmissions will not be present on the lab test equipment (Spectrum Analyzer) for the prescribed Non-Occupancy Period, etc., or change to a new operating RF frequency, depending on the configured DFS Action.

2. RF transmissions continue to be present on the lab test equipment (Spectrum Analyzer) during the prescribed Non-Occupancy Period, etc., or do not change to a new operating RF frequency, depending on the configured DFS Action.

## M. Modifications

### a) Modifications to EUT

No modifications were made to the EUT.

### b) Modifications to Test Standard

No modifications were made to the test standard.

## N. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Harris Corp- Communication Systems upon completion of testing.

## O. Antenna Key

The plots in this report reference the antennas' physical description. This table has been added in order to reference the antennas' model numbers.

| Physical Description | Antenna | Type | Gain | Mode of Operation |
|---|---|---|---|---|
| 1' Panel | RF-7800W-AT201 | Panel | 21 dBi | Point-to-Point (only) |
| 2' Panel | RF-7800W-AT202 | Panel | 26 dBi | Point-to-Point (only) |
| 3' Parabolic | RF-7800W-AT203 | Dish | 30 dBi | Point-to-Point (only) |
| 8 Omni | RF-7800W-AT206 | Omni | 8 dBi | Point-to-Multipoint (only) |
| 5 Omni | RF-7800W-AT246 | Omni | 5 dBi | Point-to-Multipoint (only) |
| 90 degree sector | RF-7800W-AT207 | Sector | 13.5 dBi | Point-to-Multipoint (only) |

**Table 8. Antenna Key**

# III. Electromagnetic Compatibility Criteria for Intentional Radiators

# Electromagnetic Compatibility Criteria for Intentional Radiators

## § 15.203 Antenna Requirement

**Test Requirement:** **§ 15.203:** An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The structure and application of the EUT were analyzed to determine compliance with Section 15.203 of the Rules. Section 15.203 states that the subject device must meet at least one of the following criteria:

a.) Antenna must be permanently attached to the unit.

b.) Antenna must use a unique type of connector to attach to the EUT.

c.) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

**Results:** The EUT as tested is compliant the criteria of §15.203.

Antenna Requirement is met because the device and its antennas are going to be professionally installed

| Physical Description | Antenna | Type | Gain | Mode of Operation |
|---|---|---|---|---|
| 1' Panel | RF-7800W-AT201 | Panel | 21 dBi | Point-to-Point (only) |
| 2' Panel | RF-7800W-AT202 | Panel | 26 dBi | Point-to-Point (only) |
| 3' Parabolic | RF-7800W-AT203 | Dish | 30 dBi | Point-to-Point (only) |
| 8 Omni | RF-7800W-AT206 | Omni | 8 dBi | Point-to-Multipoint (only) |
| 5 Omni | RF-7800W-AT246 | Omni | 5 dBi | Point-to-Multipoint (only) |
| 90 degree sector | RF-7800W-AT207 | Sector | 13.5 dBi | Point-to-Multipoint (only) |

**Table 9. Antenna Key**

**Test Engineer(s):** Arsalan Hasan

**Test Date(s):** May 10, 2019

## Electromagnetic Compatibility Criteria for Intentional Radiators

## § 15. 403(i) 26dB Bandwidth

**Test Requirements:** **§ 15.403(i):** For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

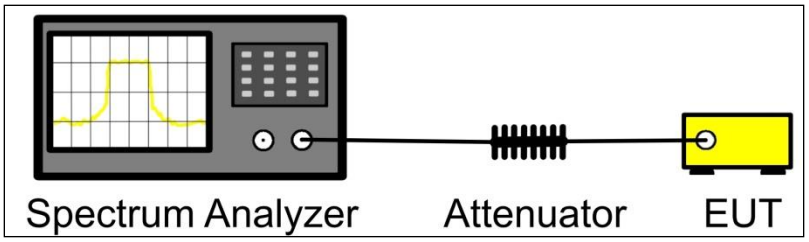
**Test Procedure:** The transmitter was set to low, mid, and high operating frequencies at the highest output power and connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using a RBW approximately equal to 1% of the total emission bandwidth, VBW > RBW. The 26 dB Bandwidth was measured and recorded.

**Test Results** The 26 dB Bandwidth was compliant with the requirements of this section.

No anomalies detected.

**Test Engineer(s):** Arsalan Hasan

**Test Date(s):** June 1, 2019



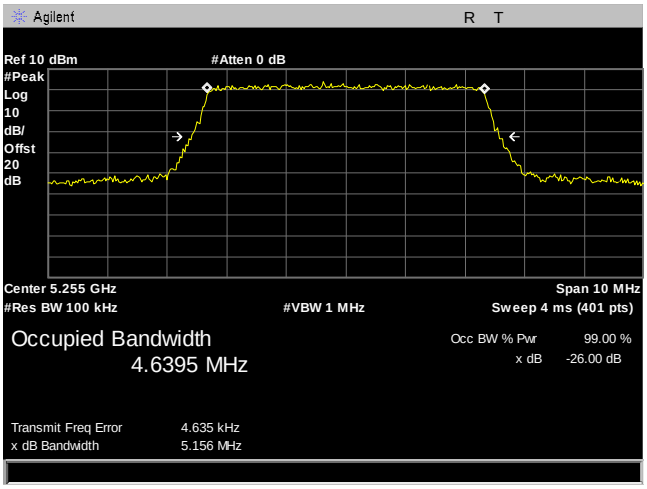
| Bandwidth (MHz) | Frequency (MHz) | Occupied bandwidth (MHz) |
|---|---|---|
| 5 | 5255.0 | 5.156 |
| | 5300.0 | 5.167 |
| | 5345.0 | 5.198 |
| 10 | 5260.0 | 10.145 |
| | 5300.0 | 9.964 |
| | 5340.0 | 10.140 |
| 20 | 5265.0 | 20.564 |
| | 5300.0 | 20.528 |
| | 5335.0 | 20.447 |
| 40 | 5275.0 | 39.167 |
| | 5300.0 | 40.936 |
| | 5325.0 | 40.607 |

Table 10. 26 dB Occupied Bandwidth, UNII 2A Test Results

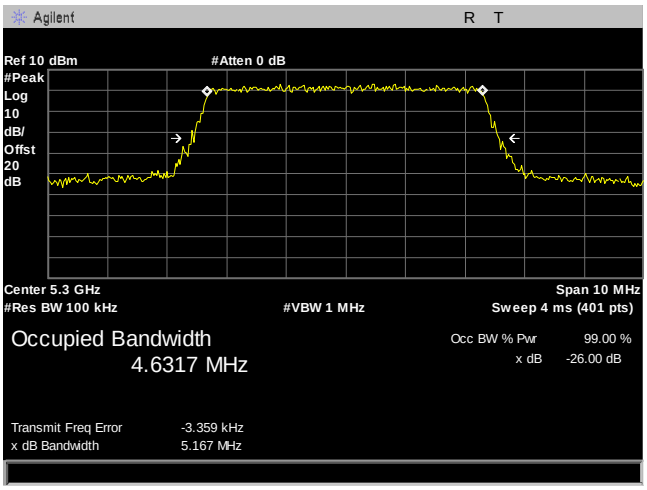
| Bandwidth (MHz) | Frequency (MHz) | Occupied bandwidth (MHz) |
|---|---|---|
| 5 | 5475.0 | 5.215 |
| | 5598.0 | 5.156 |
| | 5720.0 | 5.204 |
| 10 | 5470.0 | 10.029 |
| | 5598.0 | 10.158 |
| | 5715.0 | 10.057 |
| 20 | 5485.0 | 20.619 |
| | 5598.0 | 20.450 |
| | 5710.0 | 20.519 |
| 40 | 5495.0 | 40.038 |
| | 5598.0 | 40.576 |
| | 5705.0 | 40.639 |

Table 10. 26 dB Occupied Bandwidth, UNII 2C Test Results

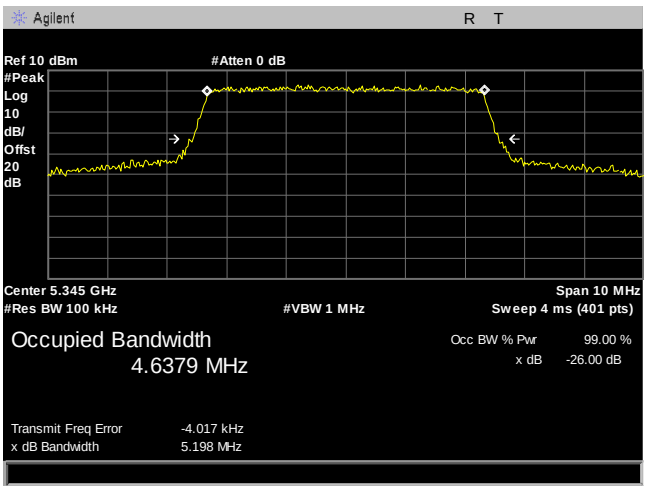
  




**Plot 1. 26 dB Occupied Bandwidth, 5MHz, 5255MHz**

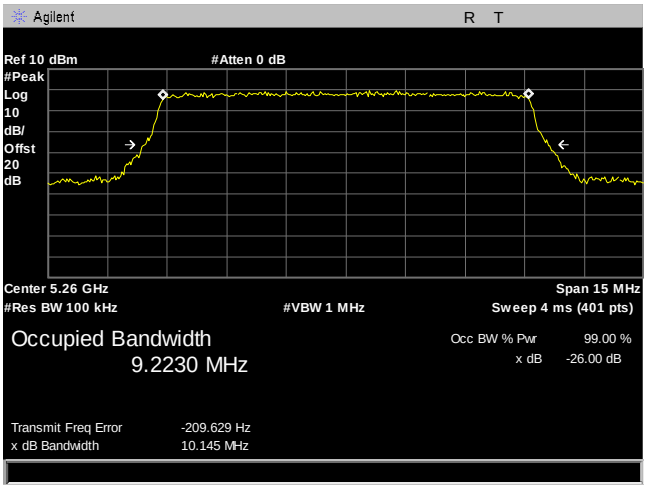



**Plot 2. 26 dB Occupied Bandwidth, 5MHz, 5300MHz**

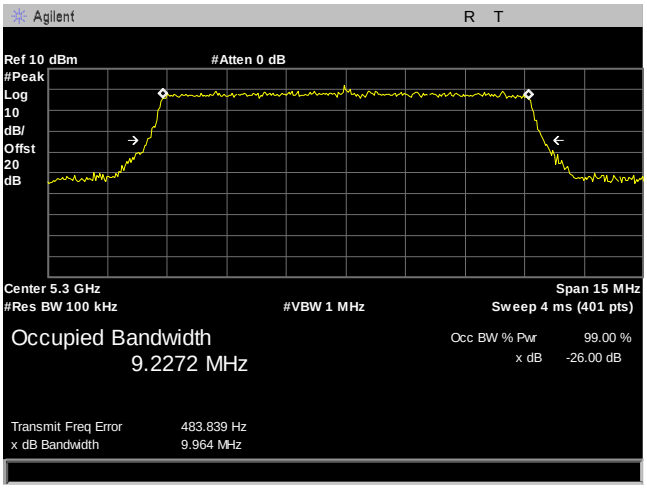



**Plot 3. 26 dB Occupied Bandwidth, 5MHz, 5345MHz**

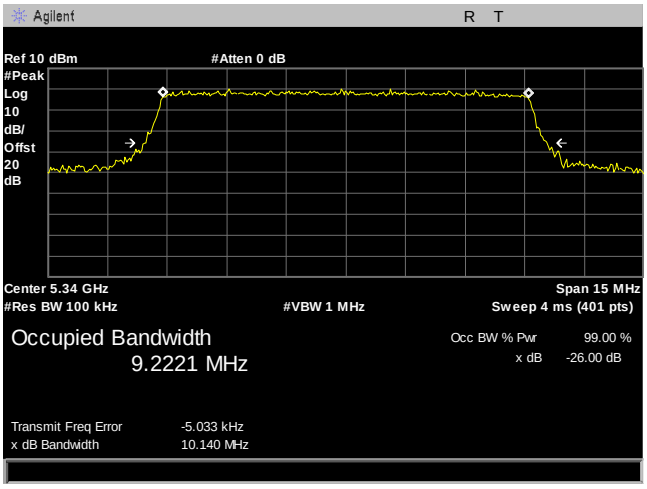
  




**Plot 4. 26 dB Occupied Bandwidth, 10MHz, 5260MHz**

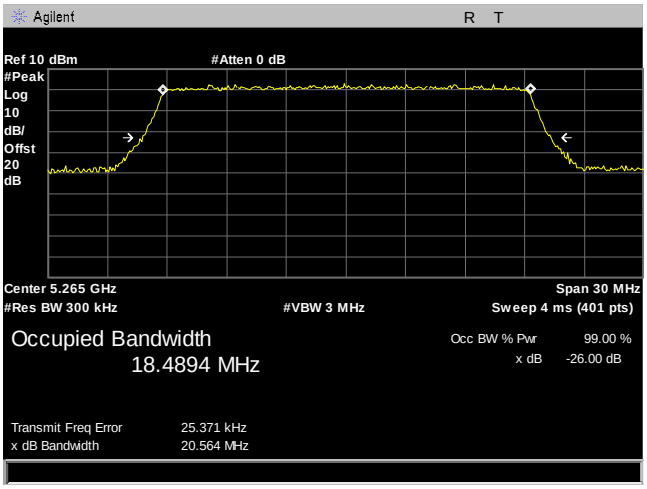



**Plot 5. 26 dB Occupied Bandwidth, 10MHz, 5300MHz**

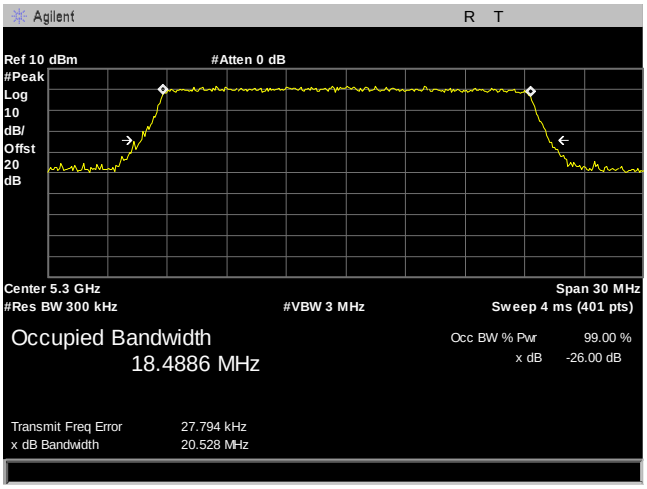



**Plot 6. 26 dB Occupied Bandwidth, 10MHz, 5340MHz**

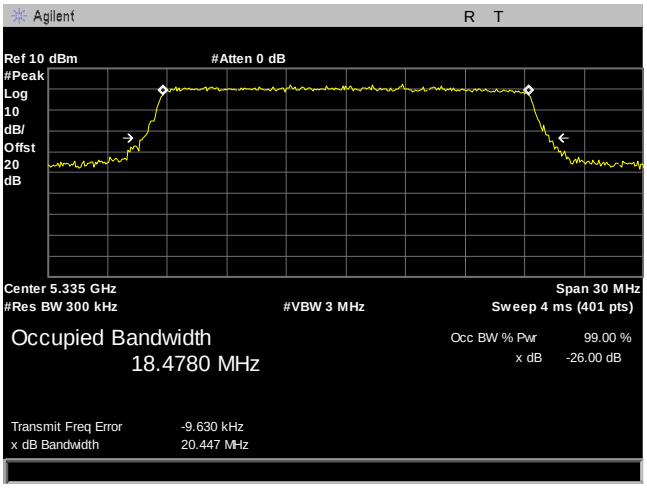
  




**Plot 7. 26 dB Occupied Bandwidth, 20MHz, 5265MHz**

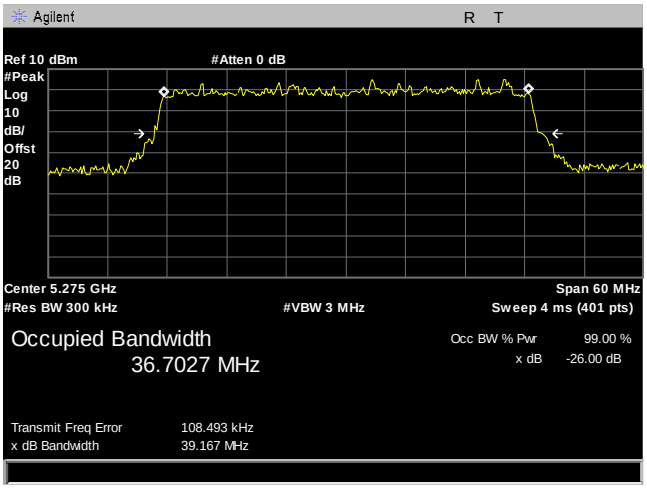



**Plot 8. 26 dB Occupied Bandwidth, 20MHz, 5300MHz**

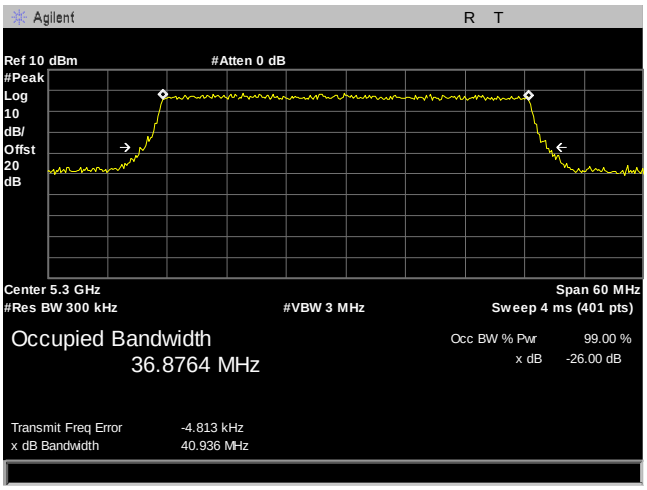



**Plot 9. 26 dB Occupied Bandwidth, 20MHz, 5335MHz**

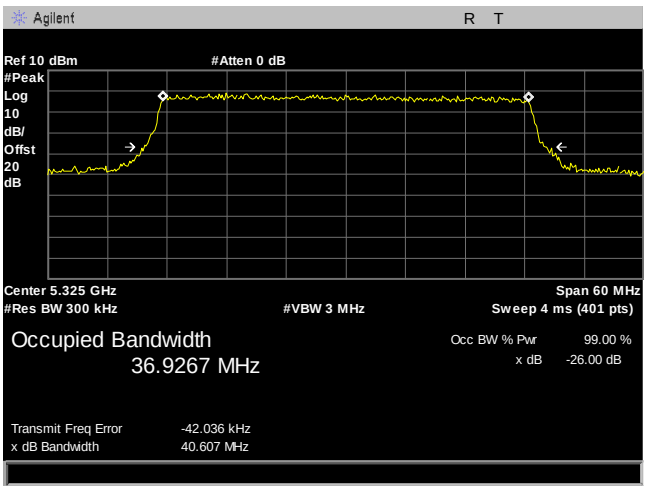
  




**Plot 10. 26 dB Occupied Bandwidth, 40MHz, 5275MHz**

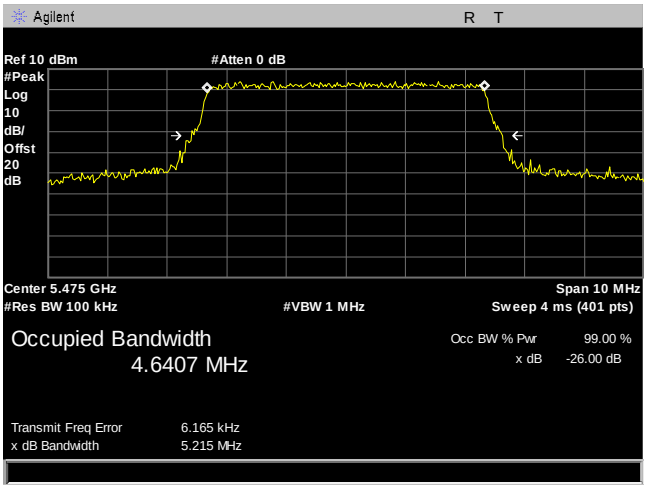



**Plot 11. 26 dB Occupied Bandwidth, 40MHz, 5300MHz**

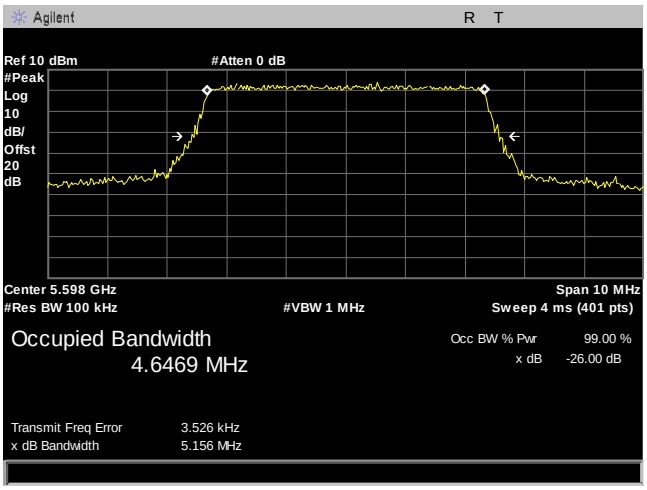



**Plot 12. 26 dB Occupied Bandwidth, 40MHz, 5325MHz**

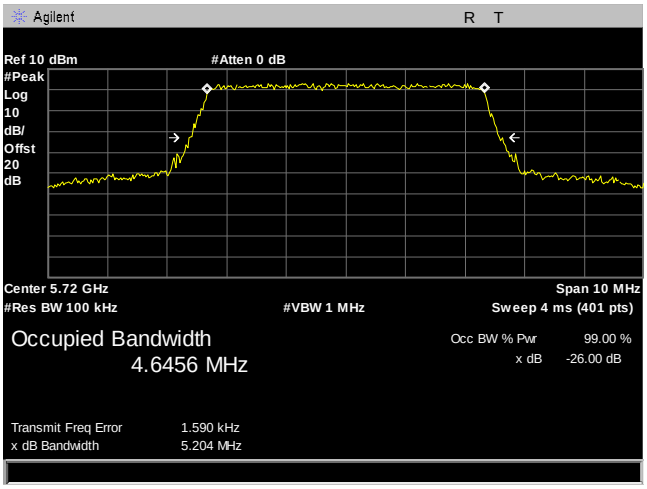



**Plot 13. 26 dB Occupied Bandwidth, 5MHz, 5475MHz**

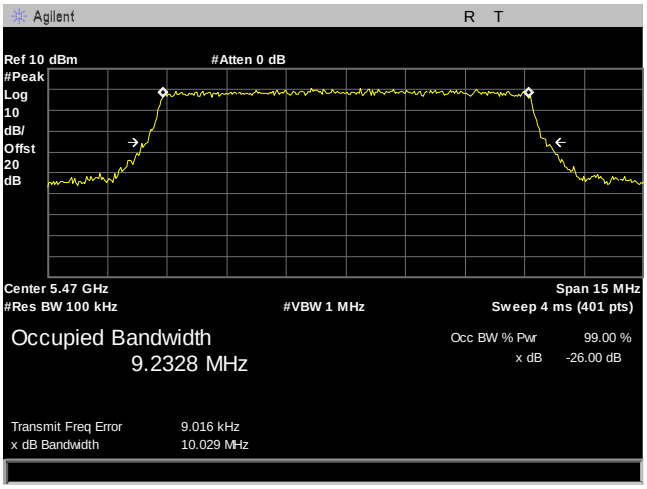



**Plot 14. 26 dB Occupied Bandwidth, 5MHz, 5598MHz**

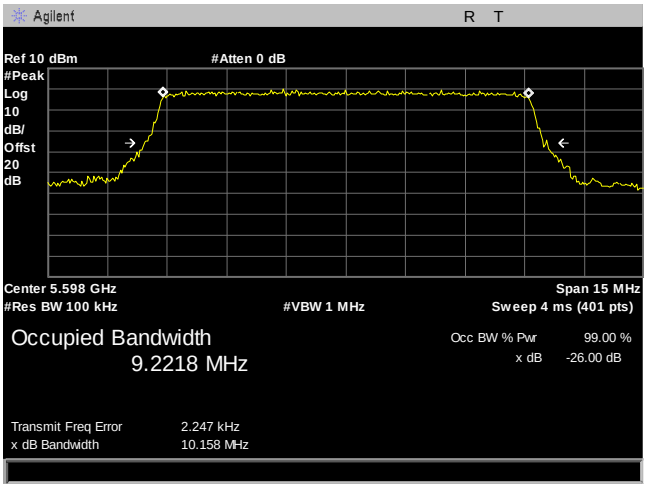
  




**Plot 15. 26 dB Occupied Bandwidth, 5MHz, 5720MHz**

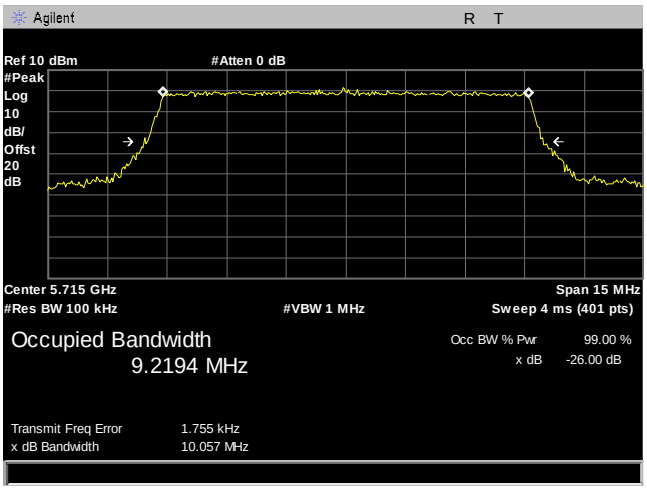



**Plot 16. 26 dB Occupied Bandwidth, 10MHz, 5480MHz**

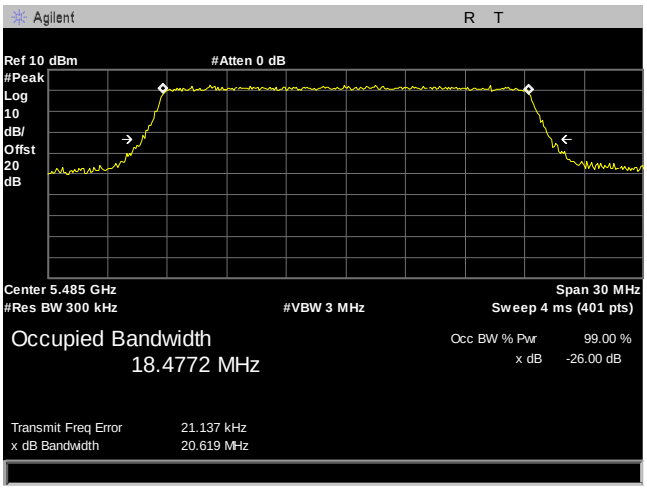



**Plot 17. 26 dB Occupied Bandwidth, 10MHz, 5598MHz**

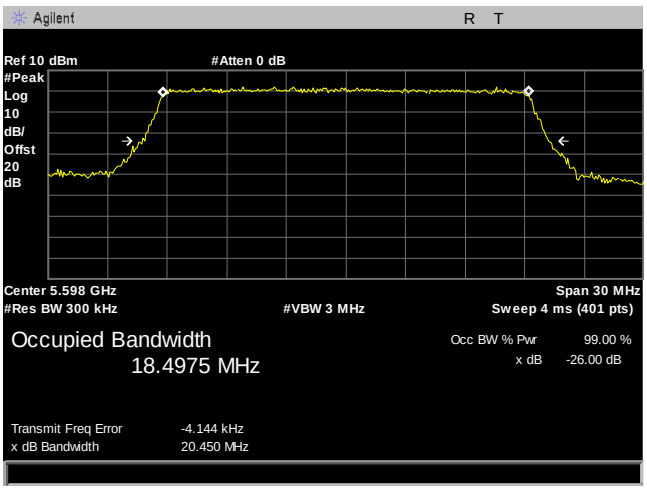
  




**Plot 18. 26 dB Occupied Bandwidth, 10MHz, 5715MHz**

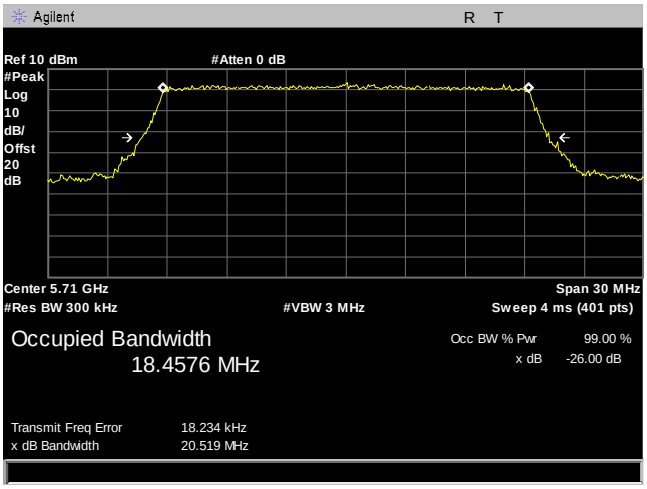



**Plot 19. 26 dB Occupied Bandwidth, 20MHz, 5485MHz**

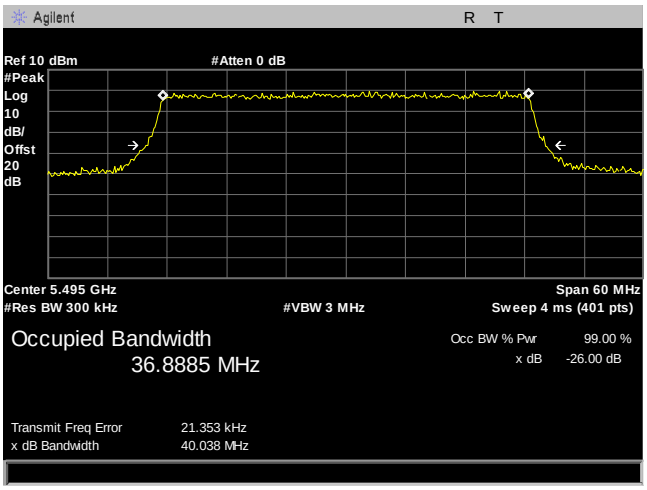



**Plot 20. 26 dB Occupied Bandwidth, 20MHz, 5598MHz**

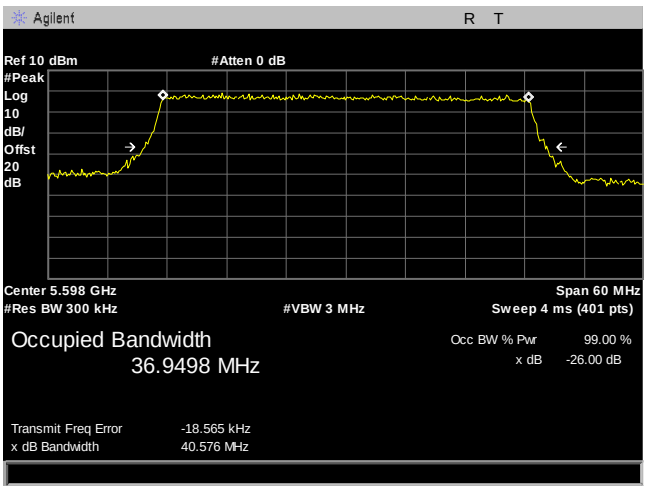
  




**Plot 21. 26 dB Occupied Bandwidth, 20MHz, 5710MHz**

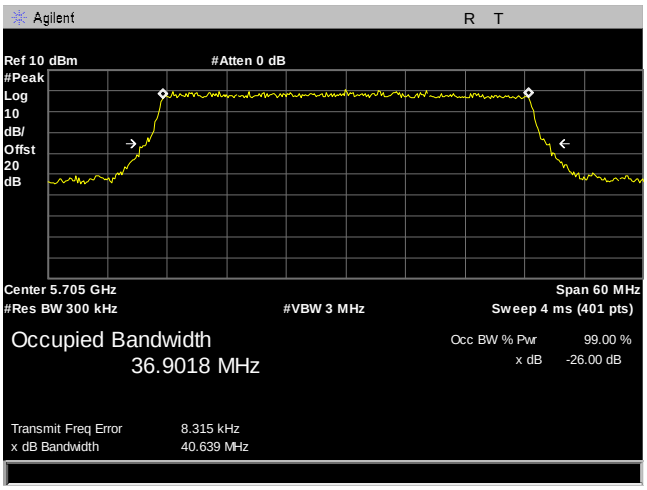



**Plot 22. 26 dB Occupied Bandwidth, 40MHz, 5495MHz**




**Plot 23. 26 dB Occupied Bandwidth, 40MHz, 5598MHz**




**Plot 24. 26 dB Occupied Bandwidth, 40MHz, 5700MHz**

## Electromagnetic Compatibility Criteria for Intentional Radiators

## §15. 407(a)(2) Maximum Conducted Output Power

**Test Requirements:** **§15.407(a)(2):** For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 24dBm (250 mW) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.
If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**§15.407(h)(1):** Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

**Test Procedure:** The EUT was connected to a spectrum analyzer through a cable and attenuator. Measurements were taken with the EUT set to transmit continuously on its low, mid, and high channels. Its power was measured according to measurement method SA-1, as described in 789033 D02 General UNII Test Procedures v01.

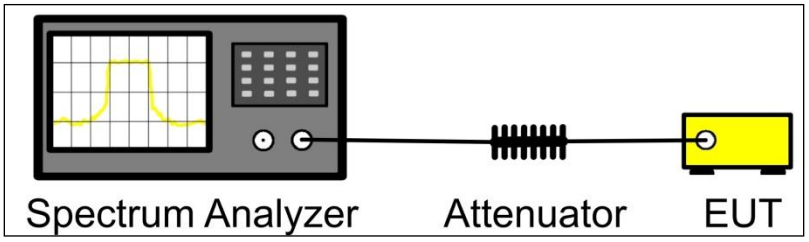
To verify the TPC requirement of the rule part, observations using the same measurement method were made with the EUT set to a lower power setting.

**Test Results:** The EUT as tested is compliant with the requirements of this section.

No anomalies detected.

**Test Engineer(s):** Arsalan Hasan

**Test Date(s):** Jun 15, 2019



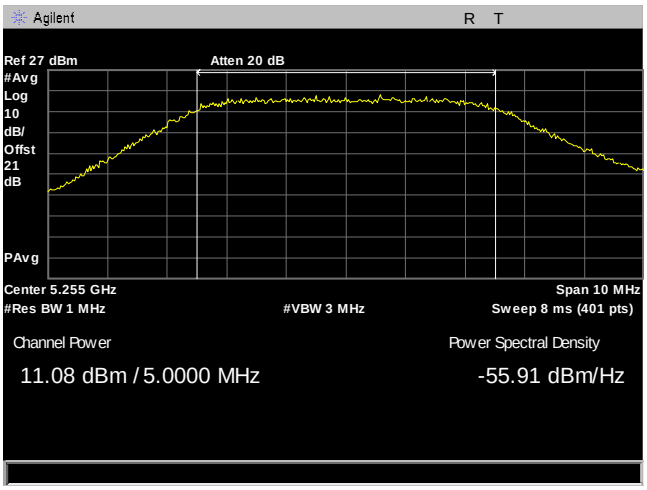
| Frequency (MHz) | Power Port 1 (dBm) | Power Port 2 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | Power Limit (dBm) | Power Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5255.0 | 11.08 | 11.03 | 14.07 | 17.68 | 8.00 | 15.68 | -1.61 |
| 5300.0 | 11.11 | 11.13 | 14.13 | 17.66 | 8.00 | 15.66 | -1.53 |
| 5345.0 | 11.03 | 10.92 | 13.99 | 17.67 | 8.00 | 15.67 | -1.68 |
| 10 MHz | | | | | | | |
| 5260.0 | 14.2 | 14.45 | 17.34 | 20.65 | 8.00 | 18.65 | -1.32 |
| 5300.0 | 13.85 | 13.99 | 16.93 | 20.65 | 8.00 | 18.65 | -1.72 |
| 5340.0 | 13.81 | 13.86 | 16.85 | 20.65 | 8.00 | 18.65 | -1.80 |
| 20 MHz | | | | | | | |
| 5265.0 | 17.1 | 17.28 | 20.20 | 23.67 | 8.00 | 21.67 | -1.47 |
| 5300.0 | 16.8 | 16.95 | 19.89 | 23.67 | 8.00 | 21.67 | -1.79 |
| 5335.0 | 16.33 | 16.72 | 19.54 | 23.66 | 8.00 | 21.66 | -2.12 |
| 40MHz | | | | | | | |
| 5275.0 | 17.29 | 17.19 | 20.25 | 24.00 | 8.00 | 22.00 | -1.75 |
| 5300.0 | 17.15 | 17.02 | 20.10 | 24.00 | 8.00 | 22.00 | -1.90 |
| 5325.0 | 16.75 | 16.89 | 19.83 | 24.00 | 8.00 | 22.00 | -2.17 |

**Table 11. Maximum Conducted Transmitter Power, 8 Omni, UNII 2A Test Results**

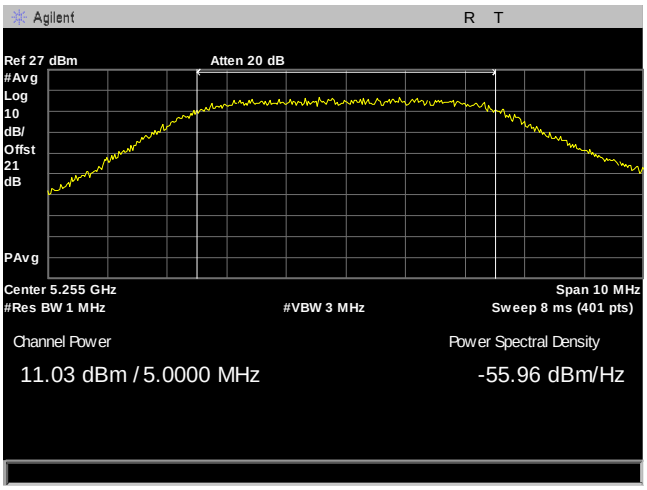
| Frequency (MHz) | Power Port 1 (dBm) | Power Port 2 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | Power Limit (dBm) | Power Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5475.0 | 11.63 | 11.25 | 14.45 | 17.68 | 8.00 | 15.68 | -1.22 |
| 5598.0 | 11.01 | 11.11 | 14.07 | 17.66 | 8.00 | 15.66 | -1.59 |
| 5720.0 | 11.26 | 11.57 | 14.43 | 17.67 | 8.00 | 15.67 | -1.24 |
| 10 MHz | | | | | | | |
| 5480.0 | 14.33 | 14.75 | 17.56 | 20.65 | 8.00 | 18.65 | -1.10 |
| 5598.0 | 14.43 | 14.35 | 17.40 | 20.65 | 8.00 | 18.65 | -1.25 |
| 5715.0 | 14.5 | 14.63 | 17.58 | 20.65 | 8.00 | 18.65 | -1.07 |
| 20 MHz | | | | | | | |
| 5485.0 | 17.75 | 17.51 | 20.64 | 23.67 | 8.00 | 21.67 | -1.02 |
| 5598.0 | 17.11 | 17.03 | 20.08 | 23.67 | 8.00 | 21.67 | -1.59 |
| 5710.0 | 17.97 | 17.73 | 20.86 | 23.66 | 8.00 | 21.66 | -0.80 |
| 40MHz | | | | | | | |
| 5495.0 | 17.56 | 17.43 | 20.51 | 24.00 | 8.00 | 22.00 | -1.49 |
| 5598.0 | 17.28 | 17.34 | 20.32 | 24.00 | 8.00 | 22.00 | -1.68 |
| 5700.0 | 17.53 | 17.78 | 20.67 | 24.00 | 8.00 | 22.00 | -1.33 |

**Table 12. Maximum Conducted Transmitter Power, 8 Omni, UNII 2C Test Results**

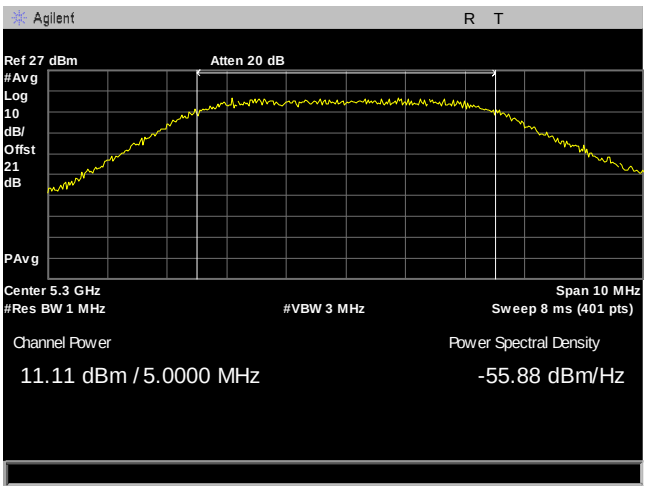
  




**Plot 25. Maximum Conducted Transmit Power, 8Omni, 5MHz, 5255MHz, Port 1**

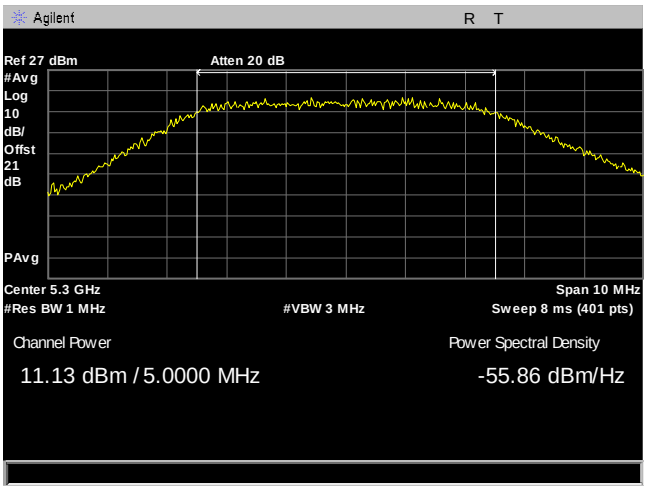



**Plot26. Maximum Conducted Transmit Power, 8Omni, 5MHz, 5255MHz, Port 2**

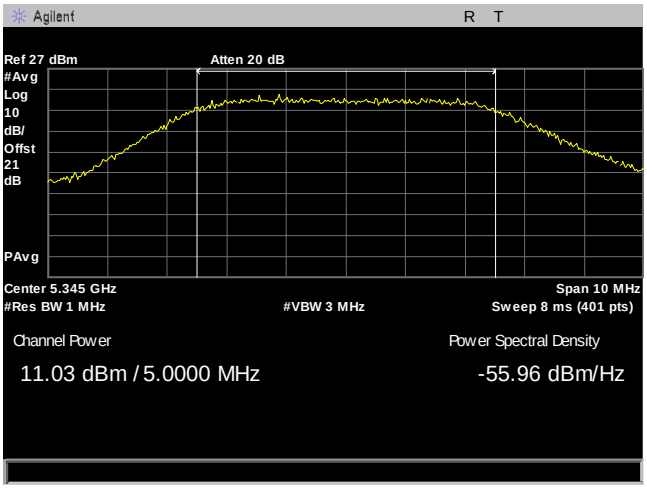



**Plot 27. Maximum Conducted Transmit Power, 8Omni, 5MHz, 5300MHz, Port 1**

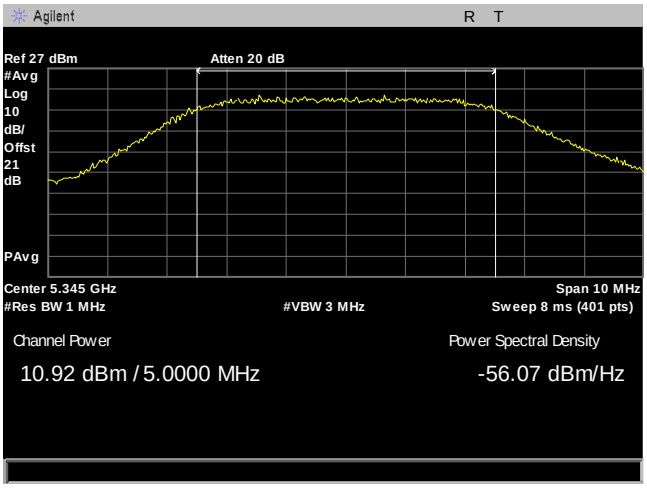
  




**Plot 28. Maximum Conducted Transmit Power, 8Omni, 5MHz, 5300MHz, Port 2**

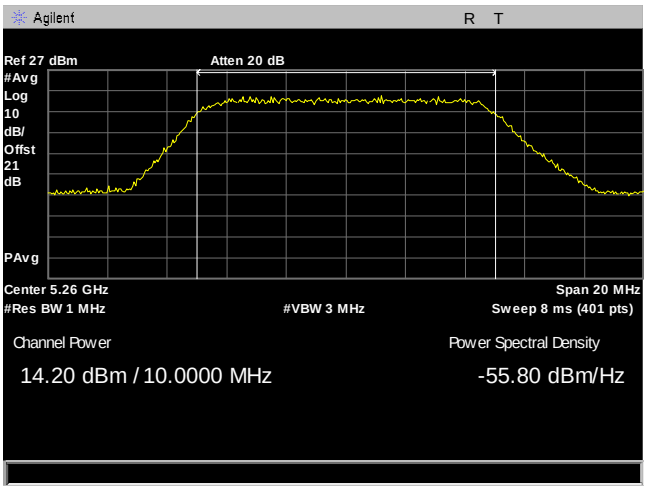



**Plot 29. Maximum Conducted Transmit Power, 8Omni, 5M, 5345, Port 1**

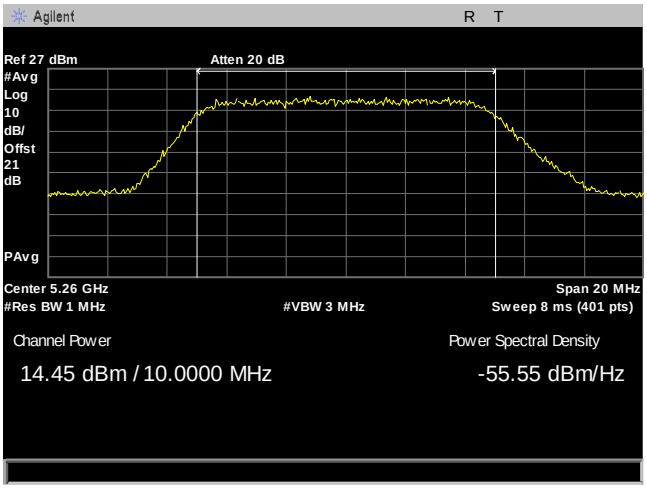



**Plot 30. Maximum Conducted Transmit Power, 8Omni, 5M, 5345, Port 2**

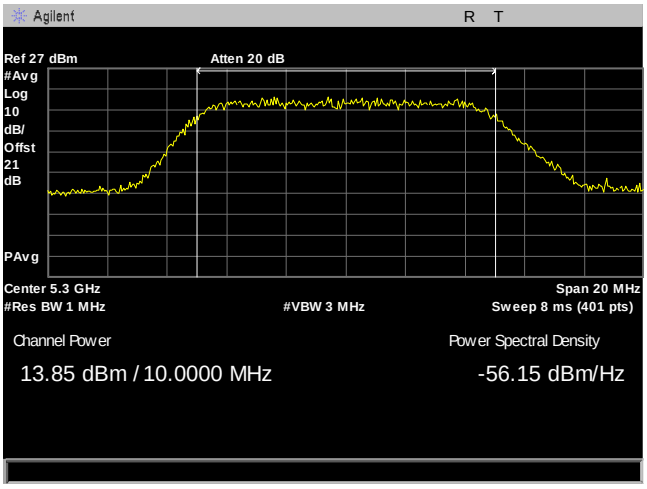
  




**Plot 31. Maximum Conducted Transmit Power, 8Omni, 10M, 5260, Port 1**

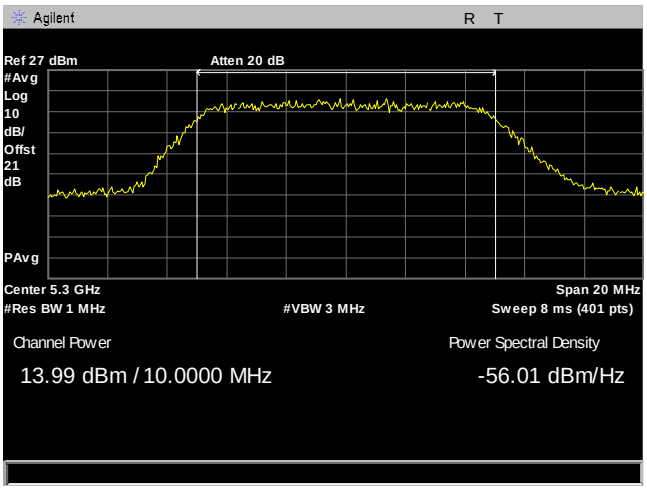



**Plot 32. Maximum Conducted Transmit Power, 8Omni, 10M, 5260, Port 2**

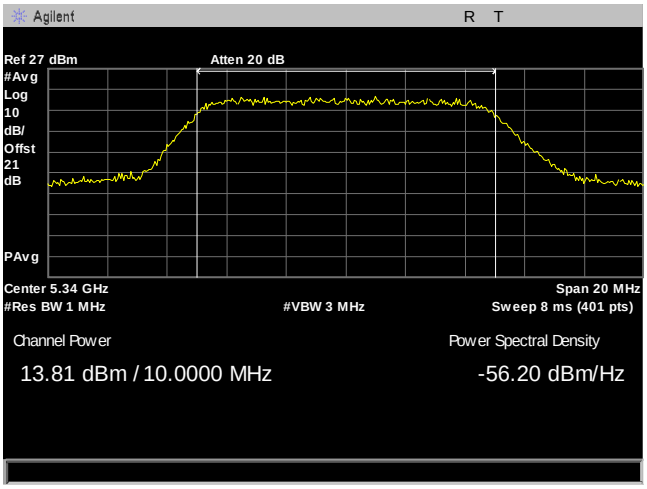



**Plot 33. Maximum Conducted Transmit Power, 8Omni, 10M, 5300, Port 1**

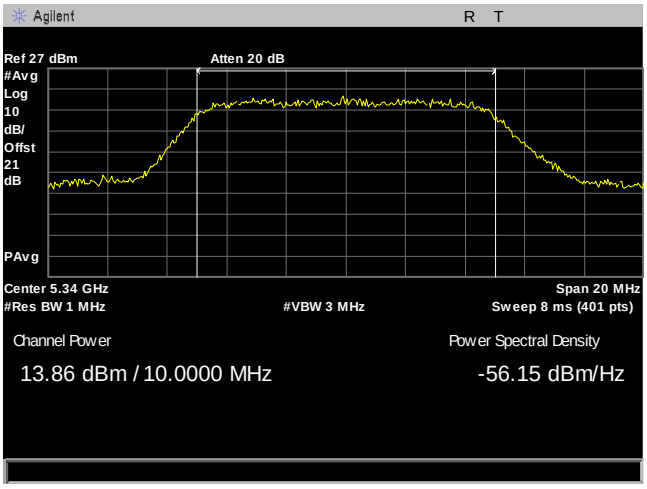
  




**Plot 34. Maximum Conducted Transmit Power, 8Omni, 10M, 5300, Port 2**

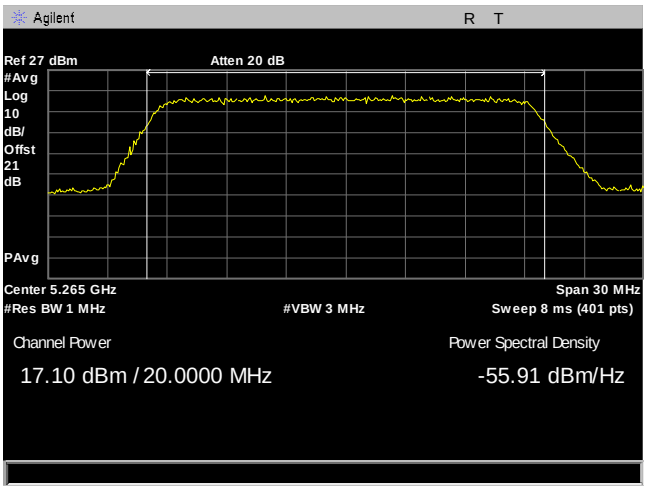



**Plot 35. Maximum Conducted Transmit Power, 8Omni, 10M, 5340, Port 1**

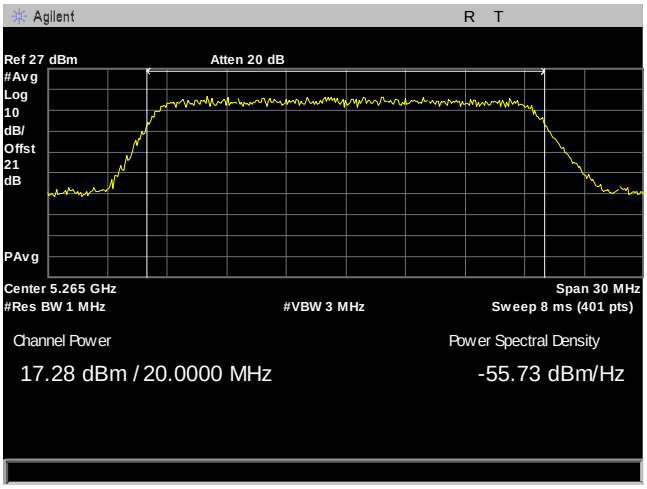



**Plot 36. Maximum Conducted Transmit Power, 8Omni, 10M, 5340, Port 2**

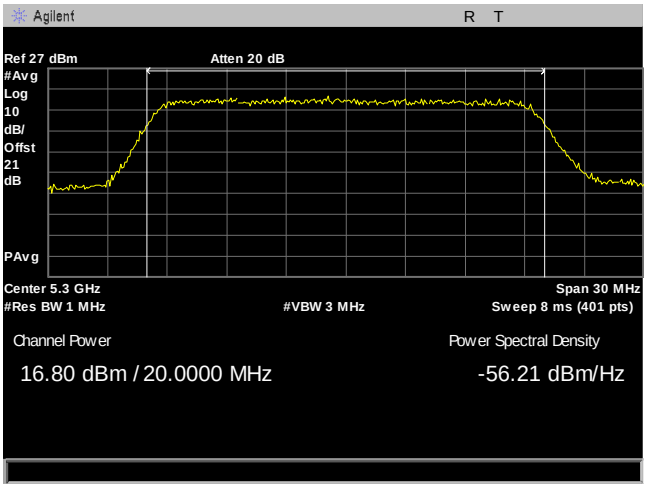
  




**Plot 37. Maximum Conducted Transmit Power, 8Omni, 20M, 5265, Port 1**

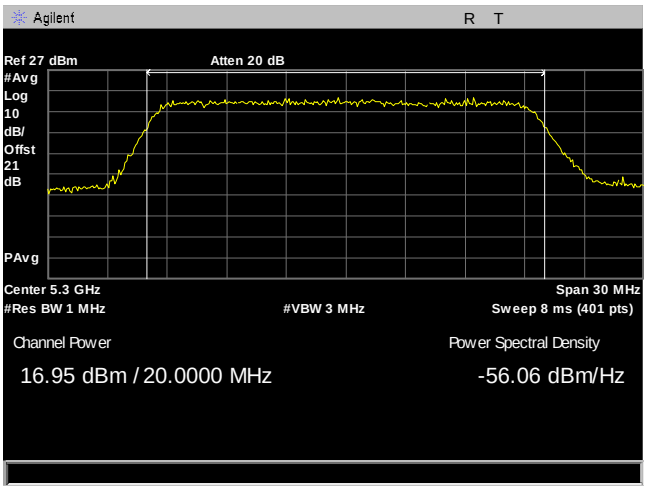



**Plot 38. Maximum Conducted Transmit Power, 8Omni, 20M, 5265, Port 2**

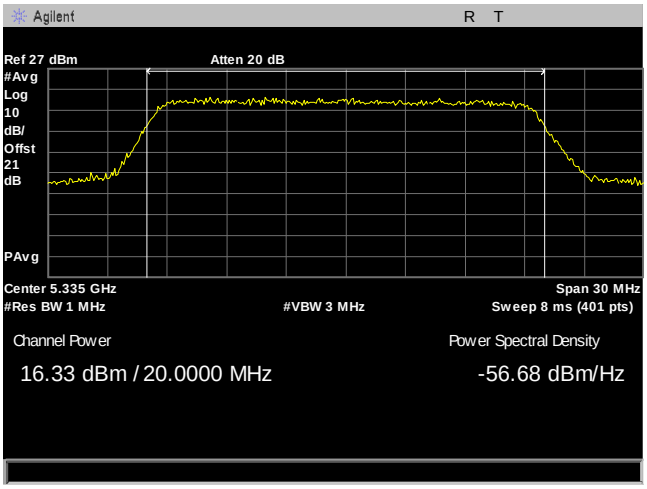



**Plot 39. Maximum Conducted Transmit Power, 8Omni, 20M, 5300, Port 1**

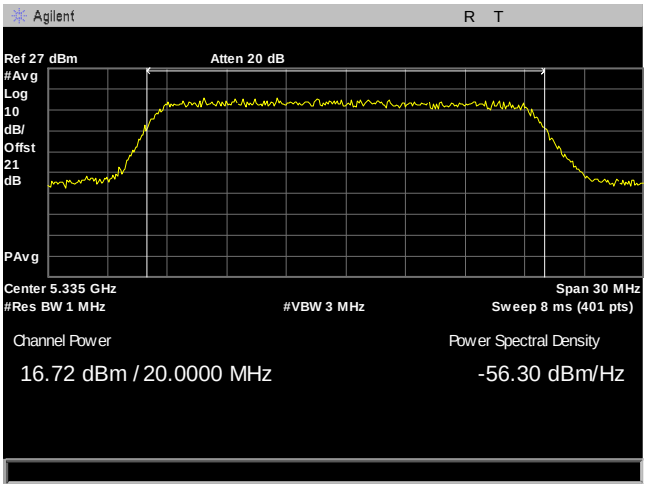
  




**Plot 40. Maximum Conducted Transmit Power, 8Omni, 20M, 5300, Port 2**

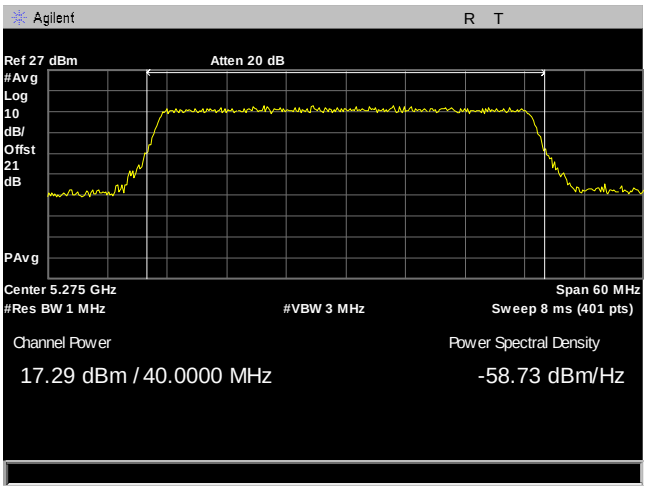



**Plot 41. Maximum Conducted Transmit Power, 8Omni, 20M, 5335, Port 1**

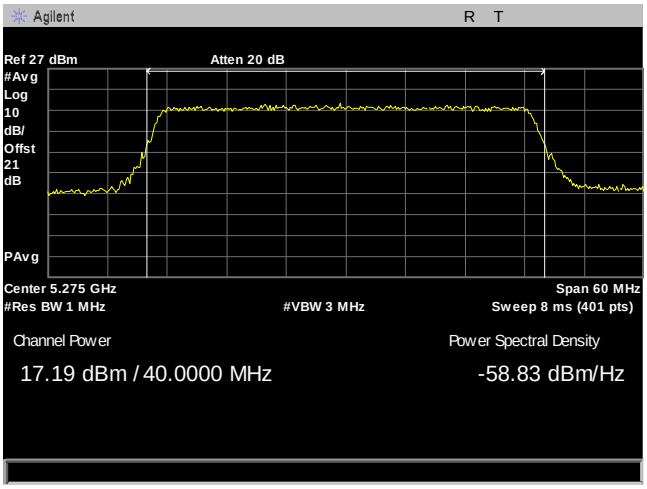



**Plot 42. Maximum Conducted Transmit Power, 8Omni, 20M, 5335, Port 2**

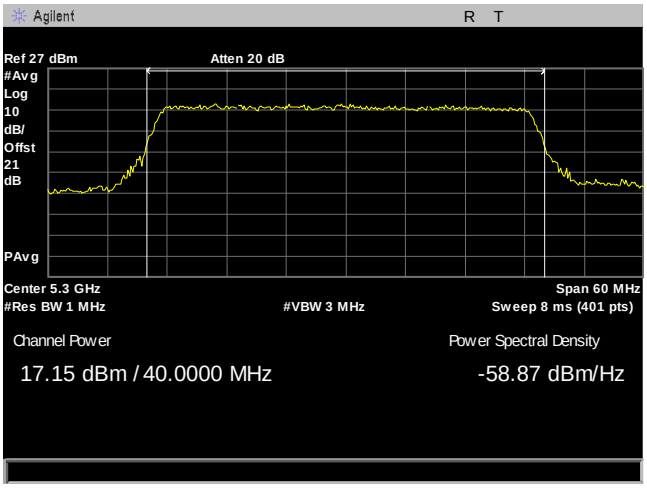
  




**Plot 43. Maximum Conducted Transmit Power, 8Omni, 40M, 5275, Port 1**

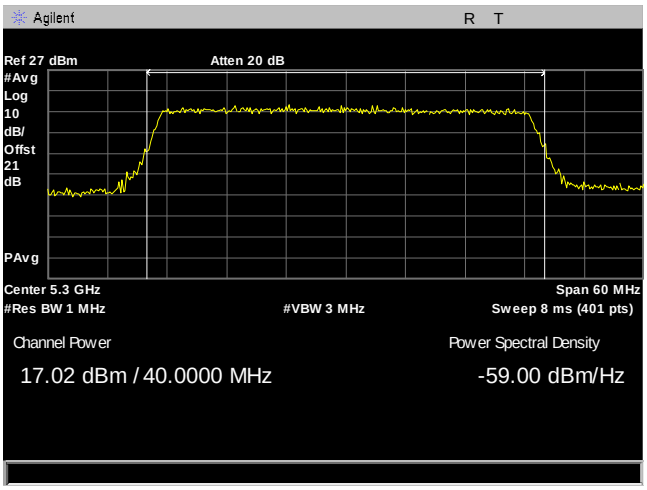



**Plot 44. Maximum Conducted Transmit Power, 8Omni, 40M, 5275, Port 2**

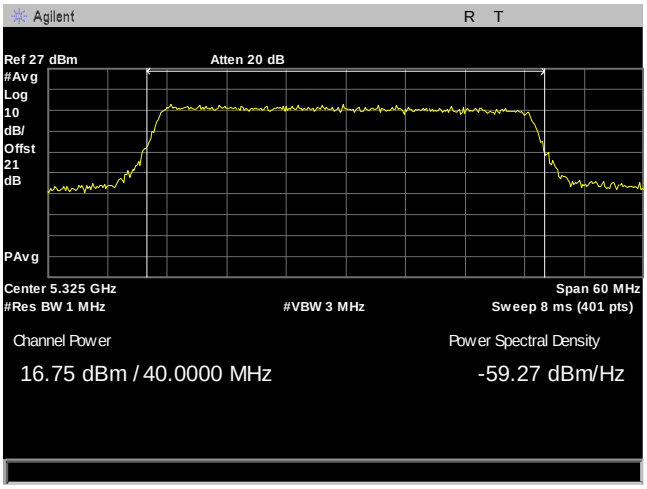



**Plot 33. Maximum Conducted Transmit Power, 8Omni, 40M, 5300, Port 1**

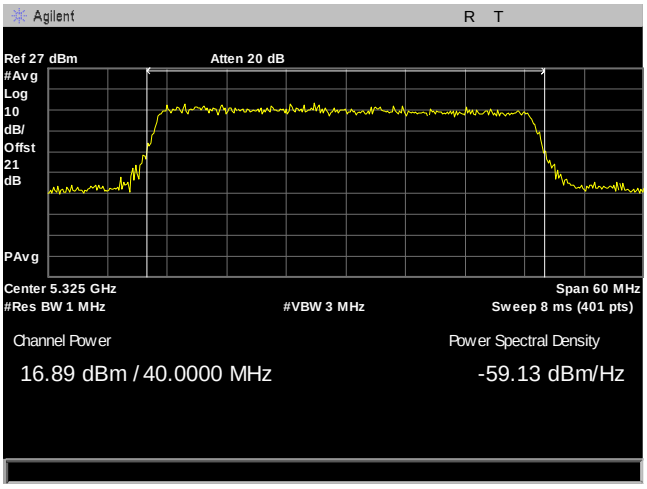
  




**Plot 45. Maximum Conducted Transmit Power, 8Omni, 40M, 5300, Port 2**

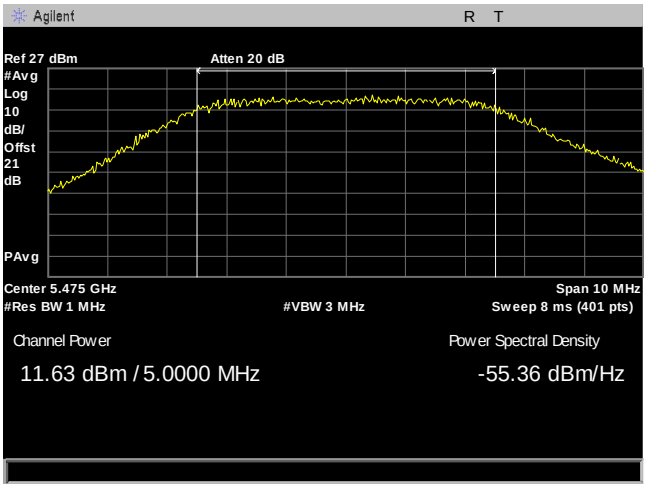



**Plot 46. Maximum Conducted Transmit Power, 8Omni, 40M, 5325, Port 1**

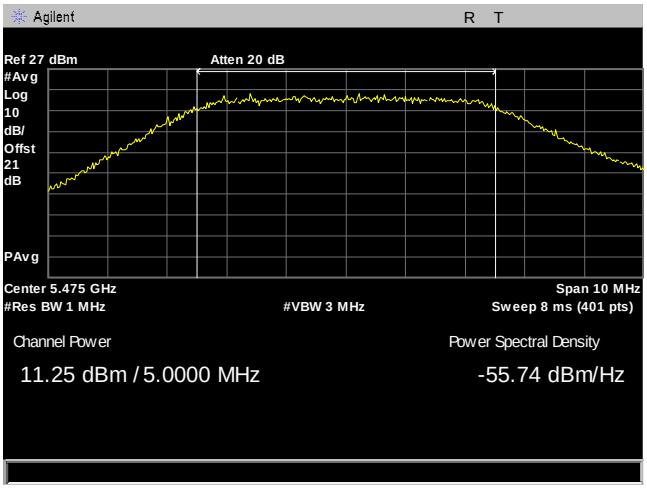



**Plot 47. Maximum Conducted Transmit Power, 8Omni, 40M, 5325, Port 2**

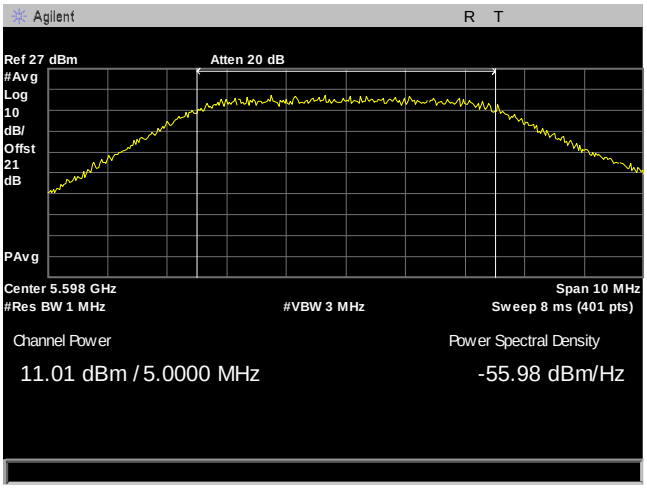
  




**Plot 48. Maximum Conducted Transmit Power, 8Omni, 5M, 5475, Port 1**

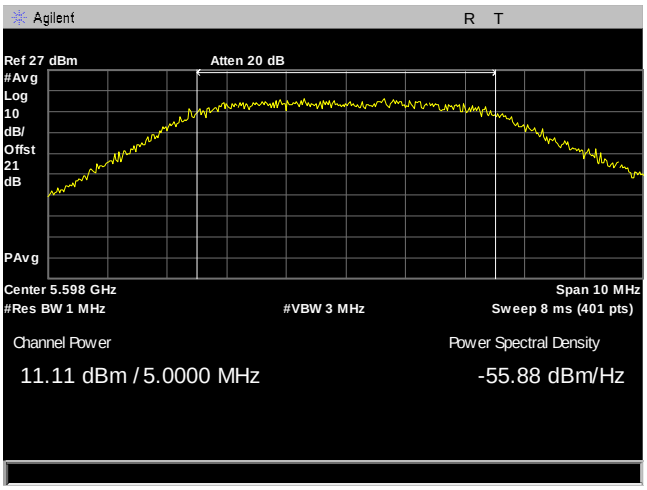



**Plot 49. Maximum Conducted Transmit Power, 8Omni, 5M, 5475, Port 2**

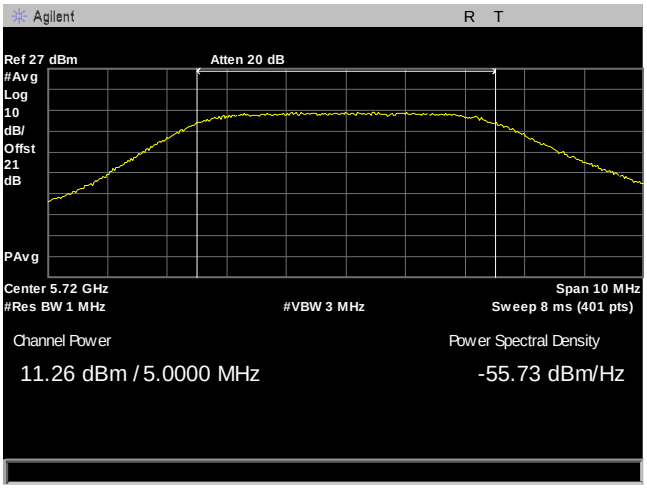



**Plot 50. Maximum Conducted Transmit Power, 8Omni, 5M, 5598, Port 1**

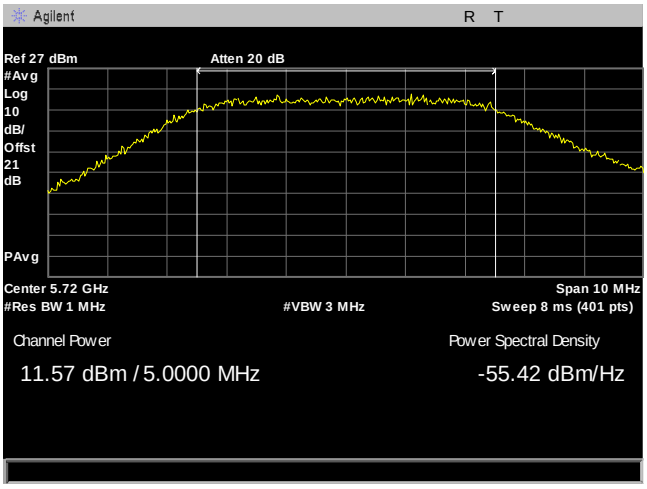
  




**Plot 51. Maximum Conducted Transmit Power, 8Omni, 5M, 5598, Port 2**

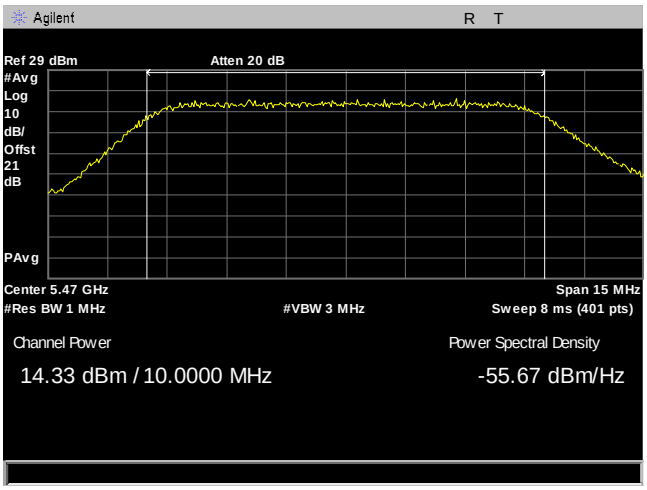



**Plot 52. Maximum Conducted Transmit Power, 8Omni, 5M, 5720, Port 1**

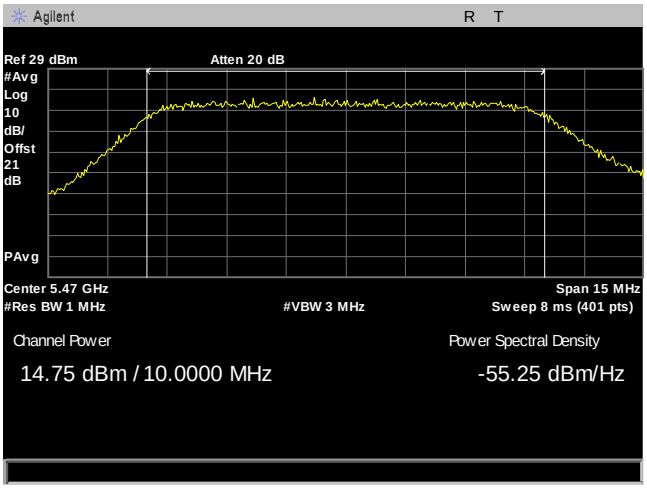



**Plot 53. Maximum Conducted Transmit Power, 8Omni, 5M, 5720, Port 2**

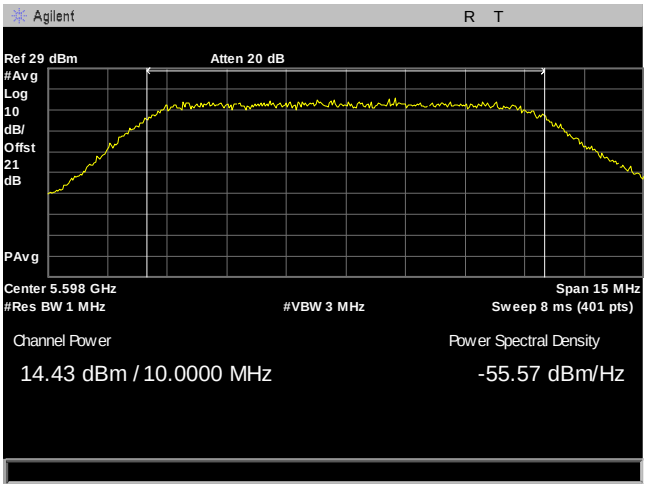
  




**Plot 54. Maximum Conducted Transmit Power, 8Omni, 10M, 5480, Port 1**

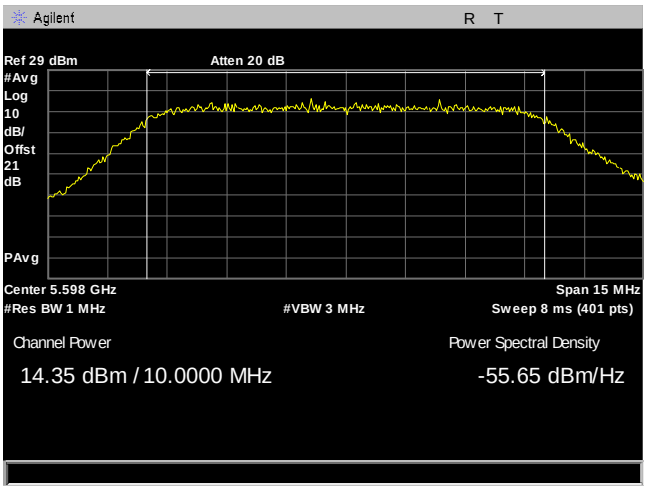



**Plot 55. Maximum Conducted Transmit Power, 8Omni, 10M, 5480, Port 2**

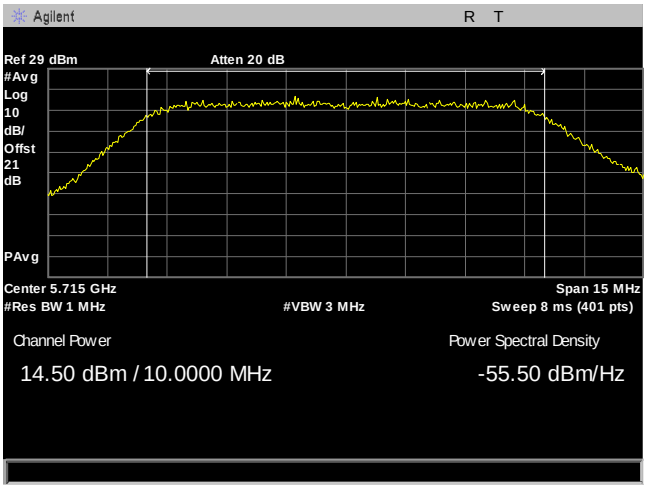



**Plot 56. Maximum Conducted Transmit Power, 8Omni, 10M, 5598, Port 1**

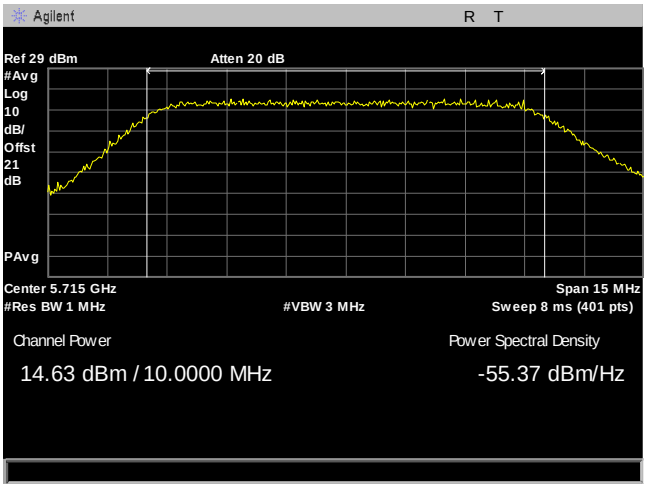
  




**Plot 57. Maximum Conducted Transmit Power, 8Omni, 10M, 5598, Port 2**

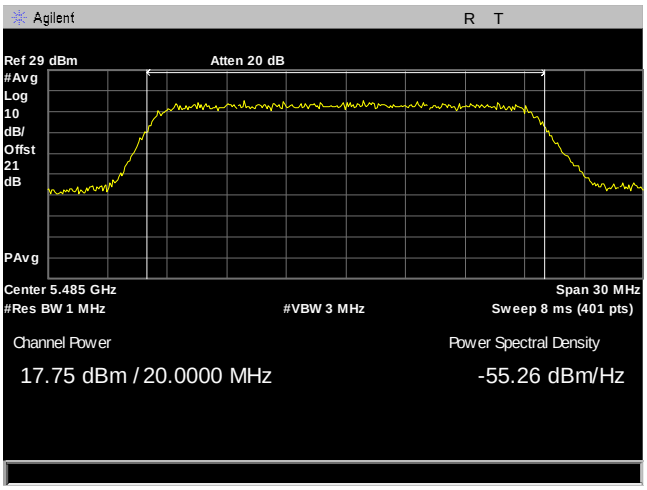



**Plot 58. Maximum Conducted Transmit Power, 8Omni, 10M, 5715, Port 1**

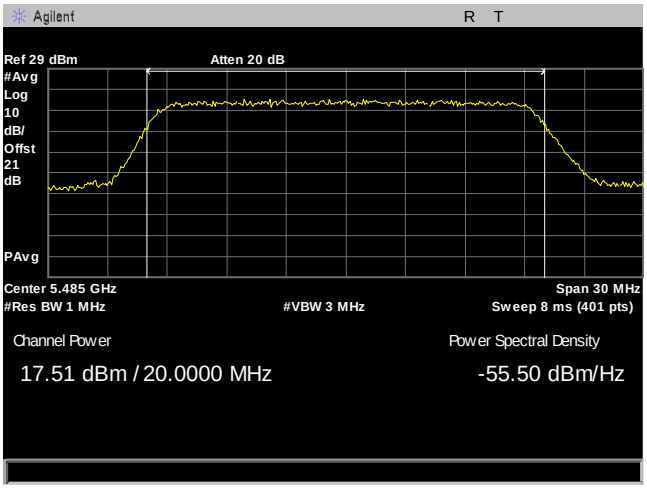



**Plot 59. Maximum Conducted Transmit Power, 8Omni, 10M, 5715, Port 2**

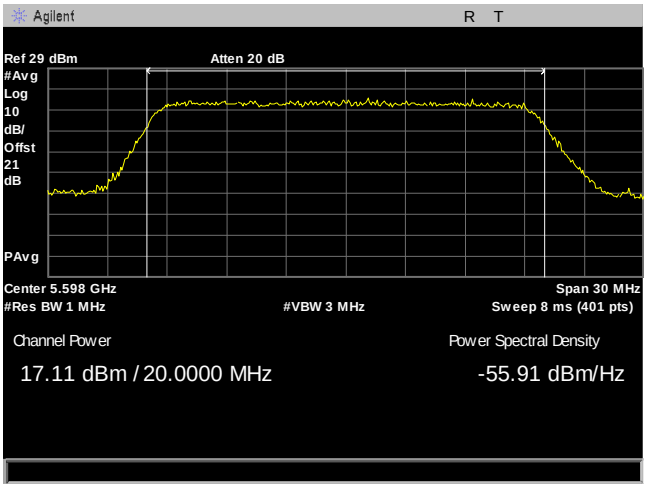
  




**Plot 60. Maximum Conducted Transmit Power, 8Omni, 20M, 5485, Port 1**

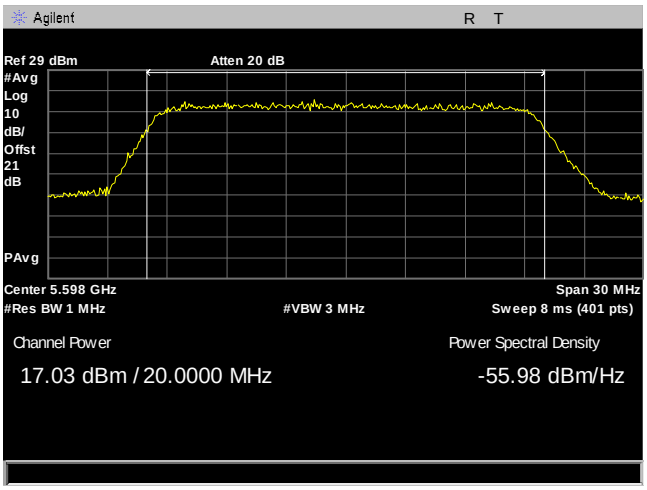



**Plot 61. Maximum Conducted Transmit Power, 8Omni, 20M, 5485, Port 2**

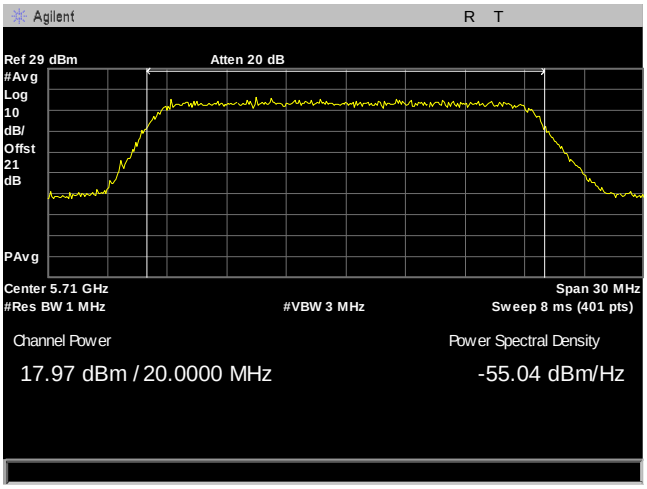



**Plot 62. Maximum Conducted Transmit Power, 8Omni, 20M, 5598, Port 1**

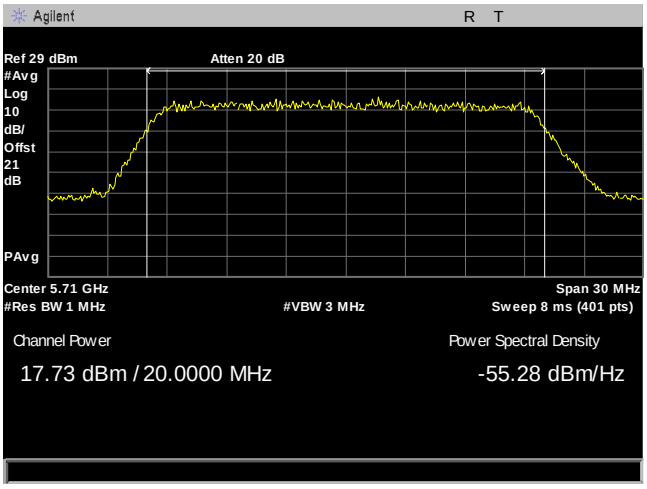
  




**Plot 63. Maximum Conducted Transmit Power, 8Omni, 20M, 5598, Port 2**

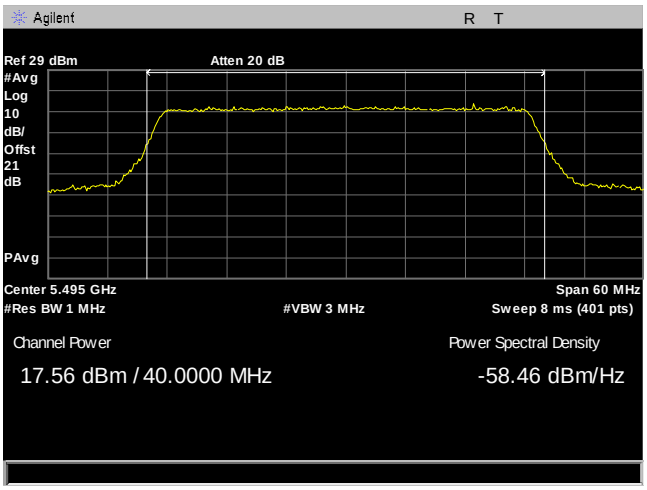



**Plot 64. Maximum Conducted Transmit Power, 8Omni, 20M, 5710, Port 1**

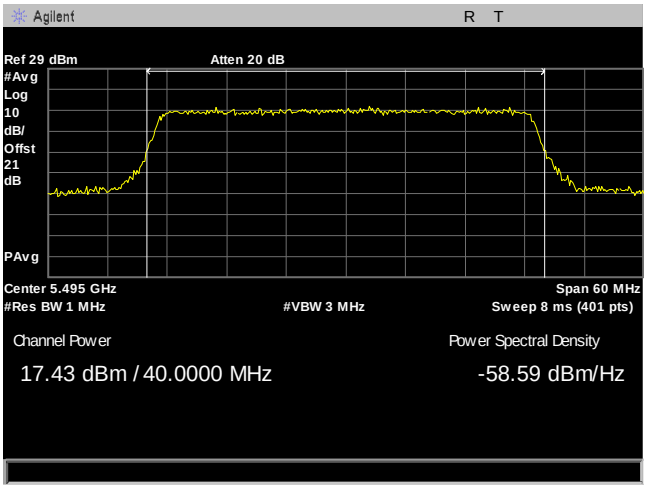



**Plot 65. Maximum Conducted Transmit Power, 8Omni, 20M, 5710, Port 2**

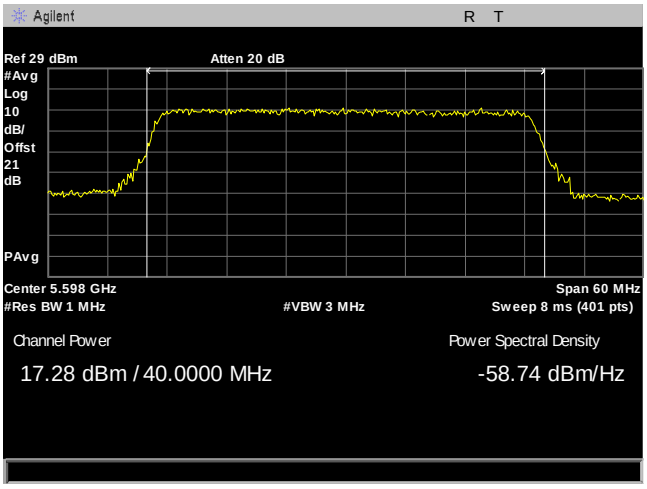
  




**Plot 66. Maximum Conducted Transmit Power, 8Omni, 40M, 5495, Port 1**

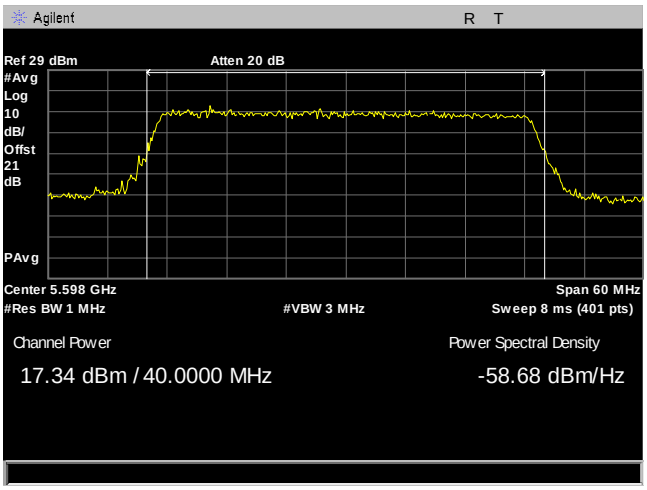



**Plot 67. Maximum Conducted Transmit Power, 8Omni, 40M, 5495, Port 2**

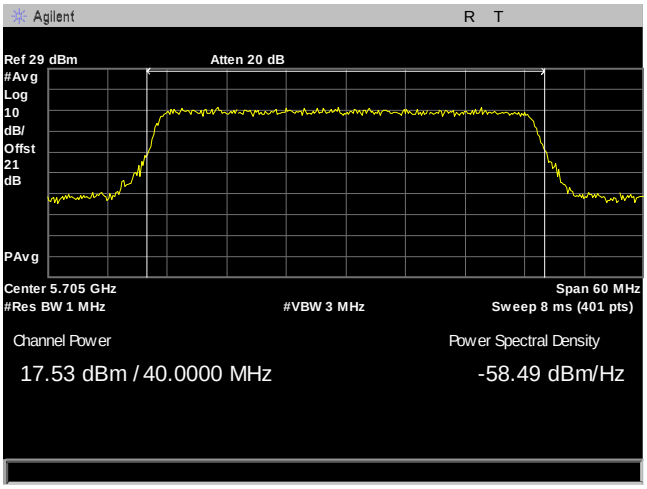



**Plot 68. Maximum Conducted Transmit Power, 8Omni, 40M, 5598, Port 1**

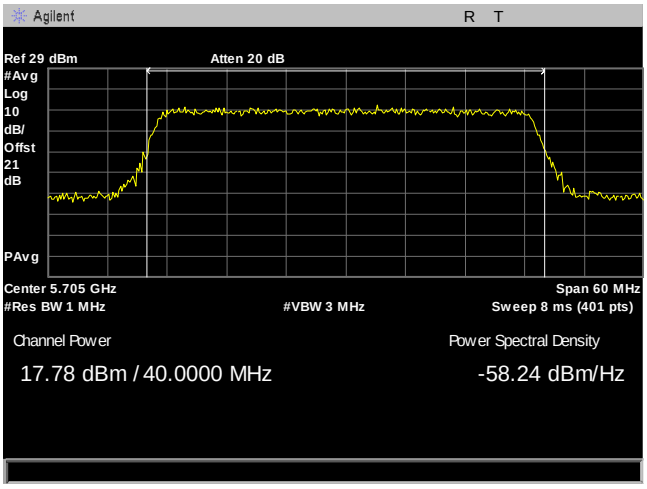
  




**Plot 69. Maximum Conducted Transmit Power, 8Omni, 40M, 5598, Port 2**




**Plot 70. Maximum Conducted Transmit Power, 8Omni, 40M, 5700, Port 1**




**Plot 71. Maximum Conducted Transmit Power, 8Omni, 40M, 5700, Port 2**

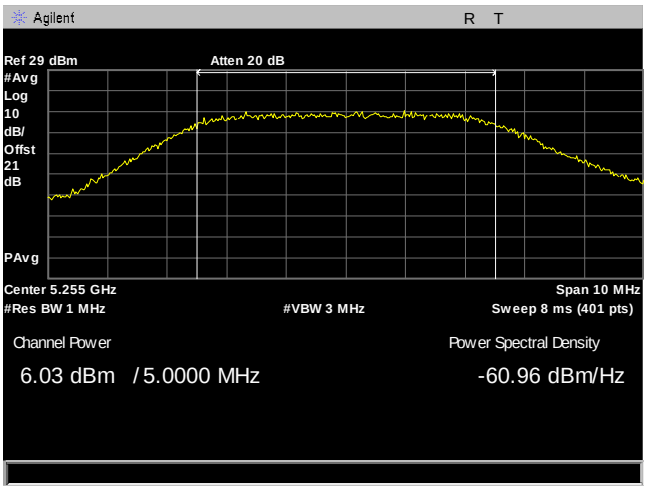
| Frequency (MHz) | Power Port 1 (dBm) | Power Port 2 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | Power Limit (dBm) | Power Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5255.0 | 6.03 | 6.02 | 9.04 | 17.68 | 13.50 | 10.18 | -1.14 |
| 5300.0 | 6.07 | 6.09 | 9.09 | 17.66 | 13.50 | 10.16 | -1.07 |
| 5345.0 | 6.17 | 6.2 | 9.20 | 17.67 | 13.50 | 10.17 | -0.97 |
| 10 MHz | | | | | | | |
| 5260.0 | 9.02 | 9.16 | 12.10 | 20.65 | 13.50 | 13.15 | -1.05 |
| 5300.0 | 9.23 | 9.08 | 12.17 | 20.65 | 13.50 | 13.15 | -0.98 |
| 5340.0 | 9.07 | 9.18 | 12.14 | 20.65 | 13.50 | 13.15 | -1.01 |
| 20 MHz | | | | | | | |
| 5265.0 | 12.2 | 12.19 | 15.21 | 23.67 | 13.50 | 16.17 | -0.96 |
| 5300.0 | 11.81 | 11.75 | 14.79 | 23.67 | 13.50 | 16.17 | -1.38 |
| 5335.0 | 12.13 | 12.29 | 15.22 | 23.66 | 13.50 | 16.16 | -0.94 |
| 40MHz | | | | | | | |
| 5275.0 | 12.28 | 12.2 | 15.25 | 24.00 | 13.50 | 16.50 | -1.25 |
| 5300.0 | 12.07 | 12.12 | 15.11 | 24.00 | 13.50 | 16.50 | -1.39 |
| 5325.0 | 12.1 | 12.14 | 15.13 | 24.00 | 13.50 | 16.50 | -1.37 |

**Table 13. Maximum Conducted Transmitter Power, 90Sector, UNII 2A Test Results**

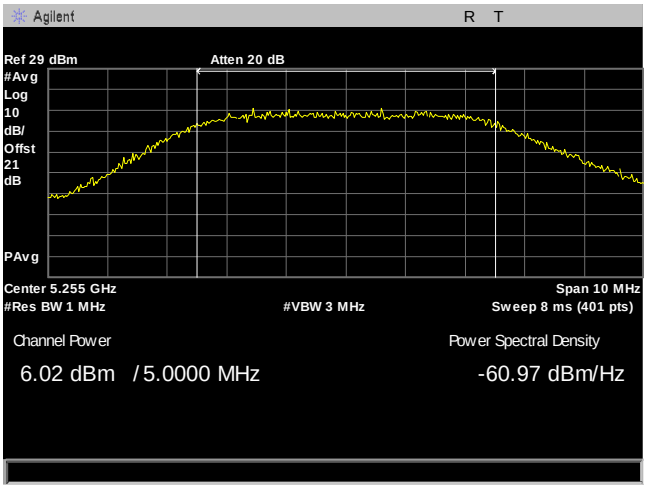
| Frequency (MHz) | Power Port 1 (dBm) | Power Port 2 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | Power Limit (dBm) | Power Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5475.0 | 6.61 | 6.54 | 9.59 | 17.68 | 13.50 | 10.18 | -0.59 |
| 5598.0 | 6.24 | 6.11 | 9.19 | 17.66 | 13.50 | 10.16 | -0.97 |
| 5720.0 | 6.79 | 6.52 | 9.67 | 17.67 | 13.50 | 10.17 | -0.50 |
| 10 MHz | | | | | | | |
| 5480.0 | 9.67 | 9.47 | 12.58 | 20.65 | 13.50 | 13.15 | -0.57 |
| 5598.0 | 9.19 | 9.24 | 12.23 | 20.65 | 13.50 | 13.15 | -0.92 |
| 5715.0 | 9.71 | 9.54 | 12.64 | 20.65 | 13.50 | 13.15 | -0.51 |
| 20 MHz | | | | | | | |
| 5485.0 | 12.33 | 12.62 | 15.49 | 23.67 | 13.50 | 16.17 | -0.68 |
| 5598.0 | 12.18 | 12.56 | 15.38 | 23.67 | 13.50 | 16.17 | -0.79 |
| 5710.0 | 12.52 | 12.34 | 15.44 | 23.66 | 13.50 | 16.16 | -0.72 |
| 40MHz | | | | | | | |
| 5495.0 | 12.46 | 12.44 | 15.46 | 24.00 | 13.50 | 16.50 | -1.04 |
| 5598.0 | 12.53 | 12.38 | 15.47 | 24.00 | 13.50 | 16.50 | -1.03 |
| 5700.0 | 12.69 | 12.66 | 15.69 | 24.00 | 13.50 | 16.50 | -0.81 |

**Table 14. Maximum Conducted Transmitter Power, 90Sector, UNII 2C Test Results**

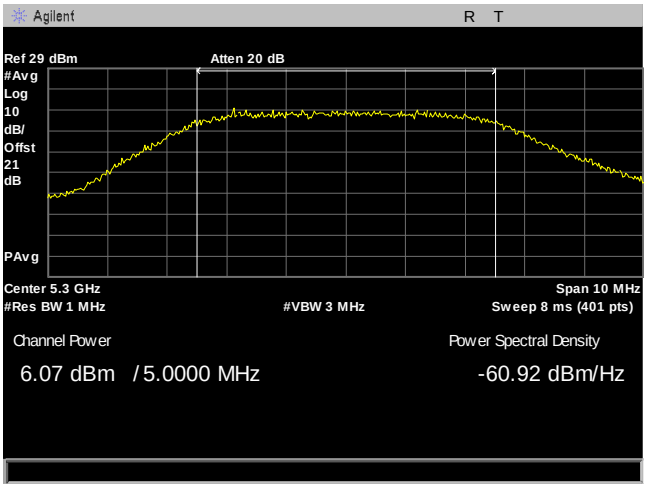
  




**Plot 72. Maximum Conducted Transmit Power, 90Sector, 5M, 5255, Port 1**

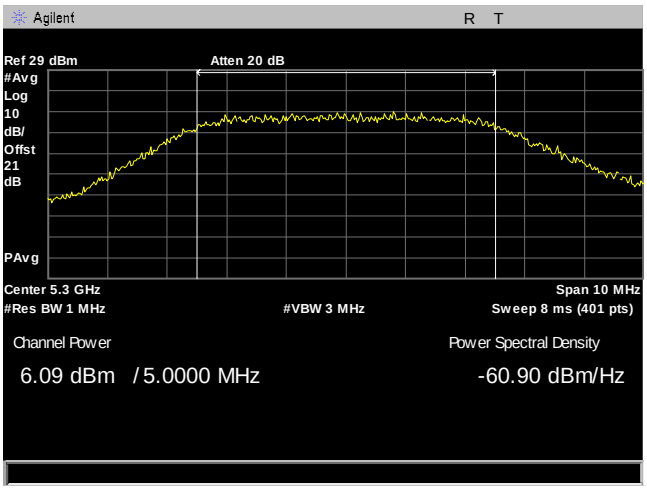



**Plot 73. Maximum Conducted Transmit Power, 90Sector, 5M, 5255, Port 2**

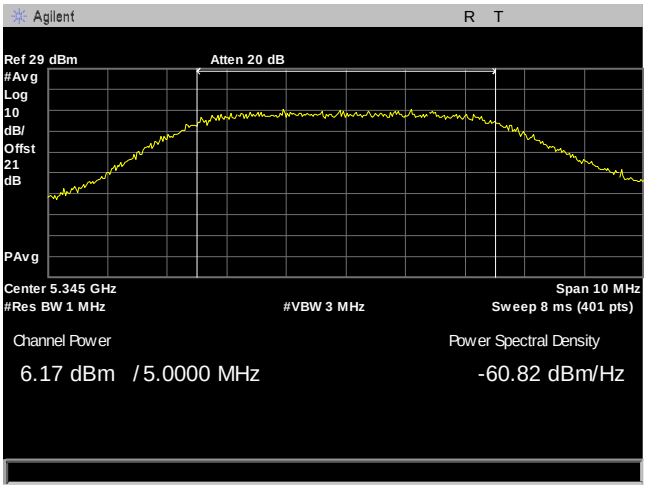



**Plot 74. Maximum Conducted Transmit Power, 90Sector, 5M, 5300, Port 1**

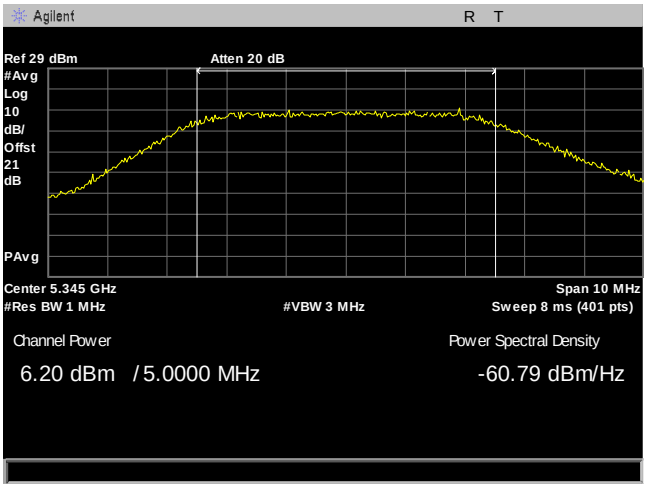
  




**Plot 75. Maximum Conducted Transmit Power, 90Sector, 5M, 5300, Port 2**

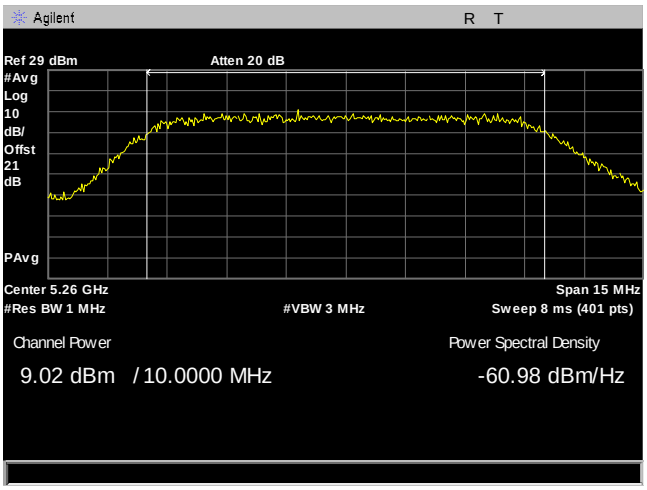



**Plot 76. Maximum Conducted Transmit Power, 90Sector, 5M, 5345, Port 1**

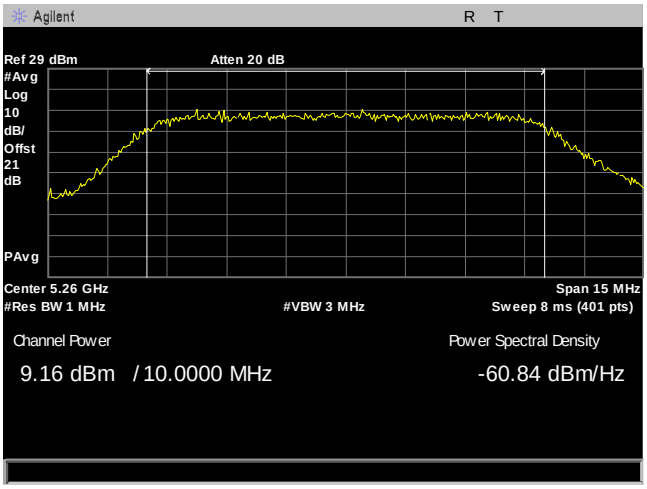



**Plot 77. Maximum Conducted Transmit Power, 90Sector, 5M, 5345, Port 2**

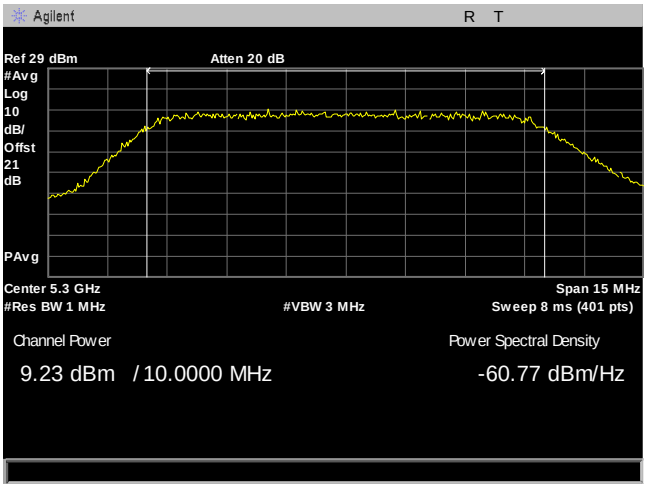
  




**Plot 78. Maximum Conducted Transmit Power, 90Sector, 10M, 5260, Port 1**

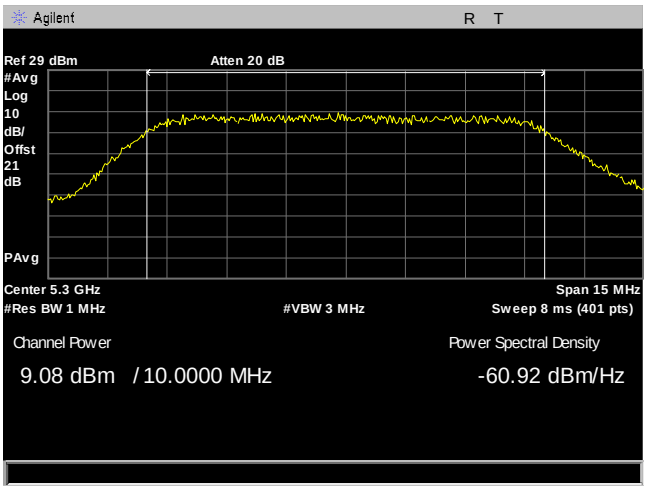



**Plot 79. Maximum Conducted Transmit Power, 90Sector, 10M, 5260, Port 2**

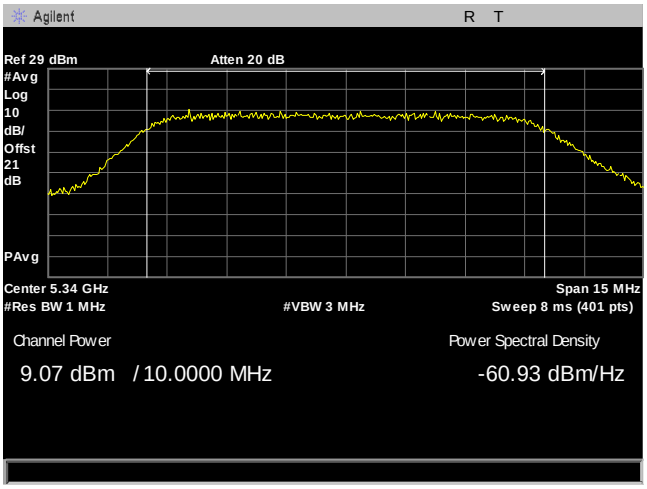



**Plot 80. Maximum Conducted Transmit Power, 90Sector, 10M, 5300, Port 1**

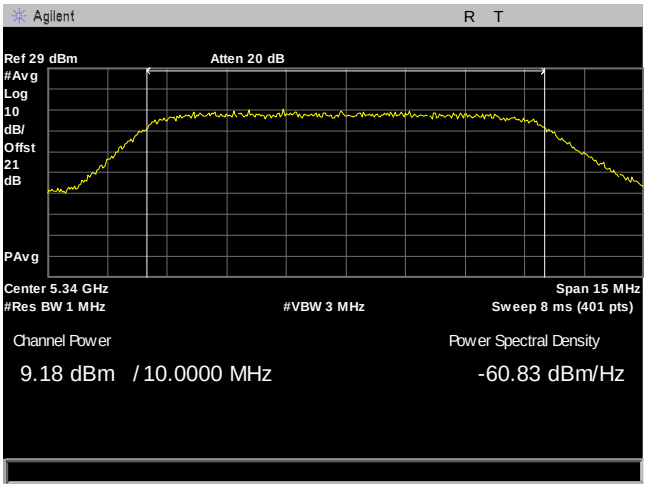
  




**Plot 81. Maximum Conducted Transmit Power, 90Sector, 10M, 5300, Port 2**

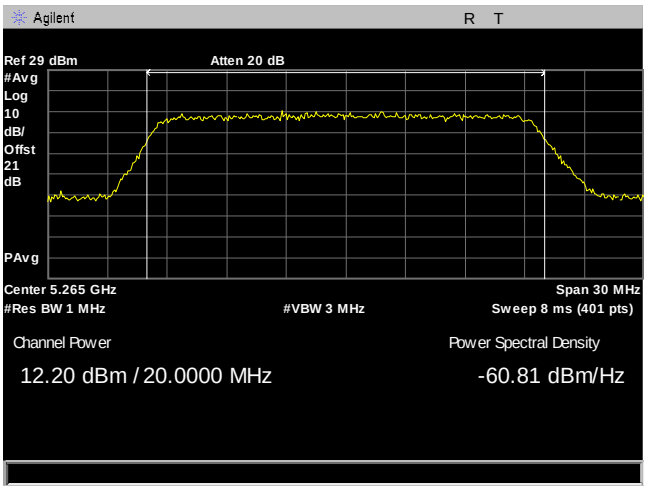



**Plot 82. Maximum Conducted Transmit Power, 90Sector, 10M, 5340, Port 1**

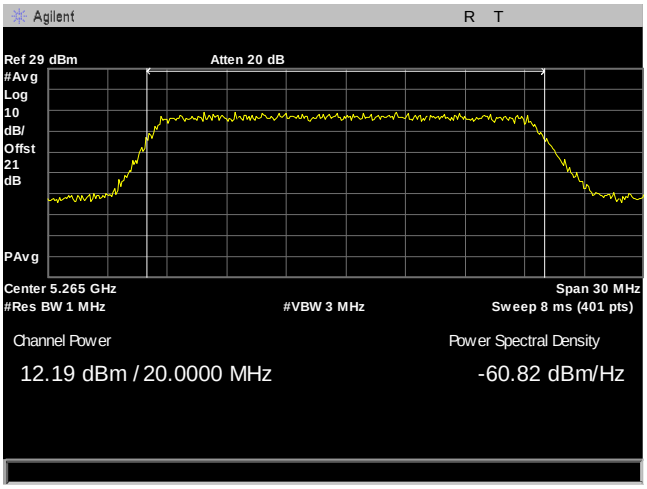



**Plot 83. Maximum Conducted Transmit Power, 90Sector, 10M, 5340, Port 2**

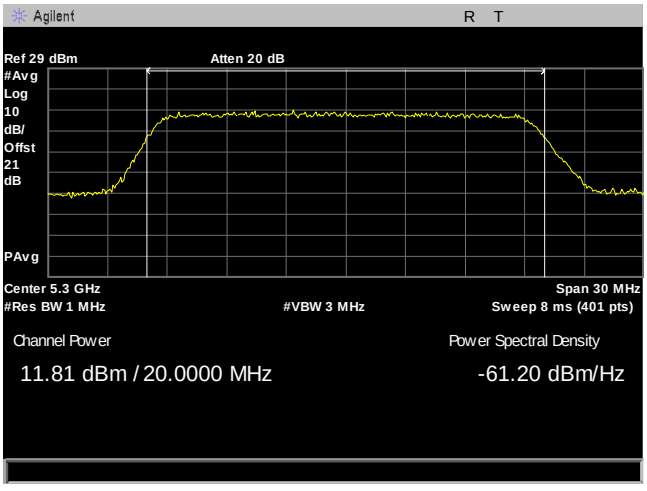
  




**Plot 84. Maximum Conducted Transmit Power, 90Sector, 20M, 5265, Port 1**

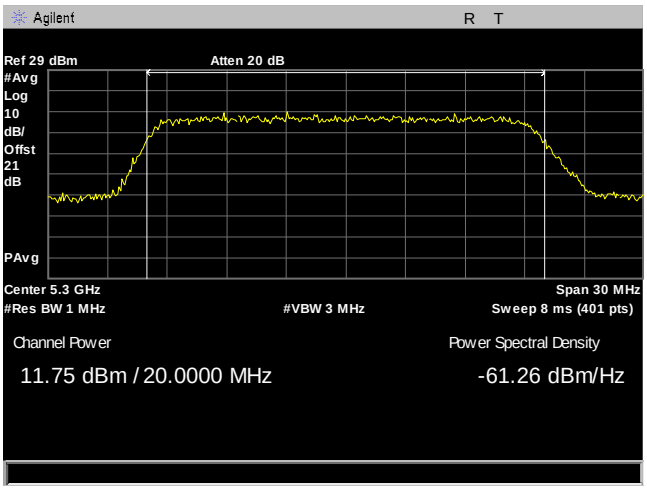



**Plot 85. Maximum Conducted Transmit Power, 90Sector, 20M, 5265, Port 2**

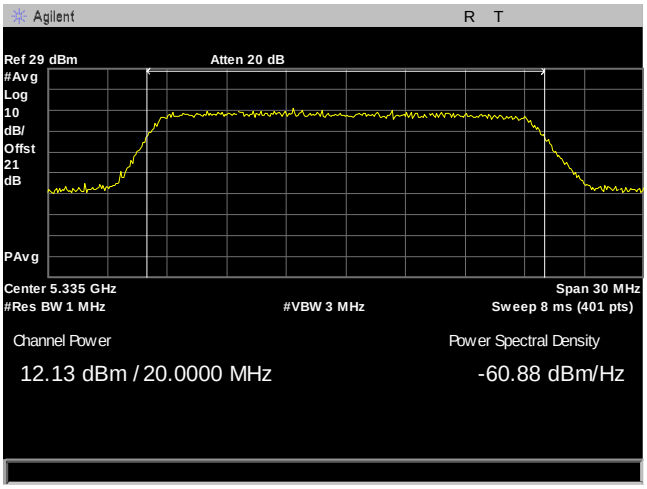



**Plot 86. Maximum Conducted Transmit Power, 90Sector, 20M, 5300, Port 1**

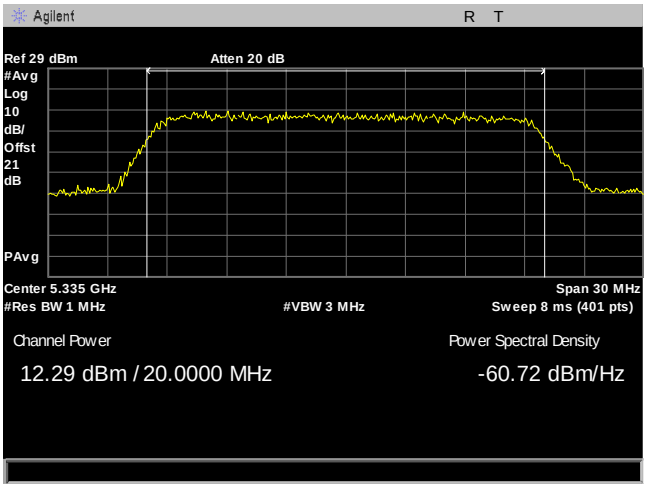
  




**Plot 87. Maximum Conducted Transmit Power, 90Sector, 20M, 5300, Port 2**

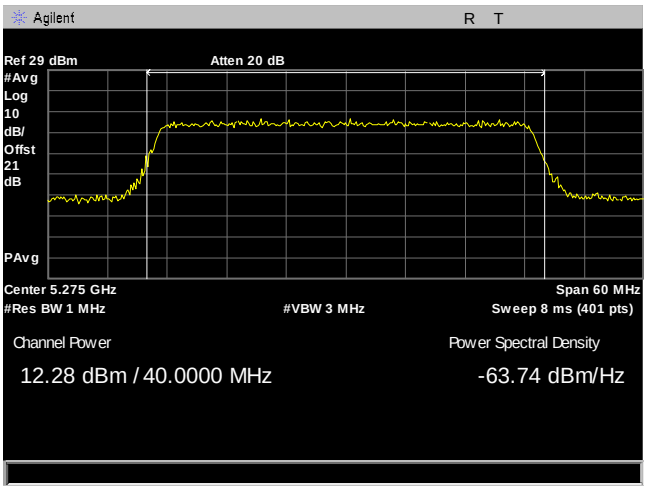



**Plot 88. Maximum Conducted Transmit Power, 90Sector, 20M, 5335, Port 1**

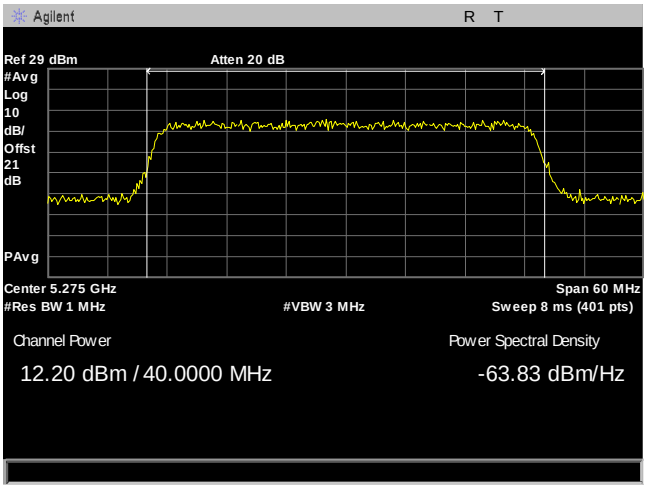



**Plot 89. Maximum Conducted Transmit Power, 90Sector, 20M, 5335, Port 2**

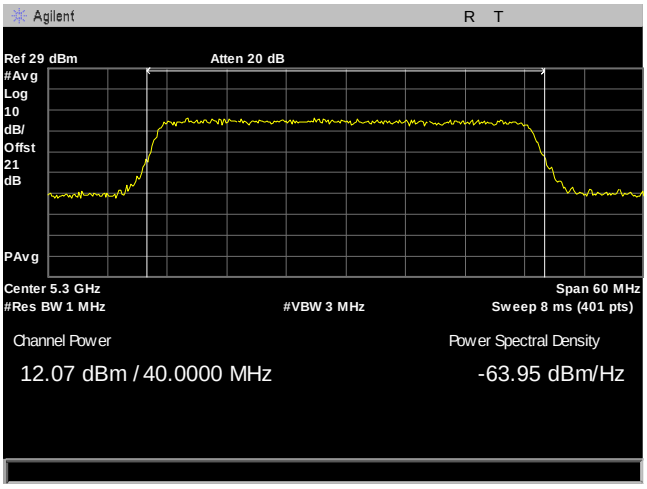
  




**Plot 90. Maximum Conducted Transmit Power, 90Sector, 40M, 5275, Port 1**

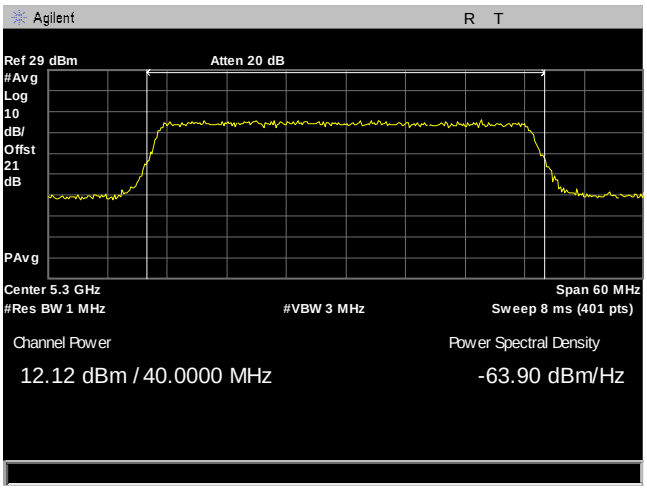



**Plot 91. Maximum Conducted Transmit Power, 90Sector, 40M, 5275, Port 2**

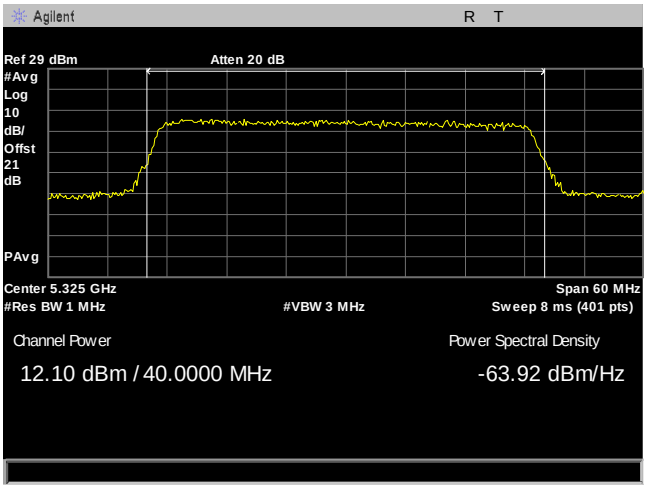



**Plot 92. Maximum Conducted Transmit Power, 90Sector, 40M, 5300, Port 1**

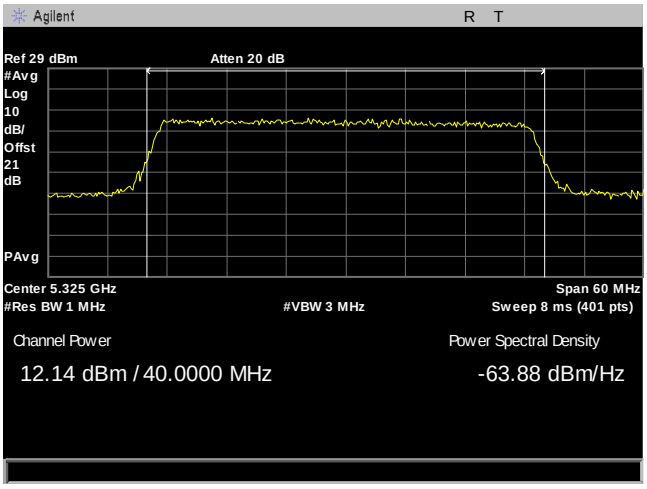
  




**Plot 93. Maximum Conducted Transmit Power, 90Sector, 40M, 5300, Port 2**

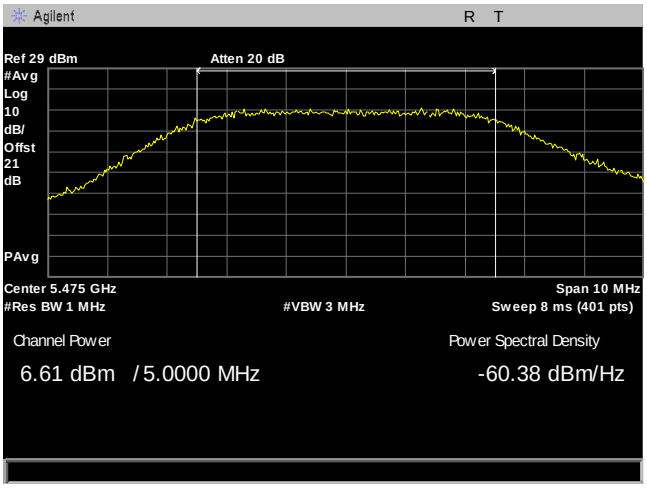



**Plot 94. Maximum Conducted Transmit Power, 90Sector, 40M, 5325, Port 1**

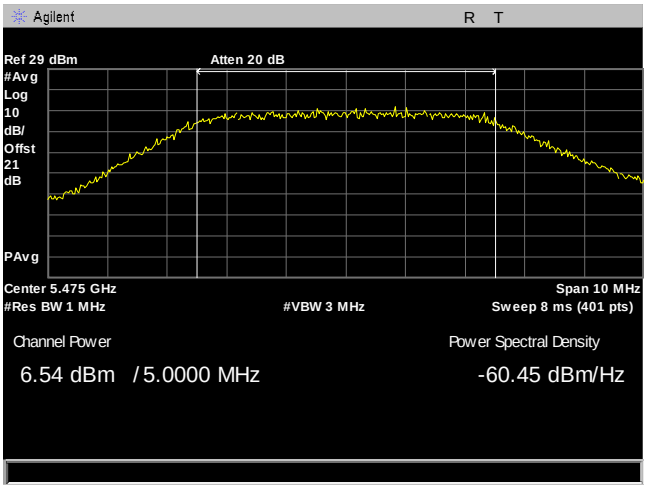



**Plot 95. Maximum Conducted Transmit Power, 90Sector, 40M, 5325, Port 2**

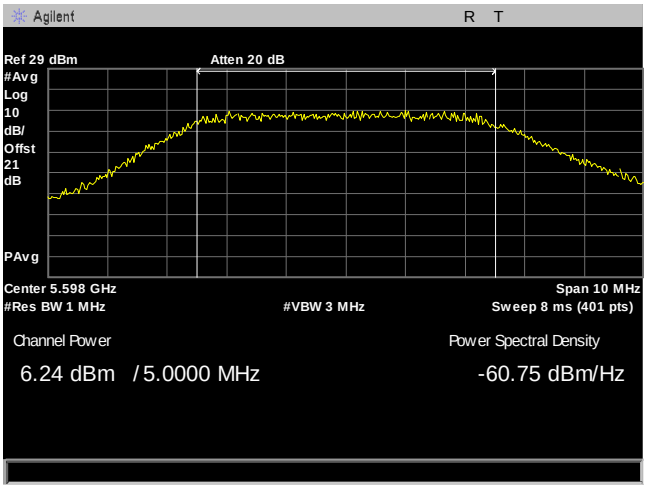
  




**Plot 96. Maximum Conducted Transmit Power, 90Sector, 5M, 5475, Port 1**

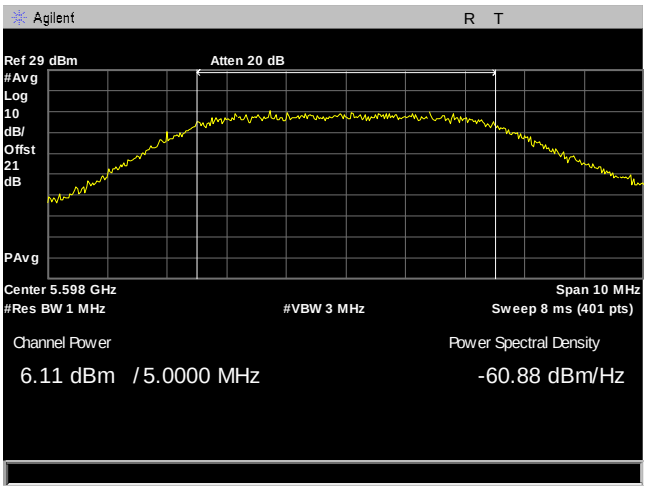



**Plot 97. Maximum Conducted Transmit Power, 90Sector, 5M, 5475, Port 2**

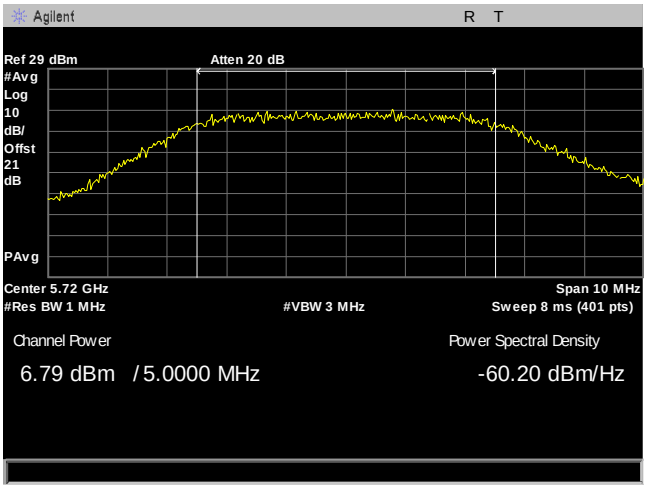



**Plot 98. Maximum Conducted Transmit Power, 90Sector, 5M, 5598, Port 1**

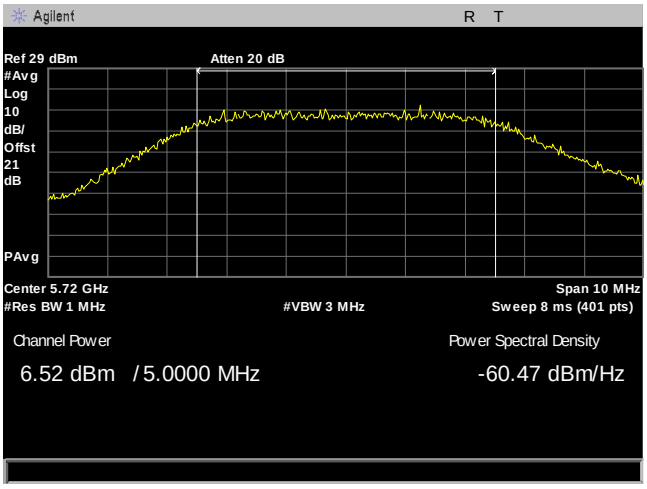
  




**Plot 99. Maximum Conducted Transmit Power, 90Sector, 5M, 5598, Port 2**

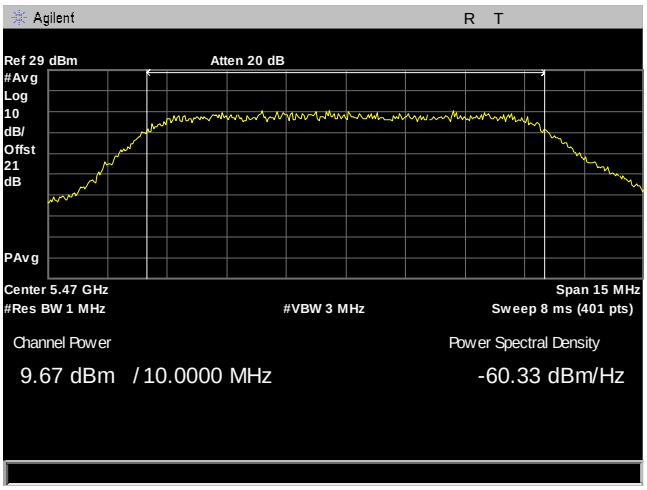



**Plot 100. Maximum Conducted Transmit Power, 90Sector, 5M, 5720, Port 1**

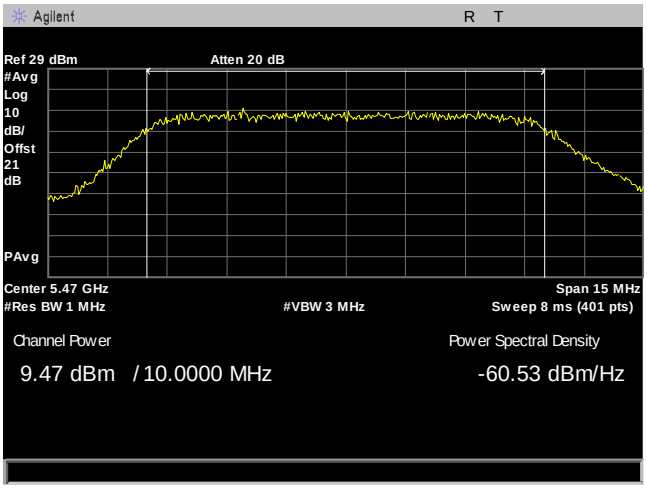



**Plot 101. Maximum Conducted Transmit Power, 90Sector, 5M, 5720, Port 2**

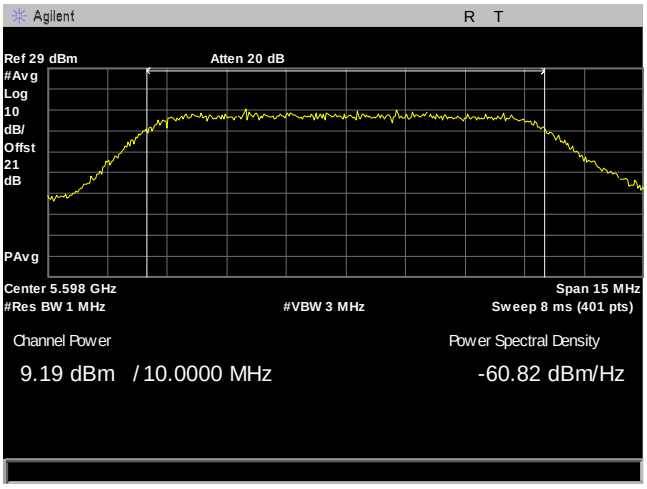
  




**Plot 102. Maximum Conducted Transmit Power, 90Sector, 10M, 5480, Port 1**

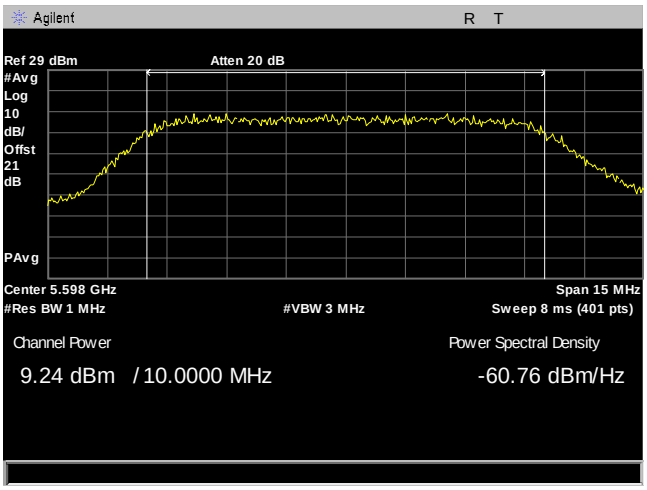



**Plot 103. Maximum Conducted Transmit Power, 90Sector, 10M, 5480, Port 2**

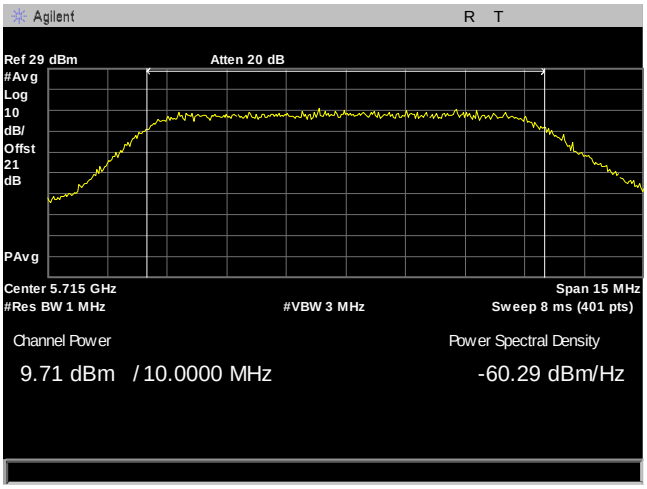



**Plot 104. Maximum Conducted Transmit Power, 90Sector, 10M, 5598, Port 1**

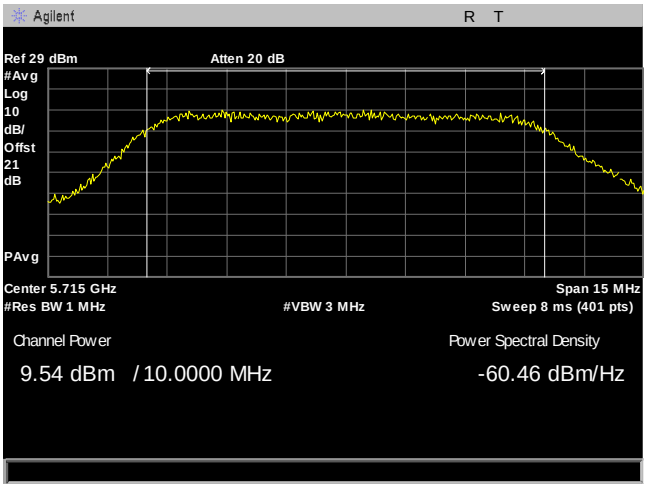
  




**Plot 105. Maximum Conducted Transmit Power, 90Sector, 10M, 5598, Port 2**

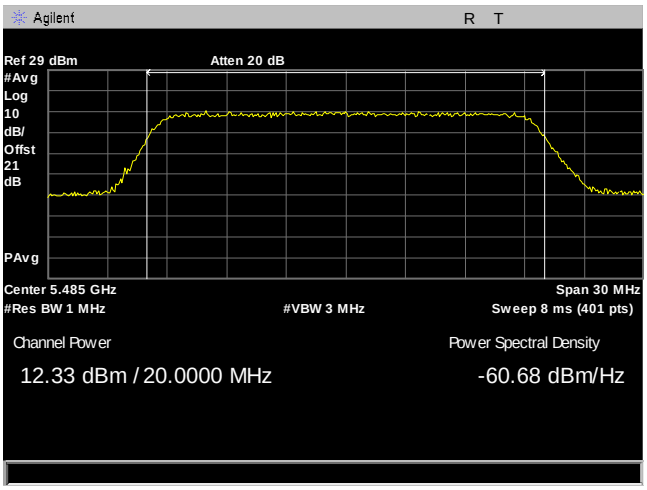



**Plot 106. Maximum Conducted Transmit Power, 90Sector, 10M, 5715, Port 1**

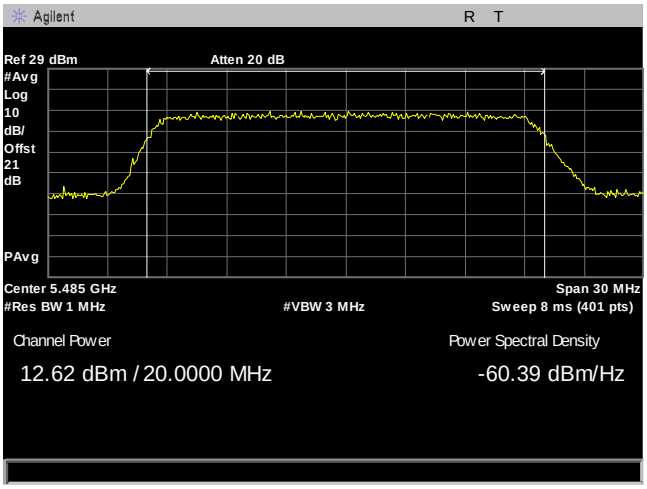



**Plot 107. Maximum Conducted Transmit Power, 90Sector, 10M, 5715, Port 2**

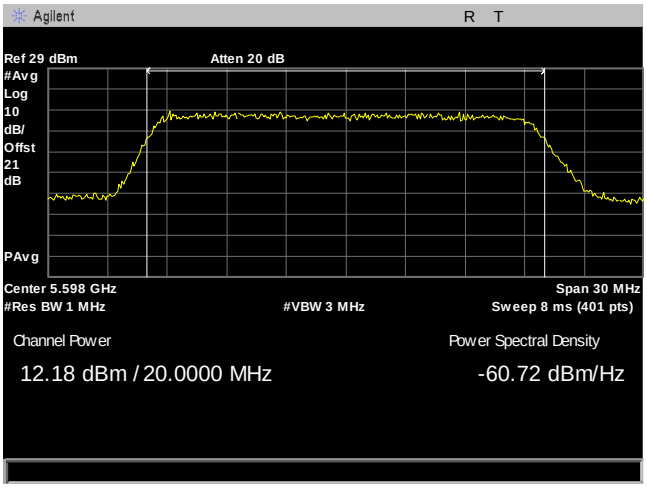
  




**Plot 108. Maximum Conducted Transmit Power, 90Sector, 20M, 5485, Port 1**

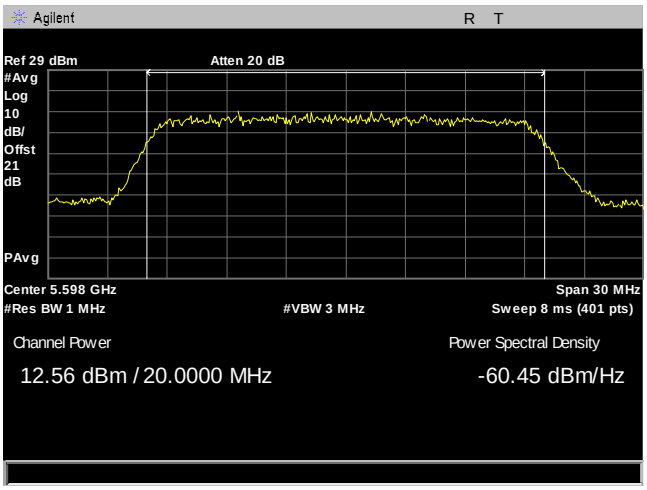



**Plot 109. Maximum Conducted Transmit Power, 90Sector, 20M, 5485, Port 2**

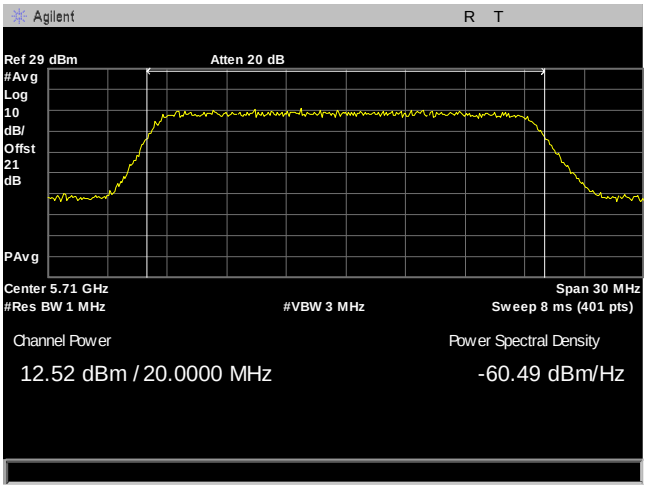



**Plot 110. Maximum Conducted Transmit Power, 90Sector, 20M, 5598, Port 1**

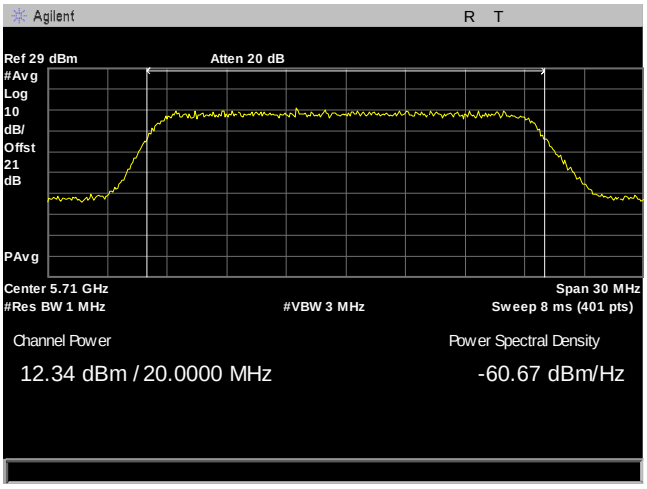
  




**Plot 111. Maximum Conducted Transmit Power, 90Sector, 20M, 5598, Port 2**

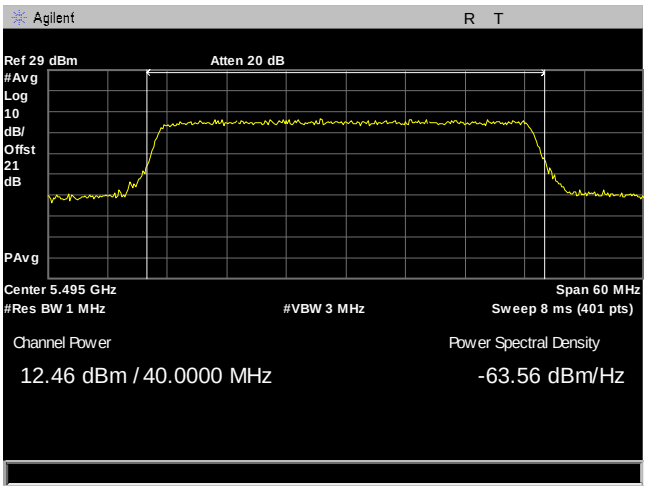



**Plot 112. Maximum Conducted Transmit Power, 90Sector, 20M, 5710, Port 1**

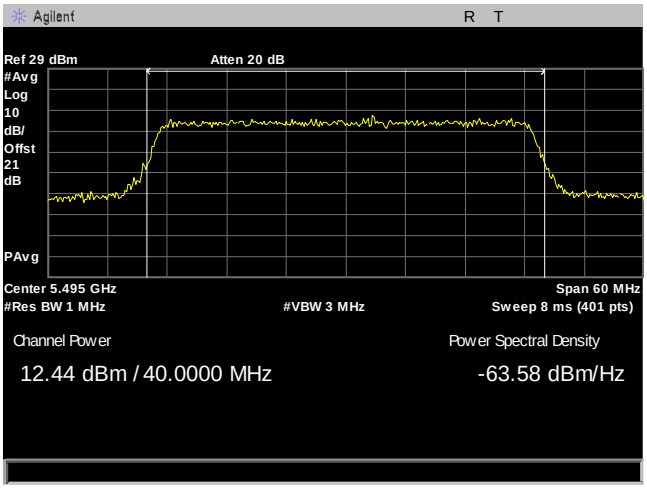



**Plot 113. Maximum Conducted Transmit Power, 90Sector, 20M, 5710, Port 2**

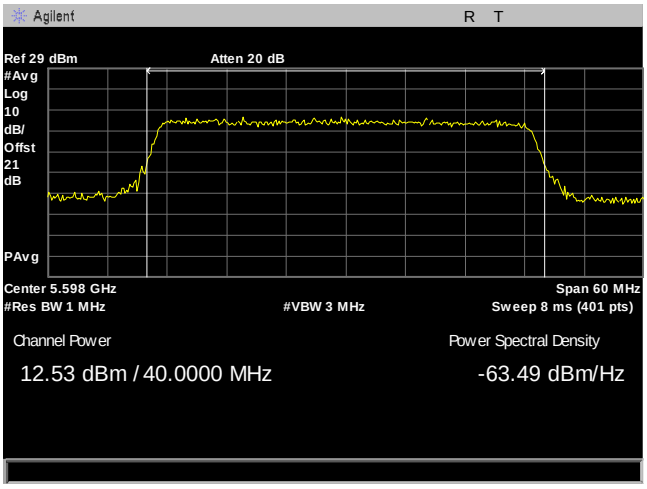
  




**Plot 114. Maximum Conducted Transmit Power, 90Sector, 40M, 5495, Port 1**

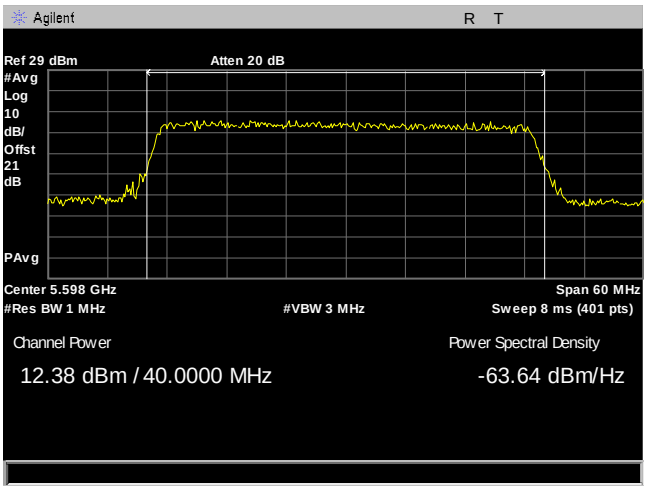



**Plot 115. Maximum Conducted Transmit Power, 90Sector, 40M, 5495, Port 2**

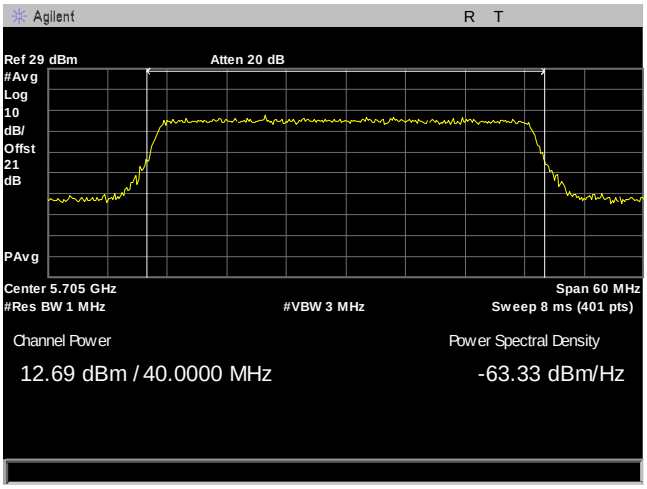



**Plot 116. Maximum Conducted Transmit Power, 90Sector, 40M, 5598, Port 1**

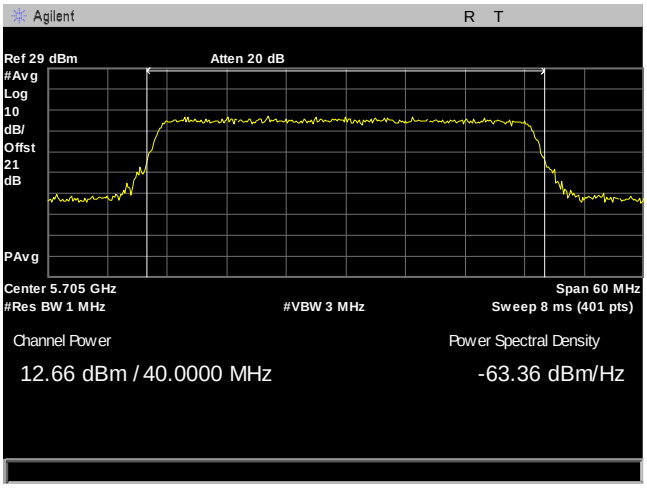
  




**Plot 117. Maximum Conducted Transmit Power, 90Sector, 40M, 5598, Port 2**




**Plot 118. Maximum Conducted Transmit Power, 90Sector, 40M, 5700, Port 1**




**Plot 119. Maximum Conducted Transmit Power, 90Sector, 40M, 5700, Port 2**

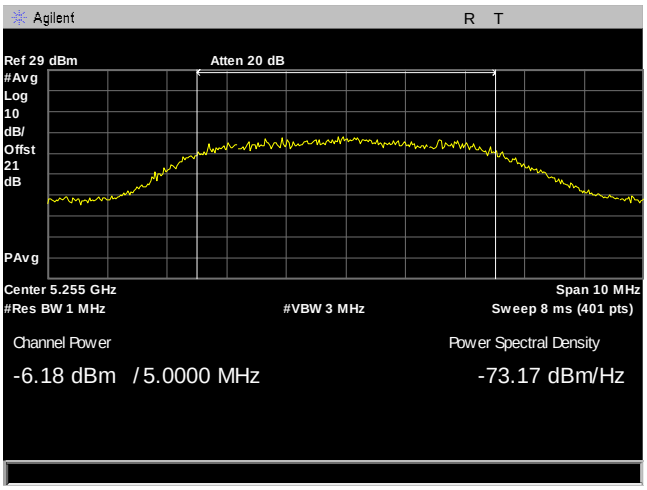
| Frequency (MHz) | Power Port 1 (dBm) | Power Port 2 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | Power Limit (dBm) | Power Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5255.0 | -6.18 | -6.39 | -3.27 | 17.68 | 26.00 | -2.32 | -0.95 |
| 5300.0 | -6.27 | -6.21 | -3.23 | 17.66 | 26.00 | -2.34 | -0.89 |
| 5345.0 | -6.32 | -6.5 | -3.40 | 17.67 | 26.00 | -2.33 | -1.07 |
| 10 MHz | | | | | | | |
| 5260.0 | -3.3 | -3.36 | -0.32 | 20.65 | 26.00 | 0.65 | -0.97 |
| 5300.0 | -3.74 | -3.71 | -0.71 | 20.65 | 26.00 | 0.65 | -1.36 |
| 5340.0 | -3.8 | -3.76 | -0.77 | 20.65 | 26.00 | 0.65 | -1.42 |
| 20 MHz | | | | | | | |
| 5265.0 | 0.16 | 0.11 | 3.15 | 23.67 | 26.00 | 3.67 | -0.52 |
| 5300.0 | 0.15 | 0.17 | 3.17 | 23.67 | 26.00 | 3.67 | -0.50 |
| 5335.0 | 0.1 | 0.07 | 3.10 | 23.66 | 26.00 | 3.66 | -0.57 |
| 40MHz | | | | | | | |
| 5275.0 | 0.11 | 0.15 | 3.14 | 24.00 | 26.00 | 4.00 | -0.86 |
| 5300.0 | 0.05 | 0.07 | 3.07 | 24.00 | 26.00 | 4.00 | -0.93 |
| 5325.0 | 0.14 | 0.11 | 3.14 | 24.00 | 26.00 | 4.00 | -0.86 |

**Table 15. Maximum Conducted Transmitter Power, 2 Panel, UNII 2A Test Results**

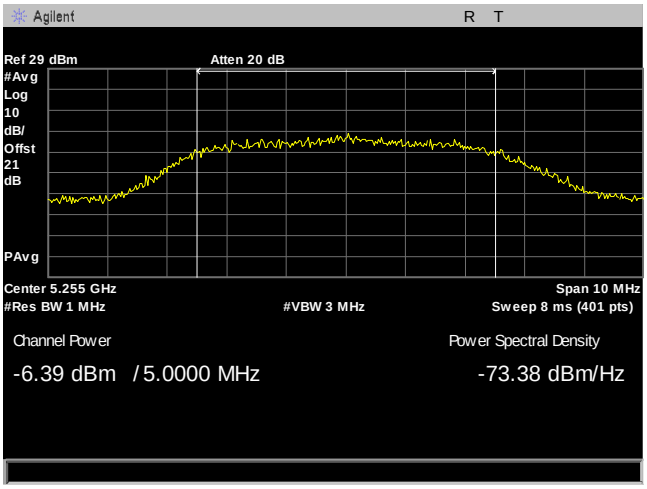
| Frequency (MHz) | Power Port 1 (dBm) | Power Port 2 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | Power Limit (dBm) | Power Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5475.0 | -5.98 | -6.22 | -3.09 | 17.68 | 26.00 | -2.32 | -0.76 |
| 5598.0 | -6.59 | -6.89 | -3.73 | 17.66 | 26.00 | -2.34 | -1.38 |
| 5720.0 | -6.37 | -6.45 | -3.40 | 17.67 | 26.00 | -2.33 | -1.07 |
| 10 MHz | | | | | | | |
| 5470.0 | -3.05 | -3.12 | -0.07 | 20.65 | 26.00 | 0.65 | -0.73 |
| 5598.0 | -3.58 | -3.6 | -0.58 | 20.65 | 26.00 | 0.65 | -1.23 |
| 5715.0 | -3.26 | -3.18 | -0.21 | 20.65 | 26.00 | 0.65 | -0.86 |
| 20 MHz | | | | | | | |
| 5485.0 | 0.35 | 0.4 | 3.39 | 23.67 | 26.00 | 3.67 | -0.28 |
| 5598.0 | 0.44 | 0.43 | 3.45 | 23.67 | 26.00 | 3.67 | -0.23 |
| 5710.0 | 0.74 | 0.27 | 3.59 | 23.66 | 26.00 | 3.66 | -0.07 |
| 40MHz | | | | | | | |
| 5495.0 | 0.37 | 0.55 | 3.47 | 24.00 | 26.00 | 4.00 | -0.53 |
| 5598.0 | 0.18 | 0.27 | 3.24 | 24.00 | 26.00 | 4.00 | -0.76 |
| 5705.0 | 0.29 | 0.3 | 3.31 | 24.00 | 26.00 | 4.00 | -0.69 |

**Table 16. Maximum Conducted Transmitter Power, 2 Panel, UNII 2C Test Results**

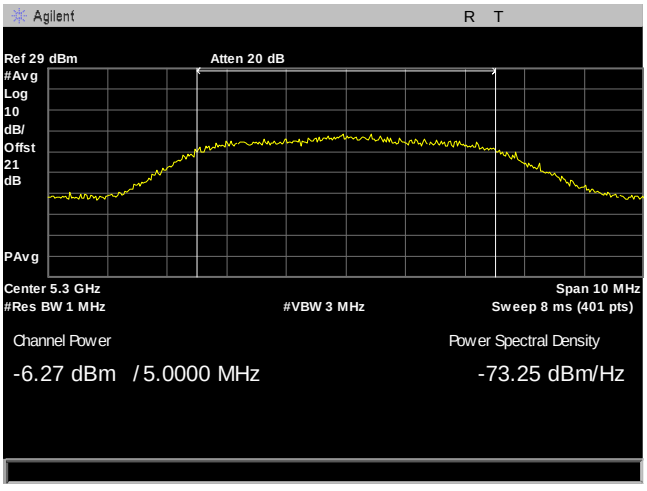
  




**Plot 120. Maximum Conducted Transmit Power, 2 Panel, 5M, 5255, Port 1**

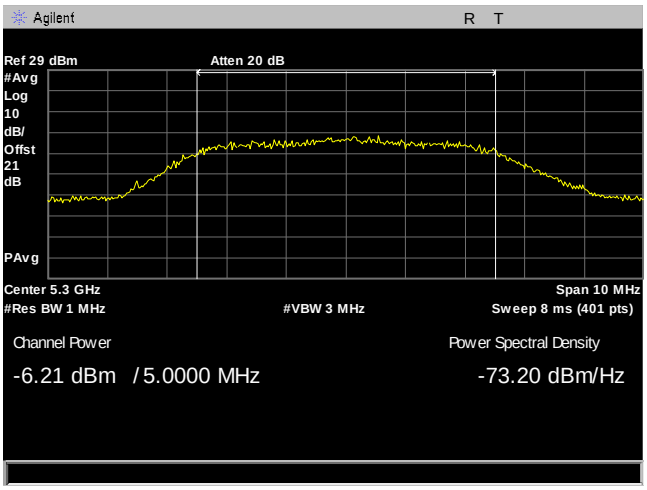



**Plot 121. Maximum Conducted Transmit Power, 2 Panel, 5M, 5255, Port 2**

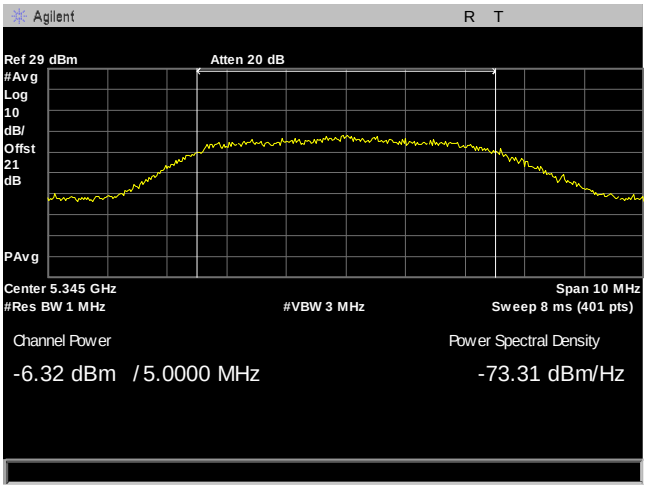



**Plot 122. Maximum Conducted Transmit Power, 2 Panel, 5M, 5300, Port 1**

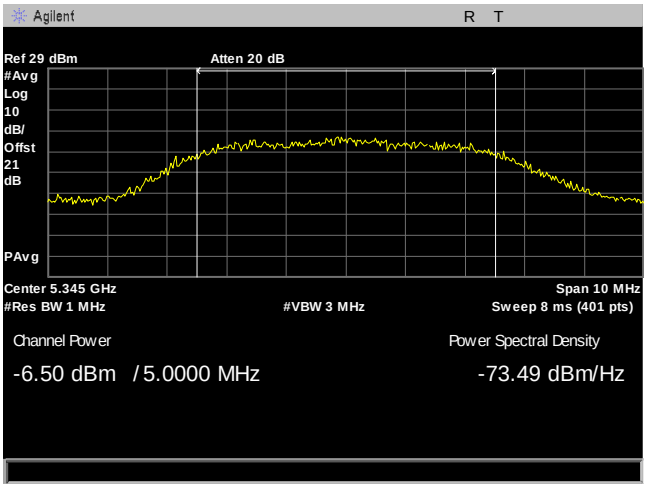
  




**Plot 123. Maximum Conducted Transmit Power, 2 Panel, 5M, 5300, Port 2**

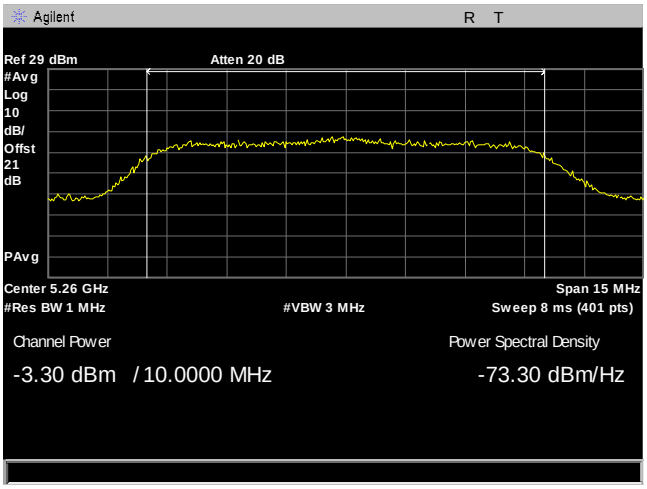



**Plot 124. Maximum Conducted Transmit Power, 2 Panel, 5M, 5345, Port 1**

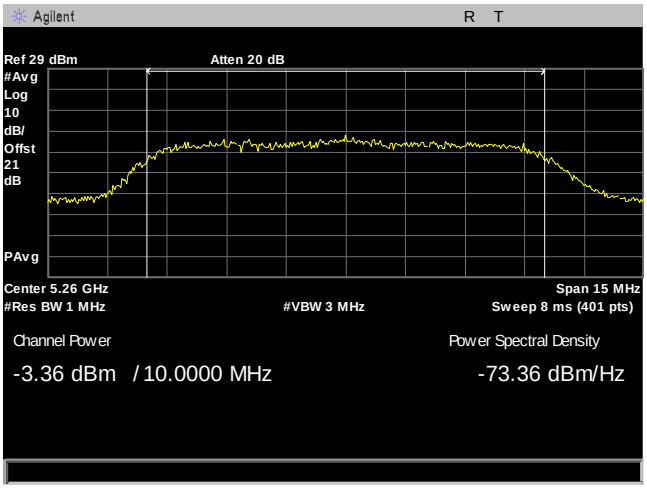



**Plot 125. Maximum Conducted Transmit Power, 2 Panel, 5M, 5345, Port 2**

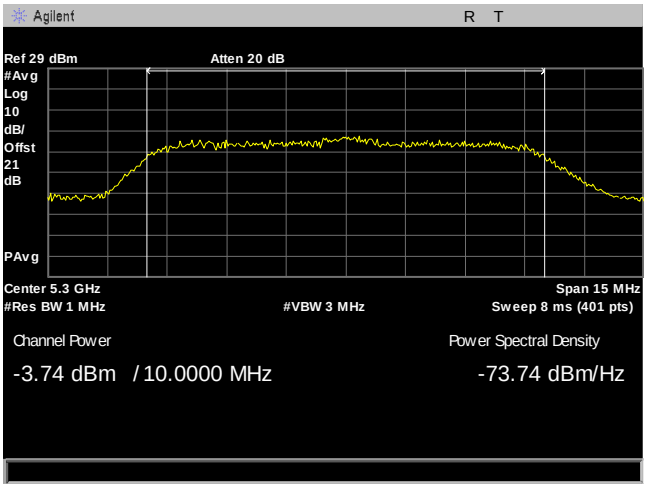
  




**Plot 126. Maximum Conducted Transmit Power, 2 Panel, 10M, 5260, Port 1**

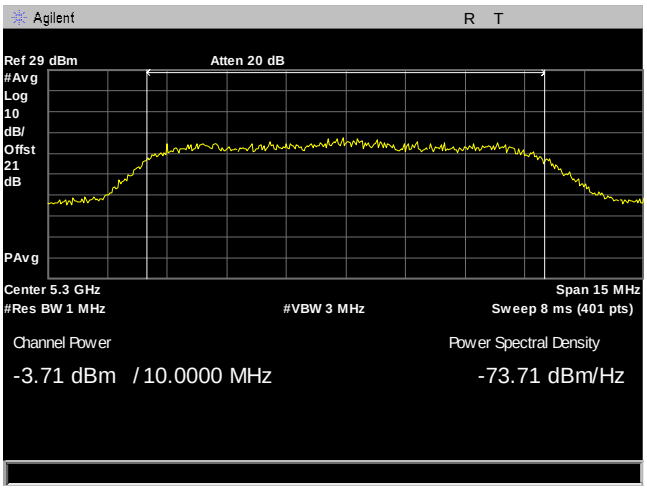



**Plot 127. Maximum Conducted Transmit Power, 2 Panel, 10M, 5260, Port 2**

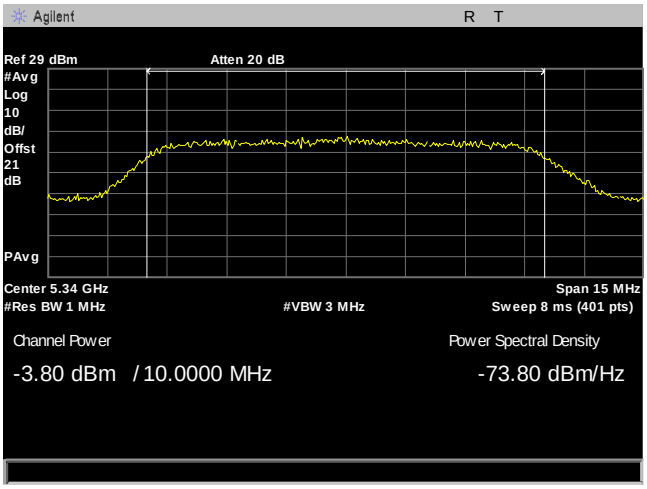



**Plot 128. Maximum Conducted Transmit Power, 2 Panel, 10M, 5300, Port 1**

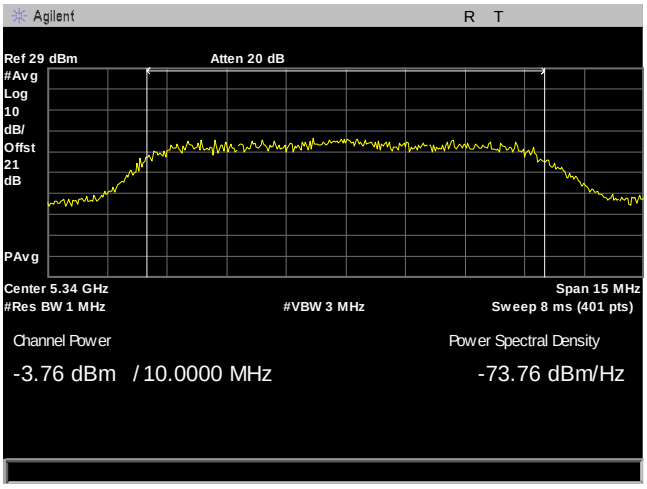
  




**Plot 129. Maximum Conducted Transmit Power, 2 Panel, 10M, 5300, Port 2**

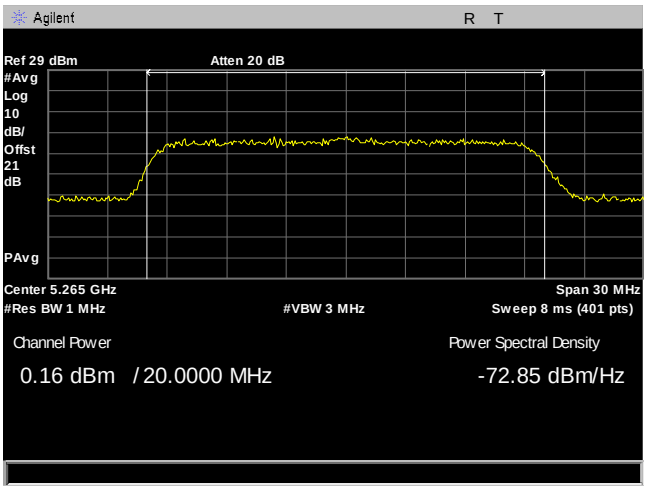



**Plot 130. Maximum Conducted Transmit Power, 2 Panel, 10M, 5340, Port 1**

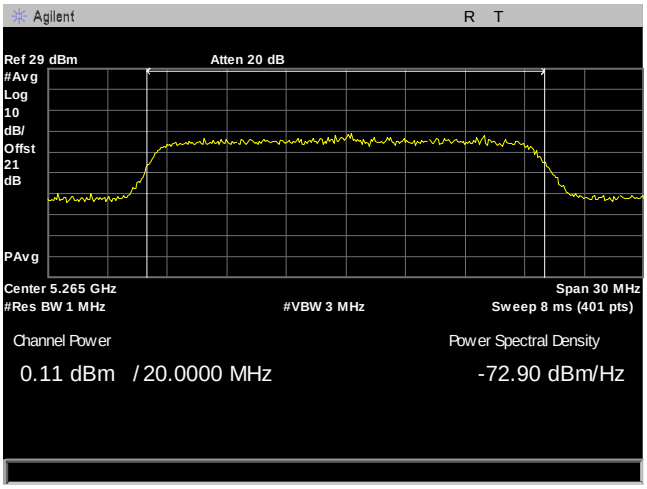



**Plot 131. Maximum Conducted Transmit Power, 2 Panel, 10M, 5340, Port 2**

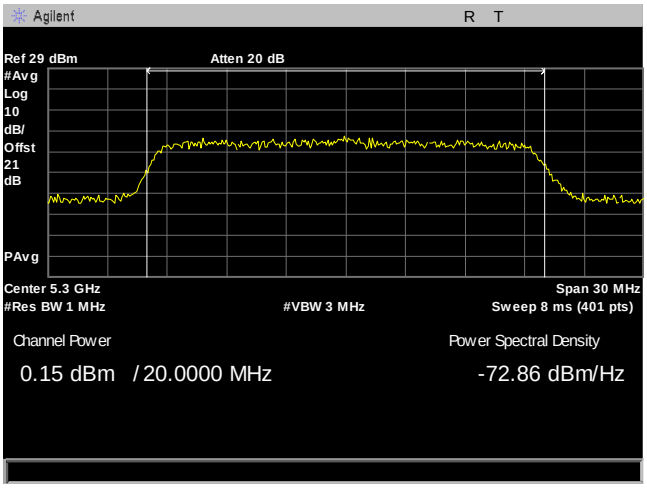
  




**Plot 132. Maximum Conducted Transmit Power, 2 Panel, 20M, 5265, Port 1**

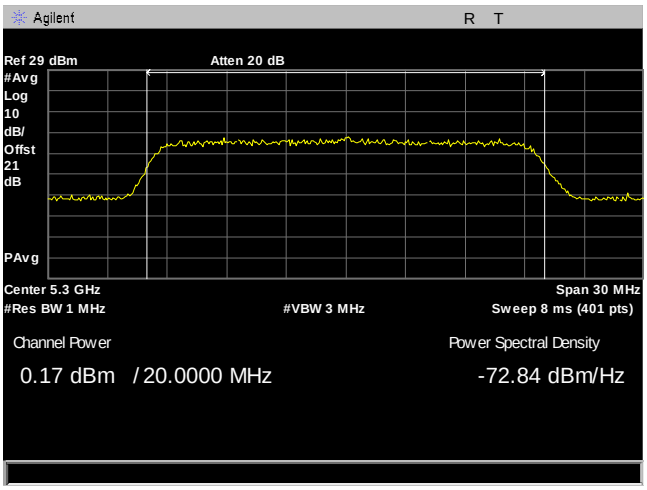



**Plot 133. Maximum Conducted Transmit Power, 2 Panel, 20M, 5265, Port 2**

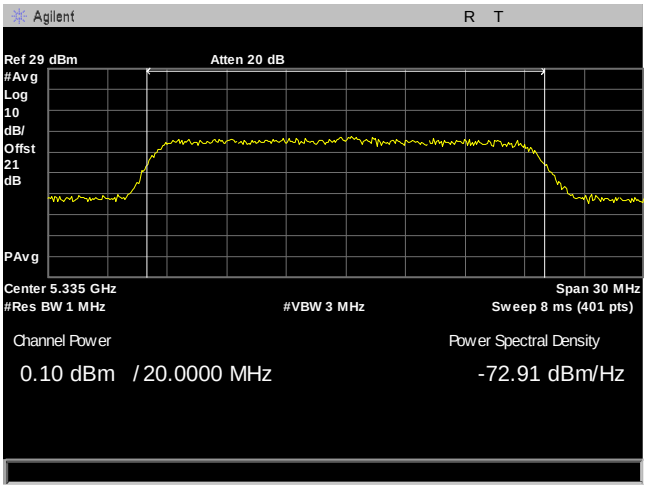



**Plot 134. Maximum Conducted Transmit Power, 2 Panel, 20M, 5300, Port 1**

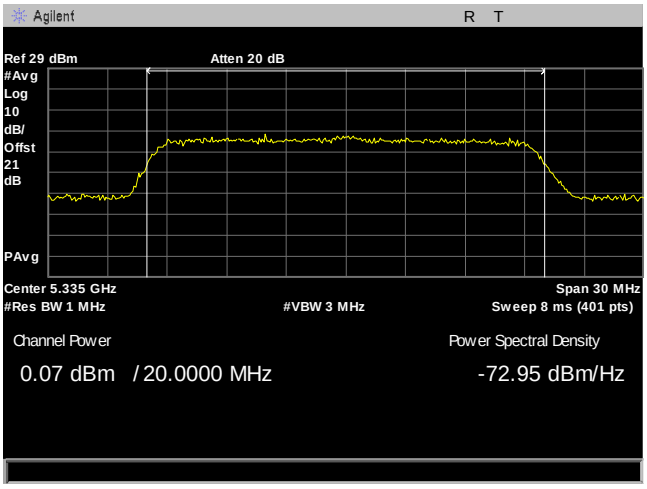
  




**Plot 135. Maximum Conducted Transmit Power, 2 Panel, 20M, 5300, Port 2**

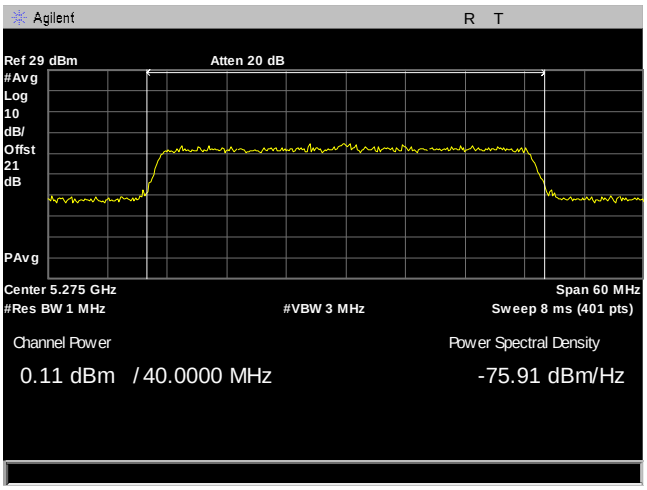



**Plot 136. Maximum Conducted Transmit Power, 2 Panel, 20M, 5335, Port 1**

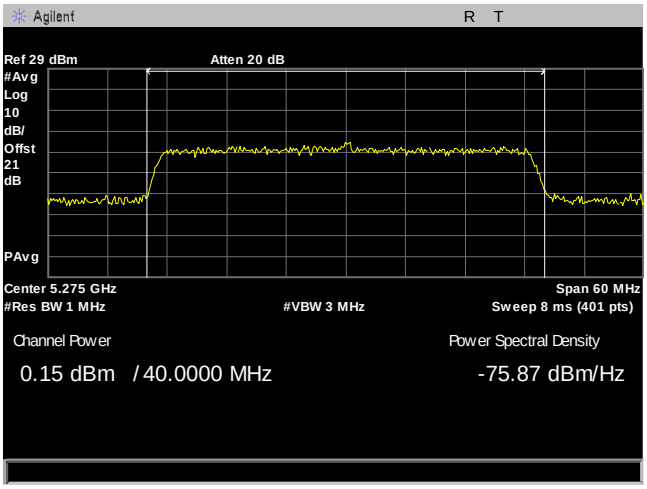



**Plot 137. Maximum Conducted Transmit Power, 2 Panel, 20M, 5335, Port 2**

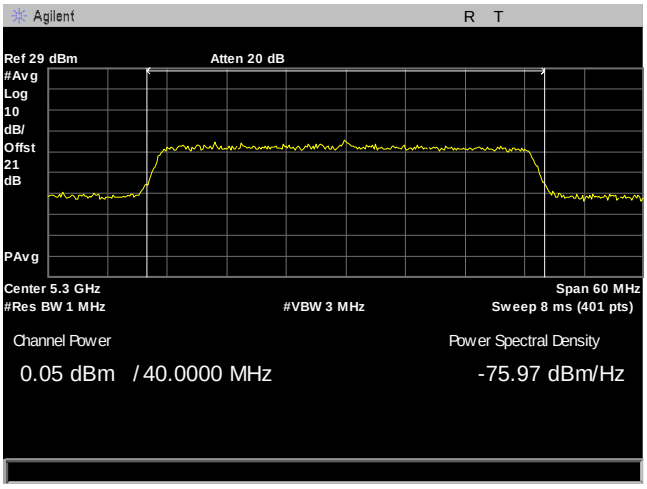
  




**Plot 138. Maximum Conducted Transmit Power, 2 Panel, 40M, 5275, Port 1**

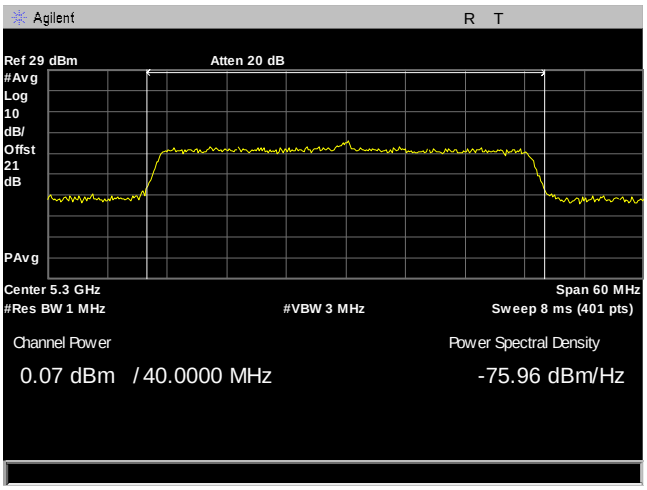



**Plot 139. Maximum Conducted Transmit Power, 2 Panel, 40M, 5275, Port 2**

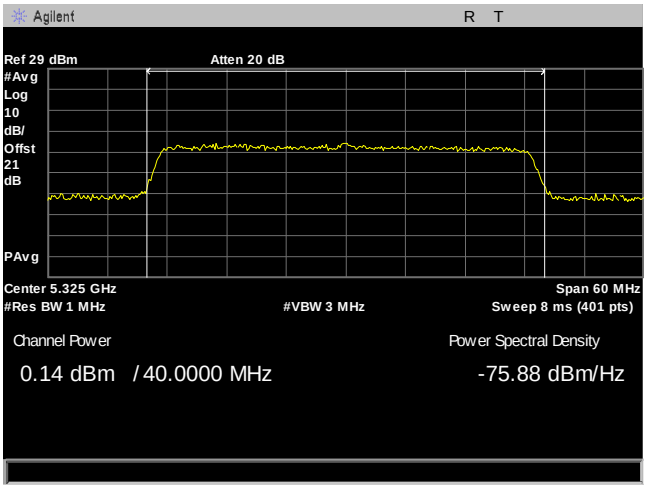



**Plot 140. Maximum Conducted Transmit Power, 2 Panel, 40M, 5300, Port 1**

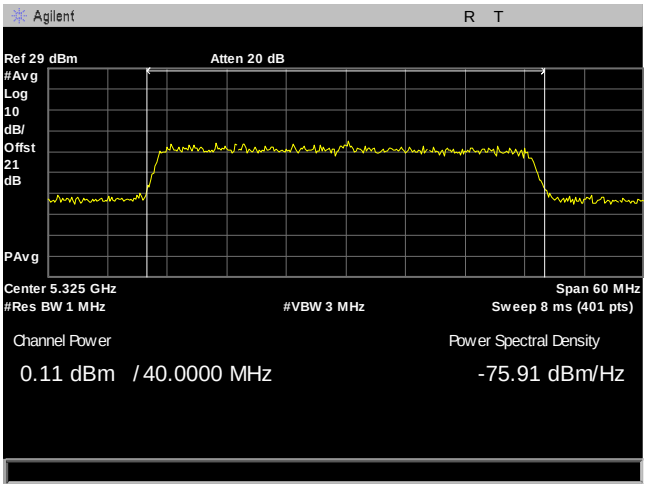
  




**Plot 141. Maximum Conducted Transmit Power, 2 Panel, 40M, 5300, Port 2**

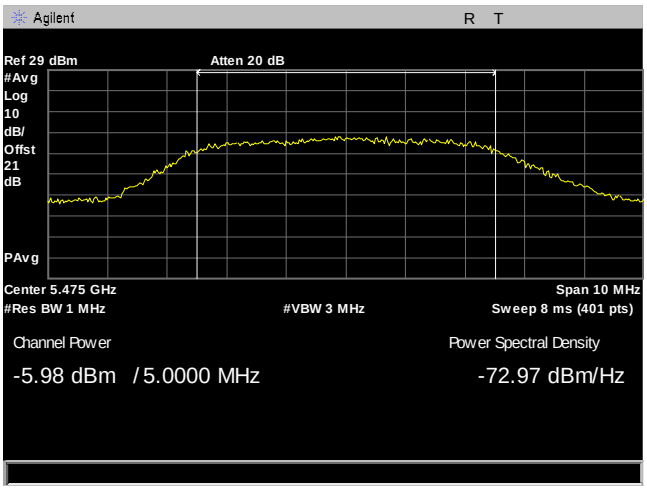



**Plot 142. Maximum Conducted Transmit Power, 2 Panel, 40M, 5325, Port 1**

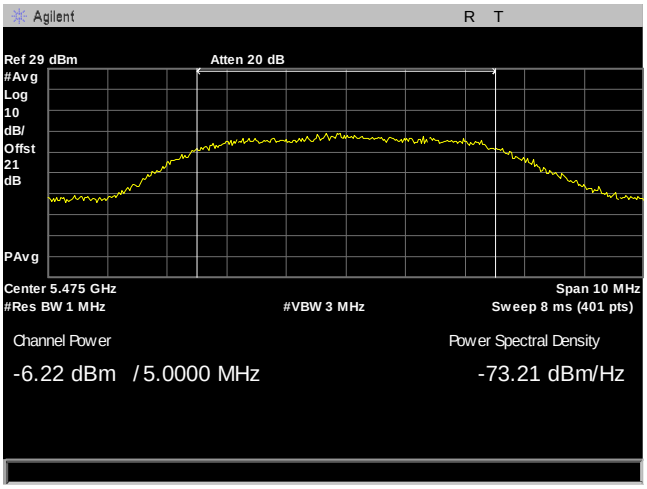



**Plot 143. Maximum Conducted Transmit Power, 2 Panel, 40M, 5325, Port 2**

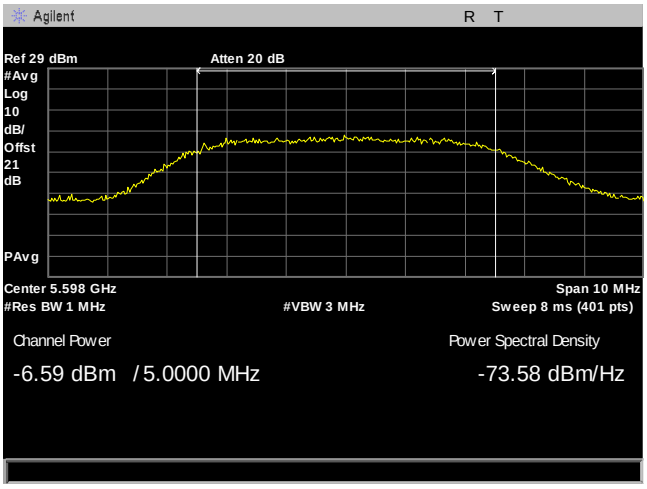
  




**Plot 144. Maximum Conducted Transmit Power, 2 Panel, 5M, 5475, Port 1**

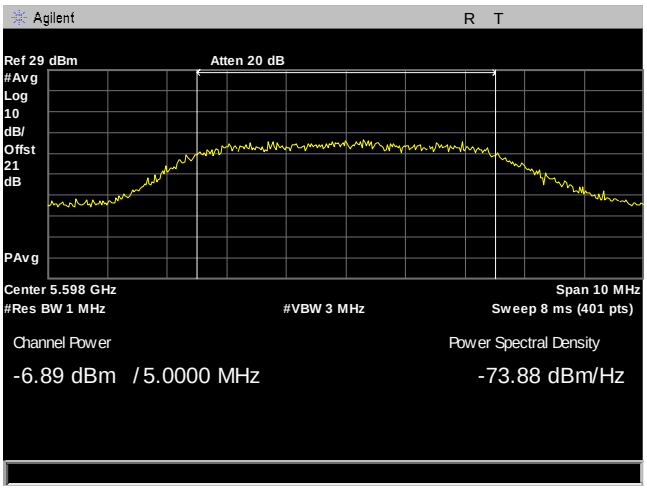



**Plot 145. Maximum Conducted Transmit Power, 2 Panel, 5M, 5475, Port 2**

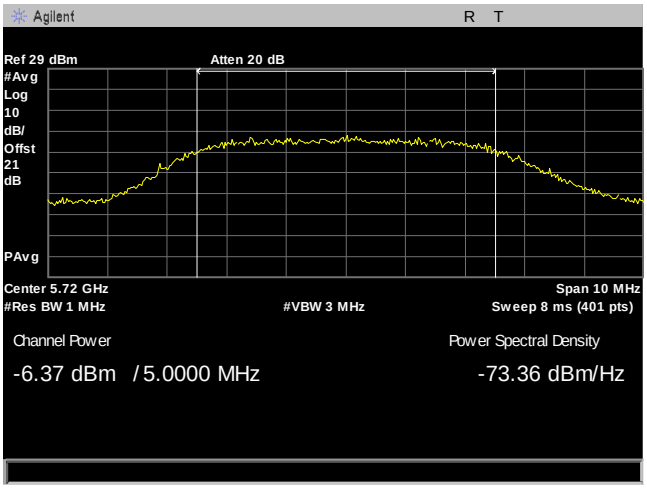



**Plot 146. Maximum Conducted Transmit Power, 2 Panel, 5M, 5598, Port 1**

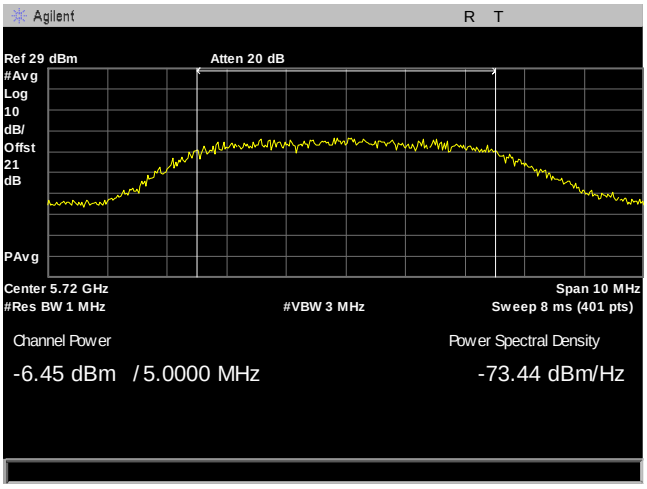
  




**Plot 147. Maximum Conducted Transmit Power, 2 Panel, 5M, 5598, Port 2**

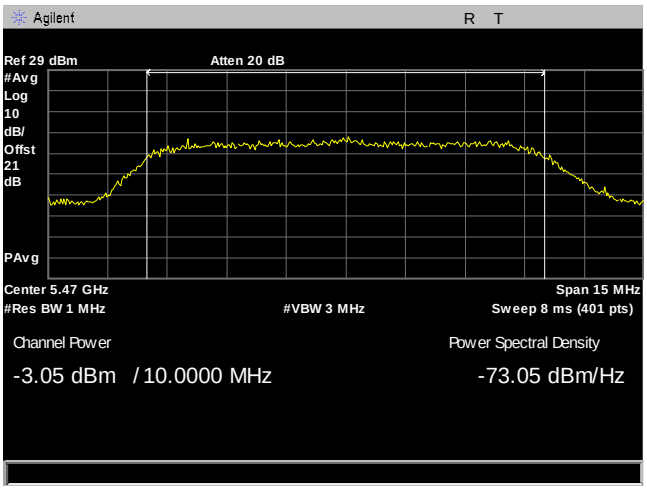



**Plot 148. Maximum Conducted Transmit Power, 2 Panel, 5M, 5720, Port 1**

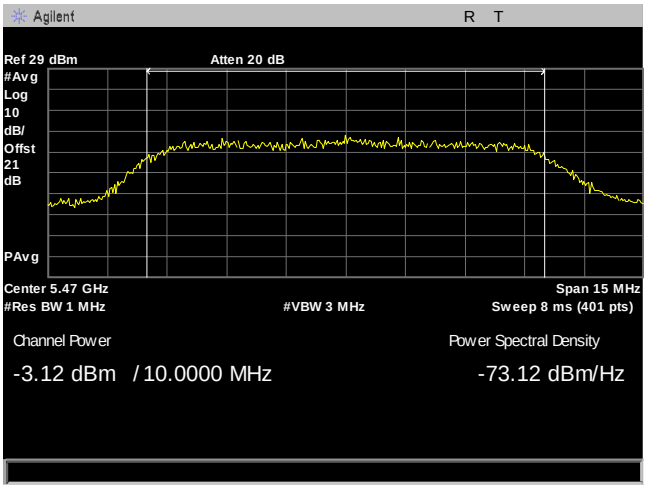



**Plot 149. Maximum Conducted Transmit Power, 2 Panel, 5M, 5720, Port 2**

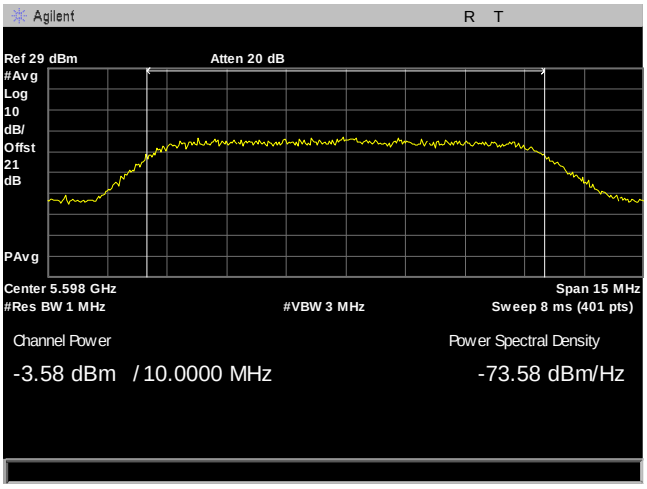
  




**Plot 150. Maximum Conducted Transmit Power, 2 Panel, 10M, 5480, Port 1**

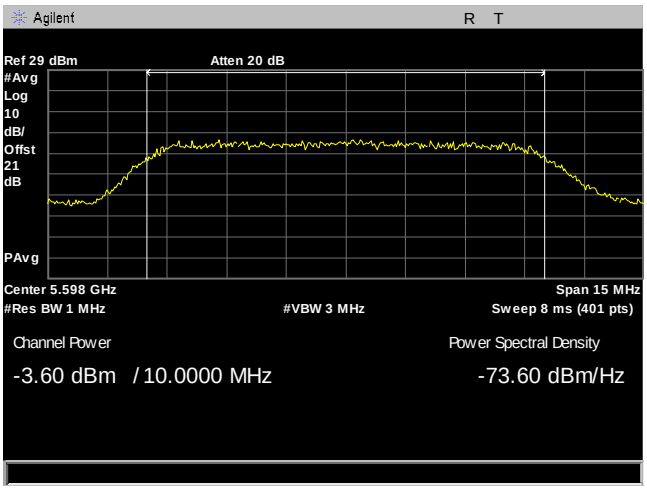



**Plot 151. Maximum Conducted Transmit Power, 2 Panel, 10M, 5480, Port 2**

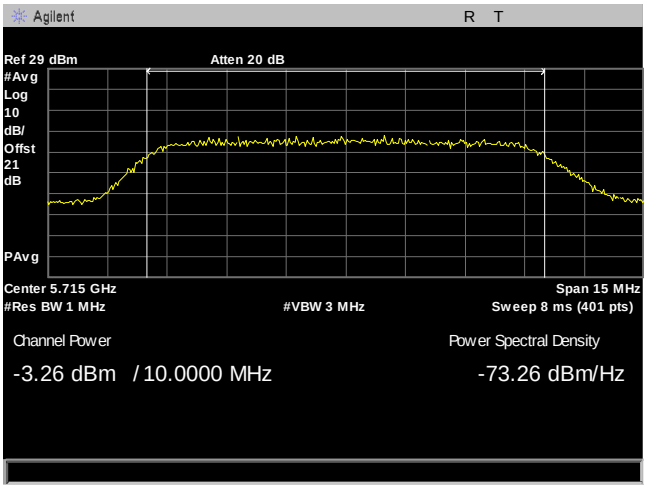



**Plot 152. Maximum Conducted Transmit Power, 2 Panel, 10M, 5598, Port 1**

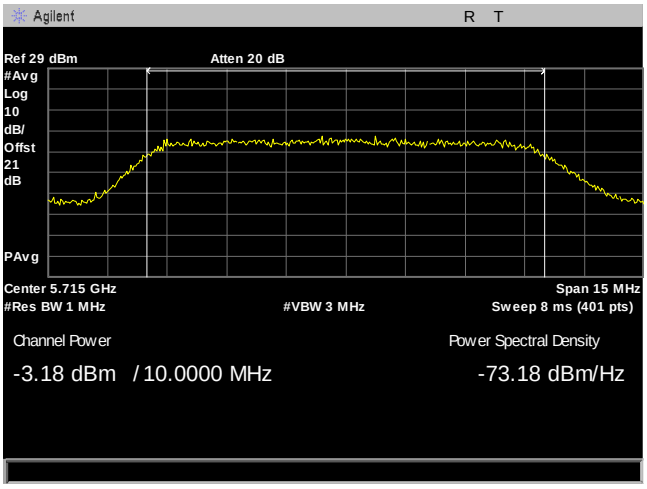
  




**Plot 153. Maximum Conducted Transmit Power, 2 Panel, 10M, 5598, Port 2**

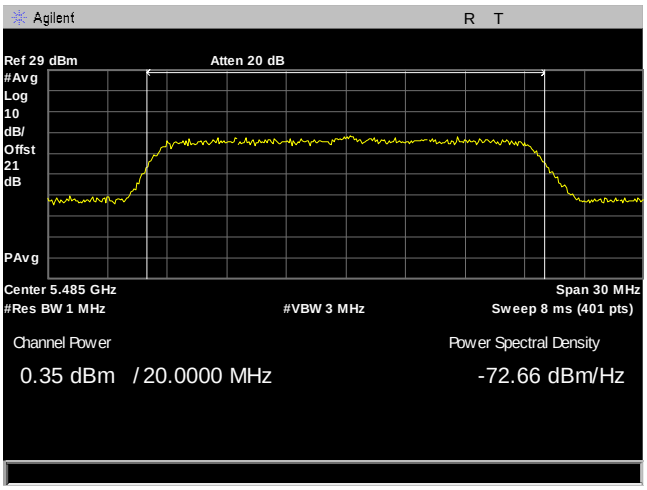



**Plot 154. Maximum Conducted Transmit Power, 2 Panel, 10M, 5715, Port 1**

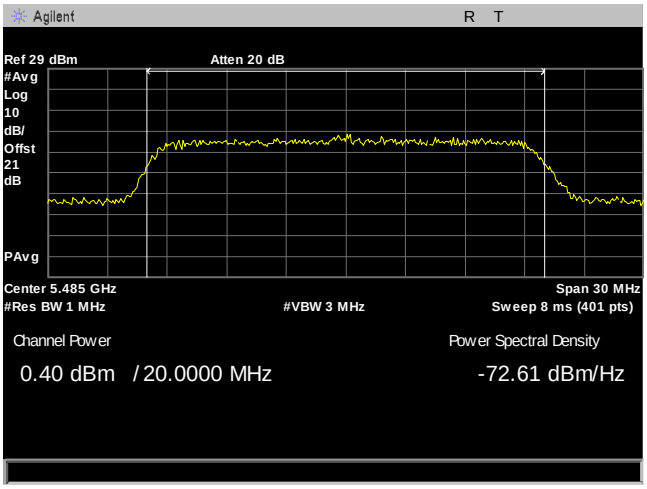



**Plot 155. Maximum Conducted Transmit Power, 2 Panel, 10M, 5715, Port 2**

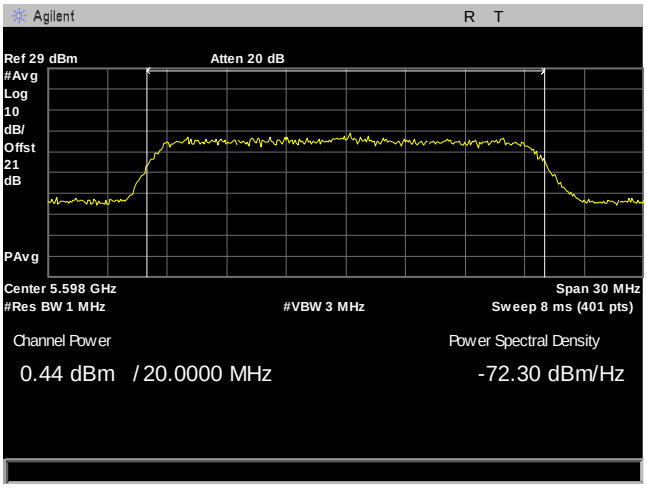
  




**Plot 156. Maximum Conducted Transmit Power, 2 Panel, 20M, 5485, Port 1**

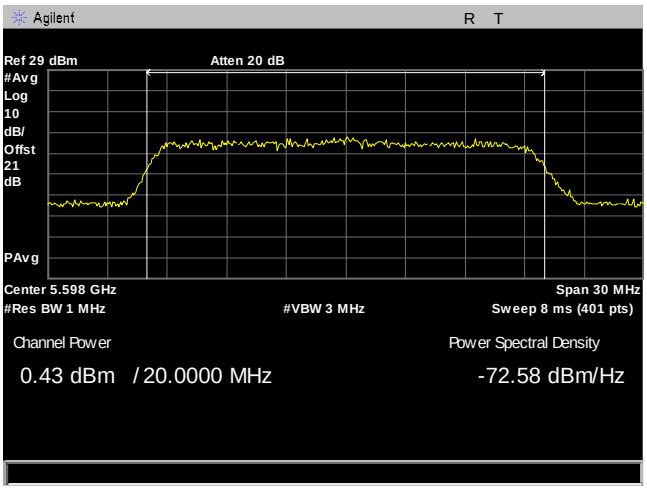



**Plot 157. Maximum Conducted Transmit Power, 2 Panel, 20M, 5485, Port 2**

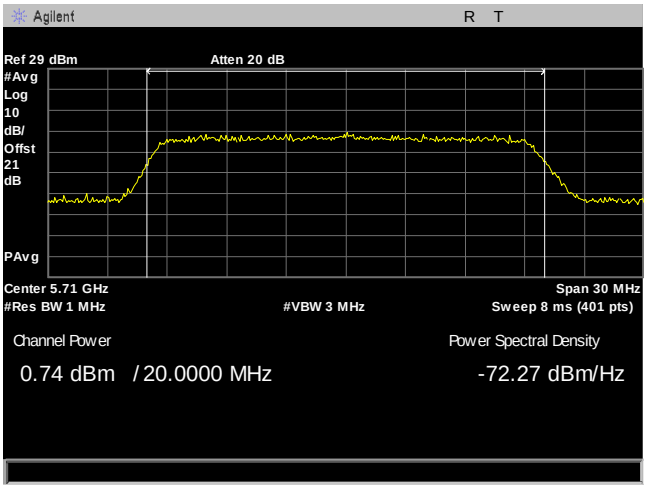



**Plot 158. Maximum Conducted Transmit Power, 2 Panel, 20M, 5598, Port 1**

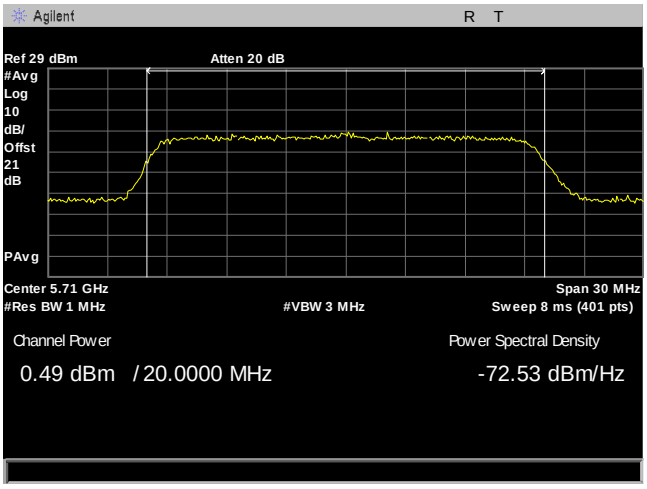
  




**Plot 159. Maximum Conducted Transmit Power, 2 Panel, 20M, 5598, Port 2**

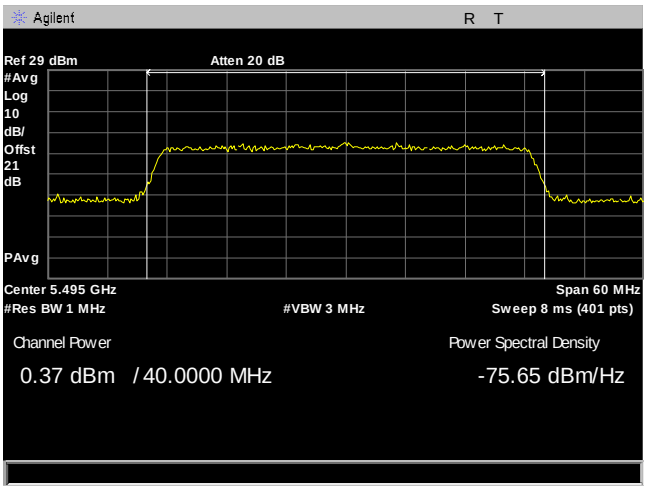



**Plot 160. Maximum Conducted Transmit Power, 2 Panel, 20M, 5710, Port 1**

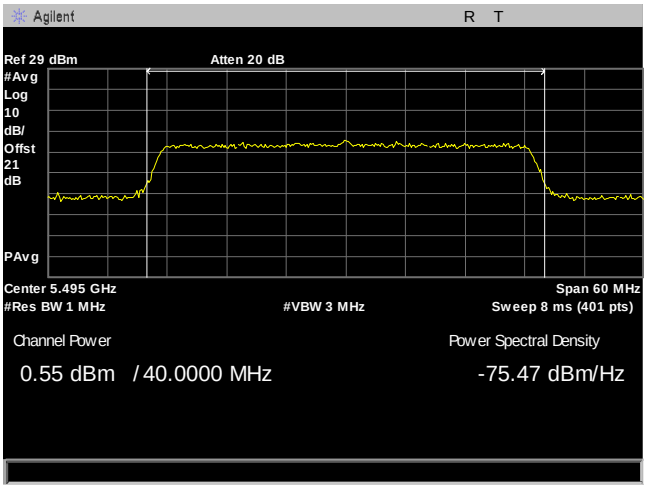



**Plot 161. Maximum Conducted Transmit Power, 2 Panel, 20M, 5710, Port 2**

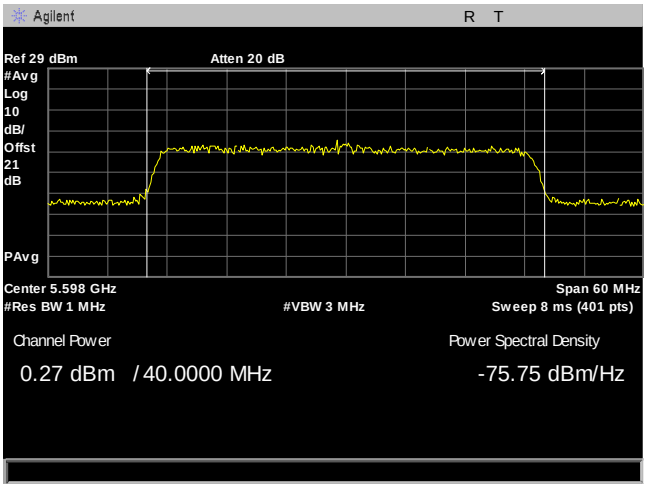
  




**Plot 162. Maximum Conducted Transmit Power, 2 Panel, 40M, 5495, Port 1**

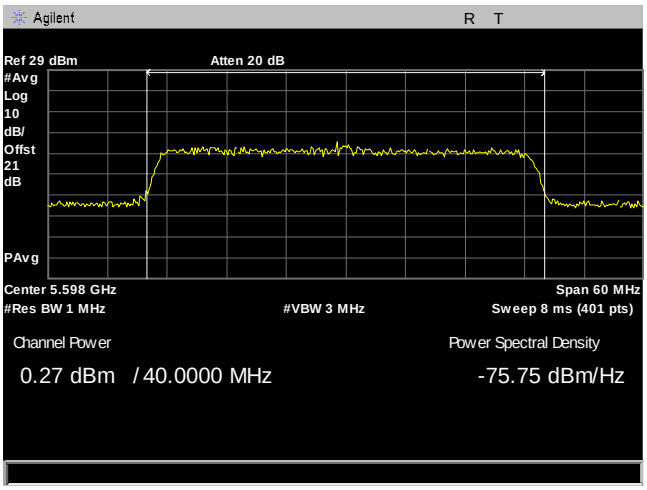



**Plot 163. Maximum Conducted Transmit Power, 2 Panel, 40M, 5495, Port 2**

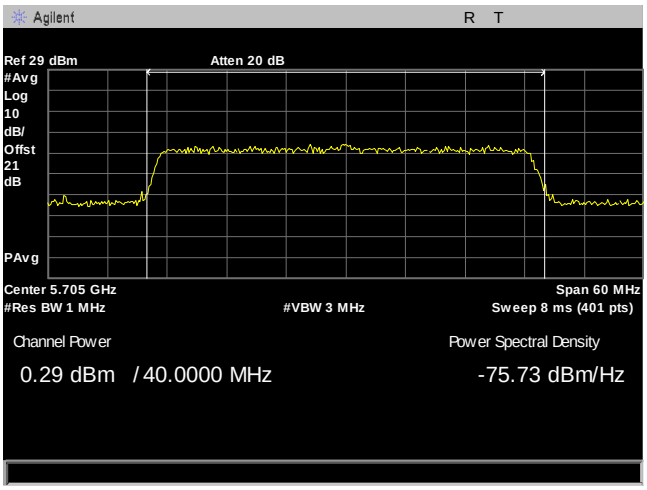



**Plot 164. Maximum Conducted Transmit Power, 2 Panel, 40M, 5598, Port 1**

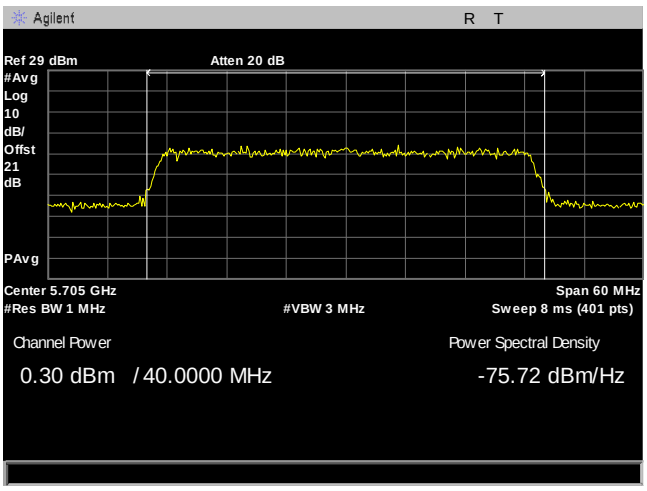
  




**Plot 165. Maximum Conducted Transmit Power, 2 Panel, 40M, 5598, Port 2**




**Plot 166. Maximum Conducted Transmit Power, 2 Panel, 40M, 5700, Port 1**




**Plot 167. Maximum Conducted Transmit Power, 2 Panel, 40M, 5700, Port 2**

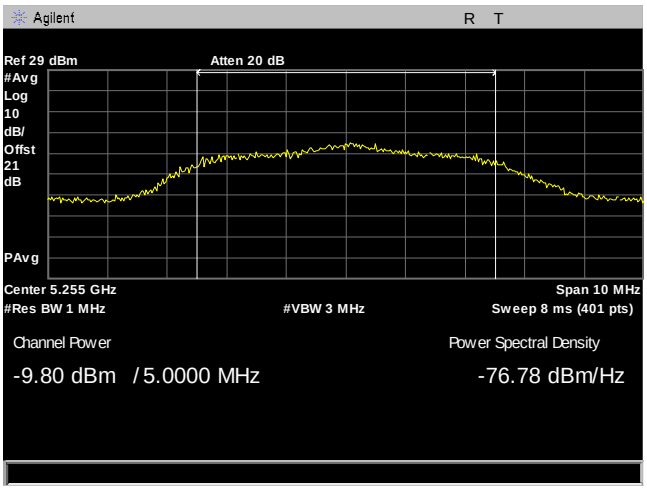
| Frequency (MHz) | Power Port 1 (dBm) | Power Port 2 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | Power Limit (dBm) | Power Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5255.0 | -9.8 | -9.86 | -6.82 | 17.68 | 30.00 | -6.32 | -0.50 |
| 5300.0 | -9.9 | -9.85 | -6.86 | 17.66 | 30.00 | -6.34 | -0.52 |
| 5345.0 | -9.96 | -9.98 | -6.96 | 17.67 | 30.00 | -6.33 | -0.63 |
| **10 MHz** | | | | | | | |
| 5260.0 | -7.48 | -7.54 | -4.50 | 20.65 | 30.00 | -3.35 | -1.15 |
| 5300.0 | -7.58 | -7.55 | -4.55 | 20.65 | 30.00 | -3.35 | -1.20 |
| 5340.0 | -7.52 | -7.49 | -4.49 | 20.65 | 30.00 | -3.35 | -1.14 |
| 20 MHz | | | | | | | |
| 5265.0 | -4.34 | -4.2 | -1.26 | 23.67 | 30.00 | -0.33 | -0.93 |
| 5300.0 | -4.45 | -4.43 | -1.43 | 23.67 | 30.00 | -0.33 | -1.10 |
| 5335.0 | -4.51 | -4.41 | -1.45 | 23.66 | 30.00 | -0.34 | -1.11 |
| 40MHz | | | | | | | |
| 5275.0 | -4.17 | -4.25 | -1.20 | 24.00 | 30.00 | 0.00 | -1.20 |
| 5300.0 | -4.52 | -4.49 | -1.49 | 24.00 | 30.00 | 0.00 | -1.49 |
| 5325.0 | -4.38 | -4.43 | -1.39 | 24.00 | 30.00 | 0.00 | -1.39 |

**Table 17. Maximum Conducted Transmitter Power, 3 Para, UNII 2A Test Results**

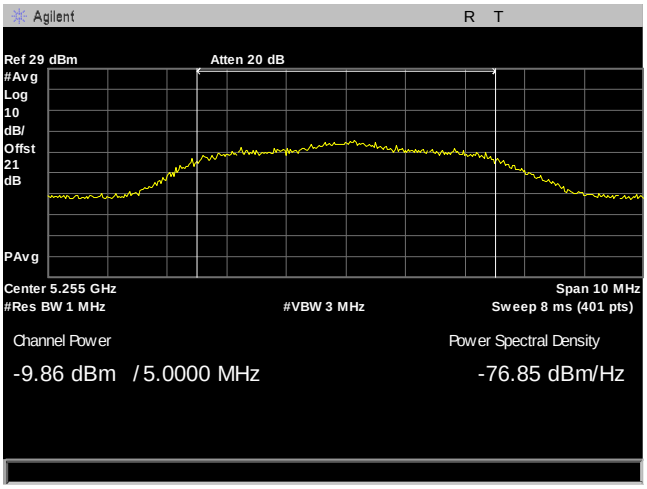
| Frequency (MHz) | Power Port 1 (dBm) | Power Port 2 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | Power Limit (dBm) | Power Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5475.0 | -9.77 | -9.83 | -6.79 | 17.68 | 30.00 | -6.32 | -0.47 |
| 5598.0 | -10.74 | -10.92 | -7.82 | 17.66 | 30.00 | -6.34 | -1.47 |
| 5720.0 | -10.58 | -10.68 | -7.62 | 17.67 | 30.00 | -6.33 | -1.29 |
| 10 MHz | | | | | | | |
| 5470.0 | -7.31 | -7.43 | -4.36 | 20.65 | 30.00 | -3.35 | -1.01 |
| 5598.0 | -8.14 | -8.35 | -5.23 | 20.65 | 30.00 | -3.35 | -1.88 |
| 5715.0 | -7.89 | -8.06 | -4.96 | 20.65 | 30.00 | -3.35 | -1.61 |
| 20 MHz | | | | | | | |
| 5485.0 | -4.33 | -4.12 | -1.21 | 23.67 | 30.00 | -0.33 | -0.88 |
| 5598.0 | -4.47 | -4.79 | -1.62 | 23.67 | 30.00 | -0.33 | -1.29 |
| 5710.0 | -4.32 | -4.55 | -1.42 | 23.66 | 30.00 | -0.34 | -1.08 |
| 40MHz | | | | | | | |
| 5495.0 | -3.88 | -3.91 | -0.88 | 24.00 | 30.00 | 0.00 | -0.88 |
| 5598.0 | -4.54 | -4.46 | -1.49 | 24.00 | 30.00 | 0.00 | -1.49 |
| 5705.0 | -4.11 | -4.08 | -1.08 | 24.00 | 30.00 | 0.00 | -1.08 |

**Table 18. Maximum Conducted Transmitter Power, 3 Para, UNII 2C Test Results**

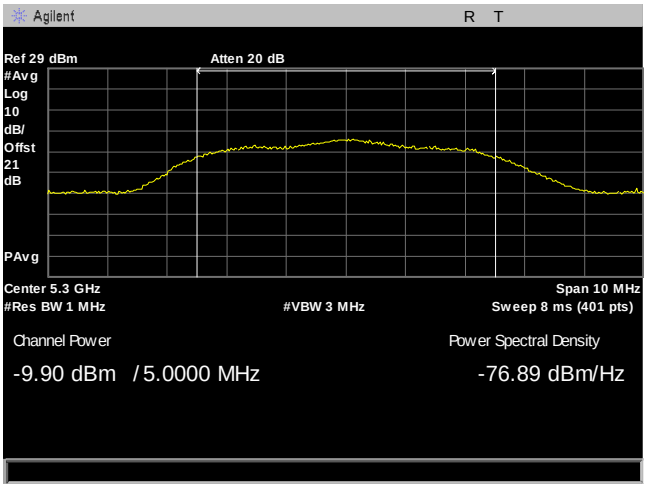
  




**Plot 168. Maximum Conducted Transmit Power, 3 Para, 5M, 5255, Port 1**

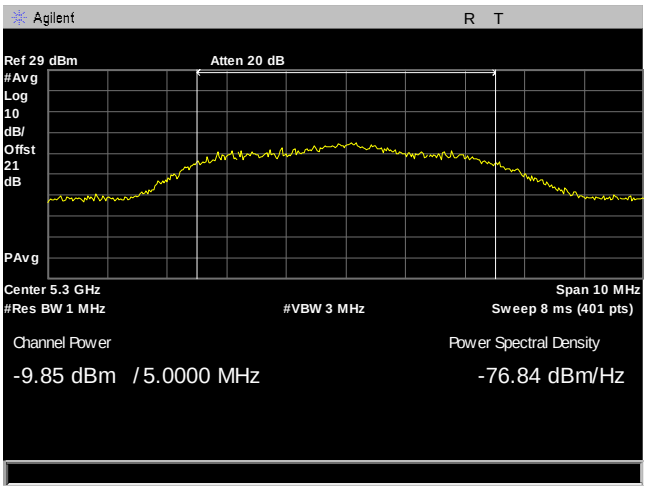



**Plot 169. Maximum Conducted Transmit Power, 3 Para, 5M, 5255, Port 2**

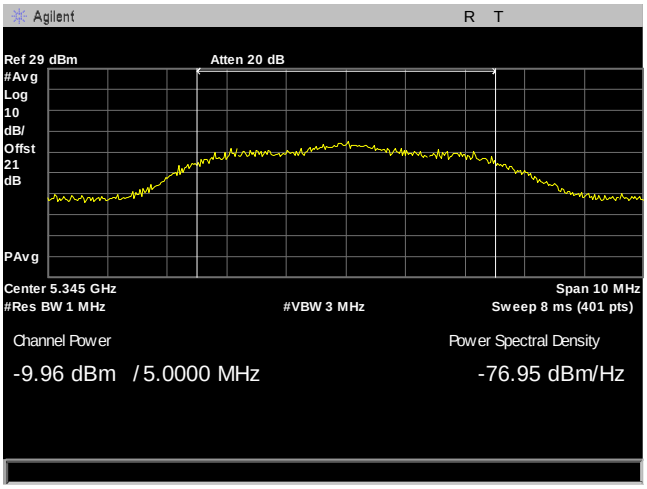



**Plot 170. Maximum Conducted Transmit Power, 3 Para, 5M, 5300, Port 1**

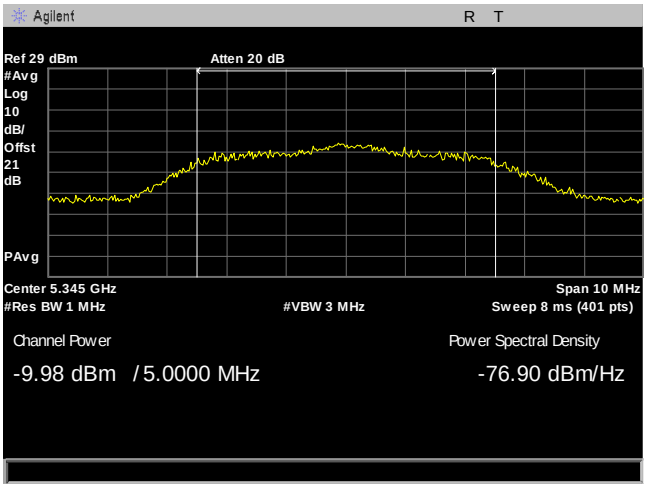
  




**Plot 171. Maximum Conducted Transmit Power, 3 Para, 5M, 5300, Port 2**

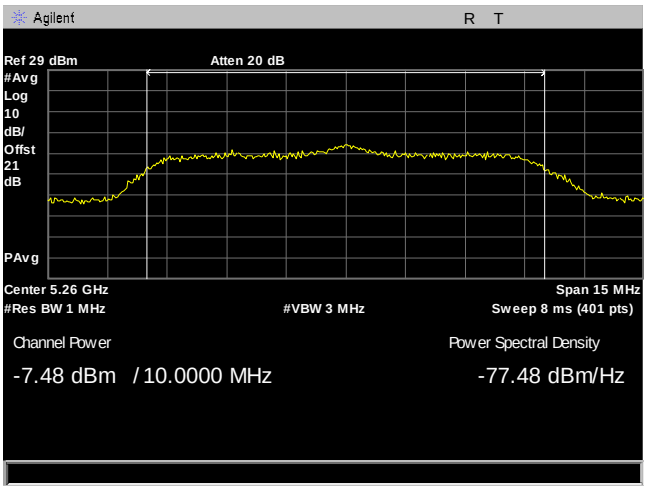



**Plot 172. Maximum Conducted Transmit Power, 3 Para, 5M, 5345, Port 1**

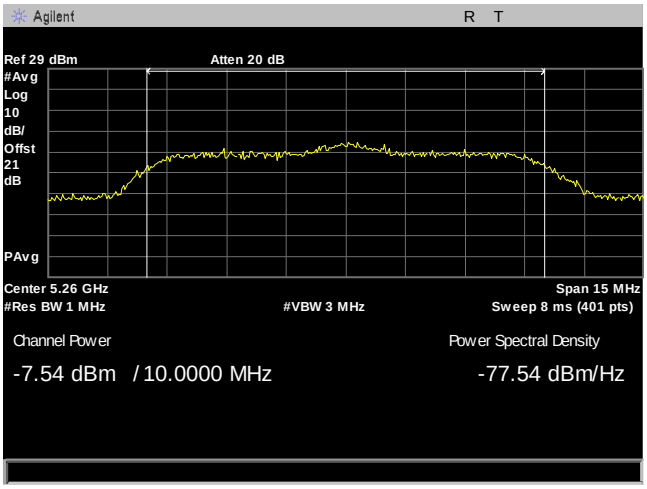



**Plot 173 Maximum Conducted Transmit Power, 3 Para, 5M, 5345, Port 2**

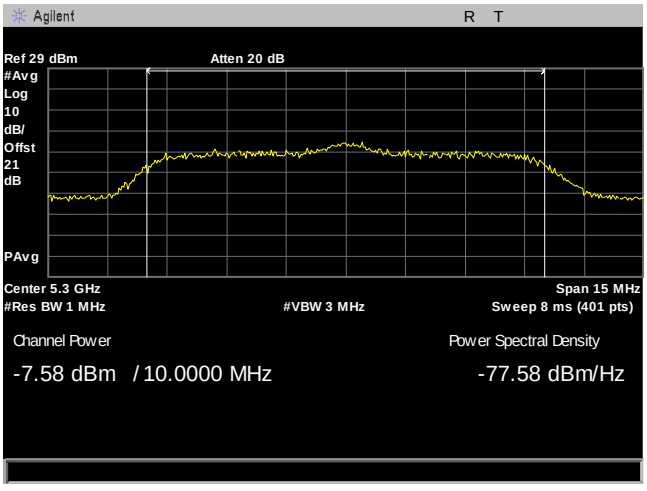
  




**Plot 174. Maximum Conducted Transmit Power, 3 Para, 10M, 5260, Port 1**

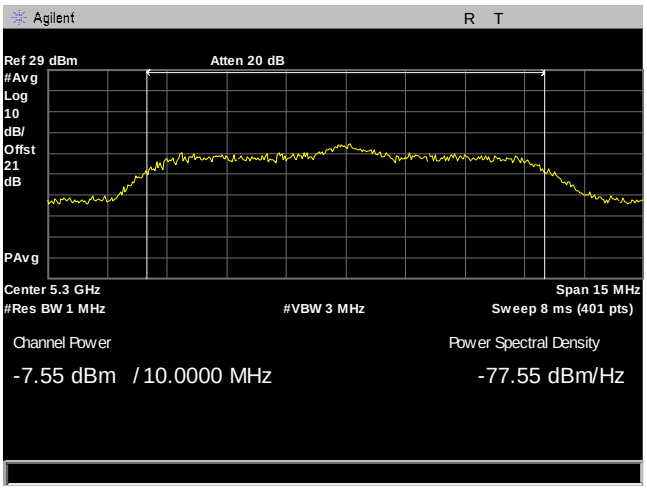



**Plot 175. Maximum Conducted Transmit Power, 3 Para, 10M, 5260, Port 2**

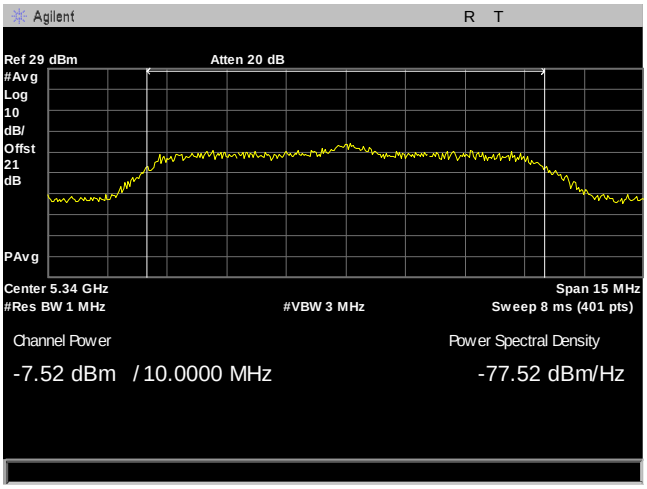



**Plot 176. Maximum Conducted Transmit Power, 3 Para, 10M, 5300, Port 1**

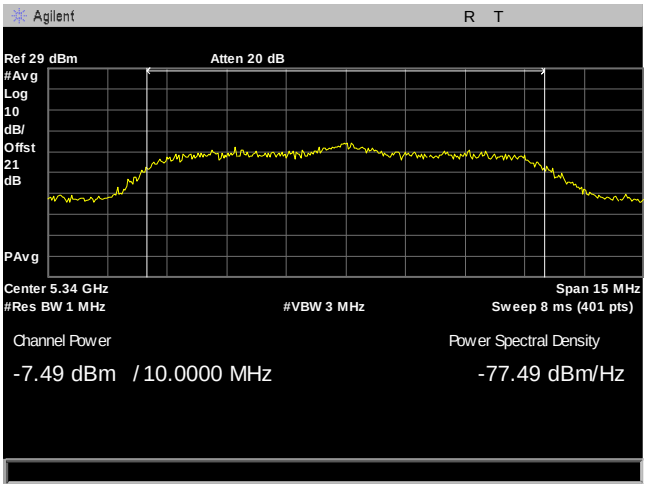
  




**Plot 177. Maximum Conducted Transmit Power, 3 Para, 10M, 5300, Port 2**

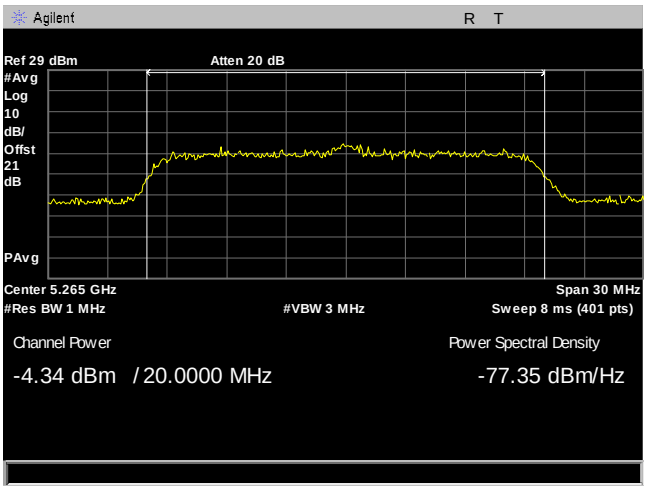



**Plot 178. Maximum Conducted Transmit Power, 3 Para, 10M, 5340, Port 1**

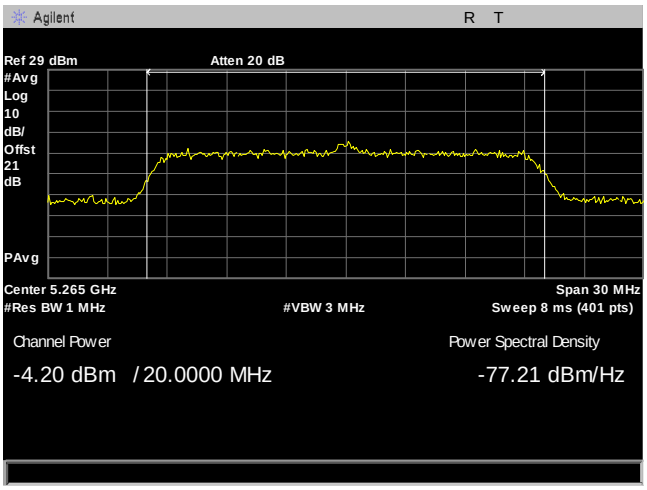



**Plot 179. Maximum Conducted Transmit Power, 3 Para, 10M, 5340, Port 2**

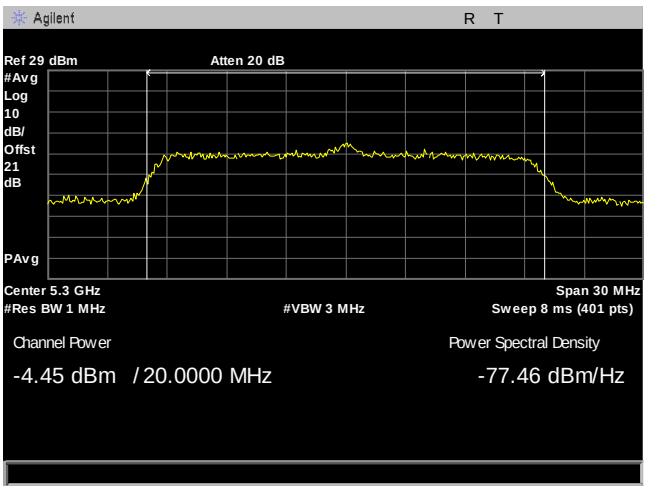
  




**Plot 180. Maximum Conducted Transmit Power, 3 Para, 20M, 5265, Port 1**

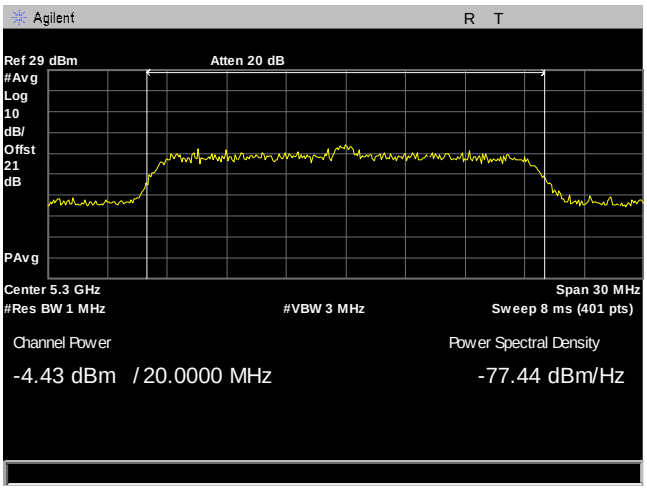



**Plot 181. Maximum Conducted Transmit Power, 3 Para, 20M, 5265, Port 2**

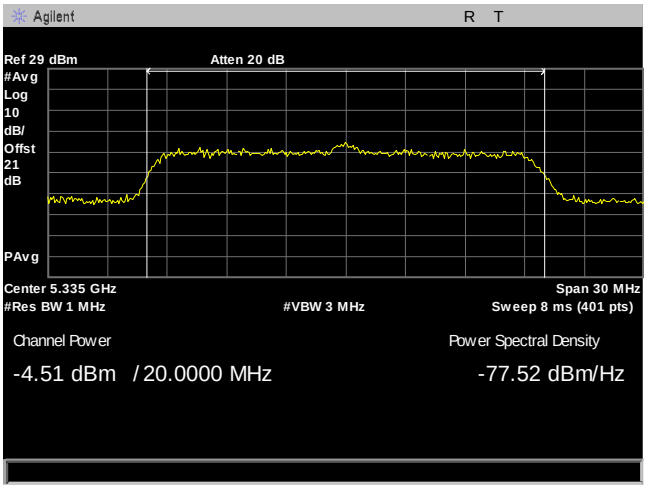



**Plot 182. Maximum Conducted Transmit Power, 3 Para, 20M, 5300, Port 1**

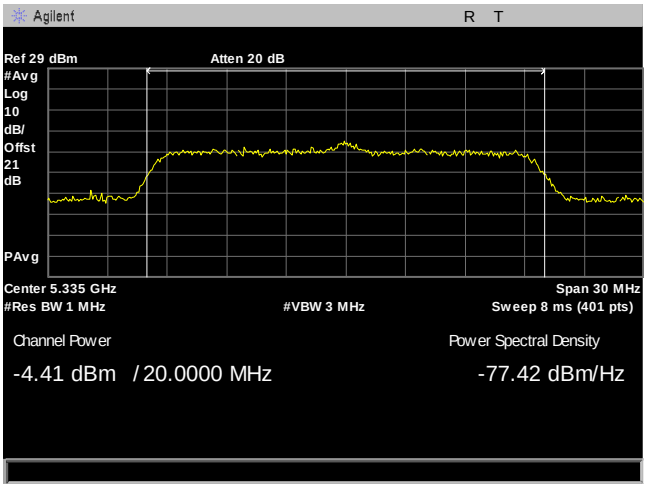
  




**Plot 183. Maximum Conducted Transmit Power, 3 Para, 20M, 5300, Port 2**

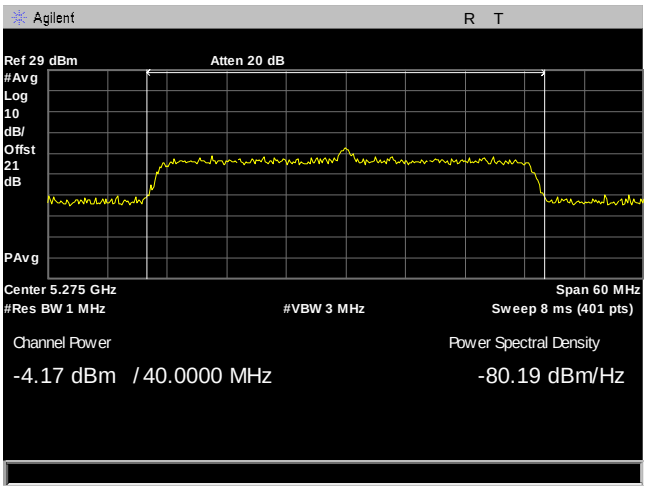



**Plot 184. Maximum Conducted Transmit Power, 3 Para, 20M, 5335, Port 1**

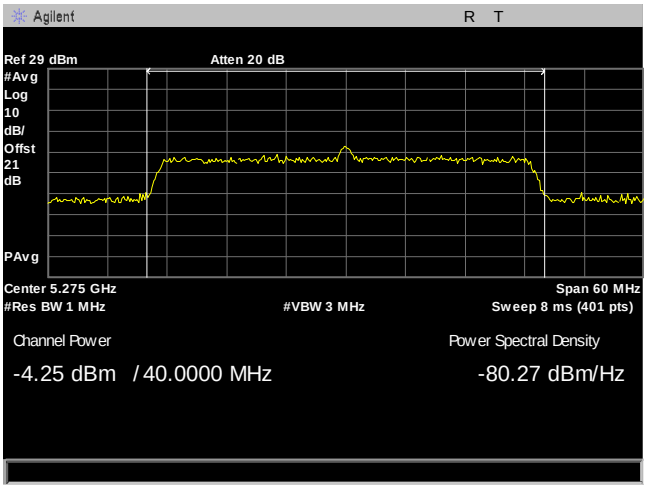



**Plot 185. Maximum Conducted Transmit Power, 3 Para, 20M, 5335, Port 2**

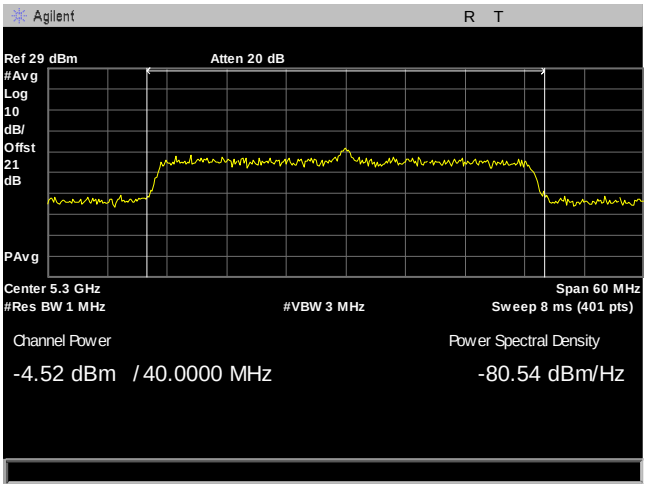
  




**Plot 186. Maximum Conducted Transmit Power, 3 Para, 40M, 5275, Port 1**

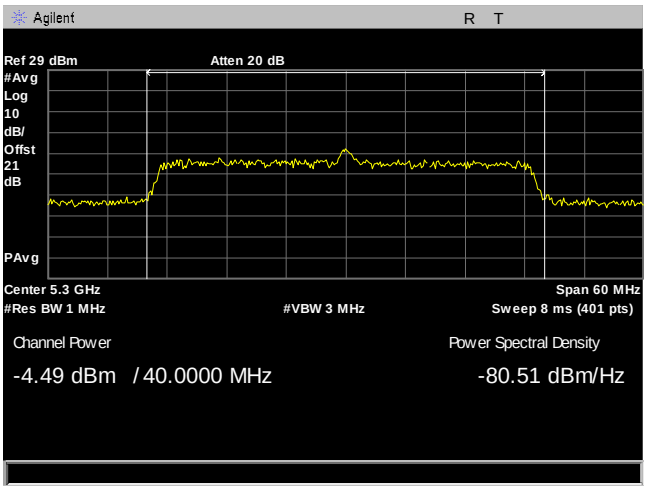



**Plot 187. Maximum Conducted Transmit Power, 3 Para, 40M, 5275, Port 2**

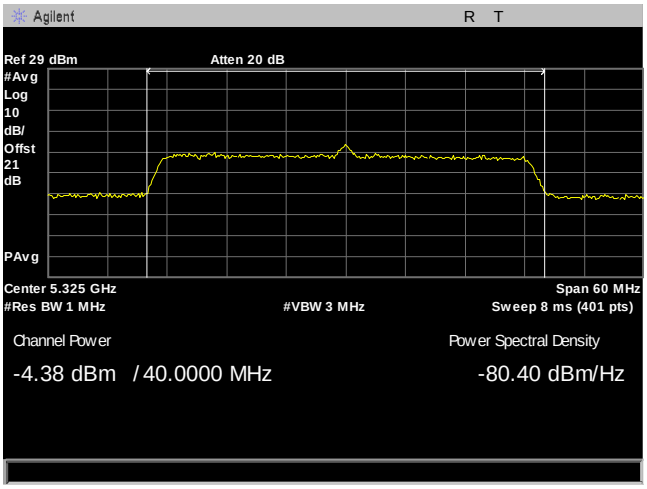



**Plot 188. Maximum Conducted Transmit Power, 3 Para, 40M, 5300, Port 1**

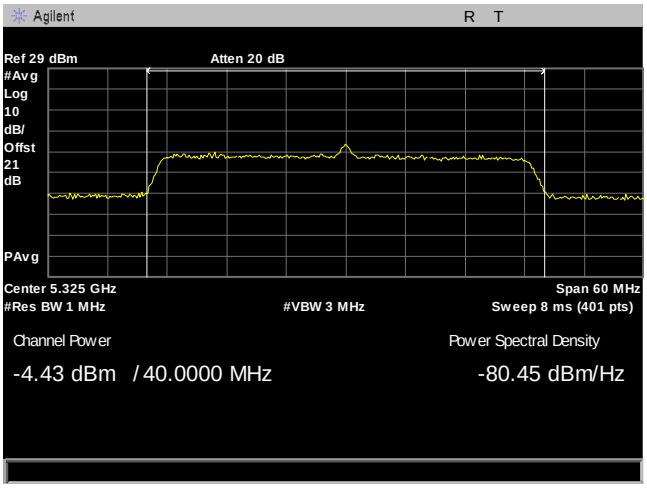
  




**Plot 189. Maximum Conducted Transmit Power, 3 Para, 40M, 5300, Port 2**

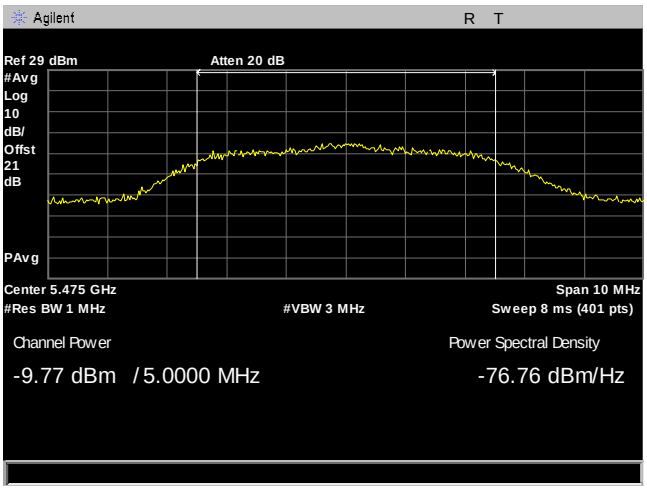



**Plot 190. Maximum Conducted Transmit Power, 3 Para, 40M, 5325, Port 1**

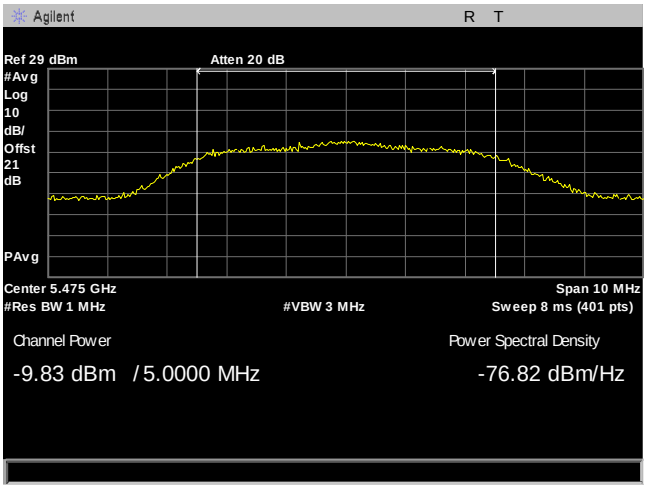



**Plot 191. Maximum Conducted Transmit Power, 3 Para, 40M, 5325, Port 2**

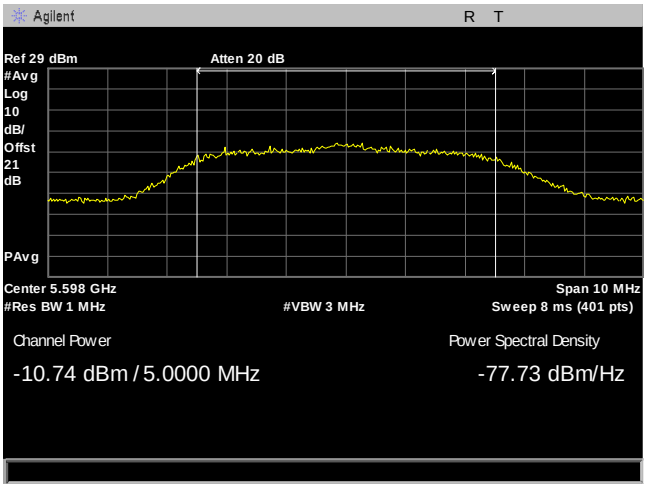
  




**Plot 192. Maximum Conducted Transmit Power, 3 Para, 5M, 5475, Port 1**

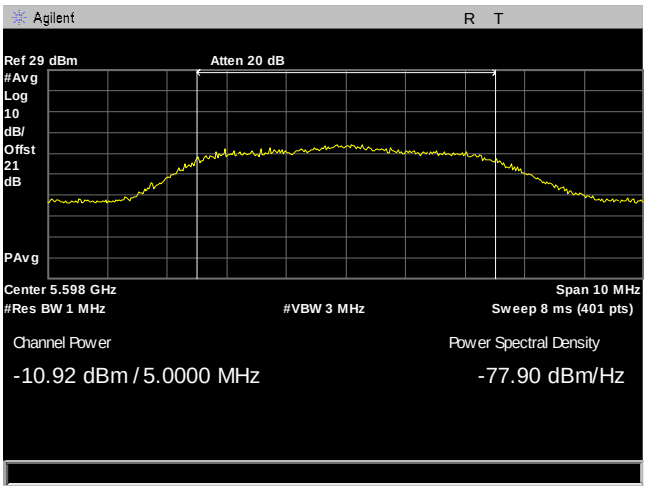



**Plot 193. Maximum Conducted Transmit Power, 3 Para, 5M, 5475, Port 2**

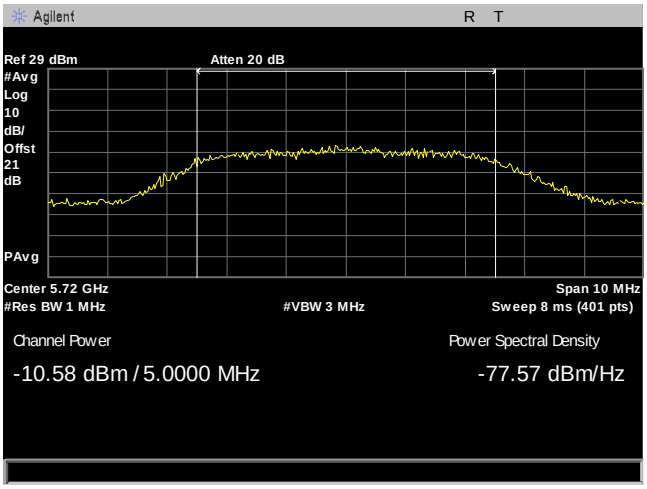



**Plot 194. Maximum Conducted Transmit Power, 3 Para, 5M, 5598, Port 1**

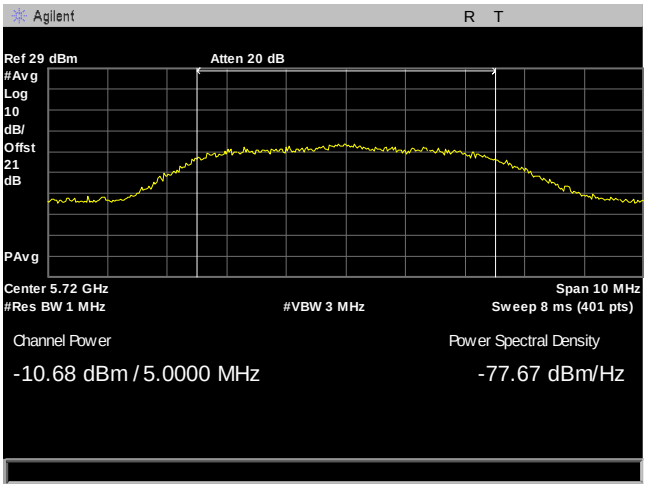
  




**Plot 195. Maximum Conducted Transmit Power, 3 Para, 5M, 5598, Port 2**

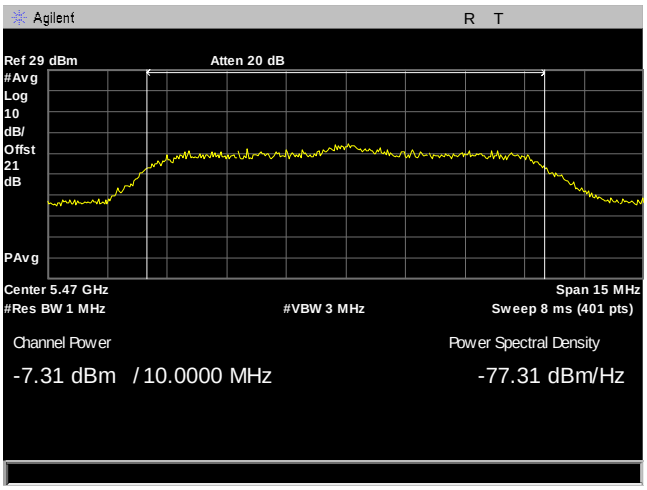



**Plot 196. Maximum Conducted Transmit Power, 3 Para, 5M, 5720, Port 1**

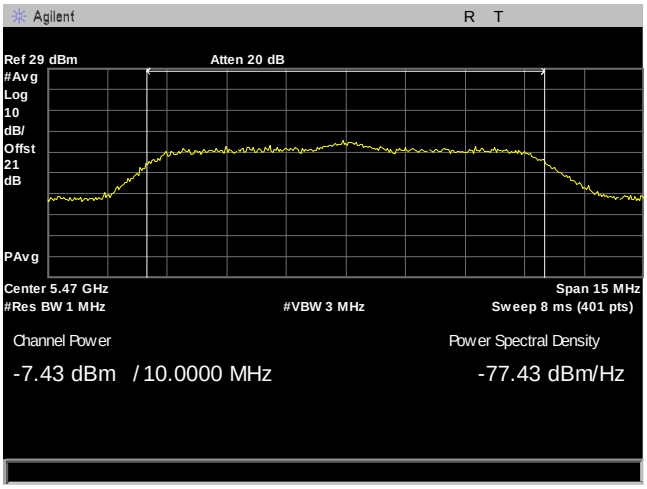



**Plot 197. Maximum Conducted Transmit Power, 3 Para, 5M, 5720, Port 2**

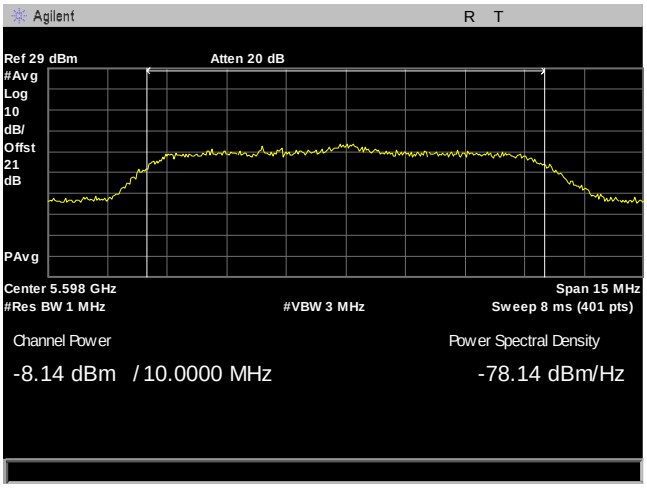
  




**Plot 198. Maximum Conducted Transmit Power, 3 Para, 10M, 5480, Port 1**

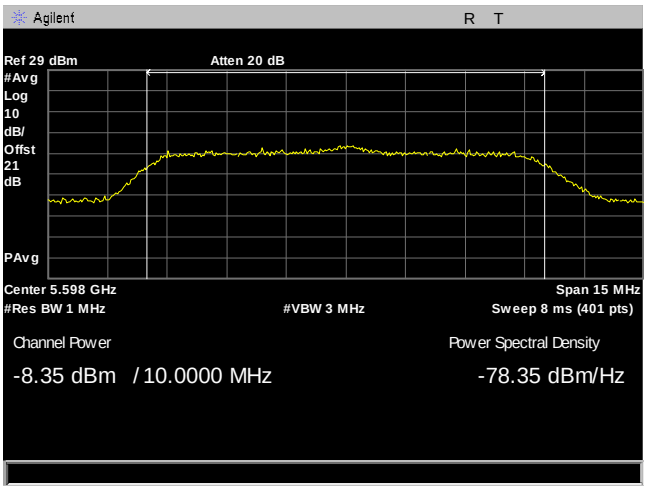



**Plot 199. Maximum Conducted Transmit Power, 3 Para, 10M, 5480, Port 2**

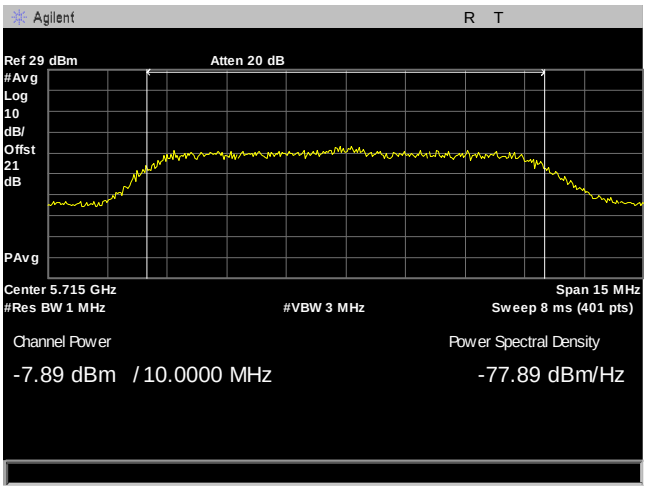



**Plot 200. Maximum Conducted Transmit Power, 3 Para, 10M, 5598, Port 1**

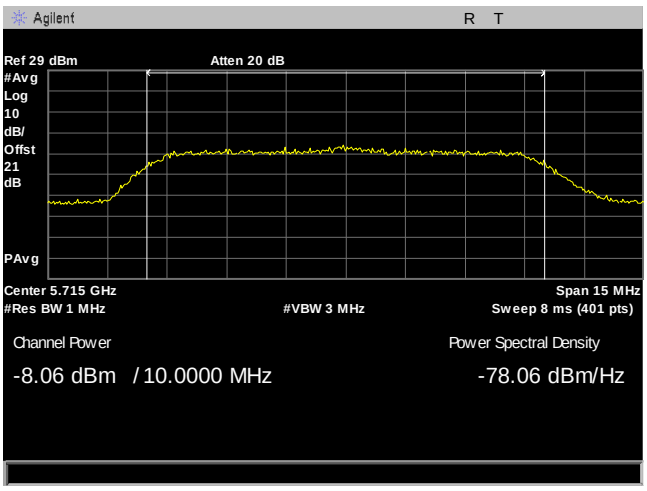
  




**Plot 201 Maximum Conducted Transmit Power, 3 Para, 10M, 5598, Port 2**

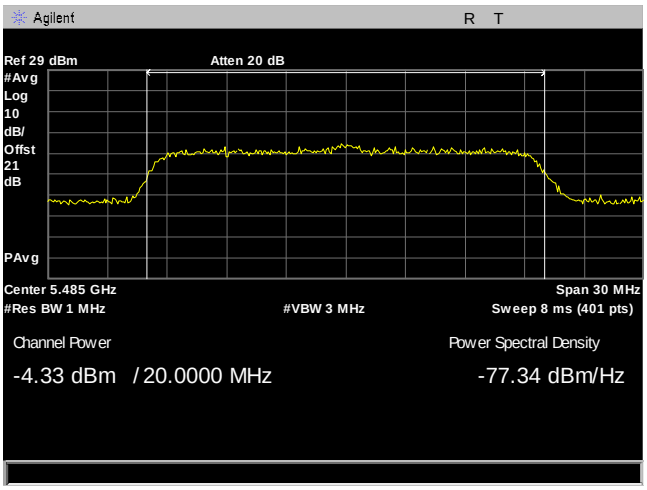



**Plot 202. Maximum Conducted Transmit Power, 3 Para, 10M, 5715, Port 1**

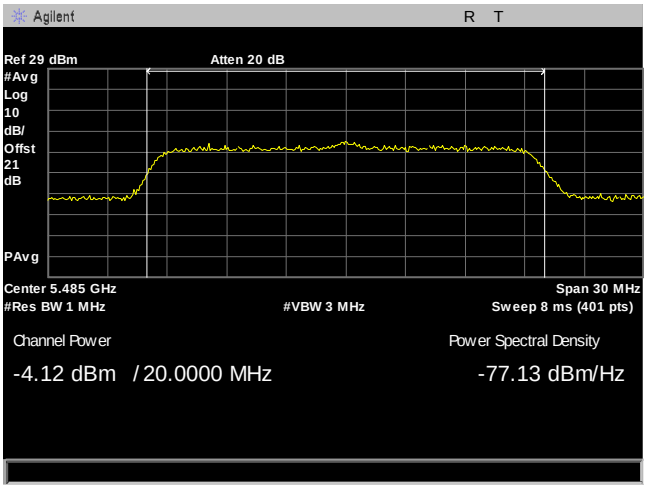



**Plot 203. Maximum Conducted Transmit Power, 3 Para, 10M, 5715, Port 2**

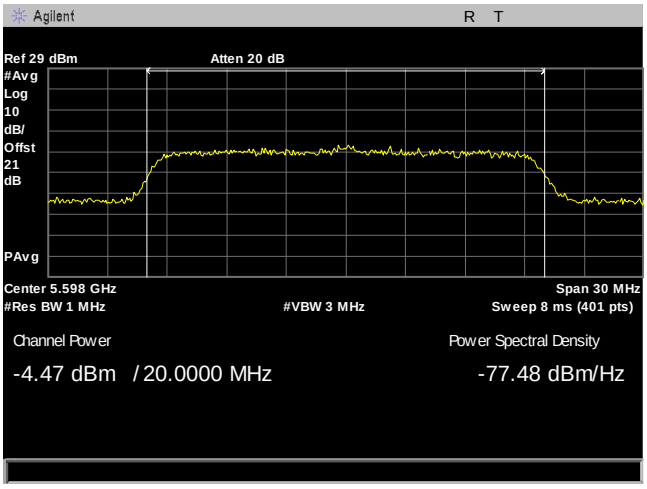
  




**Plot 204. Maximum Conducted Transmit Power, 3 Para, 20M, 5485, Port 1**

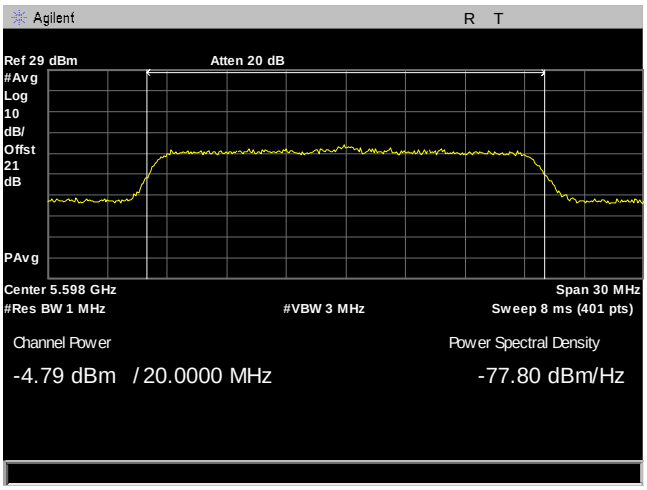



**Plot 205. Maximum Conducted Transmit Power, 3 Para, 20M, 5485, Port 2**

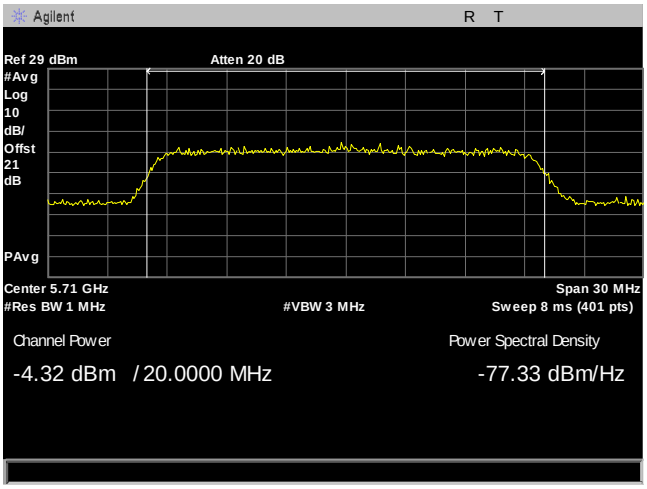



**Plot 206. Maximum Conducted Transmit Power, 3 Para, 20M, 5598, Port 1**

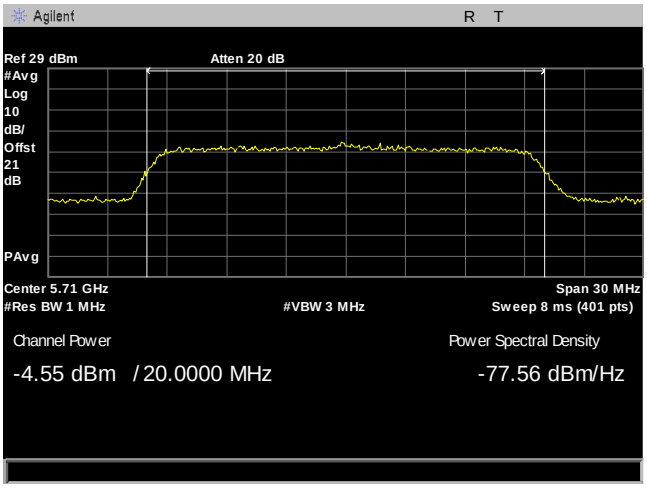
  




**Plot 207. Maximum Conducted Transmit Power, 3 Para, 20M, 5598, Port 2**

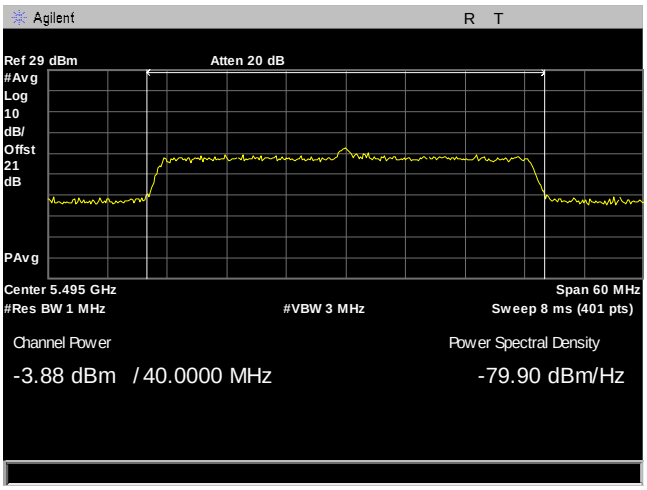



**Plot 208. Maximum Conducted Transmit Power, 3 Para, 20M, 5710, Port 1**

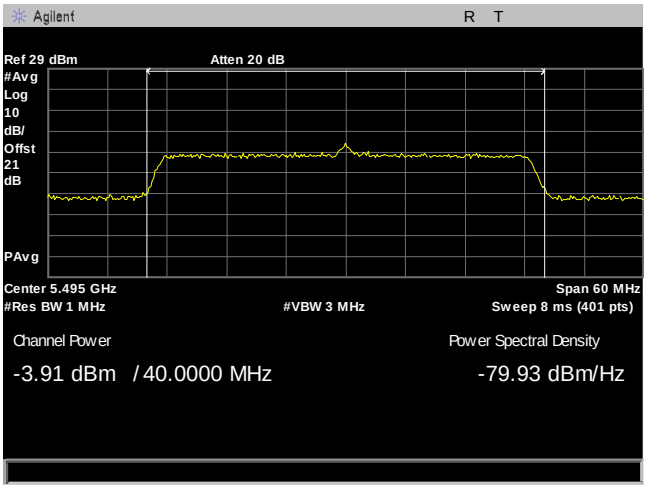



**Plot 209. Maximum Conducted Transmit Power, 3 Para, 20M, 5710, Port 2**

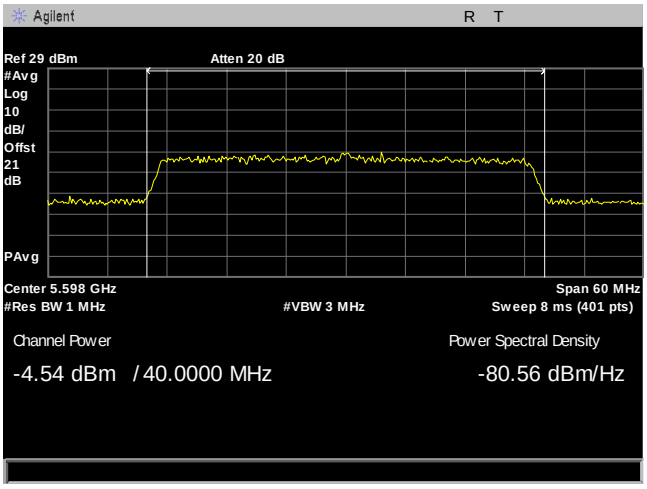
  




**Plot 210. Maximum Conducted Transmit Power, 3 Para, 40M, 5495, Port 1**

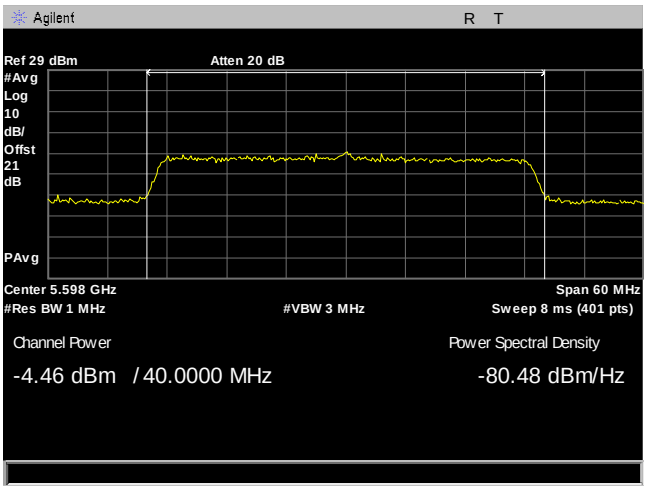



**Plot 211. Maximum Conducted Transmit Power, 3 Para, 40M, 5495, Port 2**

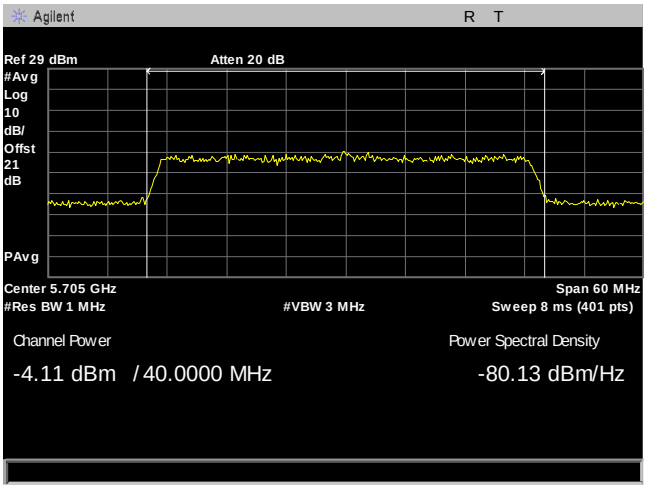



**Plot 212. Maximum Conducted Transmit Power, 3 Para, 40M, 5598, Port 1**

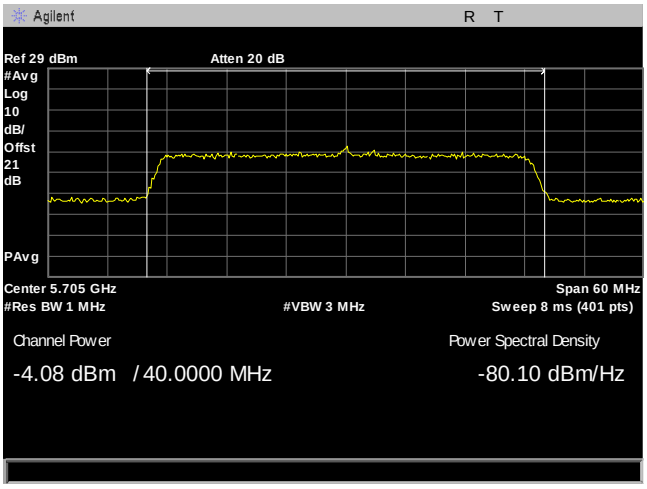
  




**Plot 213. Maximum Conducted Transmit Power, 3 Para, 40M, 5598, Port 2**




**Plot 214. Maximum Conducted Transmit Power, 3 Para, 40M, 5700, Port 1**




**Plot 215. Maximum Conducted Transmit Power, 3 Para, 40M, 5700, Port 2**

# Electromagnetic Compatibility Criteria for Intentional Radiators

## §15.407(a)(2) Maximum Power Spectral Density

**Test Requirements:** **§15.407(a)(2):** In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

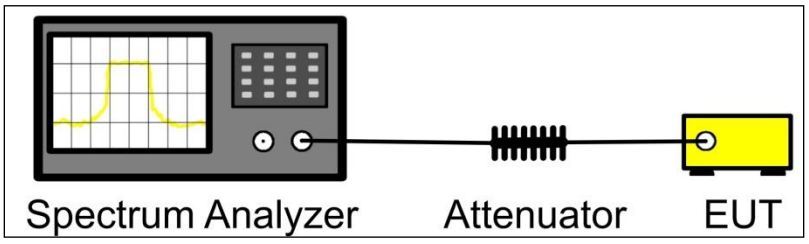
**Test Procedure:** The EUT was connected to a spectrum analyzer through a cable and attenuator. Measurements were taken with the EUT set to transmit continuously on its low, mid, and high channels. Its power was measured according KDB 789033 D02 General UNII Test Procedures v01.

**Test Results:** The EUT as tested is compliant with the requirements of this section.

No anomalies detected.

**Test Engineer(s):** Arsalan Hasan

**Test Date(s):** June 29, 2019



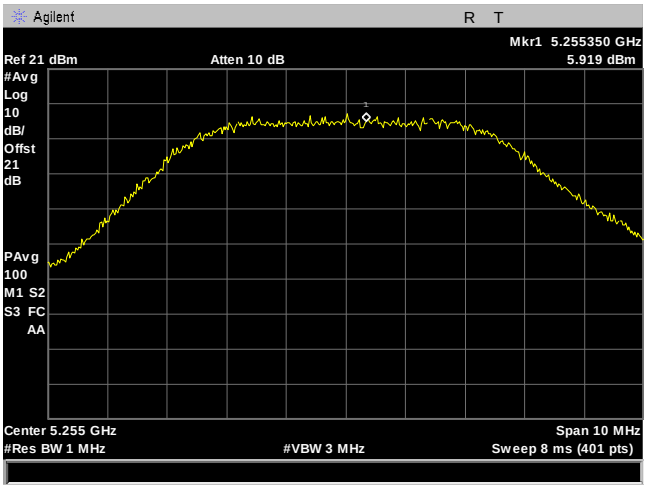
| Frequency (MHz) | PSD Chain 0 (dBm) | PSD Chain 1 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | PSD Limit (dBm) | PSD Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5255.0 | 5.91 | 5.12 | 8.54 | 11.00 | 8.00 | 9.00 | -0.46 |
| 5300.0 | 4.86 | 4.72 | 7.80 | 11.00 | 8.00 | 9.00 | -1.20 |
| 5345.0 | 5.09 | 5.37 | 8.24 | 11.00 | 8.00 | 9.00 | -0.76 |
| 10 MHz | | | | | | | |
| 5260.0 | 4.62 | 4.9 | 7.77 | 11.00 | 8.00 | 9.00 | -1.23 |
| 5300.0 | 3.98 | 3.77 | 6.89 | 11.00 | 8.00 | 9.00 | -2.11 |
| 5340.0 | 4.49 | 4.7 | 7.61 | 11.00 | 8.00 | 9.00 | -1.39 |
| 20 MHz | | | | | | | |
| 5265.0 | 3.96 | 4.61 | 7.31 | 11.00 | 8.00 | 9.00 | -1.69 |
| 5300.0 | 4.81 | 4.24 | 7.54 | 11.00 | 8.00 | 9.00 | -1.46 |
| 5335.0 | 4.55 | 4.79 | 7.68 | 11.00 | 8.00 | 9.00 | -1.32 |
| 40MHz | | | | | | | |
| 5275.0 | 4.38 | 4.35 | 7.38 | 11.00 | 8.00 | 9.00 | -1.62 |
| 5300.0 | 4.27 | 4.71 | 7.51 | 11.00 | 8.00 | 9.00 | -1.49 |
| 5325.0 | 3.84 | 4.27 | 7.07 | 11.00 | 8.00 | 9.00 | -1.93 |

**Table 19. Power Spectral Density, 8 Omni, UNII 2A Test Results**

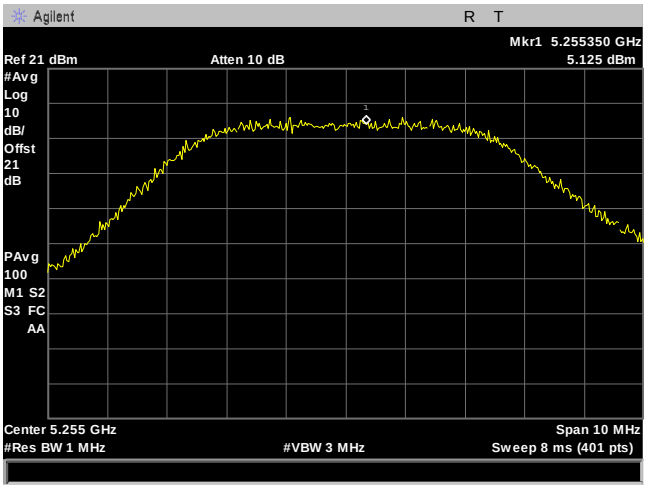
| Frequency (MHz) | PSD Chain 0 (dBm) | PSD Chain 1 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | PSD Limit (dBm) | PSD Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5475.0 | 5.16 | 5.05 | 8.12 | 11.00 | 8.00 | 9.00 | -0.88 |
| 5598.0 | 5.92 | 5.75 | 8.85 | 11.00 | 8.00 | 9.00 | -0.15 |
| 5720.0 | 4.97 | 4.46 | 7.73 | 11.00 | 8.00 | 9.00 | -1.27 |
| 10 MHz | | | | | | | |
| 5480.0 | 3.94 | 5.2 | 7.63 | 11.00 | 8.00 | 9.00 | -1.37 |
| 5598.0 | 3.85 | 4.31 | 7.10 | 11.00 | 8.00 | 9.00 | -1.90 |
| 5715.0 | 3.86 | 3.43 | 6.66 | 11.00 | 8.00 | 9.00 | -2.34 |
| 20 MHz | | | | | | | |
| 5485.0 | 4.23 | 4.57 | 7.41 | 11.00 | 8.00 | 9.00 | -1.59 |
| 5598.0 | 4.17 | 3.7 | 6.95 | 11.00 | 8.00 | 9.00 | -2.05 |
| 5710.0 | 4.3 | 4.92 | 7.63 | 11.00 | 8.00 | 9.00 | -1.37 |
| 40MHz | | | | | | | |
| 5495.0 | 1.14 | 1.76 | 4.47 | 11.00 | 8.00 | 9.00 | -4.53 |
| 5598.0 | 1.33 | 1.48 | 4.42 | 11.00 | 8.00 | 9.00 | -4.58 |
| 5700.0 | 2.33 | 1.39 | 4.90 | 11.00 | 8.00 | 9.00 | -4.10 |

**Table 20. Power Spectral Density, 8 Omni, UNII 2C Test Results**

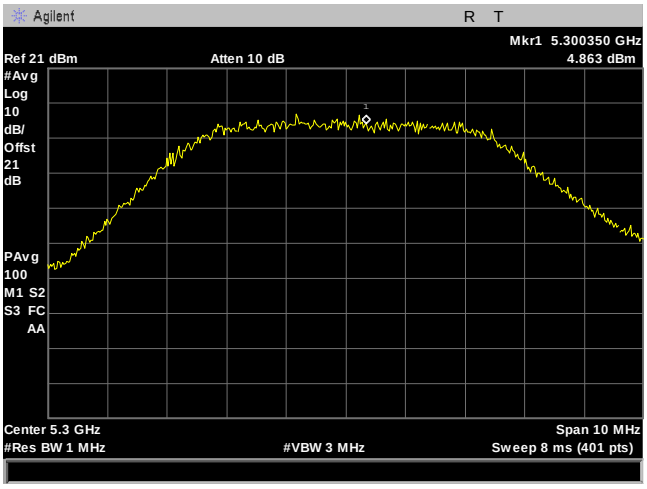
  




**Plot 216. Power Spectral Density, 8 Omni, 5M, 5255, Port 1**

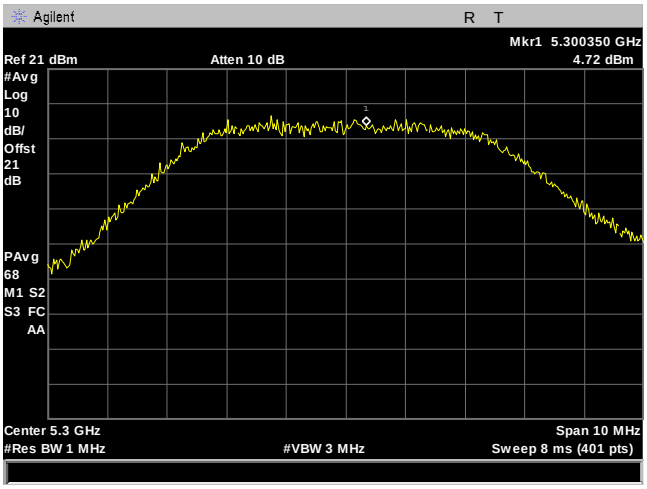



**Plot 217. Power Spectral Density, 8 Omni, 5M, 5255, Port 2**

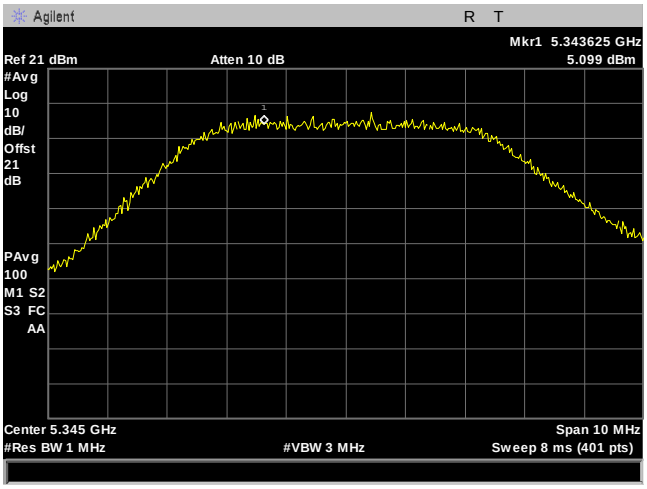



**Plot 218. Power Spectral Density, 8 Omni, 5M, 5300, Port 1**

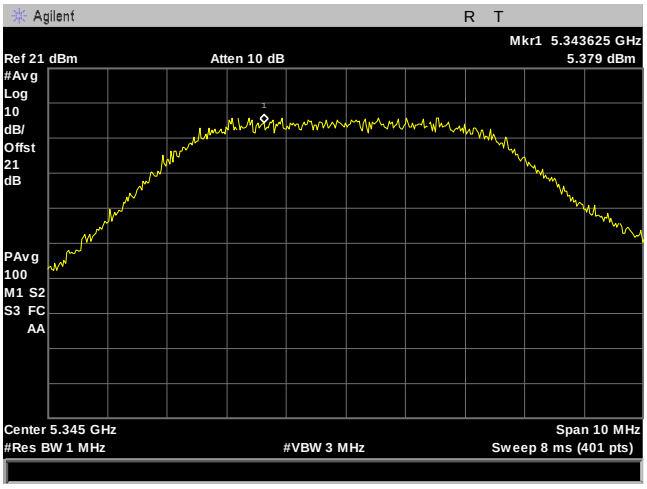
  




**Plot 219. Power Spectral Density, 8 Omni, 5M, 5300, Port 2**

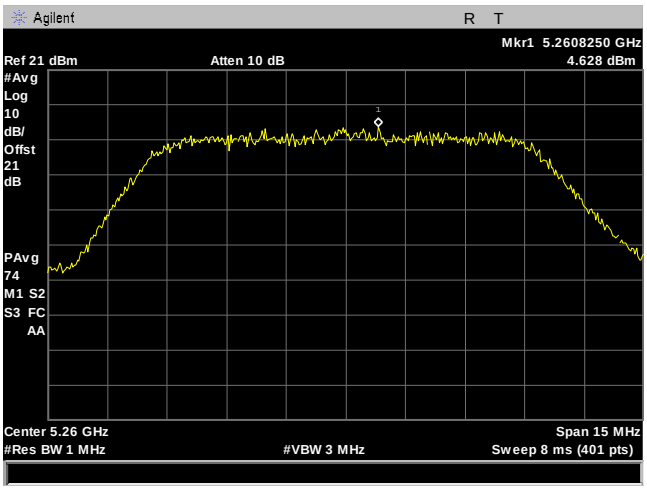



**Plot 220. Power Spectral Density, 8 Omni, 5M, 5345, Port 1**

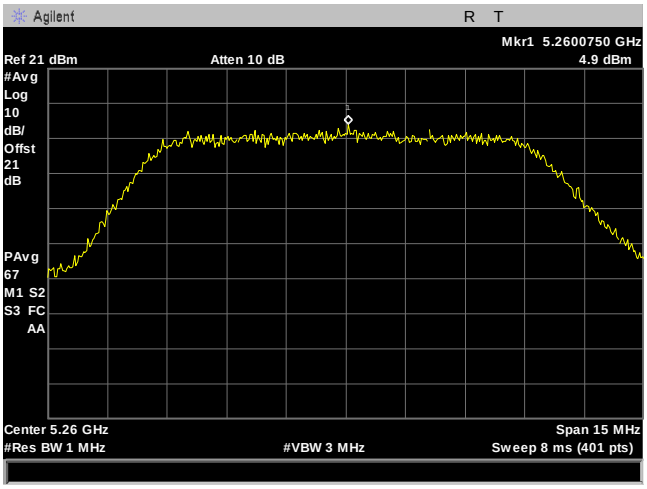



**Plot 221. Power Spectral Density, 8 Omni, 5M, 5345, Port 2**

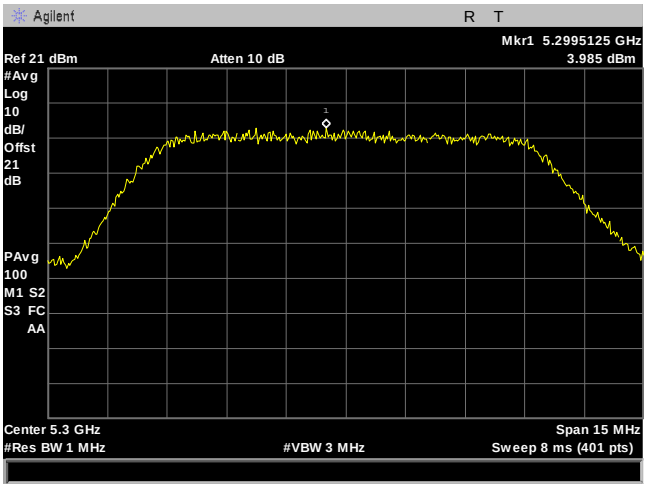
  




**Plot 222. Power Spectral Density, 8 Omni, 10M, 5260, Port 1**

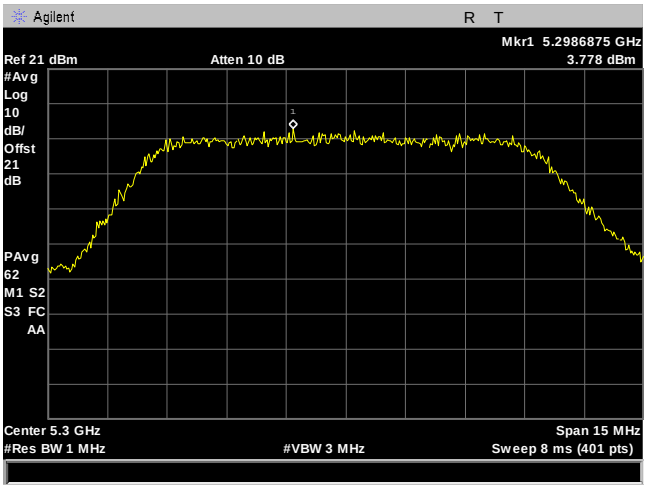



**Plot 223. Power Spectral Density, 8 Omni, 10M, 5260, Port 2**

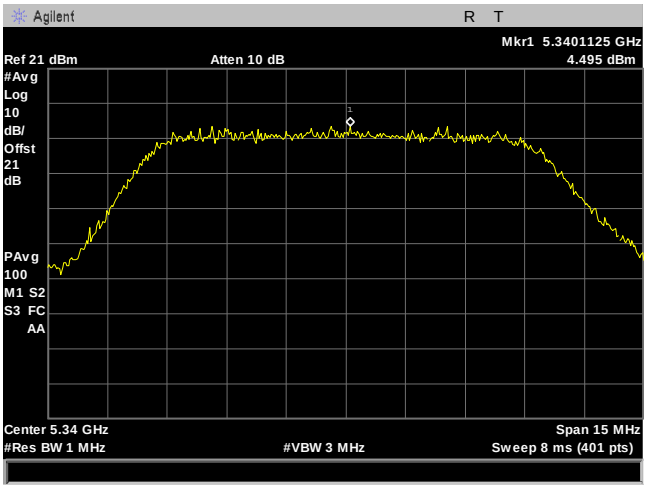



**Plot 224. Power Spectral Density, 8 Omni, 10M, 5300, Port 1**

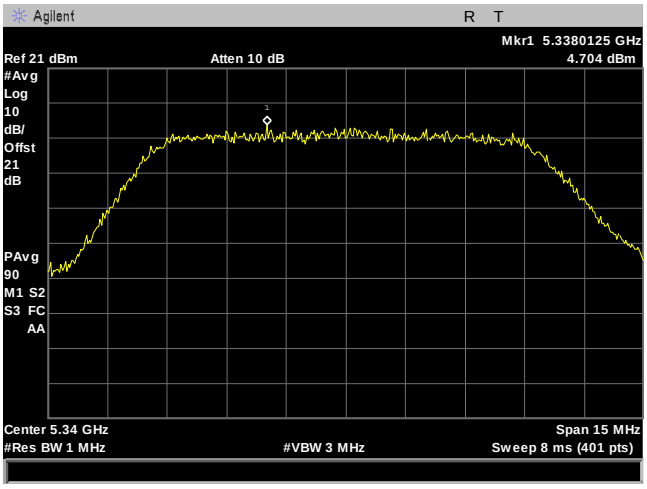
  




**Plot 225. Power Spectral Density, 8 Omni, 10M, 5300, Port 2**

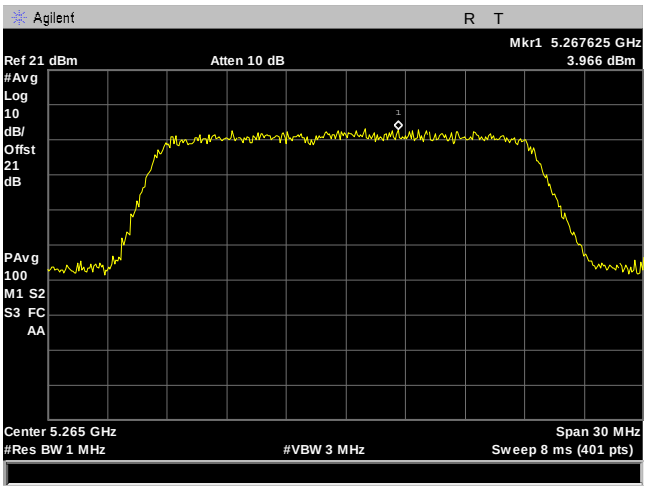



**Plot 226. Power Spectral Density, 8 Omni, 10M, 5340, Port 1**

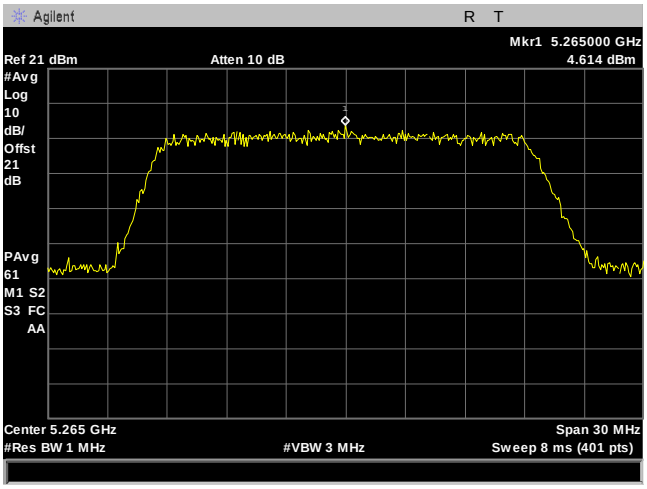



**Plot 227. Power Spectral Density, 8 Omni, 10M, 5340, Port 2**

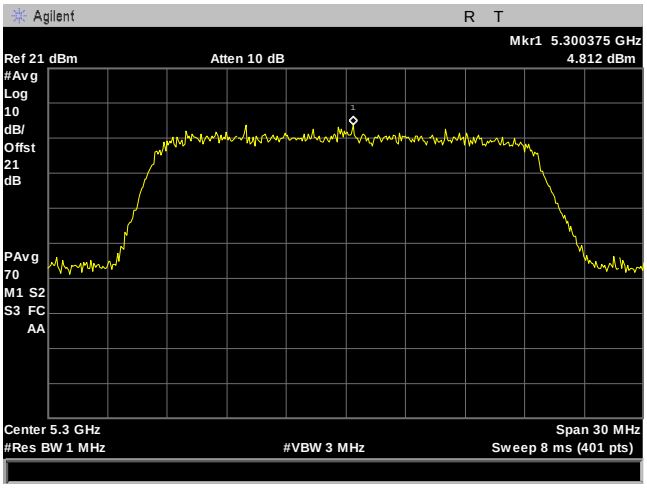
  




**Plot 228. Power Spectral Density, 8 Omni, 20M, 5265, Port 1**

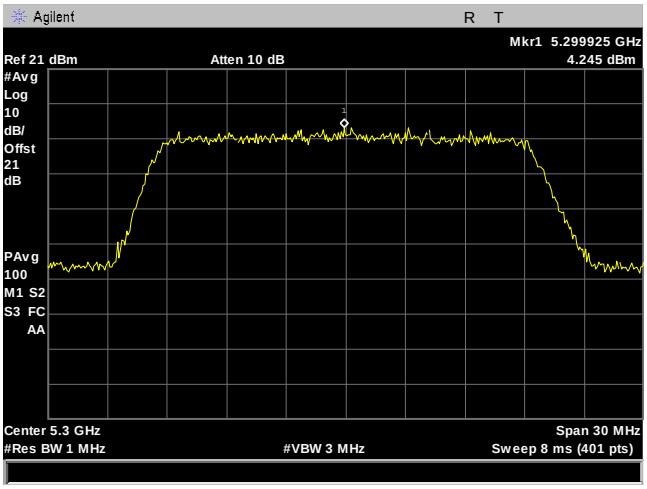



**Plot 229. Power Spectral Density, 8 Omni, 20M, 5265, Port 2**

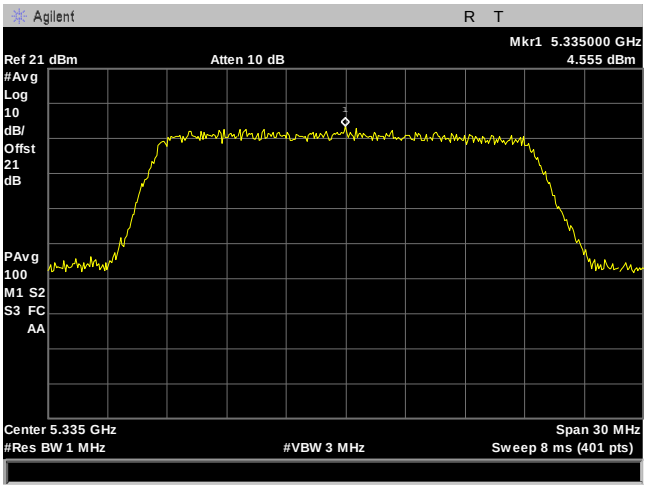



**Plot 230. Power Spectral Density, 8 Omni, 20M, 5300, Port 1**

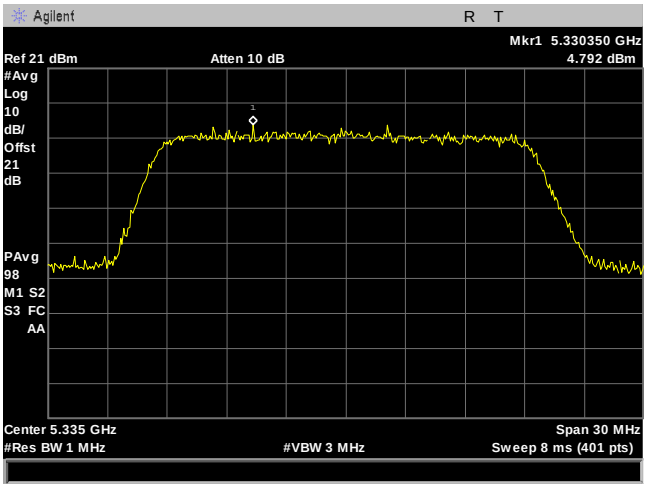
  




**Plot 231. Power Spectral Density, 8 Omni, 20M, 5300, Port 2**

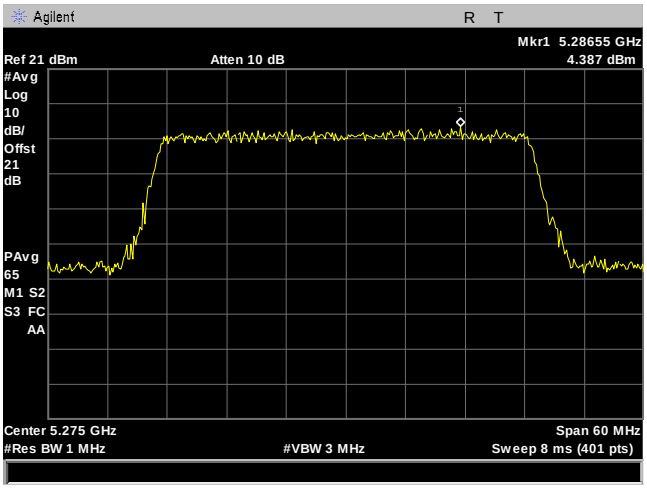



**Plot 232. Power Spectral Density, 8 Omni, 20M, 5335, Port 1**

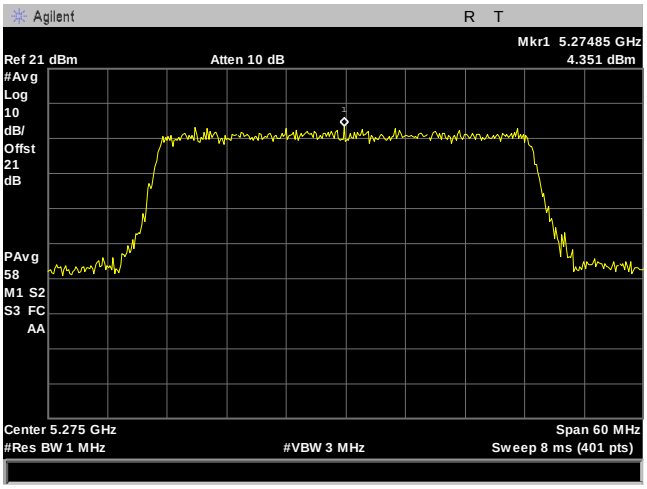



**Plot 233. Power Spectral Density, 8 Omni, 20M, 5335, Port 2**

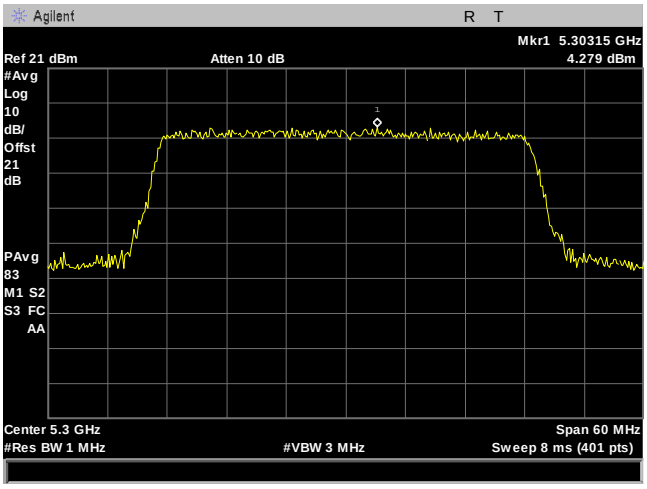
  




**Plot 234. Power Spectral Density, 8 Omni, 40M, 5275, Port 1**

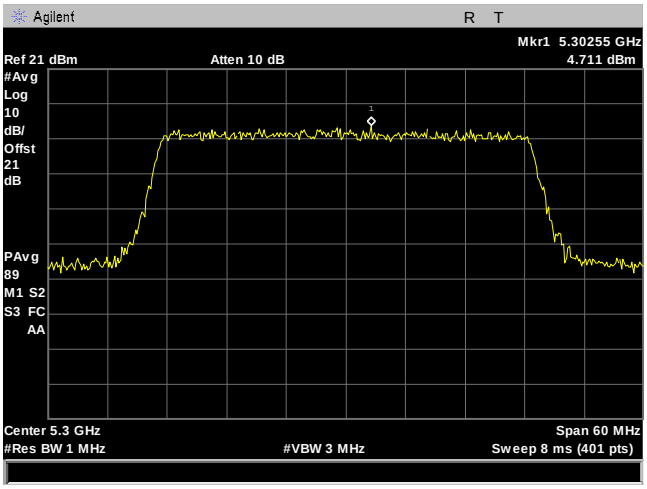



**Plot 235. Power Spectral Density, 8 Omni, 40M, 5275, Port 2**

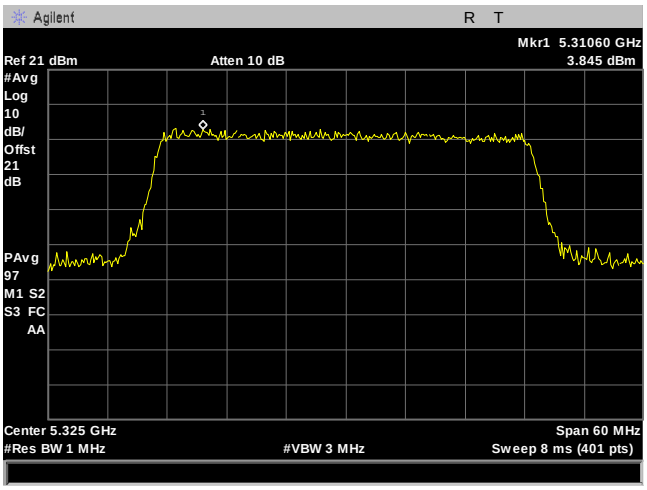



**Plot 236. Power Spectral Density, 8 Omni, 40M, 5300, Port 1**

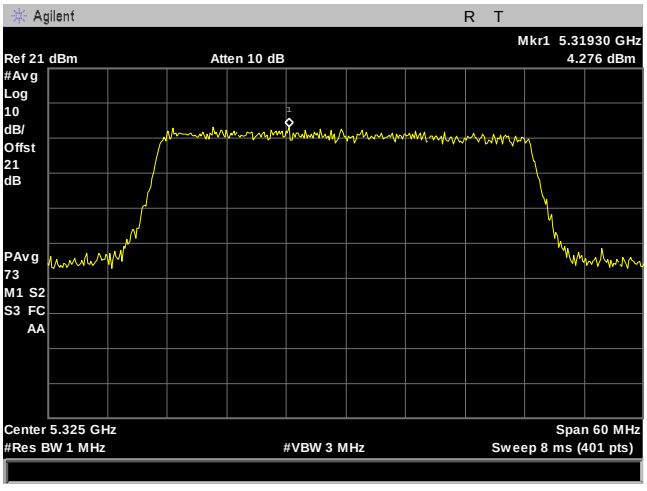
  




**Plot 237. Power Spectral Density, 8 Omni, 40M, 5300, Port 2**

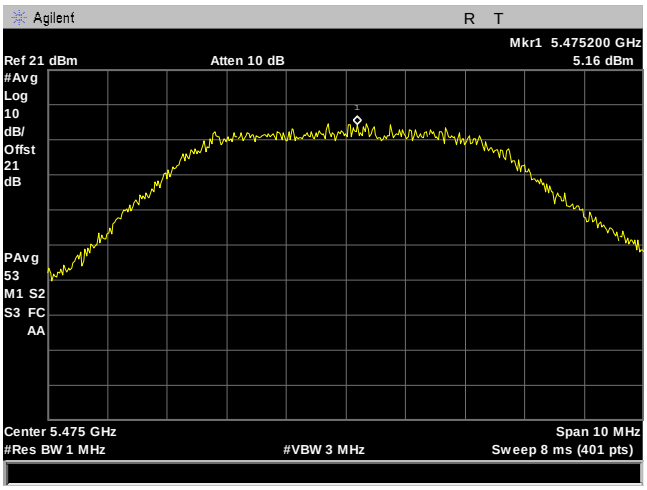



**Plot 238. Power Spectral Density, 8 Omni, 40M, 5325, Port 1**

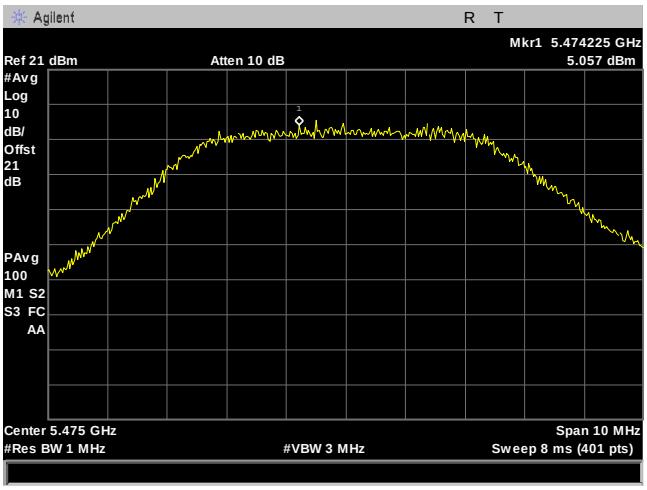



**Plot 239. Power Spectral Density, 8 Omni, 40M, 5325, Port 2**

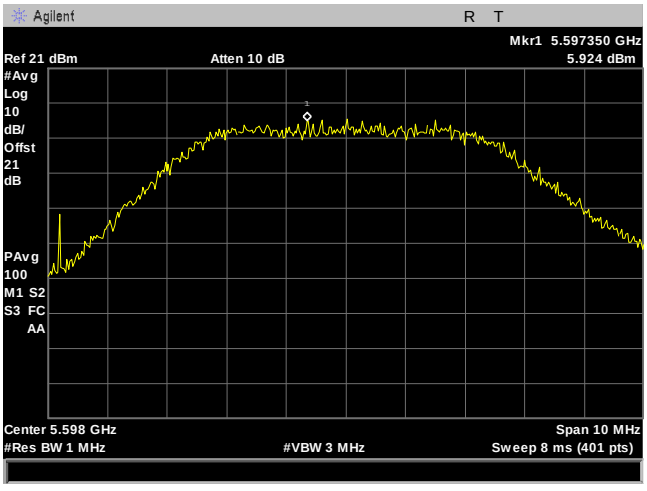
  




**Plot 240. Power Spectral Density, 8 Omni, 5M, 5475, Port 1**

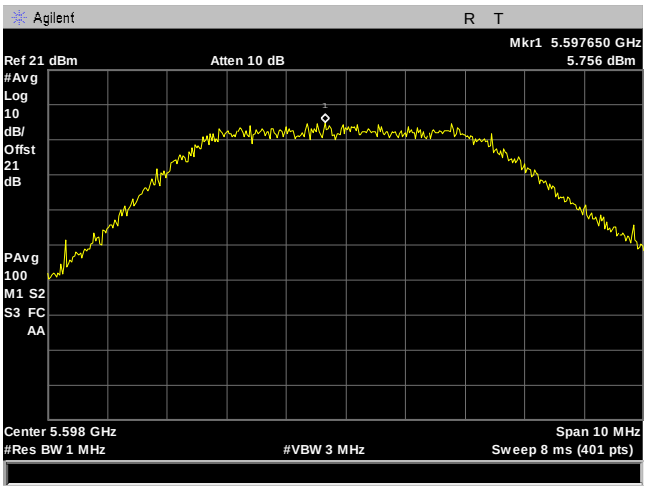



**Plot 241. Power Spectral Density, 8 Omni, 5M, 5475, Port 2**

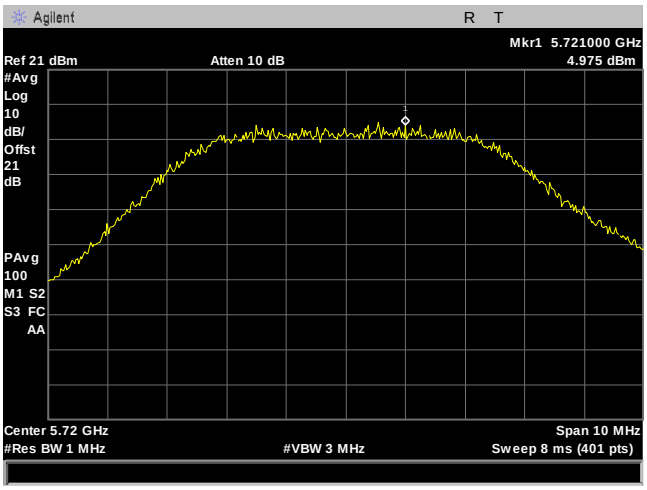



**Plot 242. Power Spectral Density, 8 Omni, 5M, 5598, Port 1**

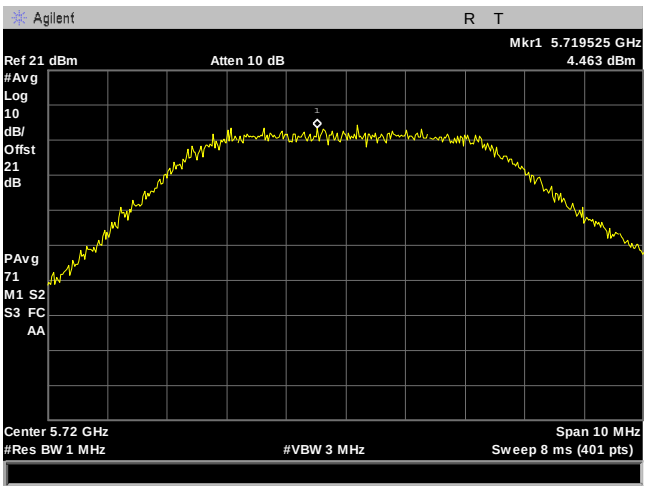
  




**Plot 243. Power Spectral Density, 8 Omni, 5M, 5598, Port 2**

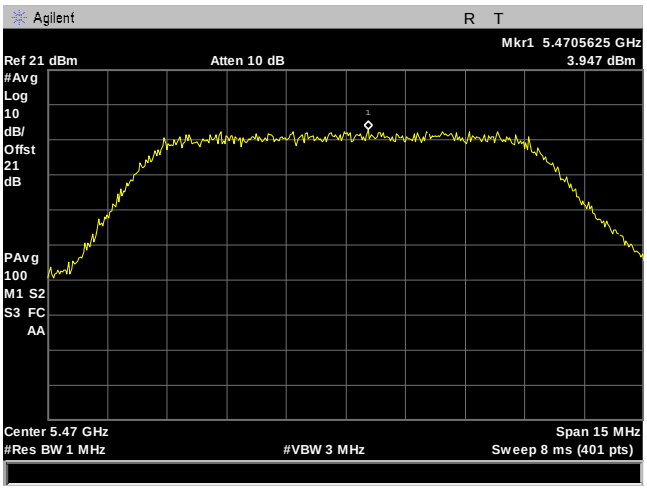



**Plot 244. Power Spectral Density, 8 Omni, 5M, 5720, Port 1**

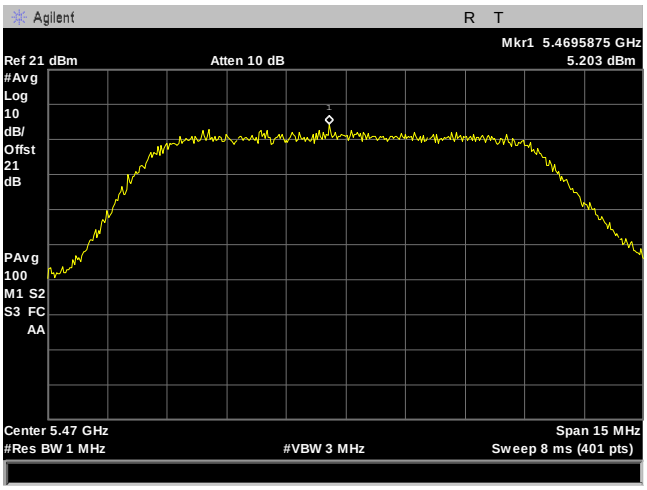



**Plot 245. Power Spectral Density, 8 Omni, 5M, 5720, Port 2**

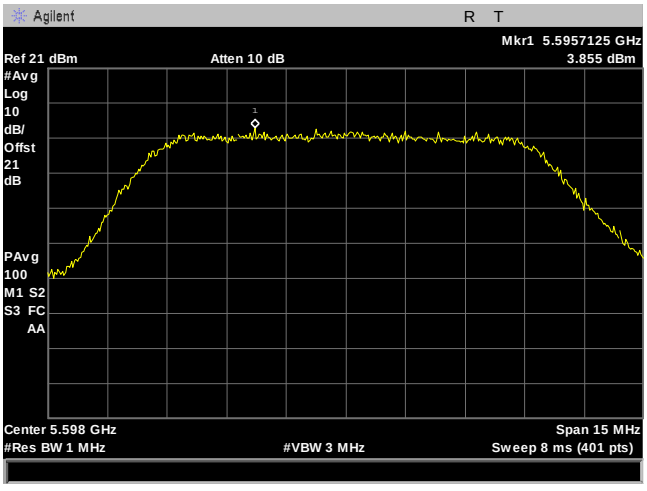
  




**Plot 246. Power Spectral Density, 8 Omni, 10M, 5480, Port 1**

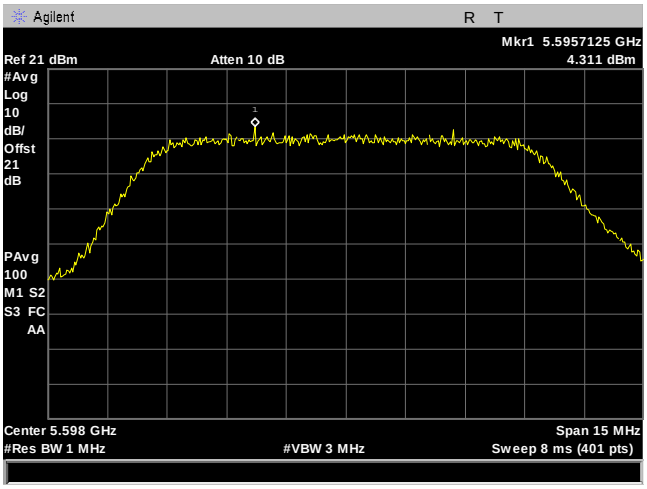



**Plot 247. Power Spectral Density, 8 Omni, 10M, 5480, Port 2**

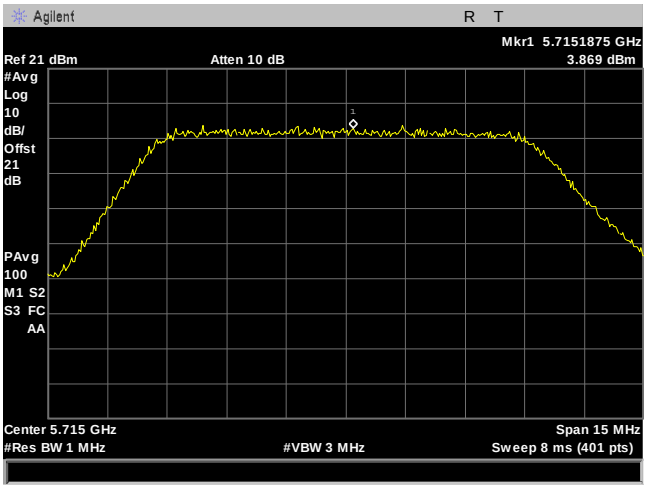



**Plot 248. Power Spectral Density, 8 Omni, 10M, 5598, Port 1**

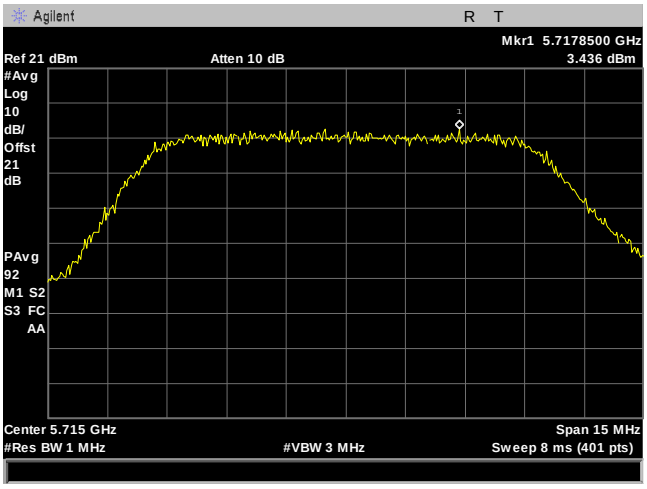
  




**Plot 249. Power Spectral Density, 8 Omni, 10M, 5598, Port 2**

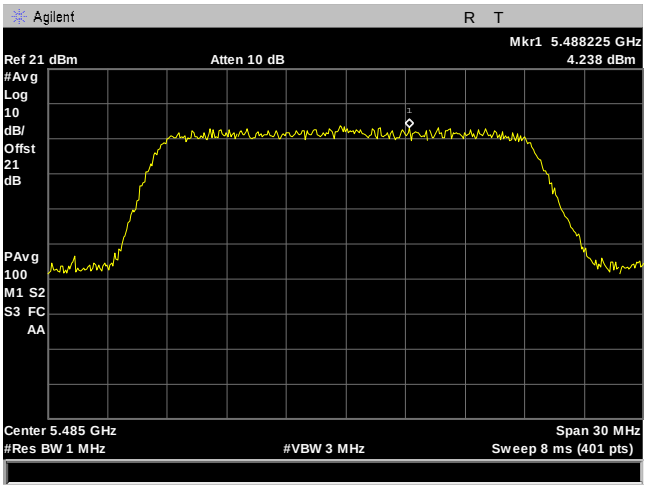



**Plot 250. Power Spectral Density, 8 Omni, 10M, 5715, Port 1**

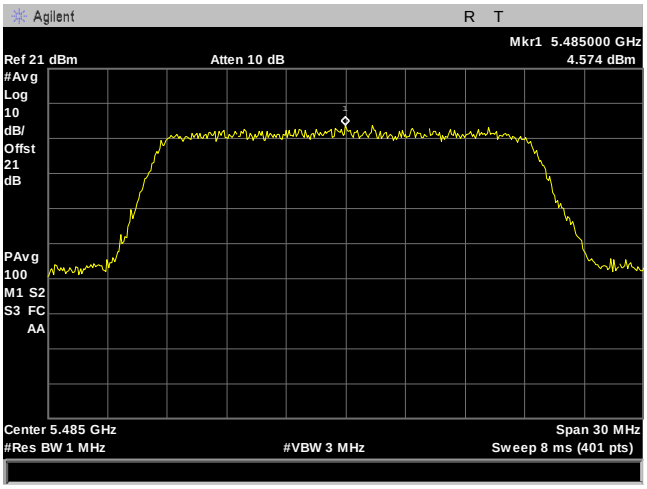



**Plot 251. Power Spectral Density, 8 Omni, 10M, 5715, Port 2**

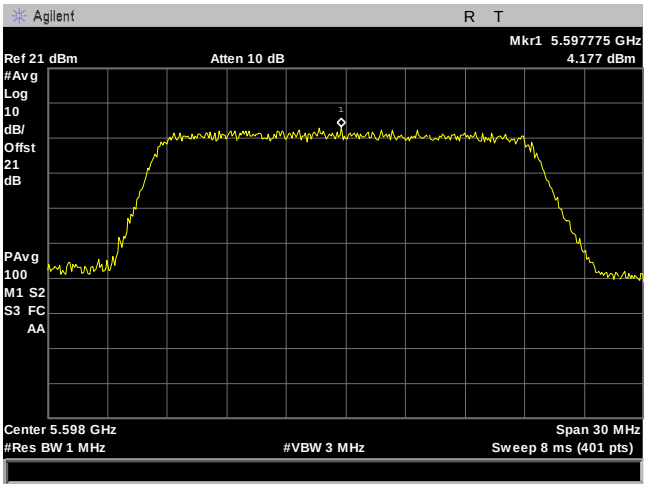
  




**Plot 252. Power Spectral Density, 8 Omni, 20M, 5485, Port 1**

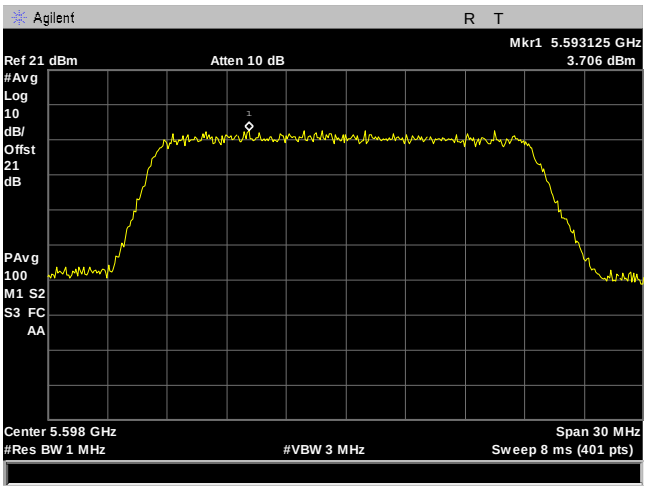



**Plot 253. Power Spectral Density, 8 Omni, 20M, 5485, Port 2**

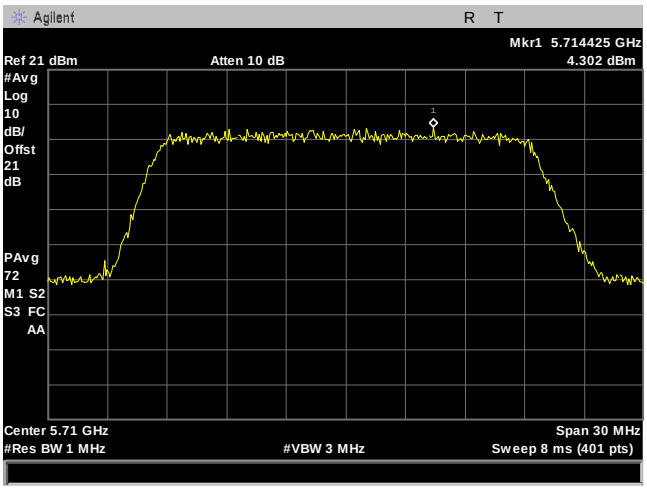



**Plot 254. Power Spectral Density, 8 Omni, 20M, 5598, Port 1**

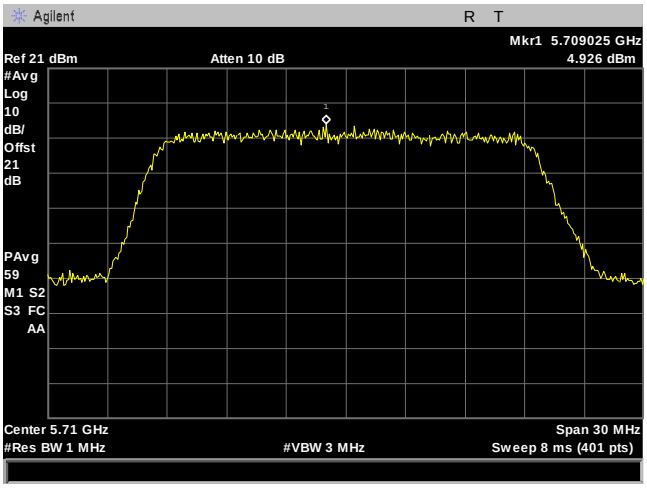
  




**Plot 255 Power Spectral Density, 8 Omni, 20M, 5598, Port 2**

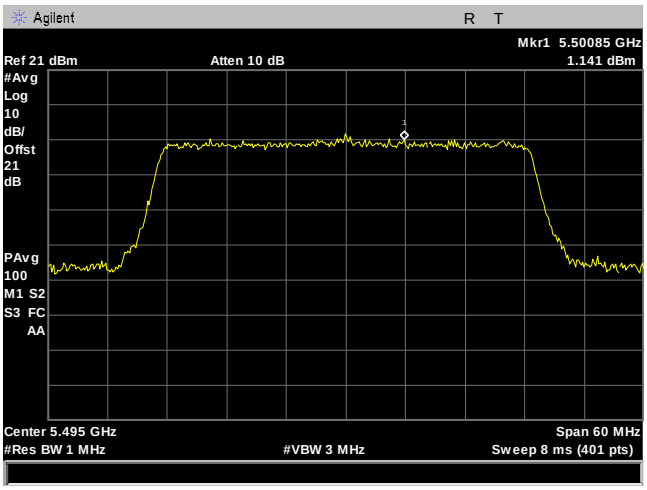



**Plot 256. Power Spectral Density, 8 Omni, 20M, 5710, Port 1**

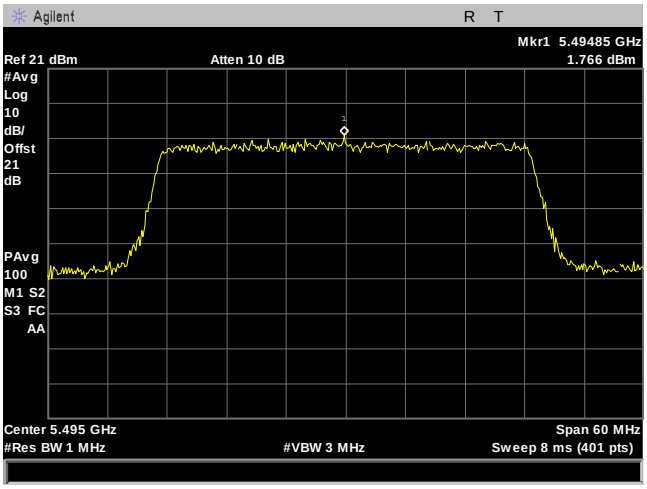



**Plot 257. Power Spectral Density, 8 Omni, 20M, 5710, Port 2**

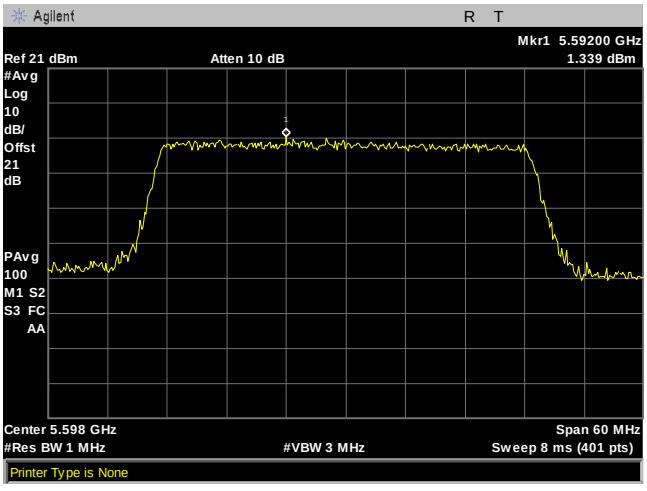
  




**Plot 258. Power Spectral Density, 8 Omni, 40M, 5495, Port 1**

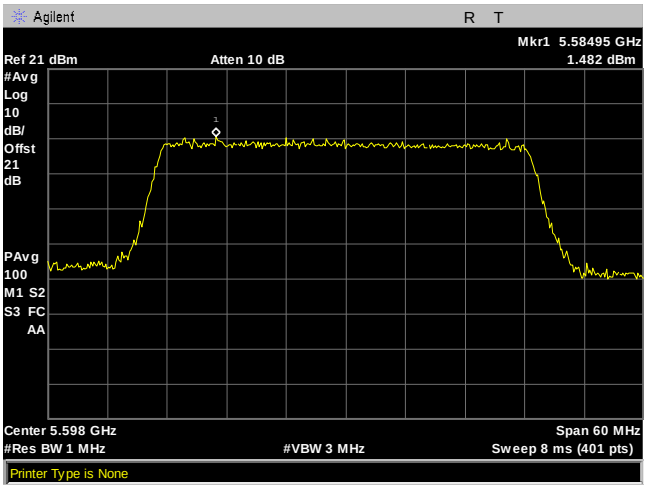



**Plot 259 Power Spectral Density, 8 Omni, 40M, 5495, Port 2**

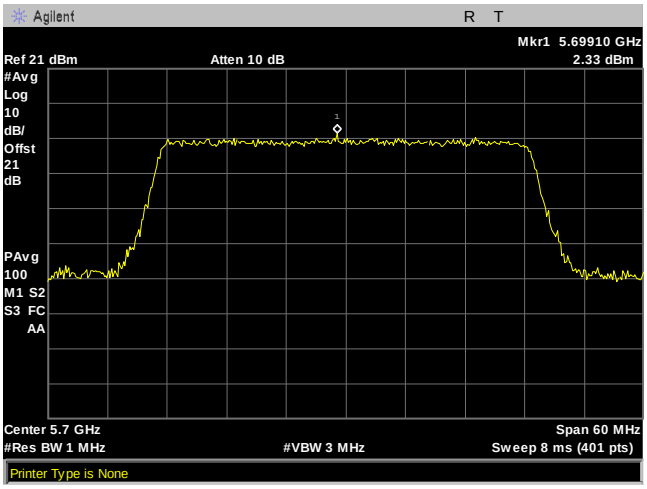



**Plot 260. Power Spectral Density, 8 Omni, 40M, 5598, Port 1**

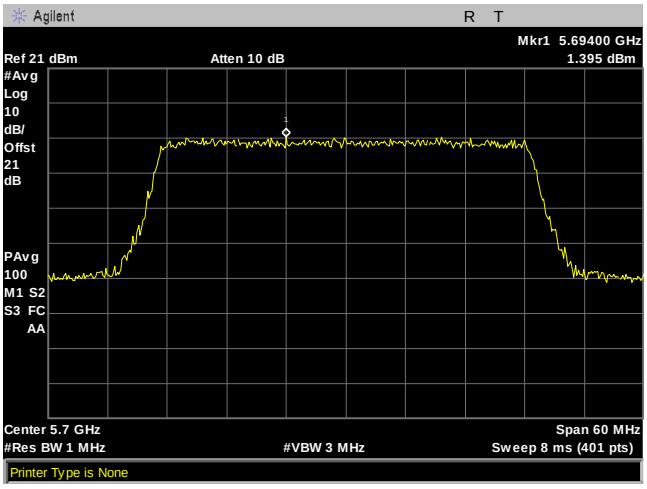
  




**Plot 261. Power Spectral Density, 8 Omni, 40M, 5598, Port 2**




**Plot 262. Power Spectral Density, 8 Omni, 40M, 5700, Port 1**




**Plot 263. Power Spectral Density, 8 Omni, 40M, 5700, Port 2**

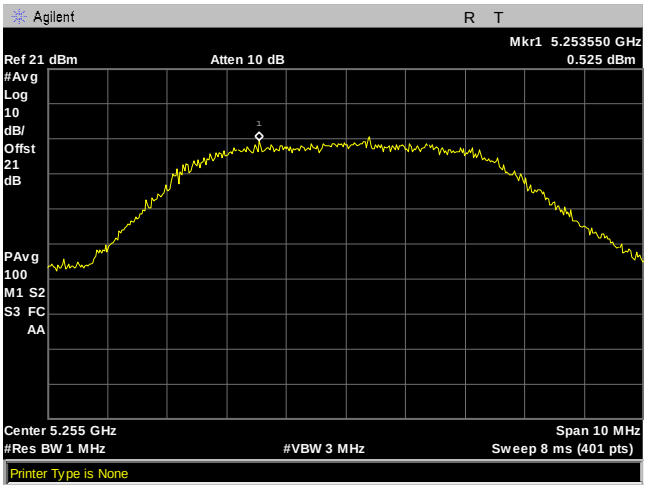
| Frequency (MHz) | PSD Chain 0 (dBm) | PSD Chain 1 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | PSD Limit (dBm) | PSD Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5255.0 | 0.52 | 0.23 | 3.38 | 11.00 | 13.50 | 3.50 | -0.12 |
| 5300.0 | -0.25 | 0.35 | 3.07 | 11.00 | 13.50 | 3.50 | -0.43 |
| 5345.0 | 0.34 | -0.13 | 3.12 | 11.00 | 13.50 | 3.50 | -0.38 |
| 10 MHz | | | | | | | |
| 5260.0 | -0.99 | -0.14 | 2.47 | 11.00 | 13.50 | 3.50 | -1.03 |
| 5300.0 | -0.69 | -0.66 | 2.34 | 11.00 | 13.50 | 3.50 | -1.16 |
| 5340.0 | -0.98 | -0.32 | 2.37 | 11.00 | 13.50 | 3.50 | -1.13 |
| 20 MHz | | | | | | | |
| 5265.0 | -1.12 | -1.16 | 1.87 | 11.00 | 13.50 | 3.50 | -1.63 |
| 5300.0 | -1.97 | -1.17 | 1.46 | 11.00 | 13.50 | 3.50 | -2.04 |
| 5335.0 | -1.65 | -1.44 | 1.47 | 11.00 | 13.50 | 3.50 | -2.03 |
| 40MHz | | | | | | | |
| 5275.0 | -2.13 | -2.39 | 0.75 | 11.00 | 13.50 | 3.50 | -2.75 |
| 5300.0 | -3.01 | -3.6 | -0.28 | 11.00 | 13.50 | 3.50 | -3.78 |
| 5325.0 | -2.82 | -2.85 | 0.18 | 11.00 | 13.50 | 3.50 | -3.32 |

**Table 21. Power Spectral Density, 90 Sector, UNII 2A Test Results**

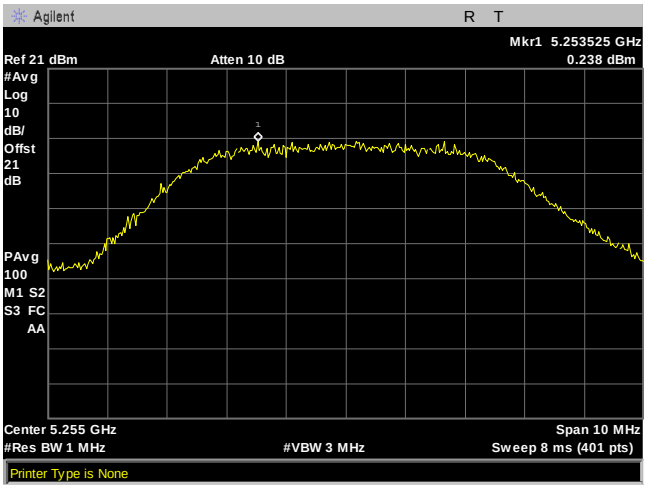
| Frequency (MHz) | PSD Chain 0 (dBm) | PSD Chain 1 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | PSD Limit (dBm) | PSD Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5475.0 | 0.5 | 0.16 | 3.34 | 11.00 | 13.50 | 3.50 | -0.16 |
| 5598.0 | -0.2 | 0.1 | 2.96 | 11.00 | 13.50 | 3.50 | -0.54 |
| 5720.0 | -0.32 | -0.16 | 2.77 | 11.00 | 13.50 | 3.50 | -0.73 |
| 10 MHz | | | | | | | |
| 5480.0 | -0.37 | -0.55 | 2.55 | 11.00 | 13.50 | 3.50 | -0.95 |
| 5598.0 | -0.1 | -0.85 | 2.55 | 11.00 | 13.50 | 3.50 | -0.95 |
| 5715.0 | -0.4 | 0.26 | 2.95 | 11.00 | 13.50 | 3.50 | -0.55 |
| 20 MHz | | | | | | | |
| 5485.0 | -1.58 | -1.67 | 1.39 | 11.00 | 13.50 | 3.50 | -2.11 |
| 5598.0 | -2 | -1.47 | 1.28 | 11.00 | 13.50 | 3.50 | -2.22 |
| 5710.0 | -1.65 | -0.74 | 1.84 | 11.00 | 13.50 | 3.50 | -1.66 |
| 40MHz | | | | | | | |
| 5495.0 | -1.95 | -1.93 | 1.07 | 11.00 | 13.50 | 3.50 | -2.43 |
| 5598.0 | -3.21 | -2.88 | -0.03 | 11.00 | 13.50 | 3.50 | -3.53 |
| 5700.0 | -1.8 | -1.75 | 1.24 | 11.00 | 13.50 | 3.50 | -2.26 |

**Table 22. Power Spectral Density, 90 Sector, UNII 2C Test Results**

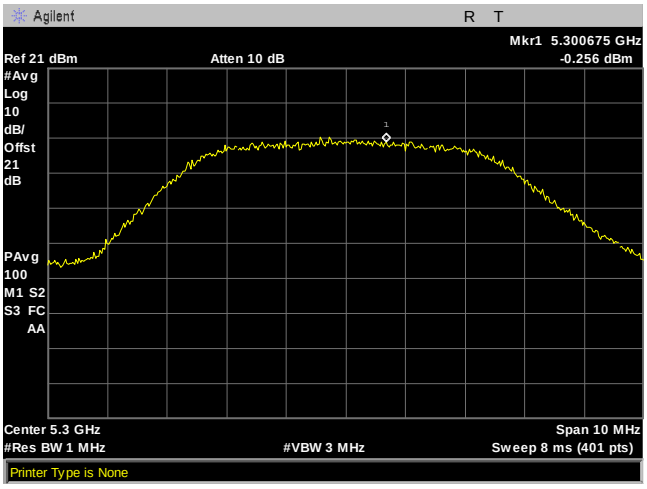
  




**Plot 264. Power Spectral Density, 90 Sector, 5M, 5255, Port 1**

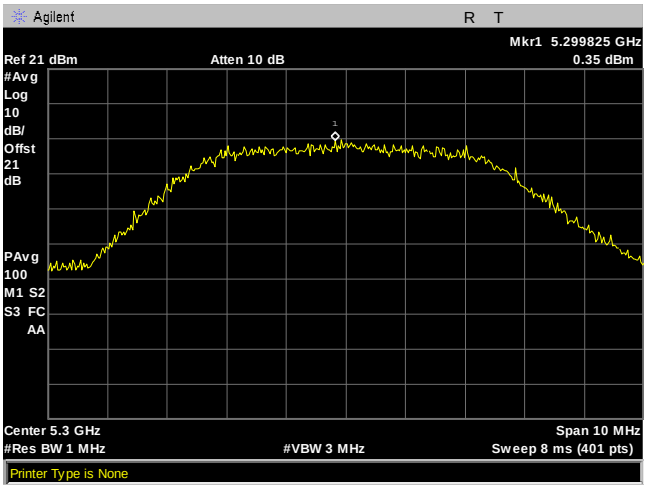



**Plot 265. Power Spectral Density, 90 Sector, 5M, 5255, Port 2**

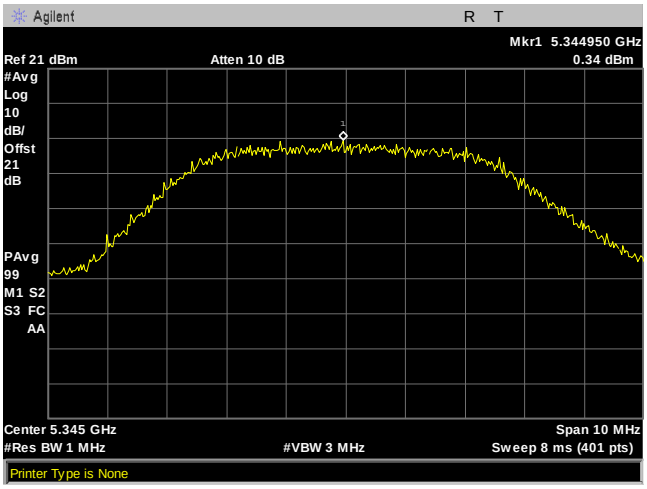



**Plot 266. Power Spectral Density, 90 Sector, 5M, 5300, Port 1**

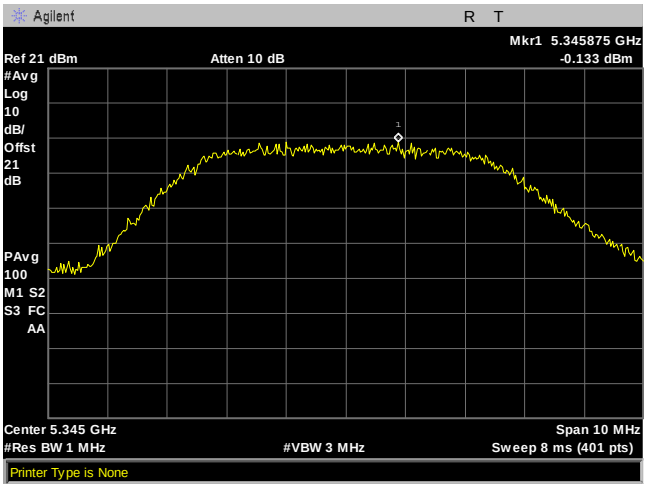
  




**Plot 267. Power Spectral Density, 90 Sector, 5M, 5300, Port 2**

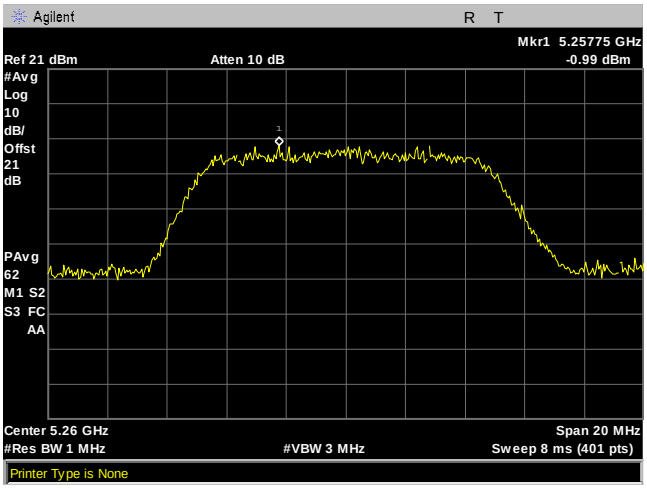



**Plot 268. Power Spectral Density, 90 Sector, 5M, 5345, Port 1**

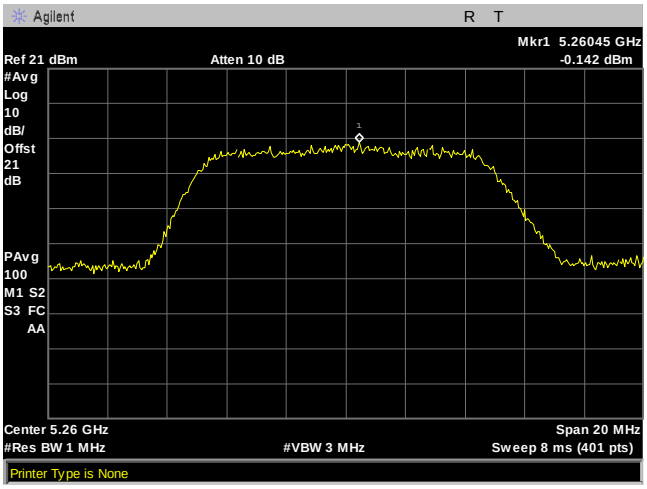



**Plot 269. Power Spectral Density, 90 Sector, 5M, 5345, Port 2**

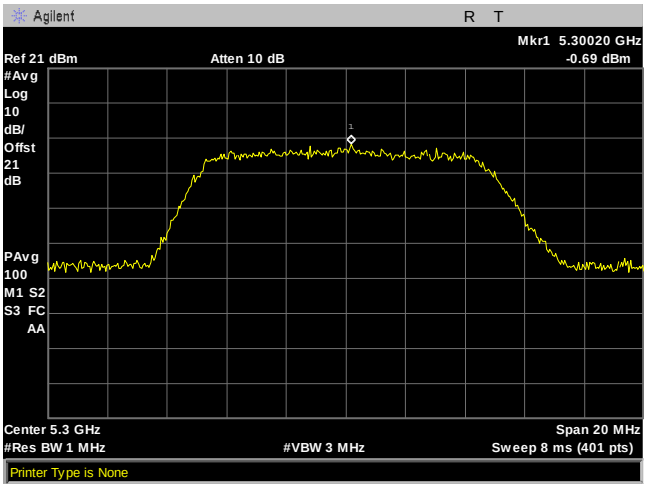
  




**Plot 270. Power Spectral Density, 90 Sector, 10M, 5260, Port 1**

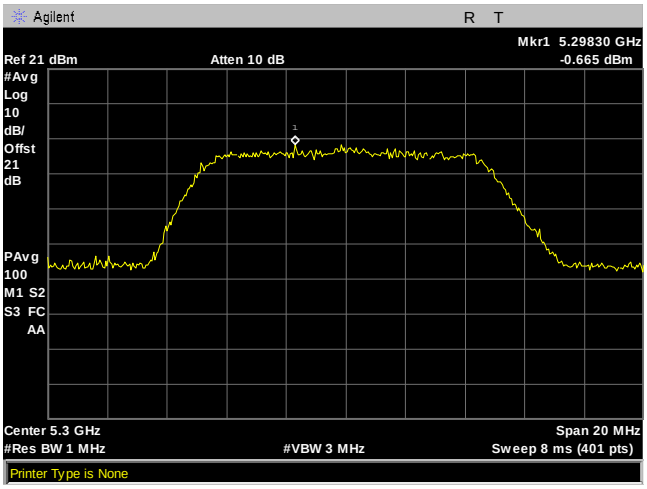



**Plot 271. Power Spectral Density, 90 Sector, 10M, 5260, Port 2**

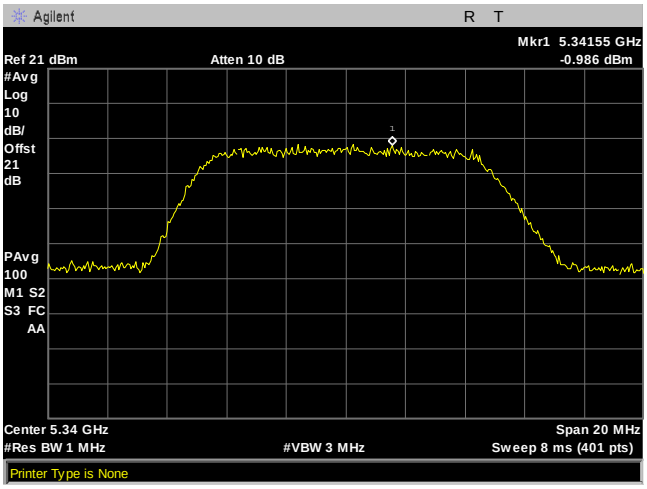



**Plot 272. Power Spectral Density, 90 Sector, 10M, 5300, Port 1**

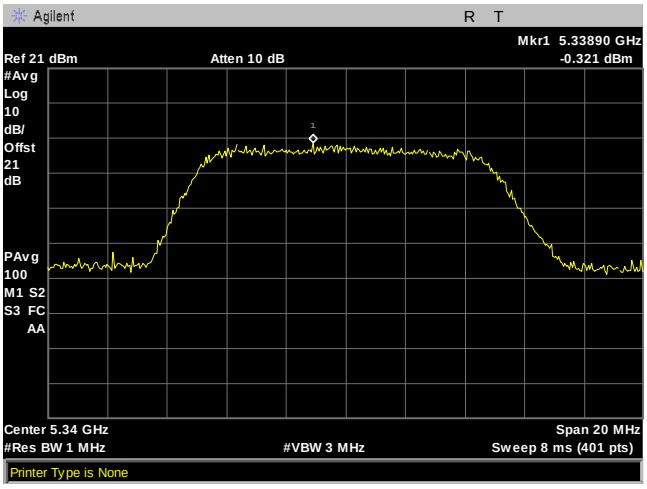
  




**Plot 273. Power Spectral Density, 90 Sector, 10M, 5300, Port 2**

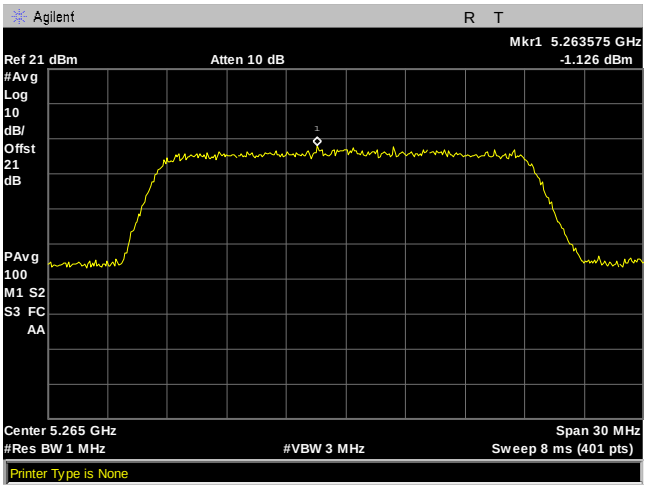



**Plot 274. Power Spectral Density, 90 Sector, 10M, 5340, Port 1**

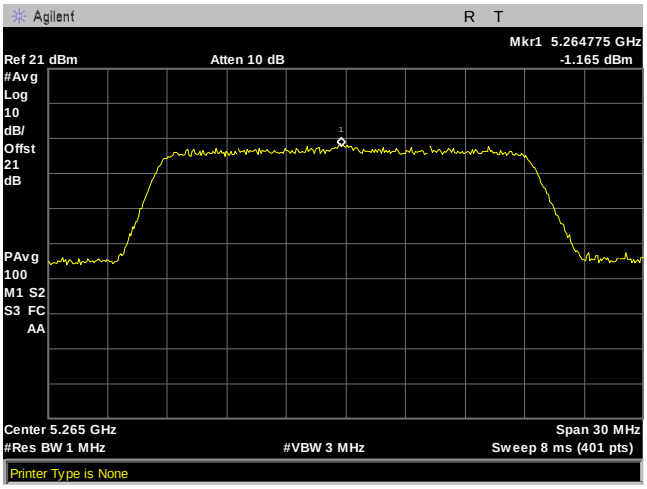



**Plot 275. Power Spectral Density, 90 Sector, 10M, 5340, Port 2**

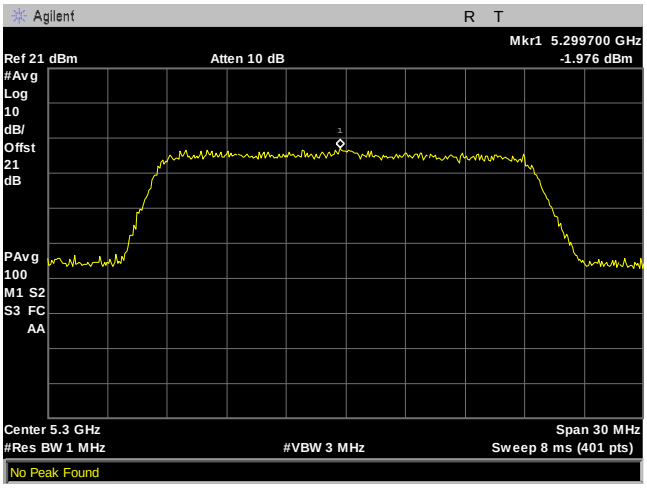
  




**Plot 276. Power Spectral Density, 90 Sector, 20M, 5265, Port 1**

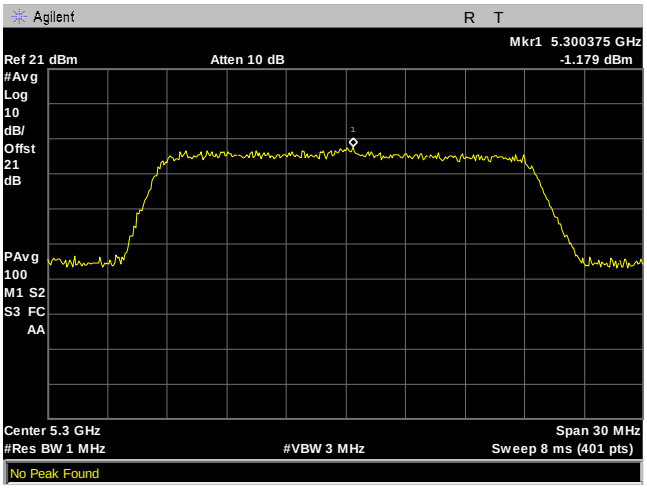



**Plot 277. Power Spectral Density, 90 Sector, 20M, 5265, Port 2**

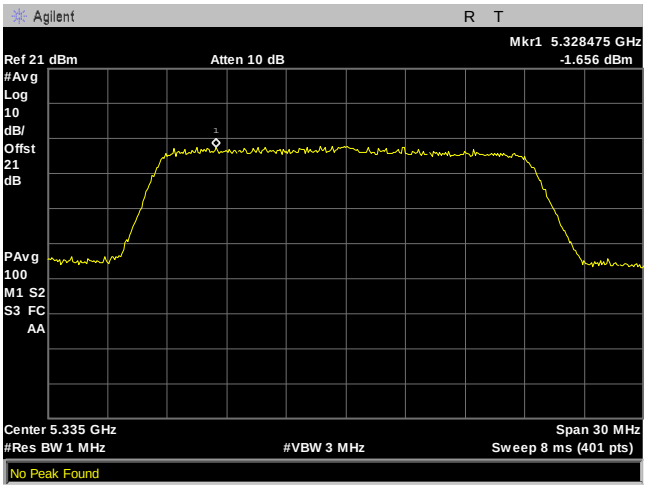



**Plot 278. Power Spectral Density, 90 Sector, 20M, 5300, Port 1**

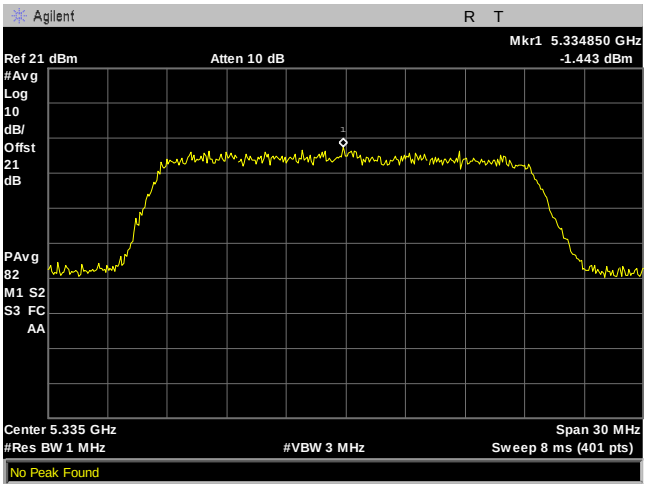
  




**Plot 279. Power Spectral Density, 90 Sector, 20M, 5300, Port 2**

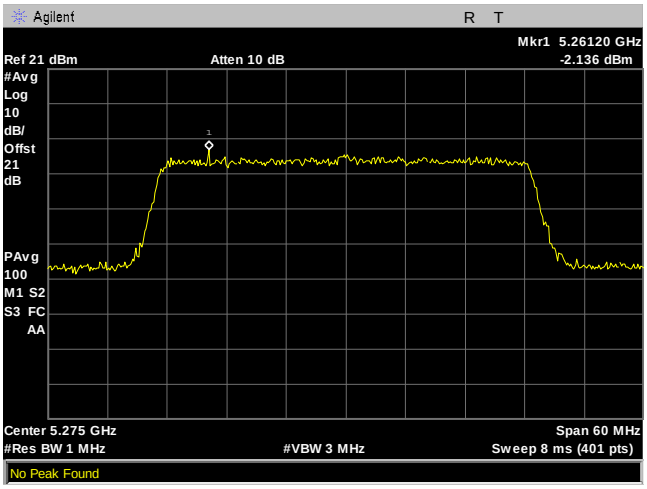



**Plot 280. Power Spectral Density, 90 Sector, 20M, 5335, Port 1**

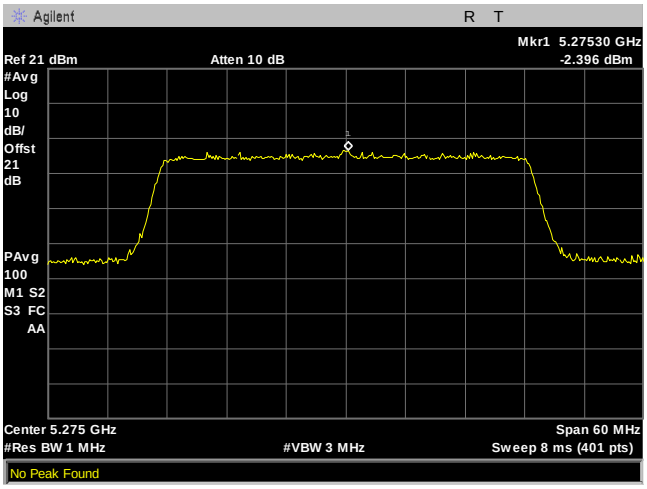



**Plot 281. Power Spectral Density, 90 Sector, 20M, 5335, Port 2**

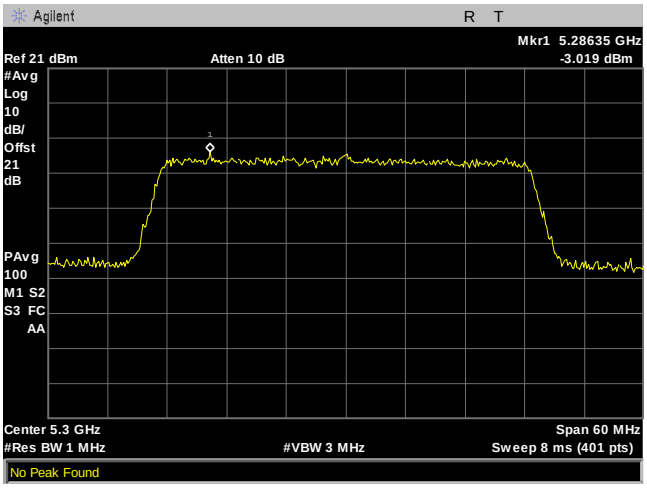
  




**Plot 282. Power Spectral Density, 90 Sector, 40M, 5275, Port 1**

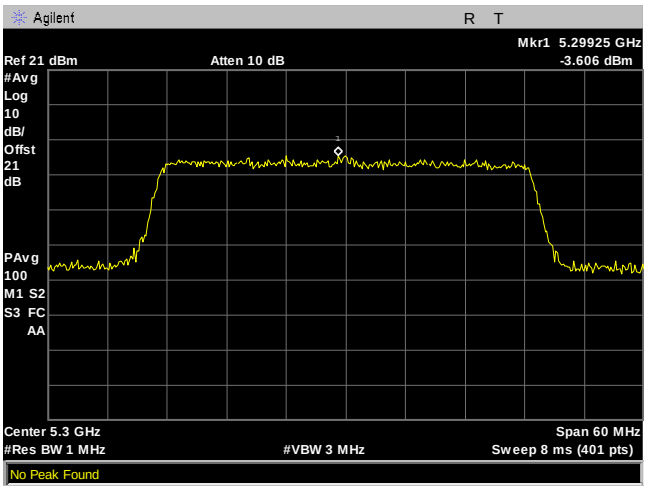



**Plot 283. Power Spectral Density, 90 Sector, 40M, 5275, Port 2**

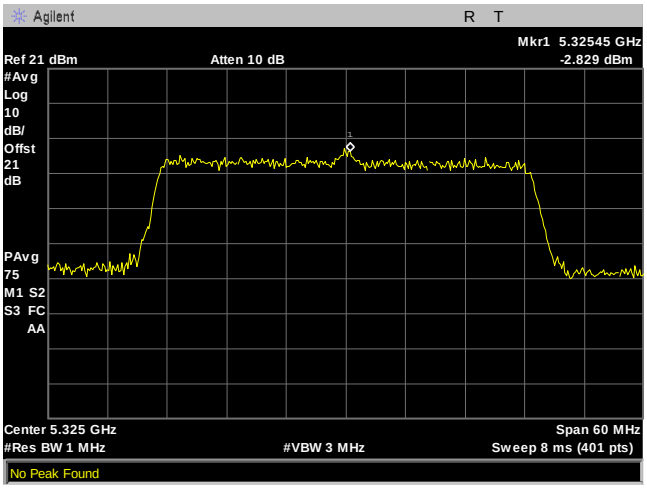



**Plot 284 Power Spectral Density, 90 Sector, 40M, 5300, Port 1**

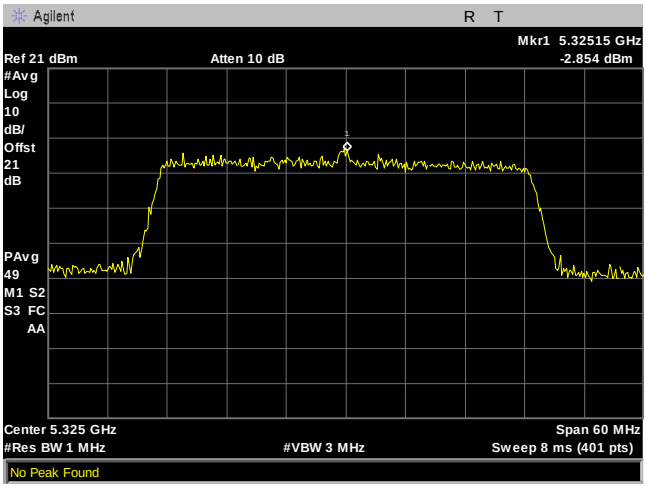
  




**Plot 285 Power Spectral Density, 90 Sector, 40M, 5300, Port 2**

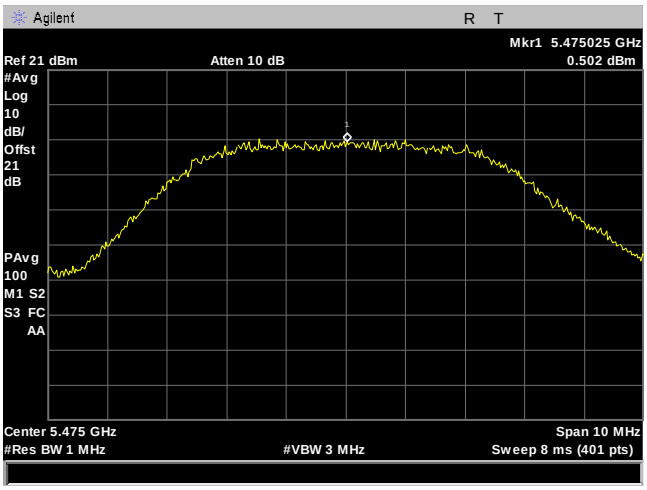



**Plot 286. Power Spectral Density, 90 Sector, 40M, 5325, Port 1**

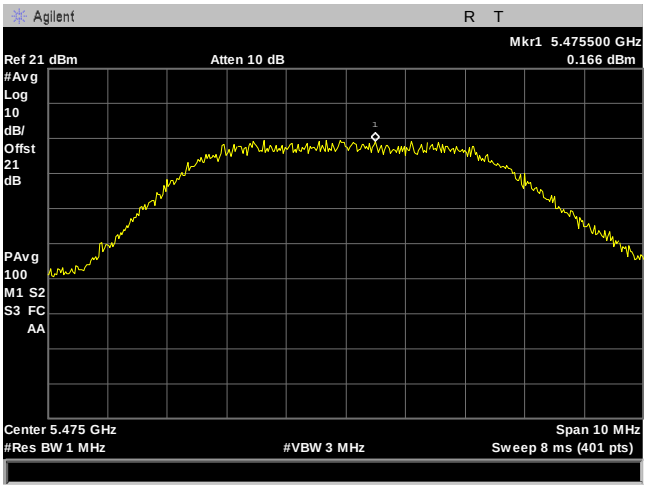



**Plot 287. Power Spectral Density, 90 Sector, 40M, 5325, Port 2**

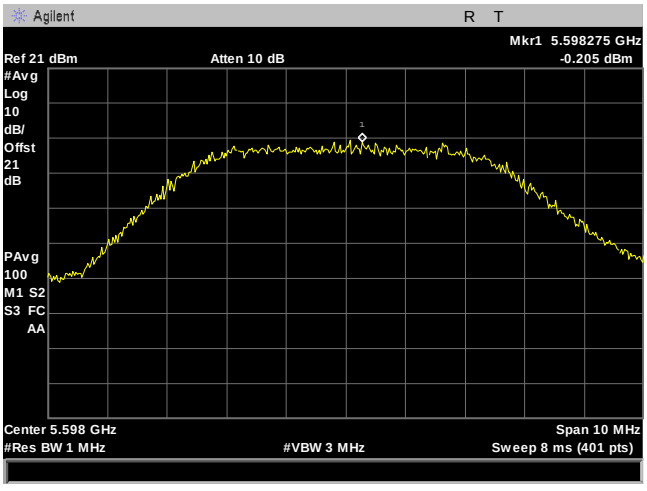
  




**Plot 288. Power Spectral Density, 90 Sector, 5M, 5475, Port 1**

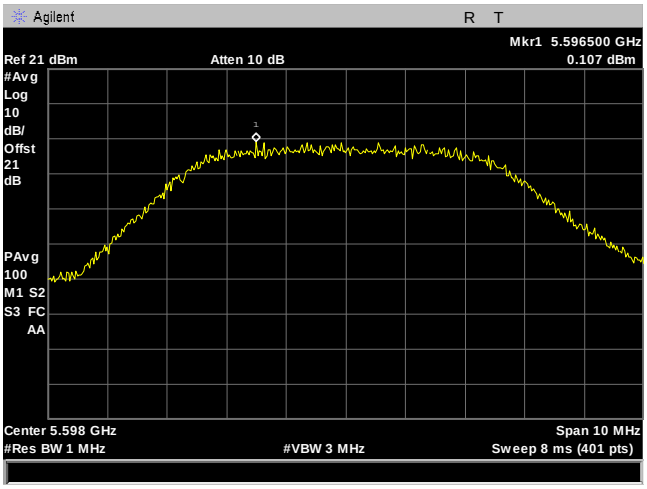



**Plot 289 Power Spectral Density, 90 Sector, 5M, 5475, Port 2**

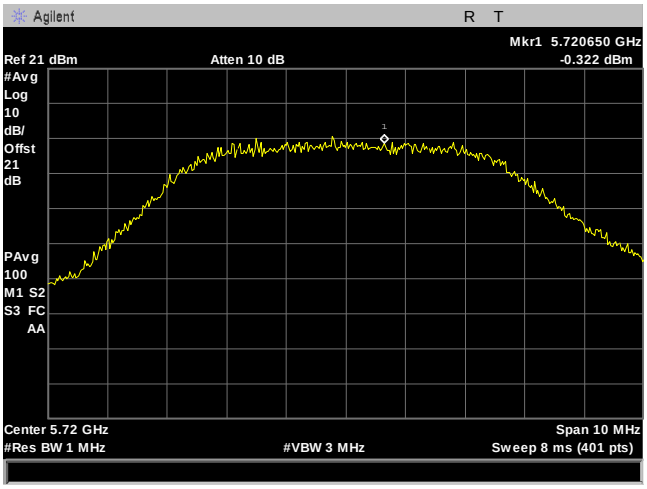



**Plot 290. Power Spectral Density, 90 Sector, 5M, 5598, Port 1**

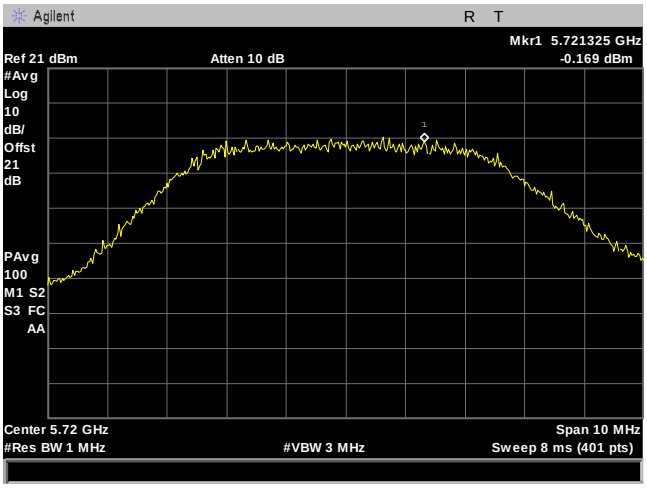
  




**Plot 291. Power Spectral Density, 90 Sector, 5M, 5598, Port 2**

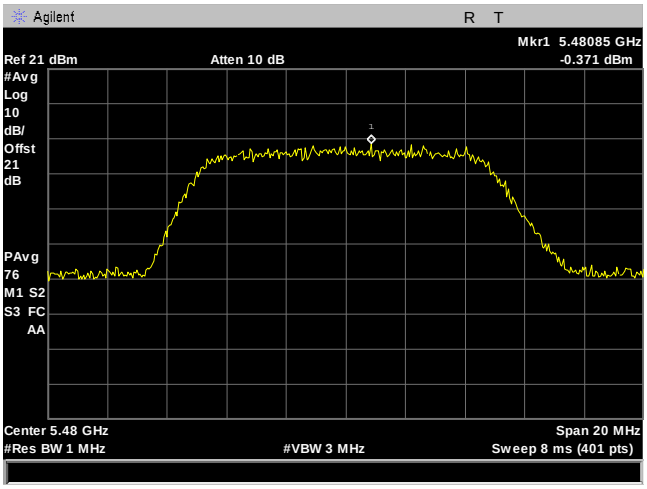



**Plot 292. Power Spectral Density, 90 Sector, 5M, 5720, Port 1**

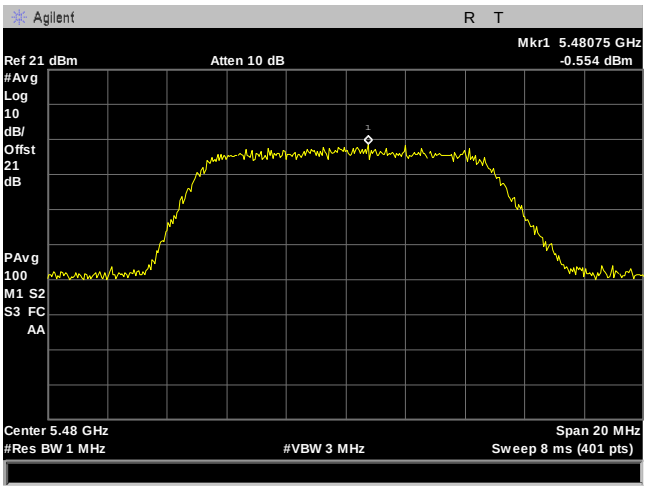



**Plot 293. Power Spectral Density, 90 Sector, 5M, 5720, Port 2**

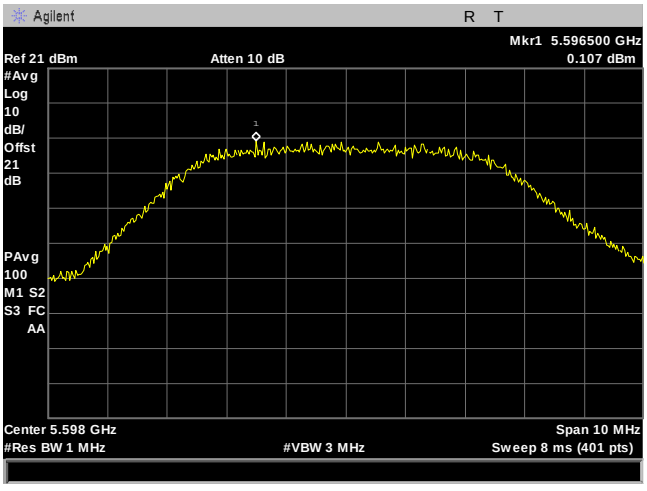
  




**Plot 294. Power Spectral Density, 90 Sector, 10M, 5480, Port 1**

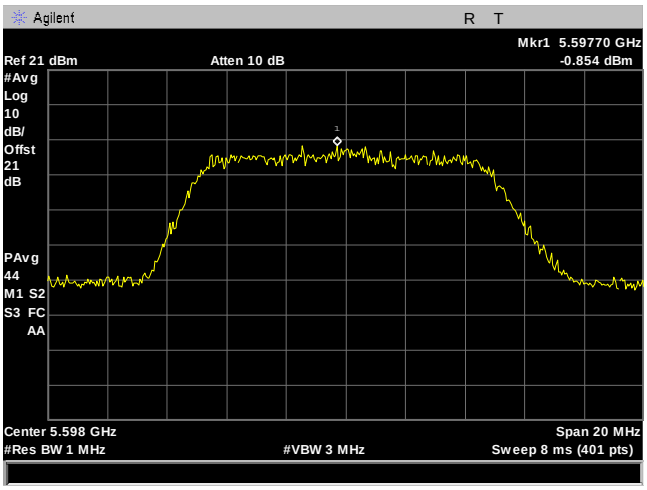



**Plot 295. Power Spectral Density, 90 Sector, 10M, 5480, Port 2**

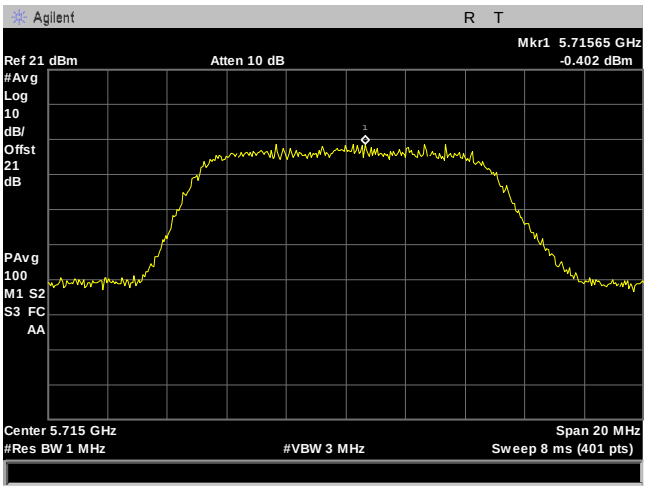



**Plot 296. Power Spectral Density, 90 Sector, 10M, 5598, Port 1**

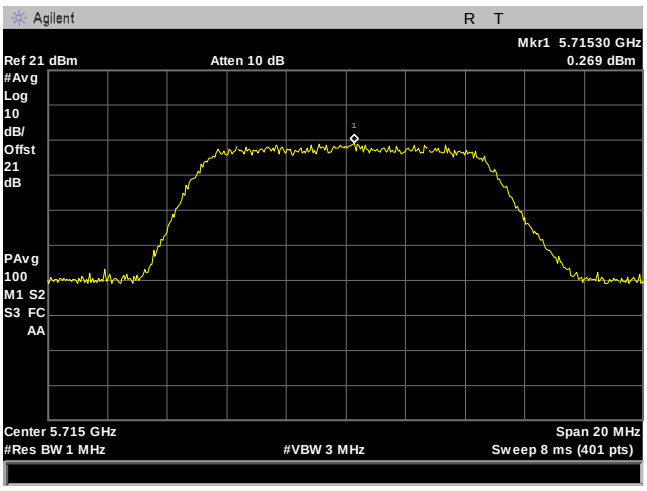
  




**Plot 297. Power Spectral Density, 90 Sector, 10M, 5598, Port 2**

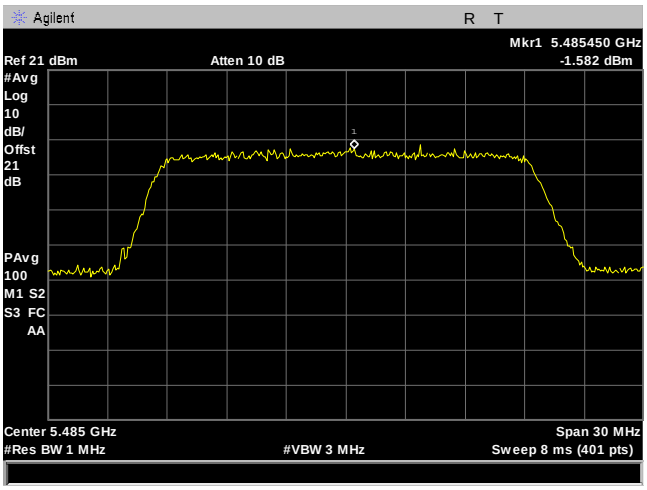



**Plot 298. Power Spectral Density, 90 Sector, 10M, 5715, Port 1**

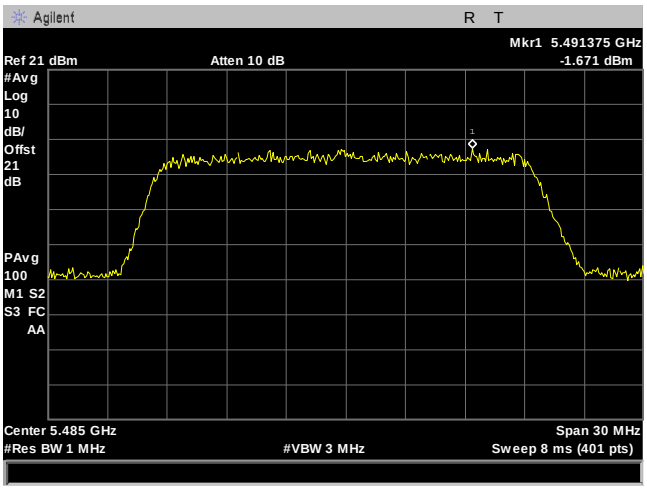



**Plot 299. Power Spectral Density, 90 Sector, 10M, 5715, Port 2**

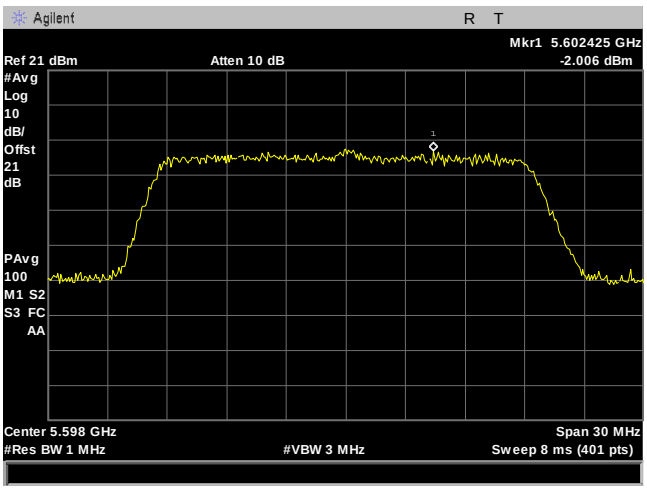
  




**Plot 300. Power Spectral Density, 90 Sector, 20M, 5485, Port 1**

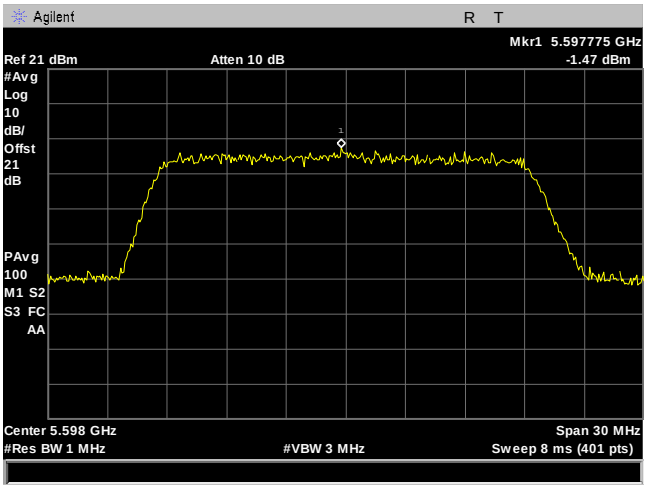



**Plot 301. Power Spectral Density, 90 Sector, 20M, 5485, Port 2**

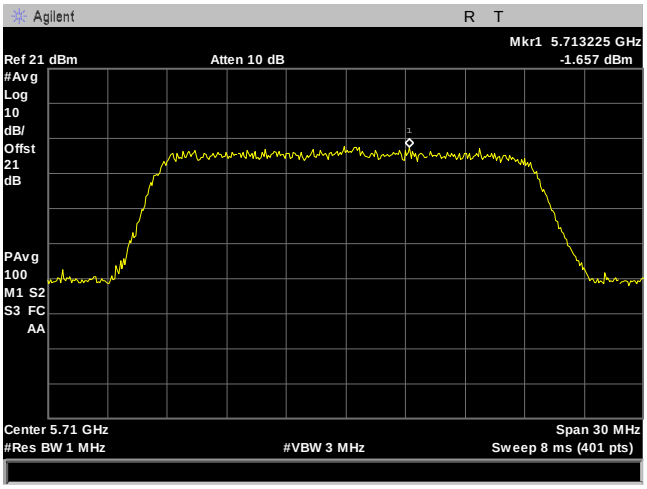



**Plot 302. Power Spectral Density, 90 Sector, 20M, 5598, Port 1**

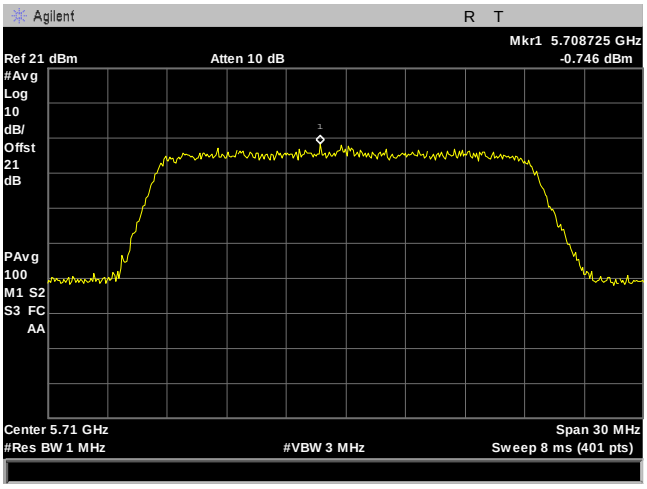
  




**Plot 303. Power Spectral Density, 90 Sector, 20M, 5598, Port 2**

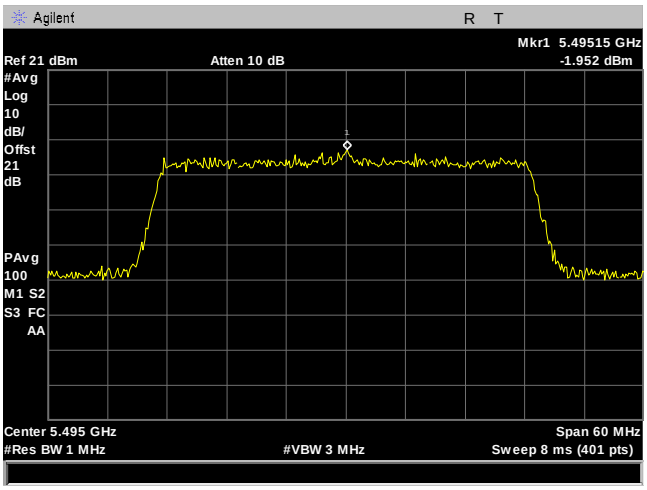



**Plot 304. Power Spectral Density, 90 Sector, 20M, 5710, Port 1**

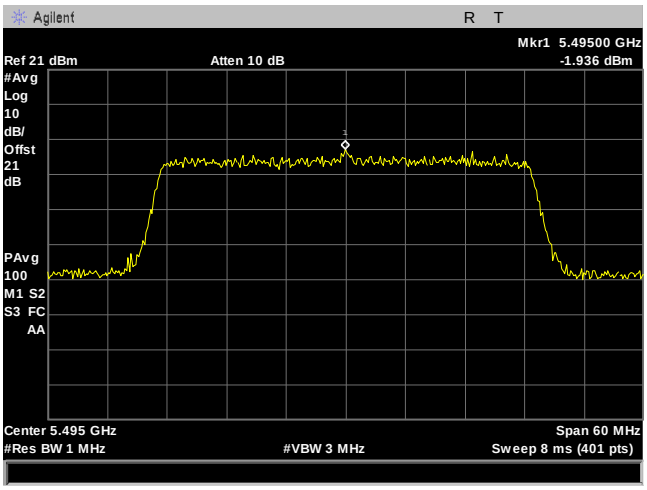



**Plot 305. Power Spectral Density, 90 Sector, 20M, 5710, Port 2**

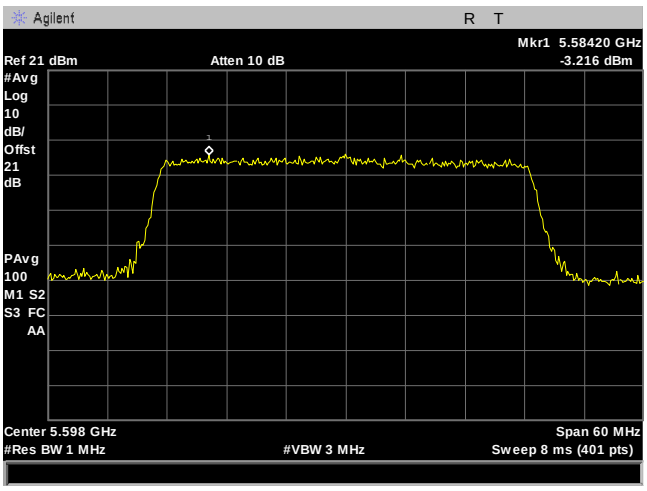
  




**Plot 306. Power Spectral Density, 90 Sector, 40M, 5495, Port 1**

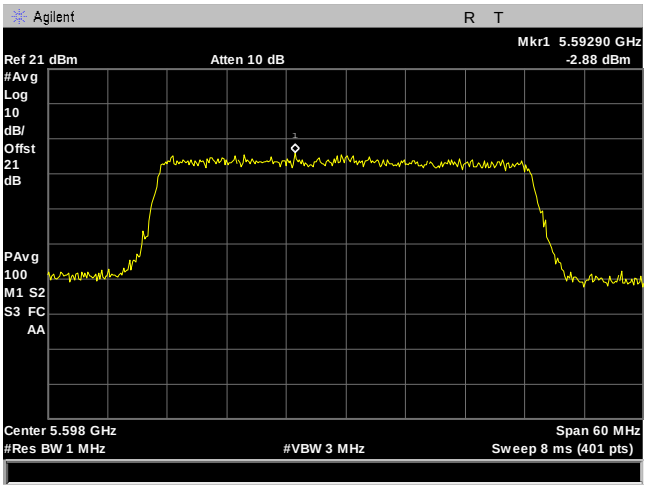



**Plot 307. Power Spectral Density, 90 Sector, 40M, 5495, Port 2**

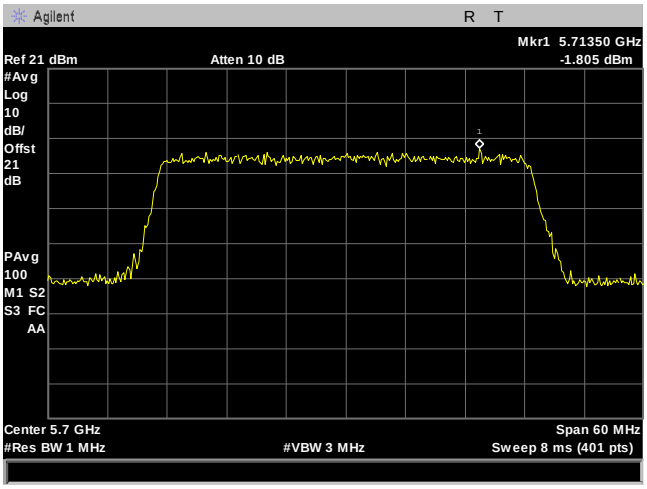



**Plot 308. Power Spectral Density, 90 Sector, 40M, 5598, Port 1**

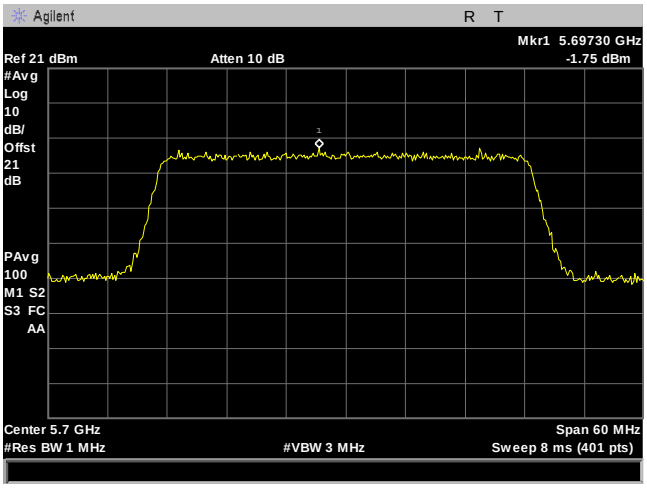
  




**Plot 309. Power Spectral Density, 90 Sector, 40M, 5598, Port 2**




**Plot 310. Power Spectral Density, 90 Sector, 40M, 5700, Port 1**




**Plot 311. Power Spectral Density, 90 Sector, 40M, 5700, Port 2**

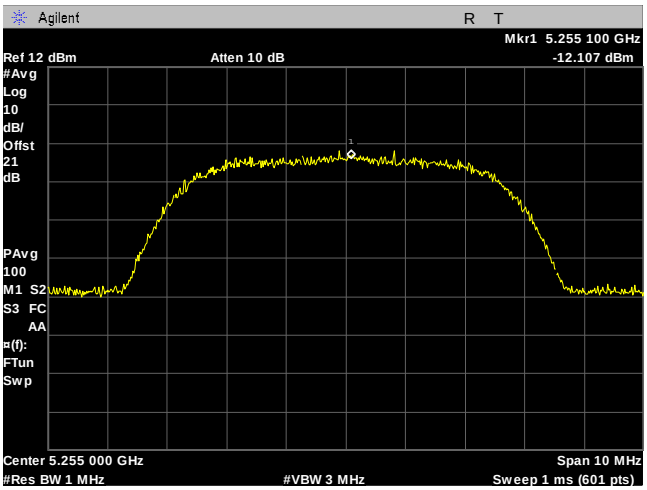
| Frequency (MHz) | PSD Chain 0 (dBm) | PSD Chain 1 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | PSD Limit (dBm) | PSD Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5255.0 | -12.1 | -12.19 | -9.13 | 11.00 | 26.00 | -9.00 | -0.13 |
| 5300.0 | -12.46 | -12.31 | -9.37 | 11.00 | 26.00 | -9.00 | -0.37 |
| 5345.0 | -12.77 | -13.09 | -9.92 | 11.00 | 26.00 | -9.00 | -0.92 |
| 10 MHz | | | | | | | |
| 5260.0 | -13.52 | -14.16 | -10.82 | 11.00 | 26.00 | -9.00 | -1.82 |
| 5300.0 | -14.19 | -14.54 | -11.35 | 11.00 | 26.00 | -9.00 | -2.35 |
| 5340.0 | -14.45 | -14.18 | -11.30 | 11.00 | 26.00 | -9.00 | -2.30 |
| 20 MHz | | | | | | | |
| 5265.0 | -14.48 | -14.25 | -11.35 | 11.00 | 26.00 | -9.00 | -2.35 |
| 5300.0 | -14.22 | -13.83 | -11.01 | 11.00 | 26.00 | -9.00 | -2.01 |
| 5335.0 | -14.13 | -14.93 | -11.50 | 11.00 | 26.00 | -9.00 | -2.50 |
| 40MHz | | | | | | | |
| 5275.0 | -15.94 | -14.38 | -12.08 | 11.00 | 26.00 | -9.00 | -3.08 |
| 5300.0 | -15.21 | -15.84 | -12.50 | 11.00 | 26.00 | -9.00 | -3.50 |
| 5325.0 | -15.83 | -15.49 | -12.65 | 11.00 | 26.00 | -9.00 | -3.65 |

**Table 22. Power Spectral Density, 2 Panel, UNII 2A Test Results**

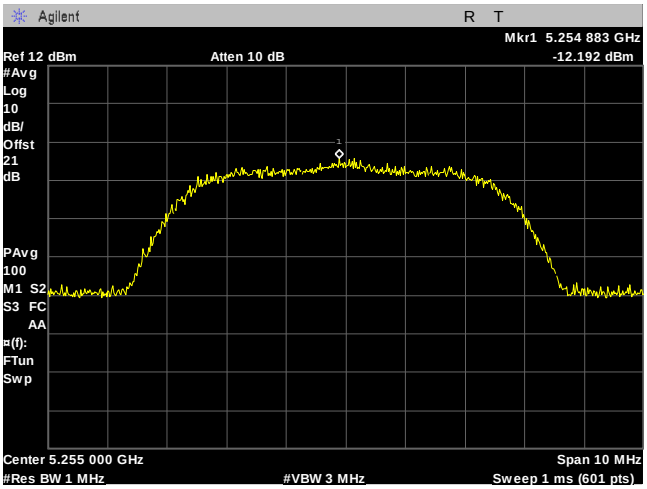
| Frequency (MHz) | PSD Chain 0 (dBm) | PSD Chain 1 (dBm) | Sum (dBm) | Limit (dBm) | Antenna Gain (dBi) | PSD Limit (dBm) | PSD Margin (dB) |
|---|---|---|---|---|---|---|---|
| 5 MHz | | | | | | | |
| 5475.0 | -12.33 | -12.89 | -9.59 | 11.00 | 26.00 | -9.00 | -0.59 |
| 5598.0 | -12.91 | -12.73 | -9.81 | 11.00 | 26.00 | -9.00 | -0.81 |
| 5720.0 | -13.4 | -13.8 | -10.59 | 11.00 | 26.00 | -9.00 | -1.59 |
| 10 MHz | | | | | | | |
| 5480.0 | -13.52 | -13.74 | -10.62 | 11.00 | 26.00 | -9.00 | -1.62 |
| 5598.0 | -13.92 | -13.61 | -10.75 | 11.00 | 26.00 | -9.00 | -1.75 |
| 5715.0 | -13.14 | -14.12 | -10.59 | 11.00 | 26.00 | -9.00 | -1.59 |
| 20 MHz | | | | | | | |
| 5485.0 | -14.67 | -14.99 | -11.82 | 11.00 | 26.00 | -9.00 | -2.82 |
| 5598.0 | -13.85 | -14.14 | -10.98 | 11.00 | 26.00 | -9.00 | -1.98 |
| 5710.0 | -14.39 | -13.88 | -11.12 | 11.00 | 26.00 | -9.00 | -2.12 |
| 40MHz | | | | | | | |
| 5495.0 | -15.28 | -15.61 | -12.43 | 11.00 | 26.00 | -9.00 | 5495.0 |
| 5598.0 | -15.54 | -15.98 | -12.74 | 11.00 | 26.00 | -9.00 | 5598.0 |
| 5700.0 | -15.42 | -15.59 | -12.49 | 11.00 | 26.00 | -9.00 | 5700.0 |

**Table 23. Power Spectral Density, 2 Panel, UNII 2C Test Results**

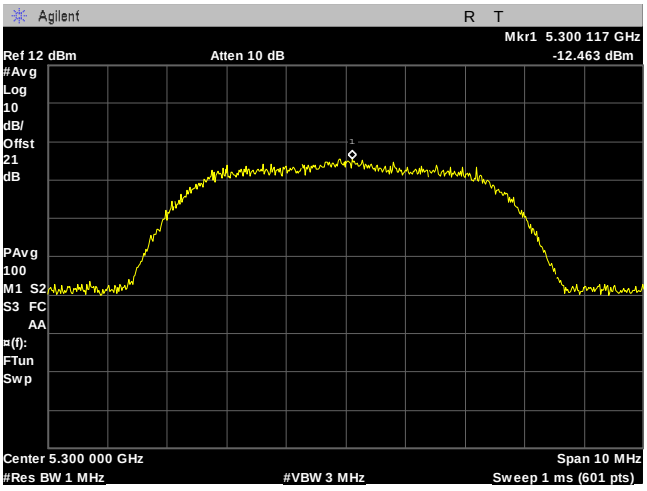
  




**Plot 312. Power Spectral Density, 2 Panel, 5M, 5255, Port 1**

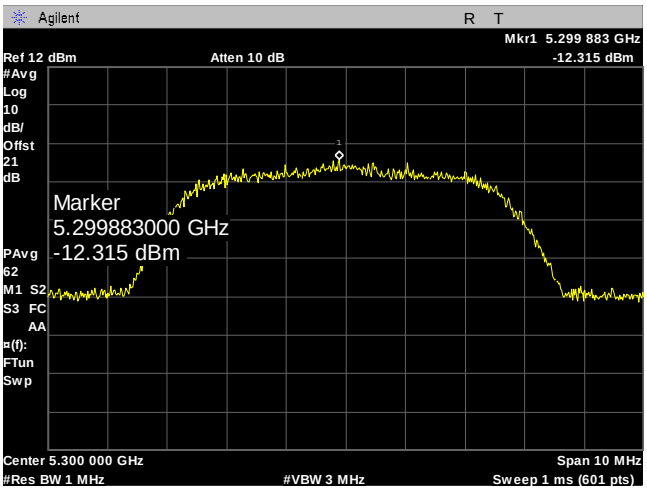



**Plot 313. Power Spectral Density, 2 Panel, 5M, 5255, Port 2**

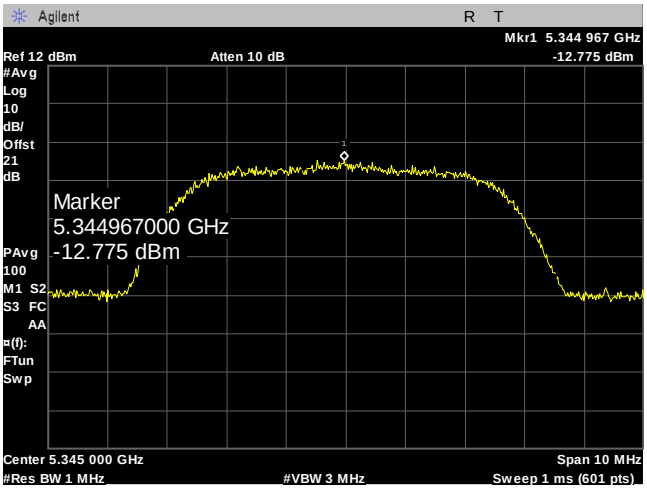



**Plot 314. Power Spectral Density, 2 Panel, 5M, 5300, Port 1**

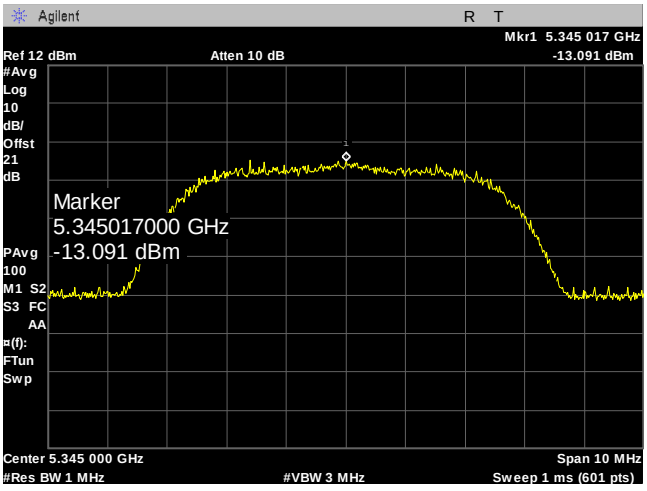
  




**Plot 315. Power Spectral Density, 2 Panel, 5M, 5300, Port 2**

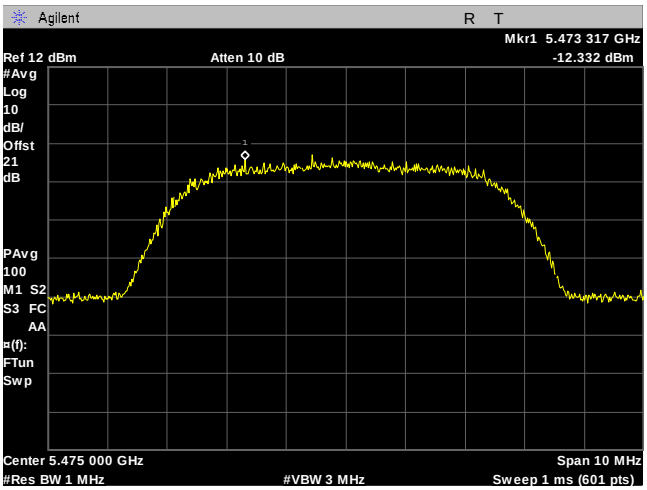



**Plot 316. Power Spectral Density, 2 Panel, 5M, 5345, Port 1**

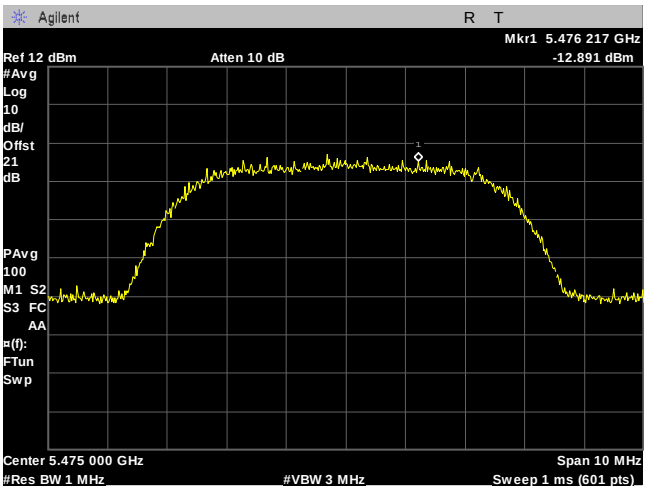



**Plot 317. Power Spectral Density, 2 Panel, 5M, 5345, Port 2**

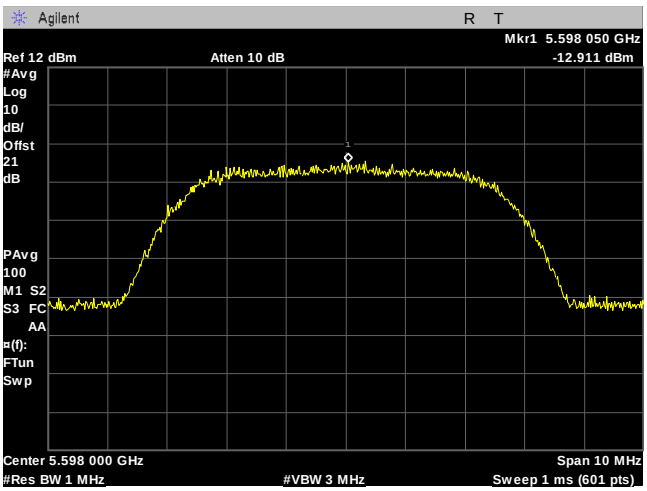
  




**Plot 318. Power Spectral Density, 2 Panel, 5M, 5475, Port 1**

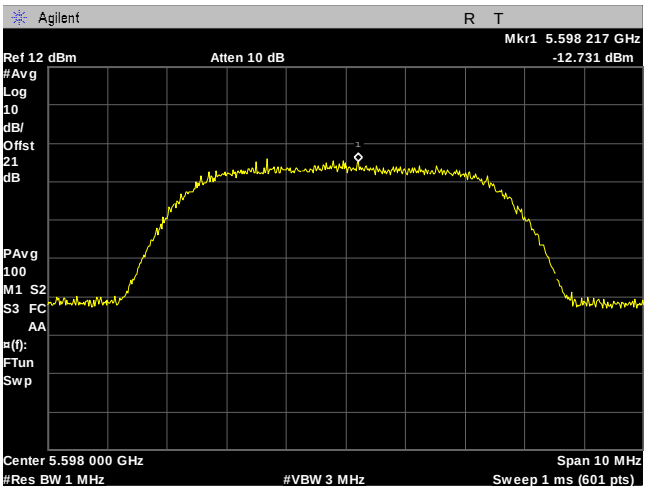



**Plot 319. Power Spectral Density, 2 Panel, 5M, 5475, Port 2**

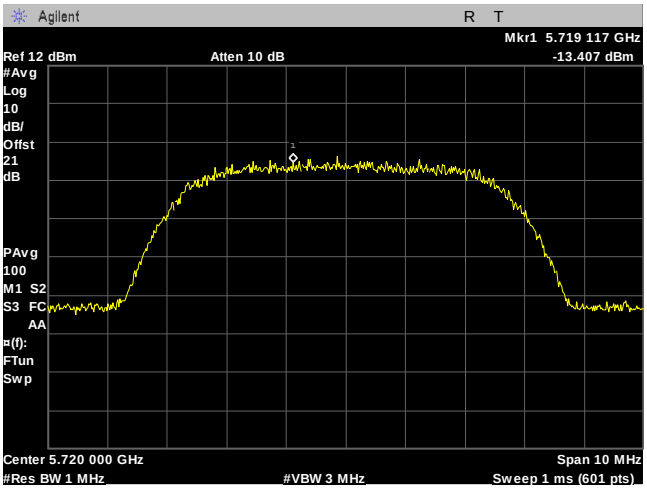



**Plot 320. Power Spectral Density, 2 Panel, 5M, 5598, Port 1**

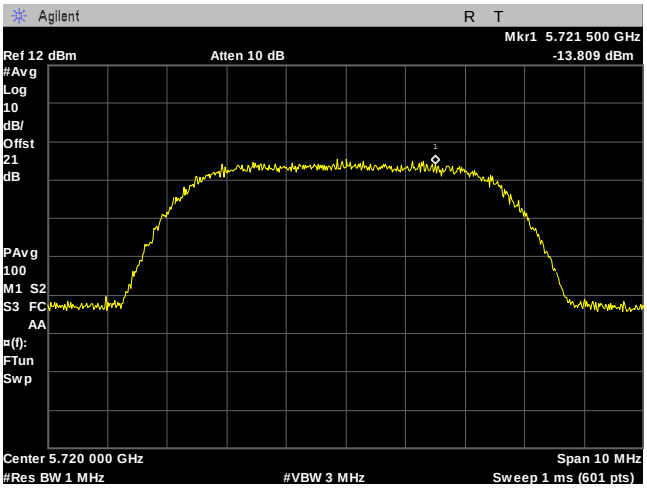
  




**Plot 321. Power Spectral Density, 2 Panel, 5M, 5598, Port 2**

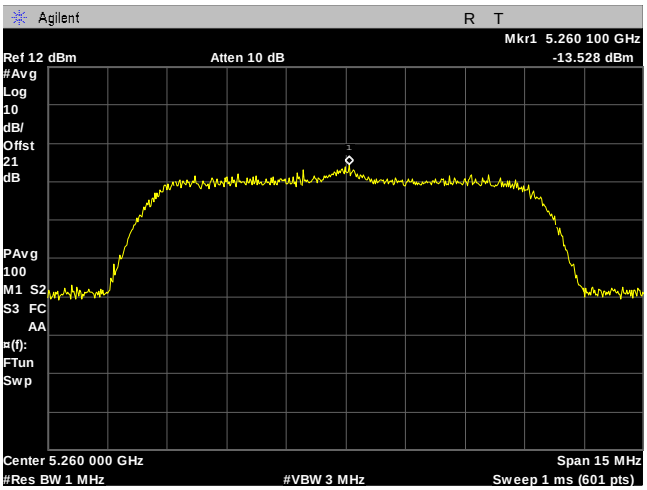



**Plot 322. Power Spectral Density, 2 Panel, 5M, 5720, Port 1**

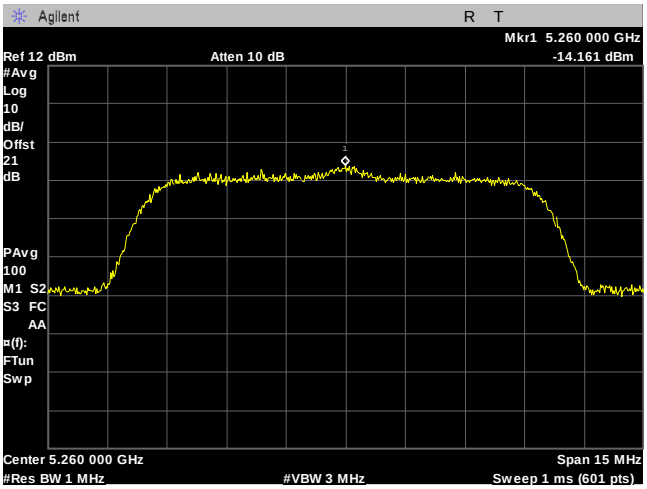



**Plot 323. Power Spectral Density, 2 Panel, 5M, 5720, Port 2**

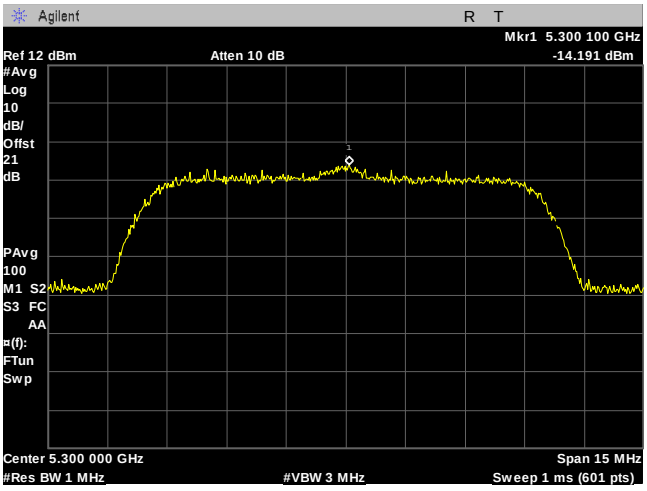
  




**Plot 324. Power Spectral Density, 2 Panel, 10M, 5260, Port 1**

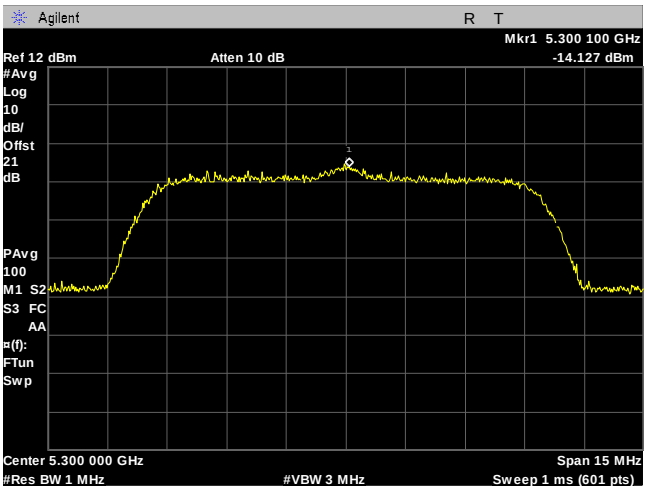



**Plot 325. Power Spectral Density, 2 Panel, 10M, 5260, Port 2**

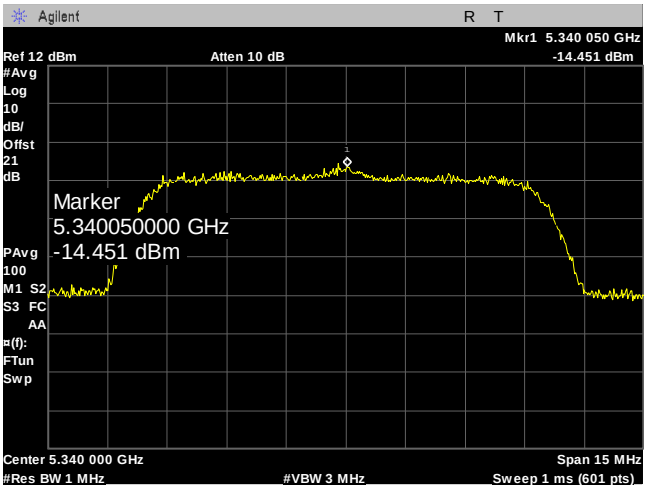



**Plot 326. Power Spectral Density, 2 Panel, 10M, 5300, Port 1**

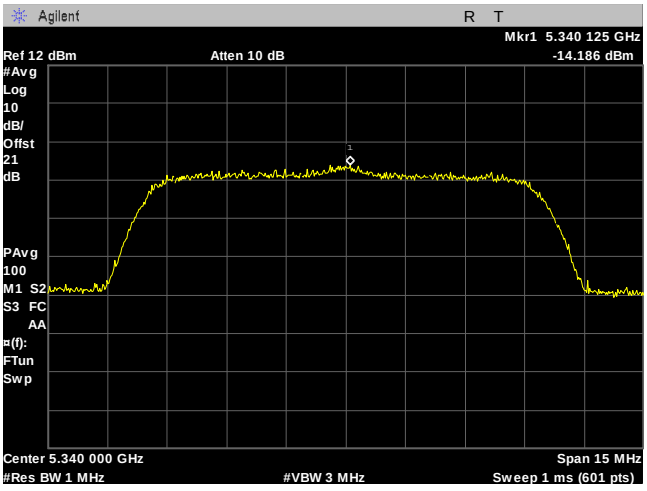
  




**Plot 327. Power Spectral Density, 2 Panel, 10M, 5300, Port 2**

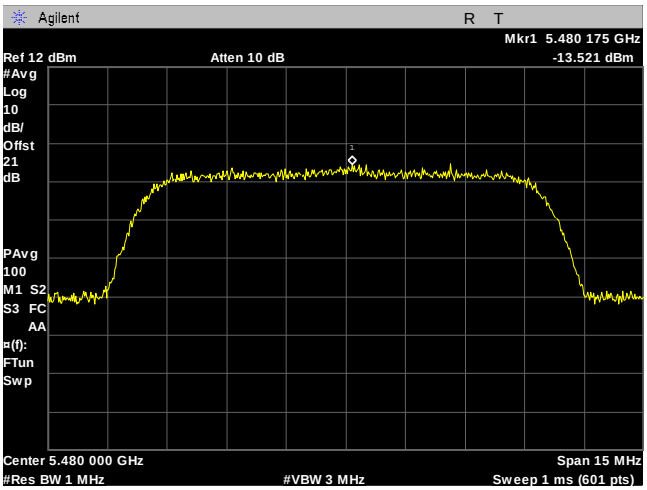



**Plot 328. Power Spectral Density, 2 Panel, 10M, 5340, Port 1**

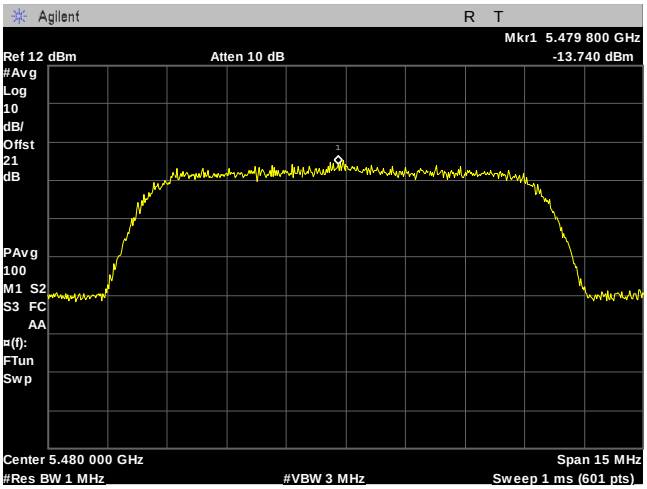



**Plot 329. Power Spectral Density, 2 Panel, 10M, 5340, Port 2**

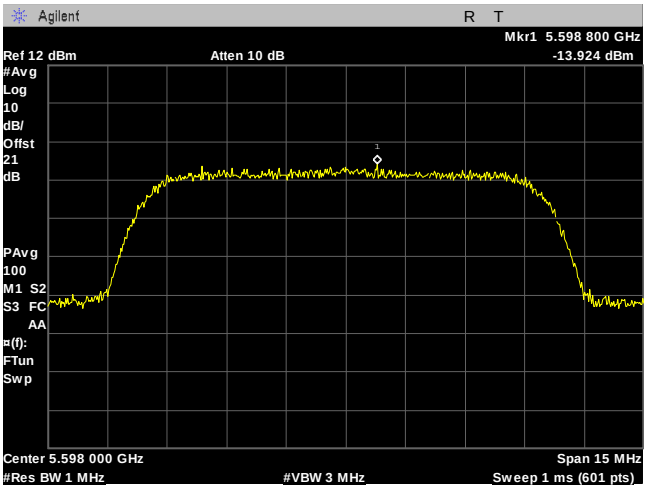
  




**Plot 330. Power Spectral Density, 2 Panel, 10M, 5480, Port 1**

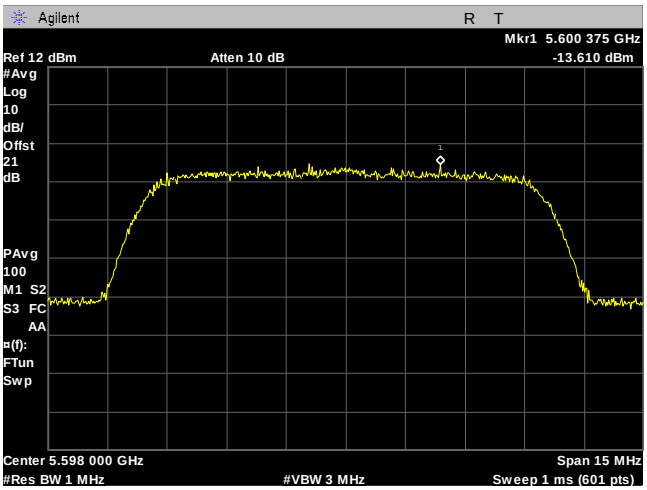



**Plot 331. Power Spectral Density, 2 Panel, 10M, 5480, Port 2**

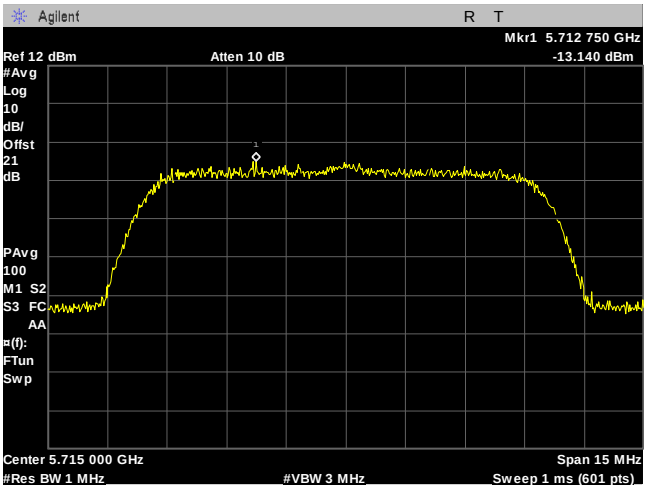



**Plot 332. Power Spectral Density, 2 Panel, 10M, 5598, Port 1**

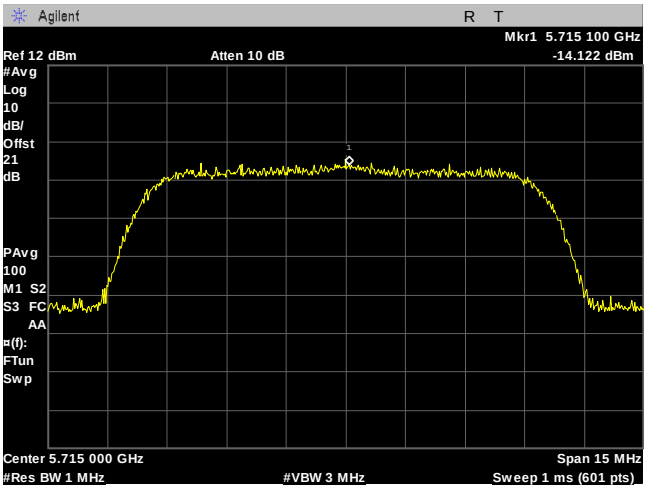
  




**Plot 333. Power Spectral Density, 2 Panel, 10M, 5598, Port 2**

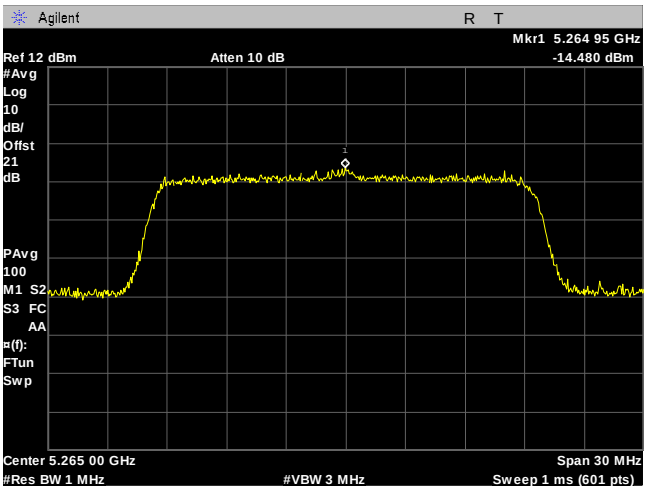



**Plot 334. Power Spectral Density, 2 Panel, 10M, 5715, Port 1**

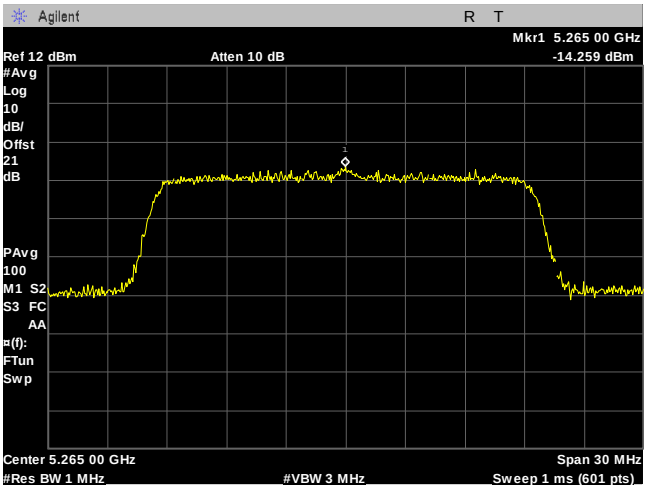



**Plot 335. Power Spectral Density, 2 Panel, 10M, 5715, Port 2**

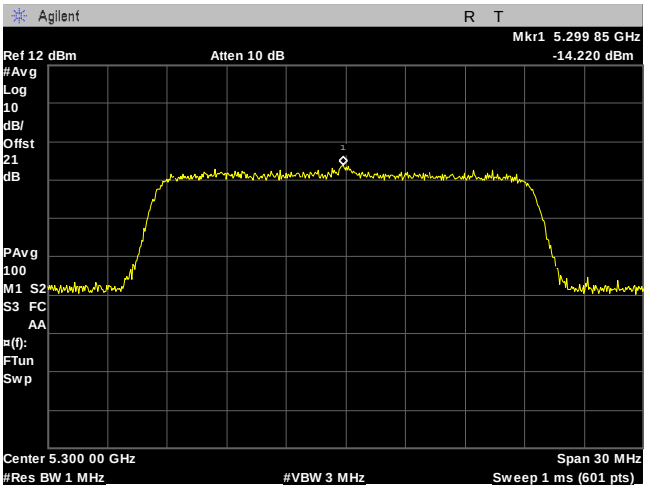
  




**Plot 336. Power Spectral Density, 2 Panel, 20M, 5265, Port 1**

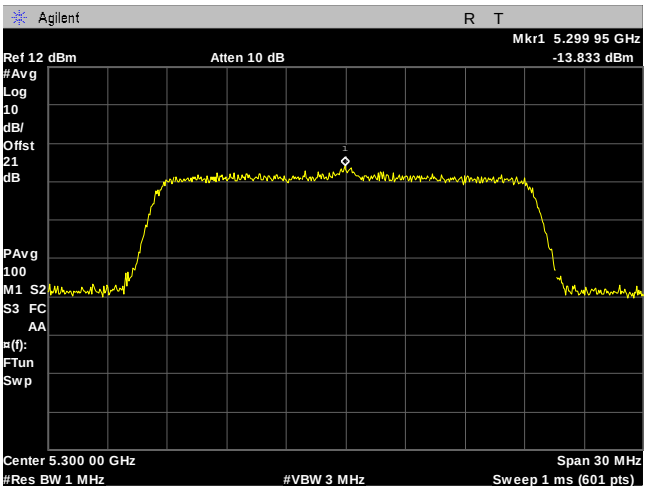



**Plot 337. Power Spectral Density, 2 Panel, 20M, 5265, Port 2**

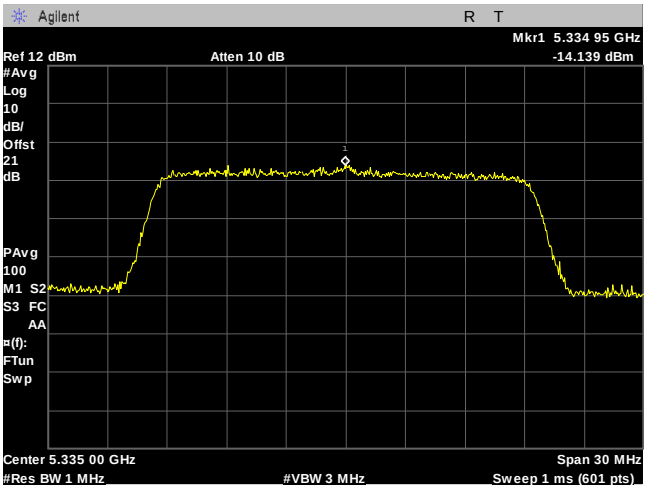



**Plot 338. Power Spectral Density, 2 Panel, 20M, 5300, Port 1**

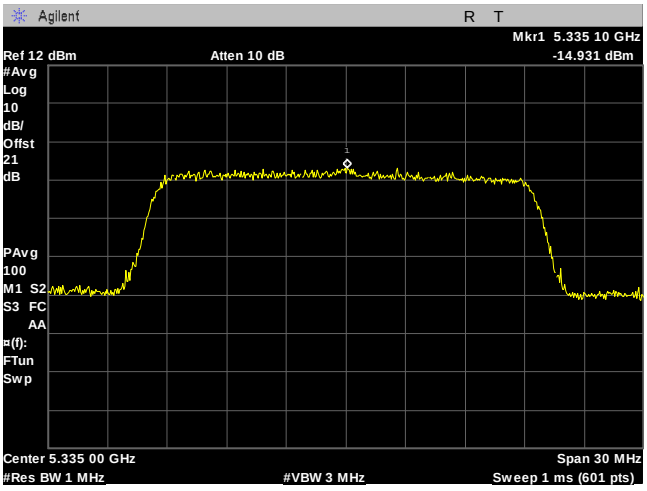
  




**Plot 339. Power Spectral Density, 2 Panel, 20M, 5300, Port 1**

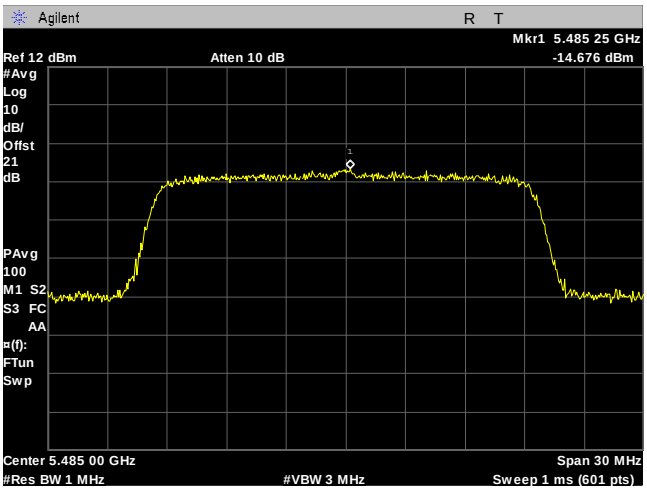



**Plot 340. Power Spectral Density, 2 Panel, 20M, 5335, Port 1**

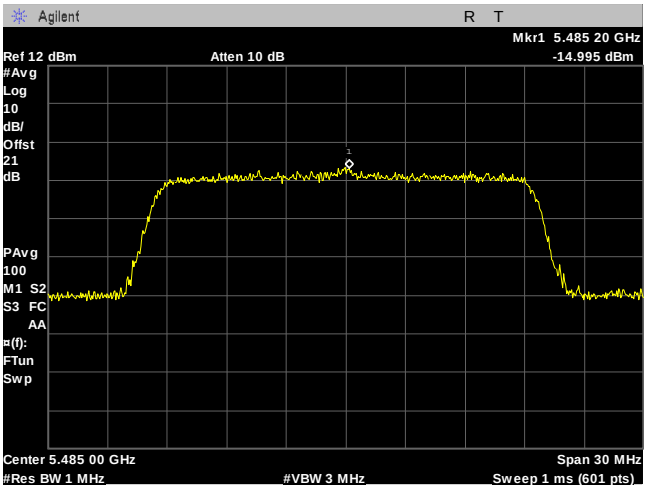



**Plot 341. Power Spectral Density, 2 Panel, 20M, 5335, Port 2**

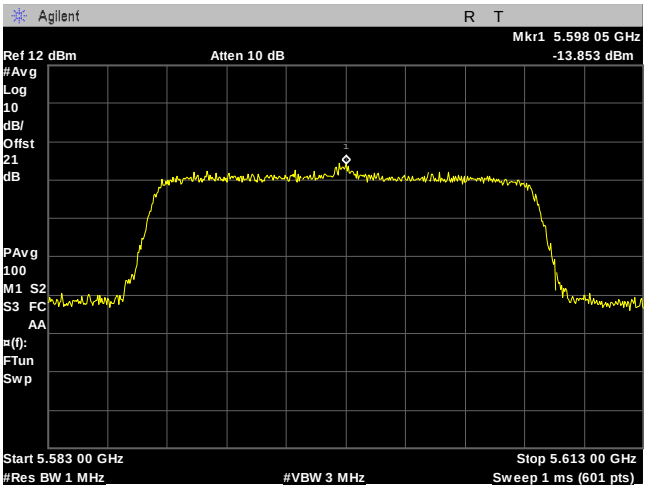
  




**Plot 342. Power Spectral Density, 2 Panel, 20M, 5485, Port 1**

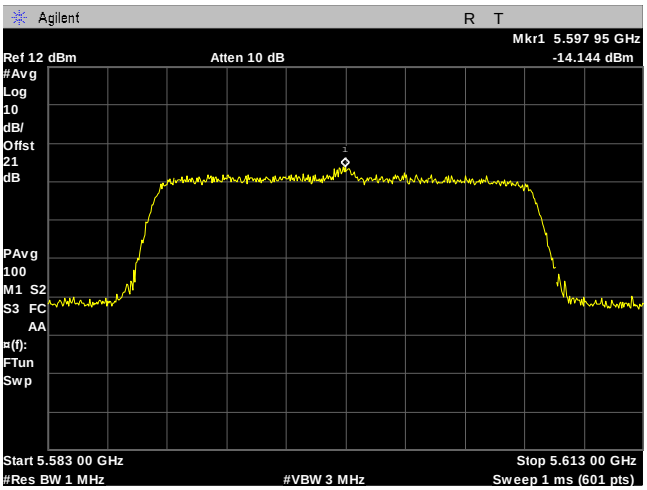



**Plot 343. Power Spectral Density, 2 Panel, 20M, 5485, Port 2**

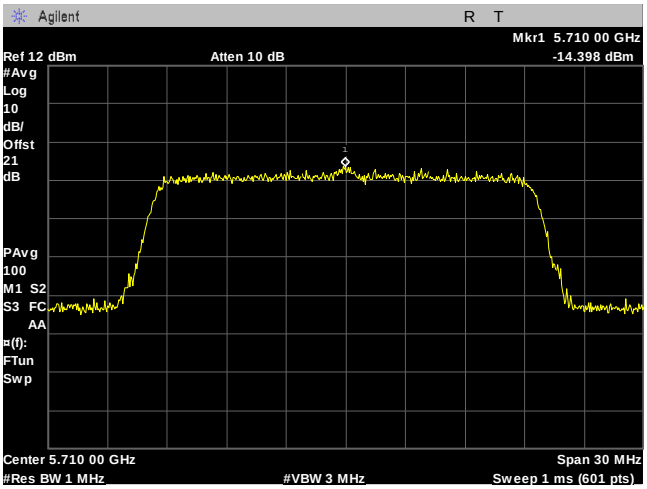



**Plot 344. Power Spectral Density, 2 Panel, 20M, 5598, Port 1**

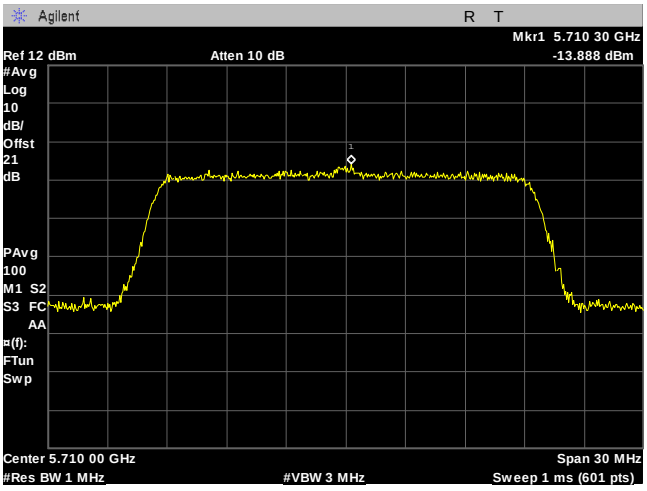
  




**Plot 345. Power Spectral Density, 2 Panel, 20M, 5598, Port 2**

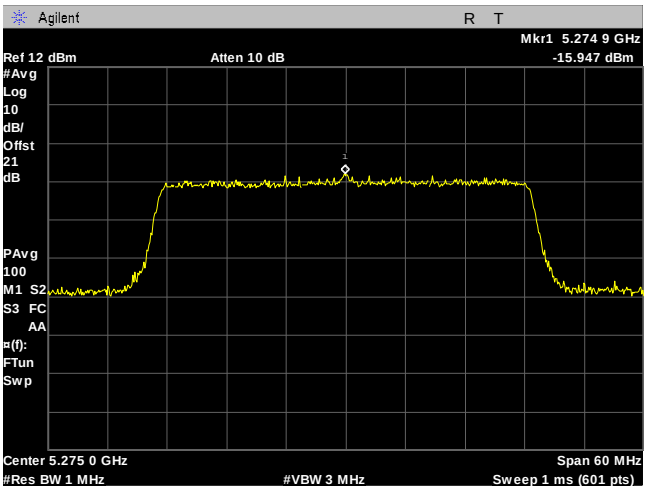



**Plot 346. Power Spectral Density, 2 Panel, 20M, 5710, Port 1**

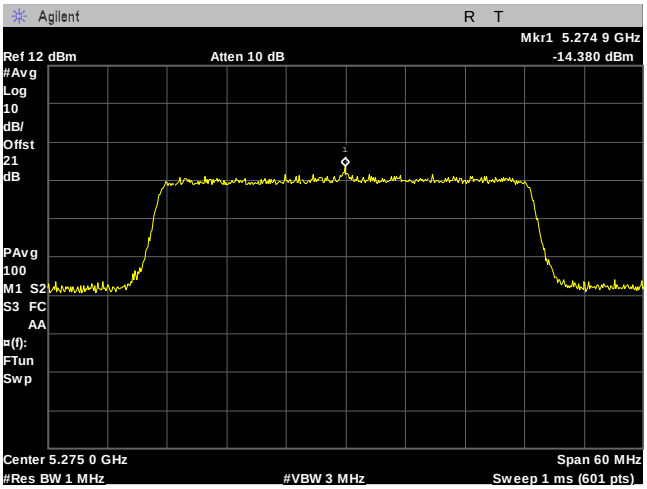



**Plot 347. Power Spectral Density, 2 Panel, 20M, 5710, Port 2**

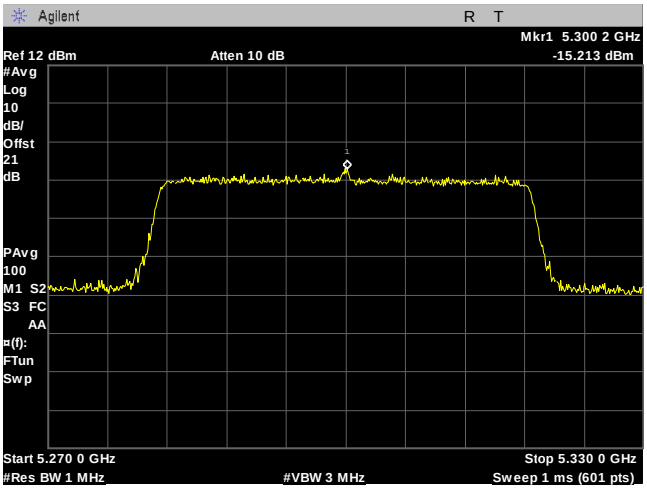
  




**Plot 348. Power Spectral Density, 2 Panel, 40M, 5275, Port 1**

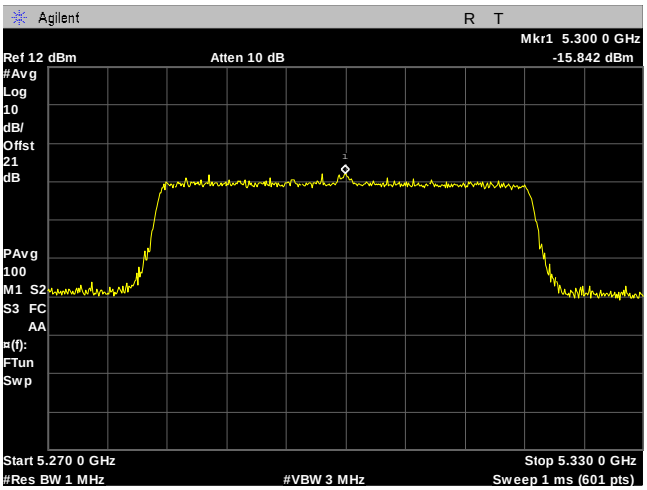



**Plot 349. Power Spectral Density, 2 Panel, 40M, 5275, Port 2**

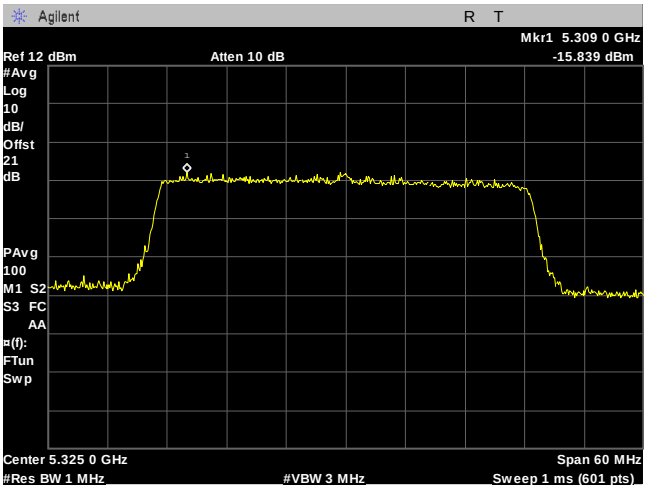



**Plot 350. Power Spectral Density, 2 Panel, 40M, 5300, Port 1**

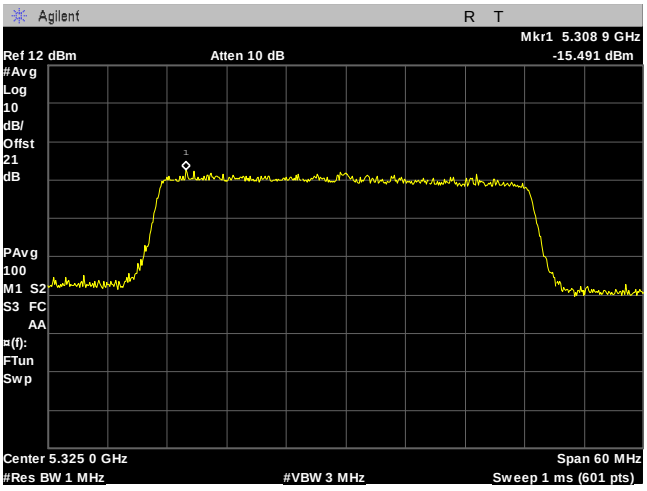
  




**Plot 351. Power Spectral Density, 2 Panel, 40M, 5300, Port 2**

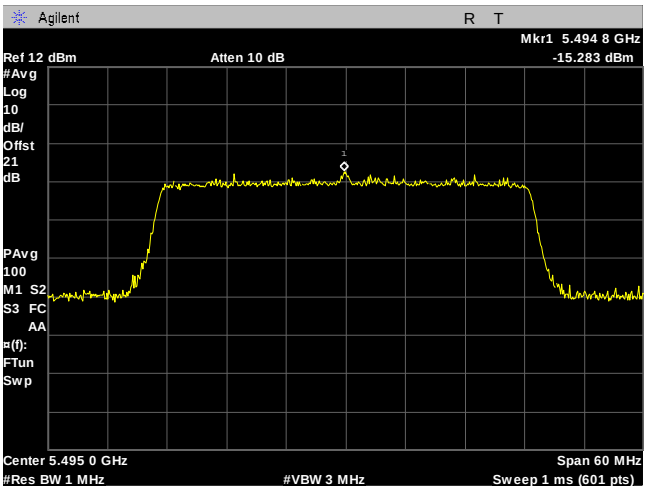



**Plot 352. Power Spectral Density, 2 Panel, 40M, 5325, Port 1**

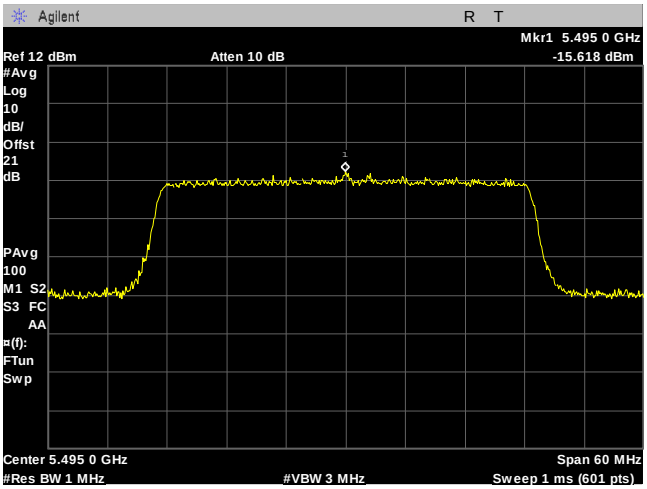



**Plot 353. Power Spectral Density, 2 Panel, 40M, 5325, Port 2**

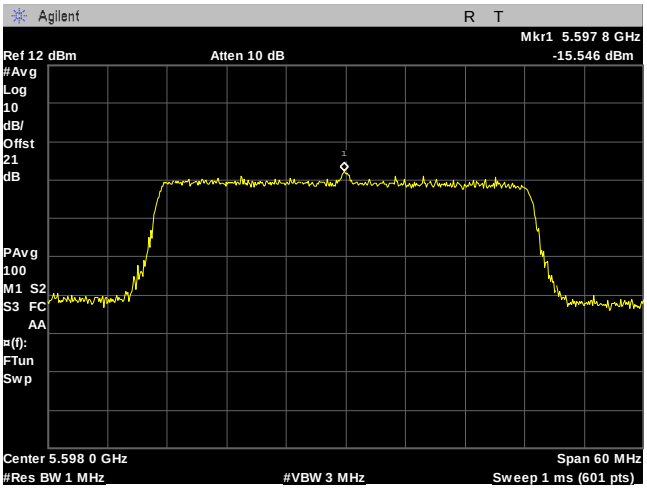
  




**Plot 354. Power Spectral Density, 2 Panel, 40M, 5495, Port 1**

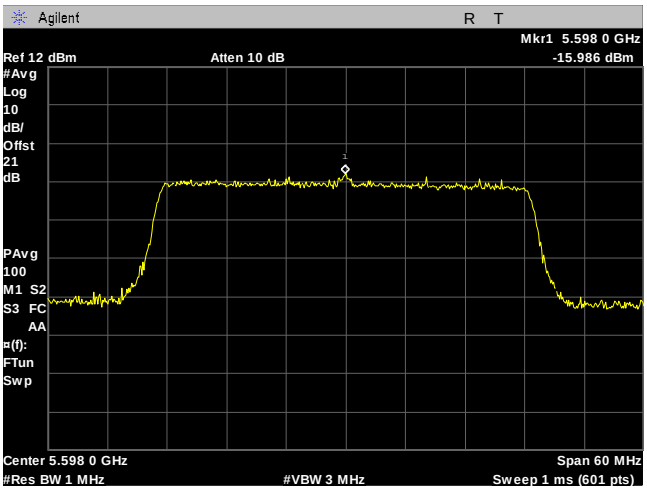



**Plot 355. Power Spectral Density, 2 Panel, 40M, 5495, Port 2**

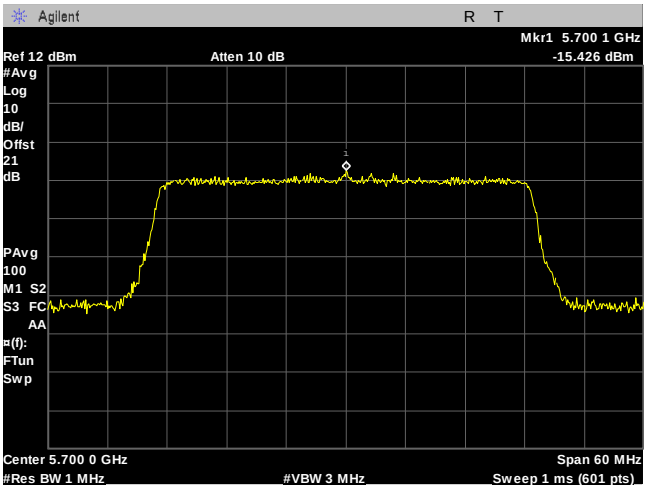



**Plot 356. Power Spectral Density, 2 Panel, 40M, 5598, Port 1**

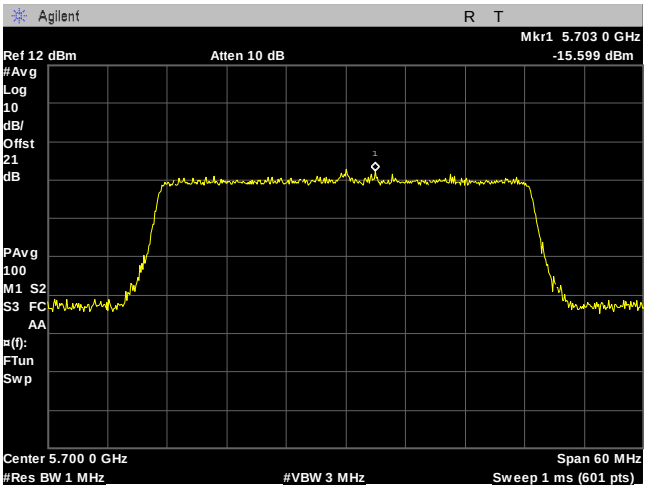
  




**Plot 357. Power Spectral Density, 2 Panel, 40M, 5598, Port 2**

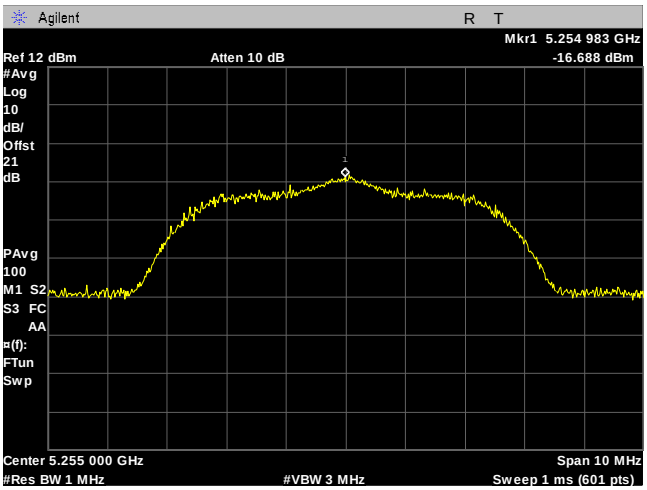



**Plot 358. Power Spectral Density, 2 Panel, 40M, 5700, Port 1**

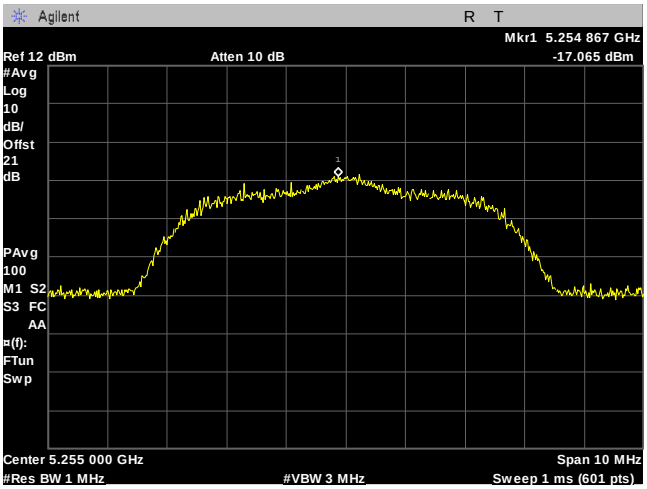



**Plot 359. Power Spectral Density, 2 Panel, 40M, 5700, Port 2**

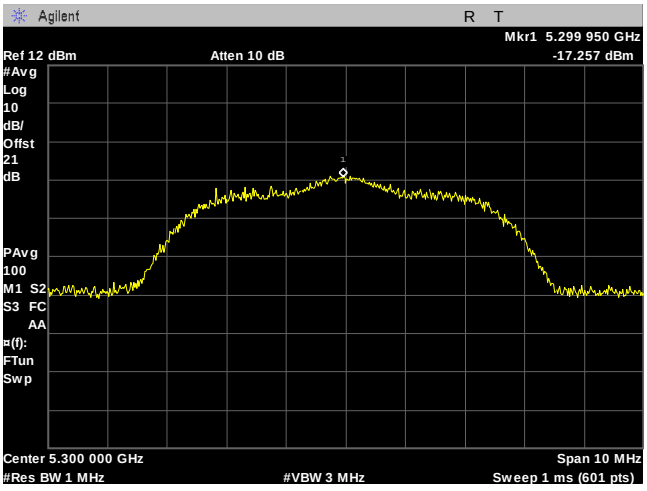
  




**Plot 360. Power Spectral Density, 3 Para, 5MHz, 5255MHz, Port 1**

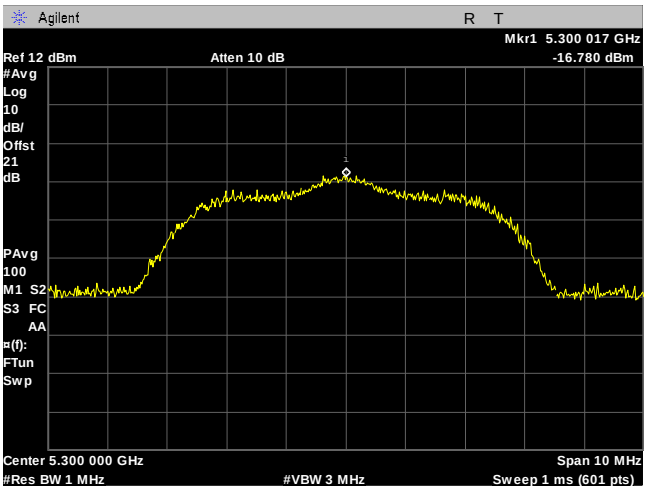



**Plot 361. Power Spectral Density, 3 Para, 5MHz, 5255MHz, Port 2**

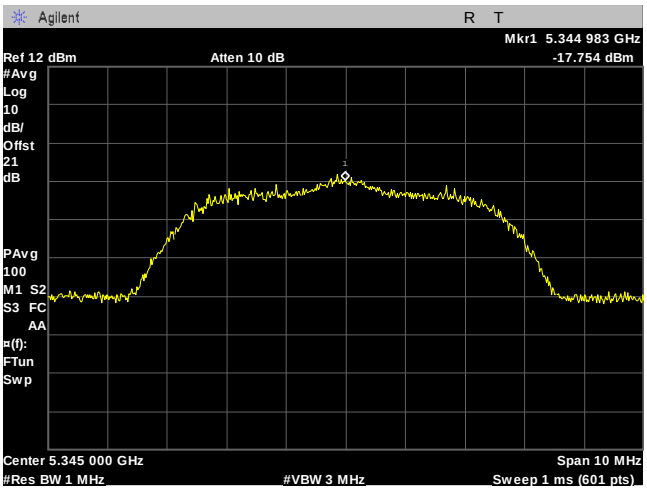



**Plot 362. Power Spectral Density, 3 Para, 5MHz, 5300MHz, Port 1**

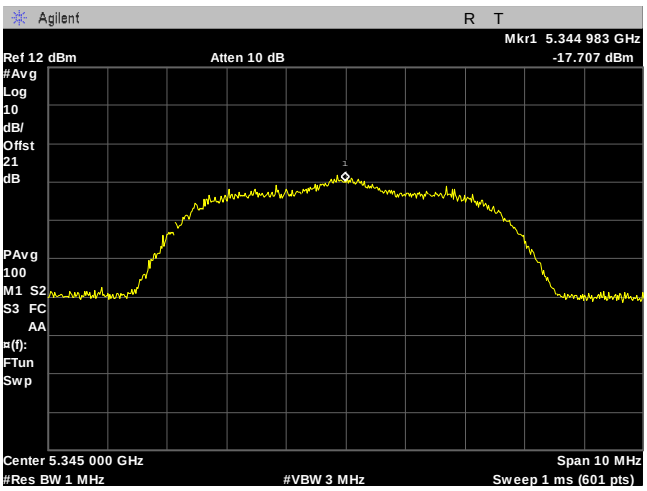
  




**Plot 363. Power Spectral Density, 3 Para, 5MHz, 5300MHz, Port 2**

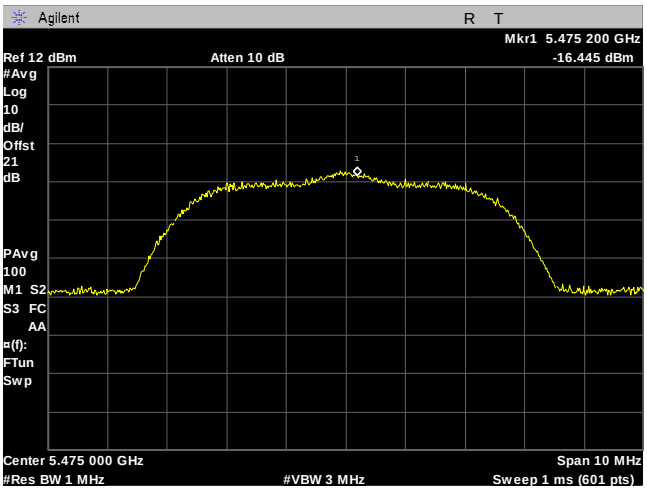



**Plot 364. Power Spectral Density, 3 Para, 5MHz, 5345MHz, Port 1**

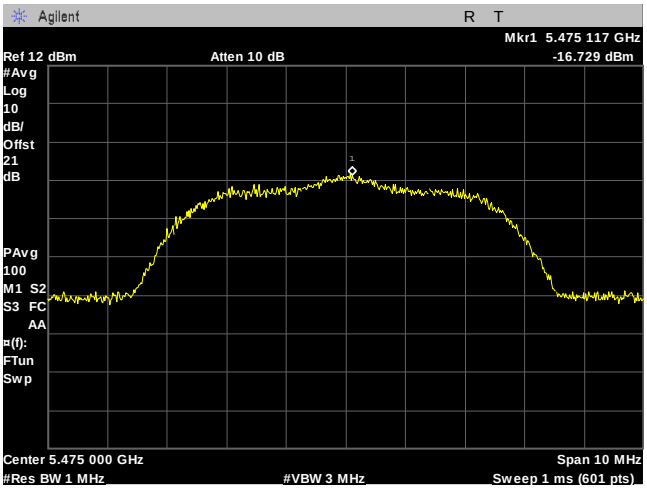



**Plot 365. Power Spectral Density, 3 Para, 5MHz, 5345MHz, Port 2**

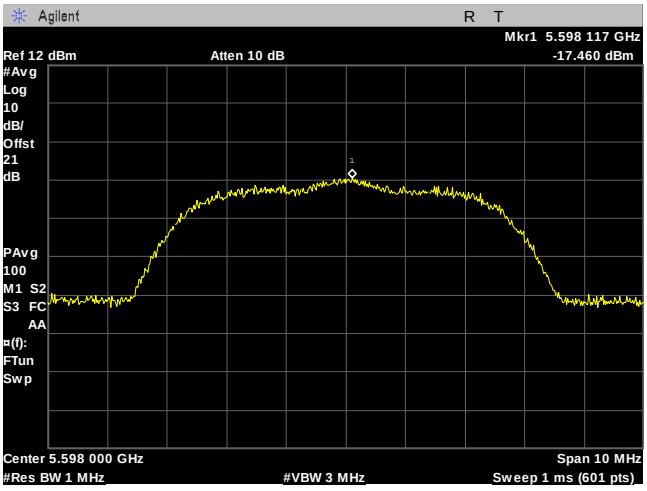
  




**Plot 366. Power Spectral Density, 3 Para, 5MHz, 5475MHz, Port 1**

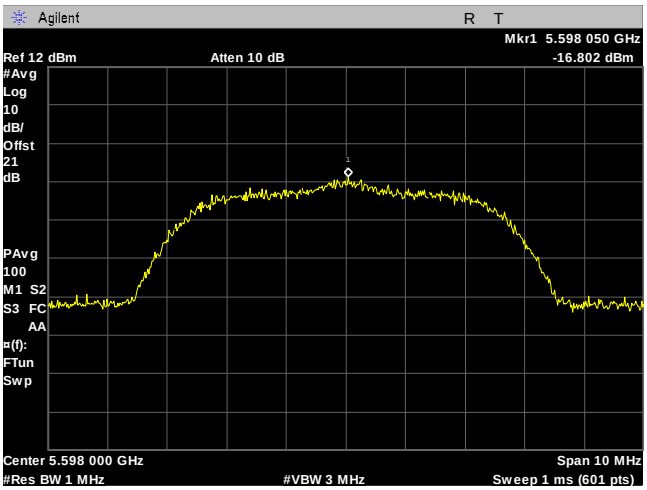



**Plot 367. Power Spectral Density, 3 Para, 5MHz, 5475MHz, Port 2**

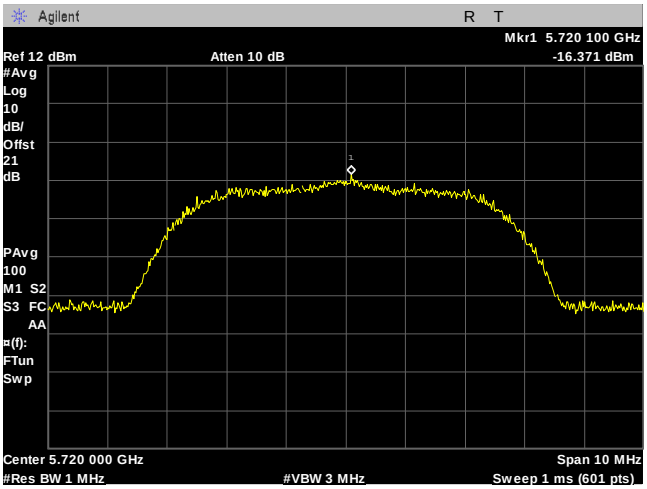



**Plot 368. Power Spectral Density, 3 Para, 5MHz, 5598MHz, Port 1**

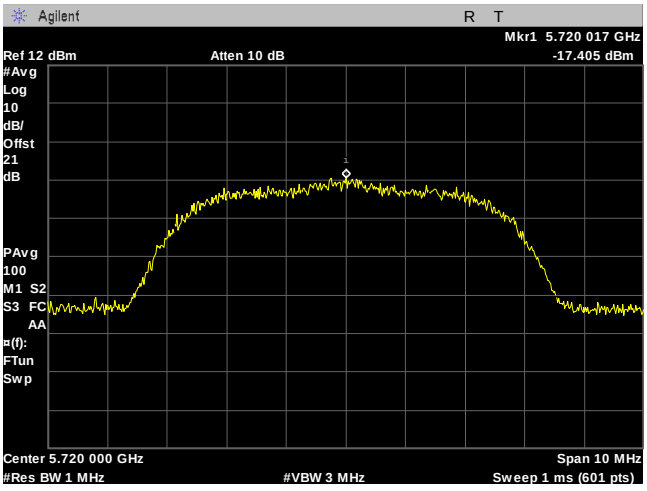
  




**Plot 369. Power Spectral Density, 3 Para, 5MHz, 5598MHz, Port 2**

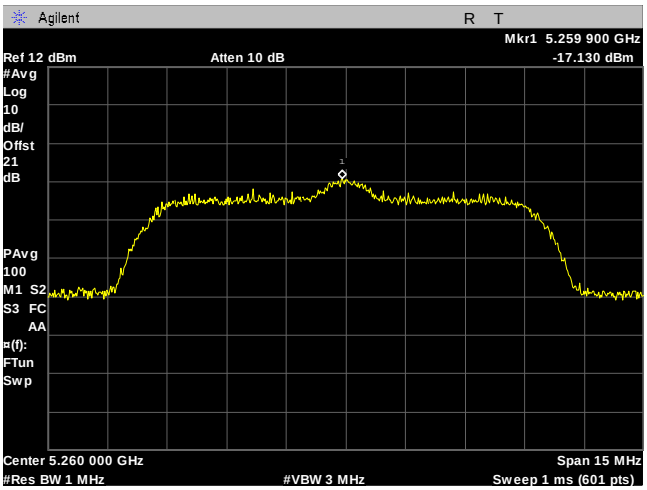



**Plot 370. Power Spectral Density, 3 Para, 5MHz, 5720MHz, Port 1**

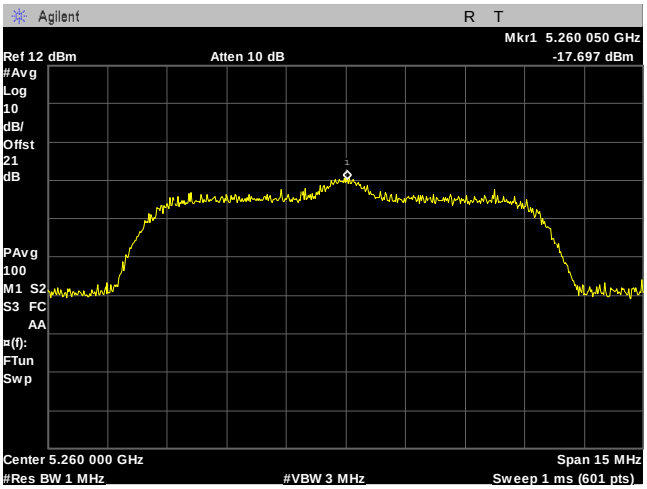



**Plot 371. Power Spectral Density, 3 Para, 5MHz, 5720MHz, Port 2**

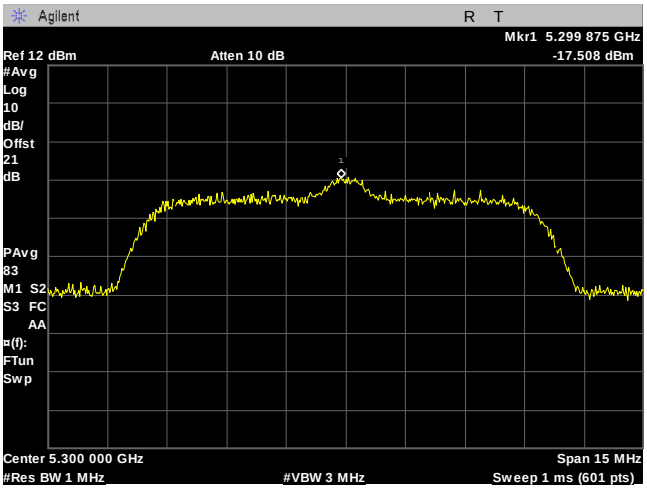
  




**Plot 372. Power Spectral Density, 3 Para, 10MHz, 5260MHz, Port 1**

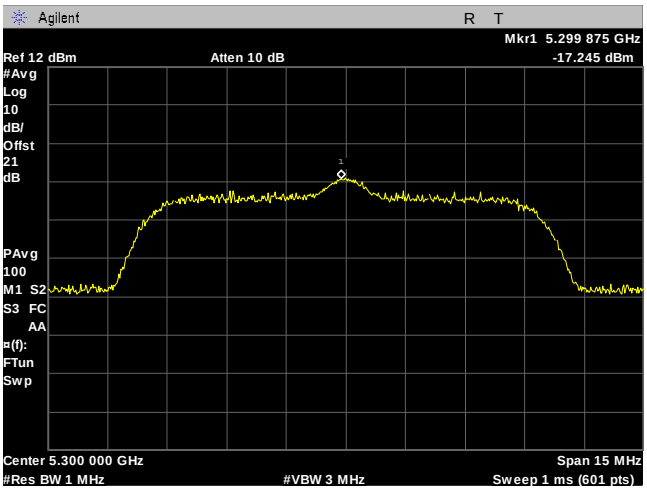



**Plot 373. Power Spectral Density, 3 Para, 10MHz, 5260MHz, Port 2**

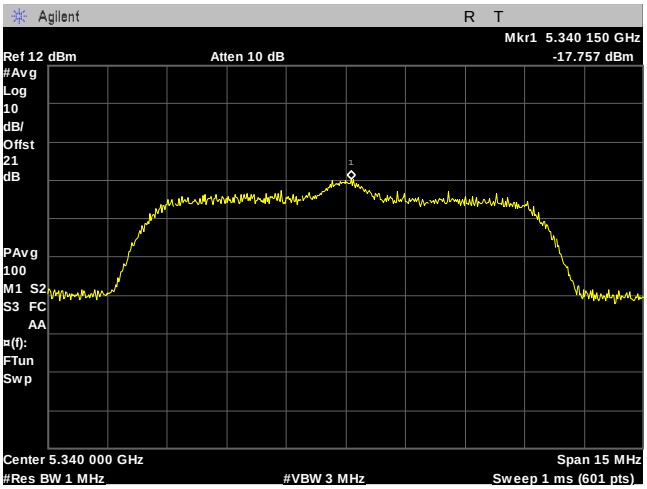



**Plot 374. Power Spectral Density, 3 Para, 10MHz, 5300MHz, Port 1**

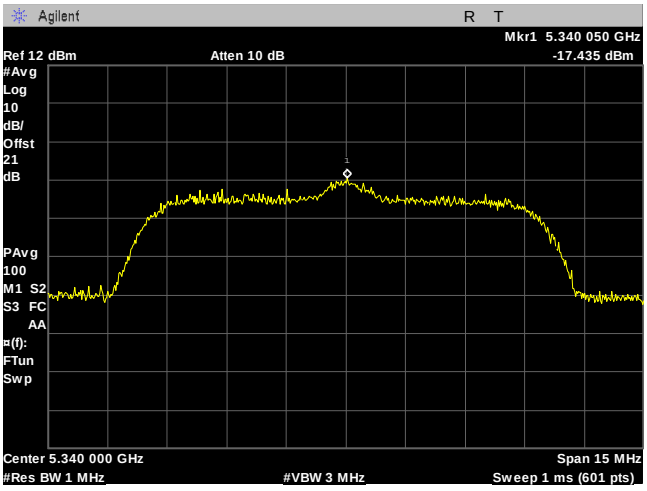
  




**Plot 375. Power Spectral Density, 3 Para, 10MHz, 5300MHz, Port 2**

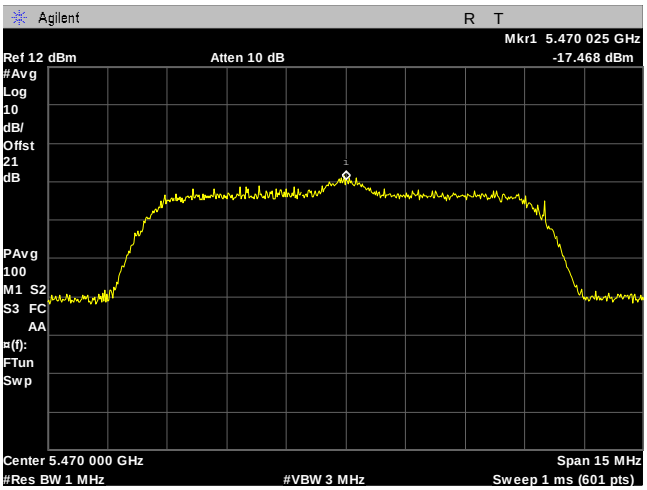



**Plot 376. Power Spectral Density, 3 Para, 10MHz, 5340MHz, Port 1**

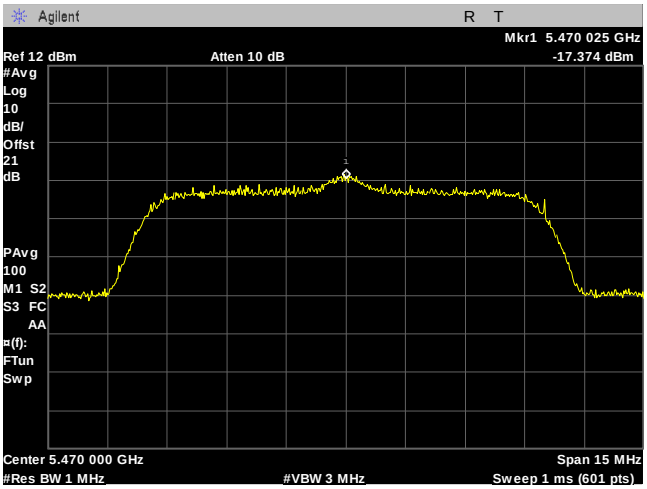



**Plot 377. Power Spectral Density, 3 Para, 10MHz, 5340MHz, Port 2**

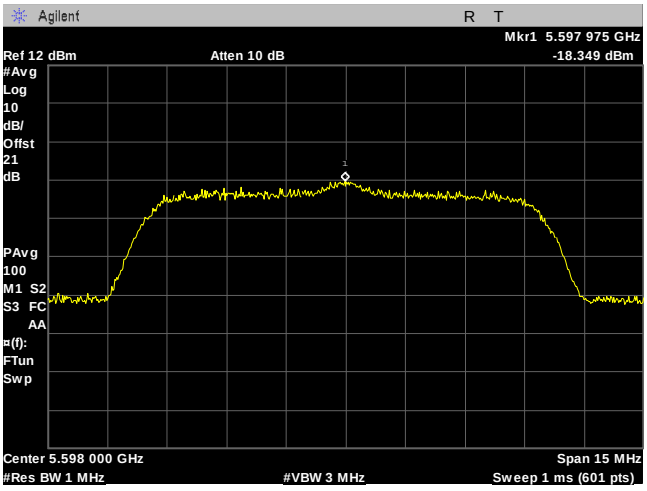
  




**Plot 378. Power Spectral Density, 3 Para, 10MHz, 5470MHz, Port 1**

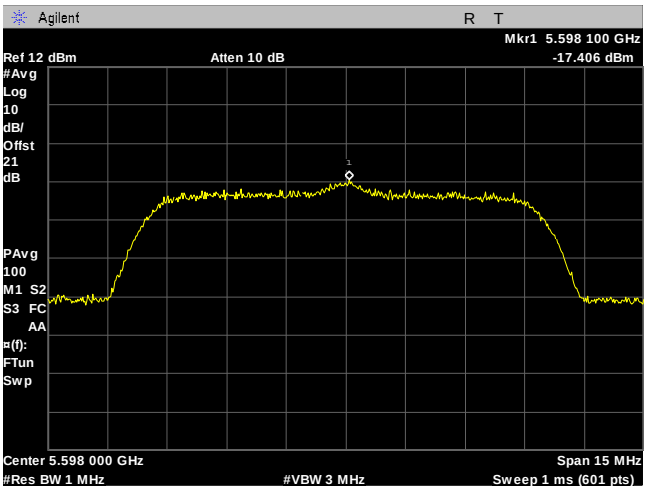



**Plot 379. Power Spectral Density, 3 Para, 10MHz, 5470MHz, Port 2**

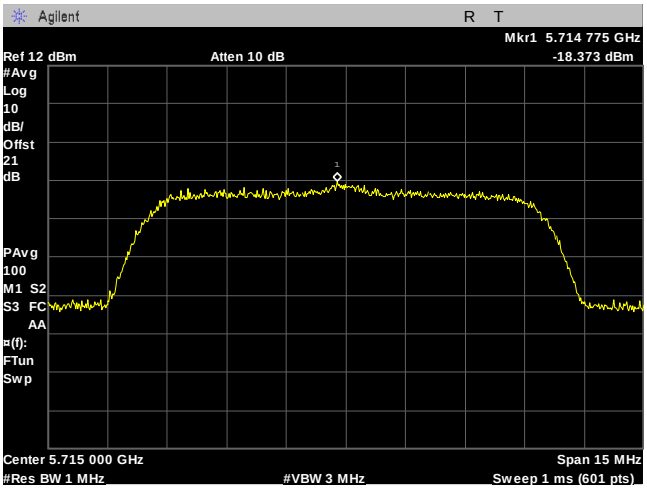



**Plot 380. Power Spectral Density, 3 Para, 10MHz, 5598MHz, Port 1**

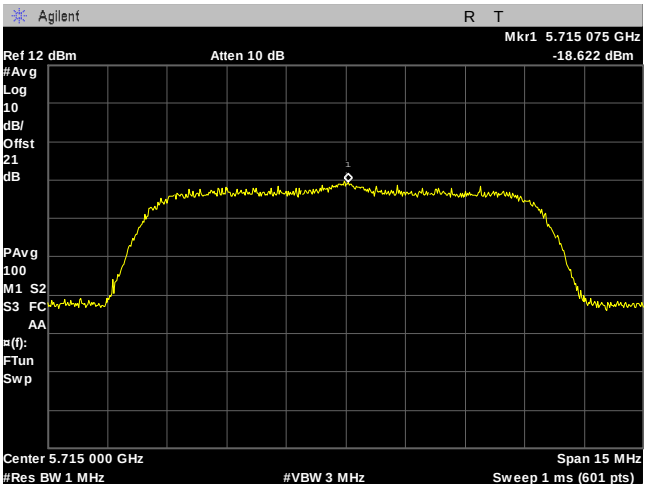
  




**Plot 381. Power Spectral Density, 3 Para, 10MHz, 5598MHz, Port 2**

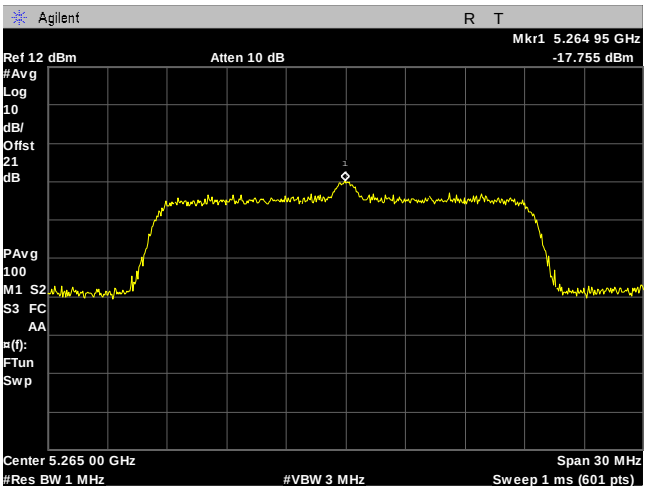



**Plot 382. Power Spectral Density, 3 Para, 10MHz, 5715MHz, Port 1**

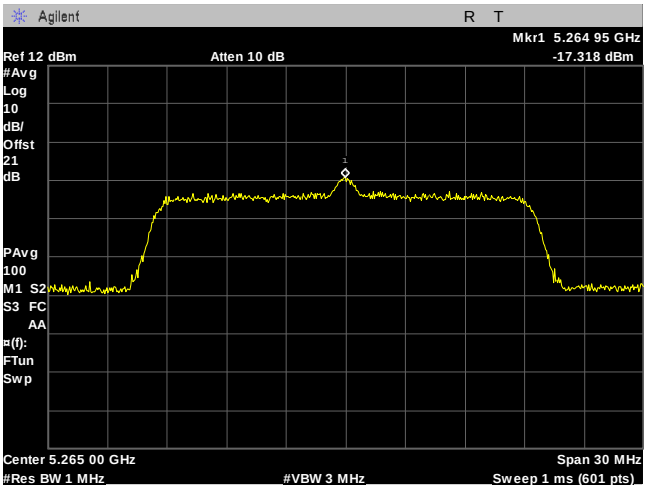



**Plot 383. Power Spectral Density, 3 Para, 10MHz, 5715MHz, Port 2**

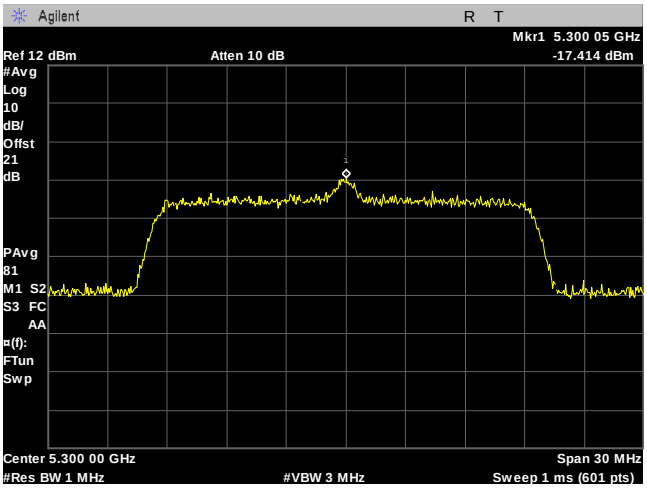
  




**Plot 384. Power Spectral Density, 3 Para, 20MHz, 5265MHz, Port 1**

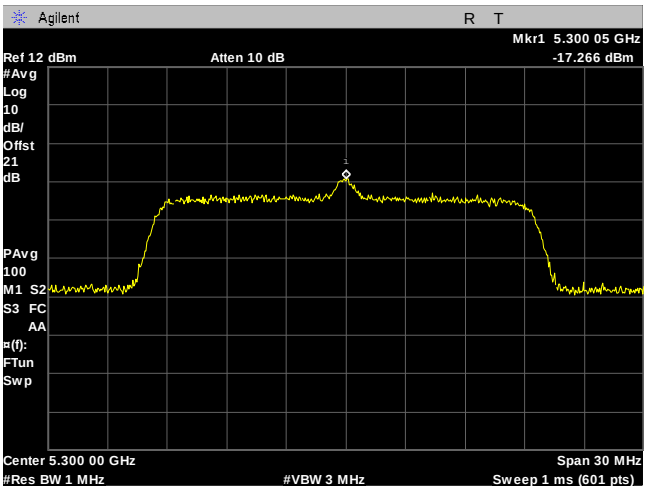



**Plot 385. Power Spectral Density, 3 Para, 20MHz, 5265MHz, Port 2**

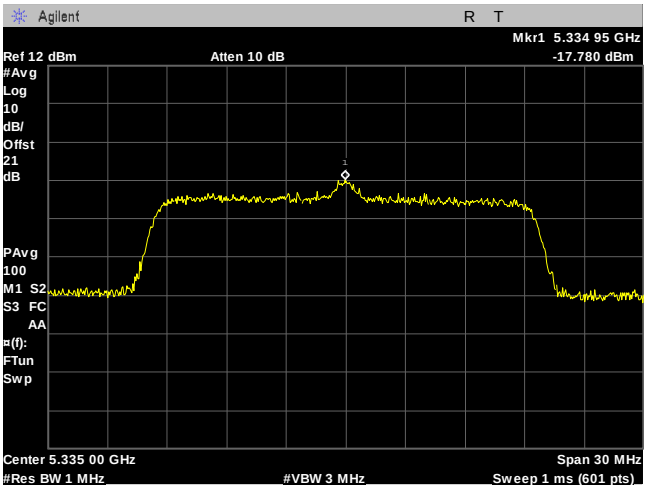



**Plot 386. Power Spectral Density, 3 Para, 20MHz, 5300MHz, Port 1**

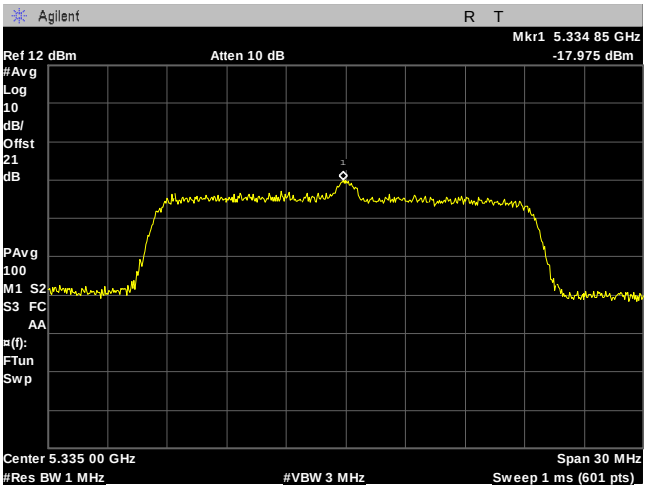
  




**Plot 387. Power Spectral Density, 3 Para, 20MHz, 5300MHz, Port 2**

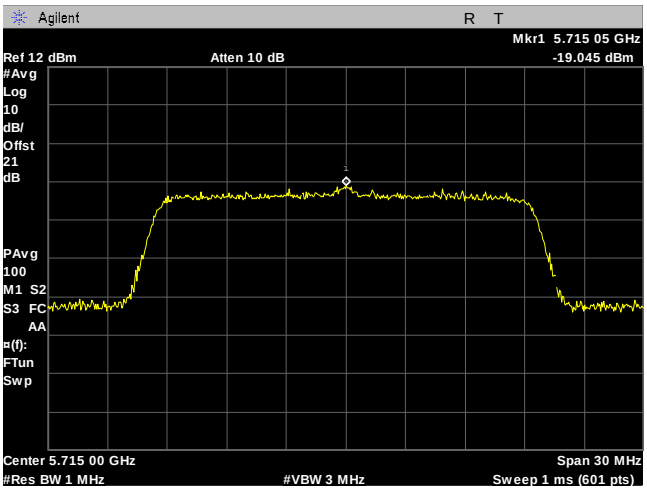



**Plot 388. Power Spectral Density, 3 Para, 20MHz, 5335MHz, Port 1**

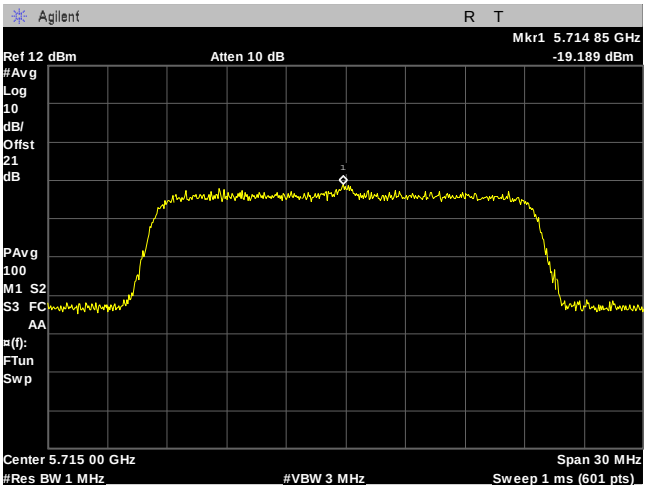



**Plot 389. Power Spectral Density, 3 Para, 20MHz, 5335MHz, Port 2**

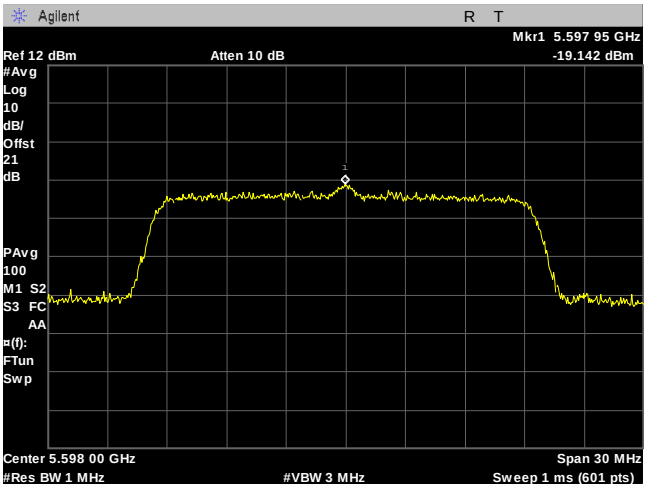
  




**Plot 390. Power Spectral Density, 3 Para, 20MHz, 5485MHz, Port 1**

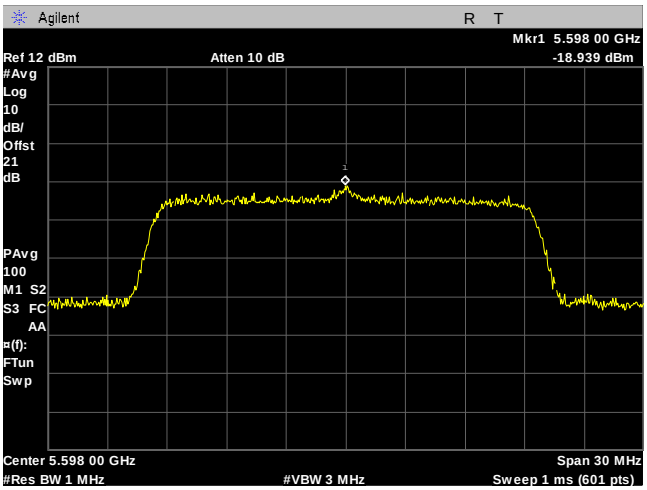



**Plot 391. Power Spectral Density, 3 Para, 20MHz, 5485MHz, Port 2**

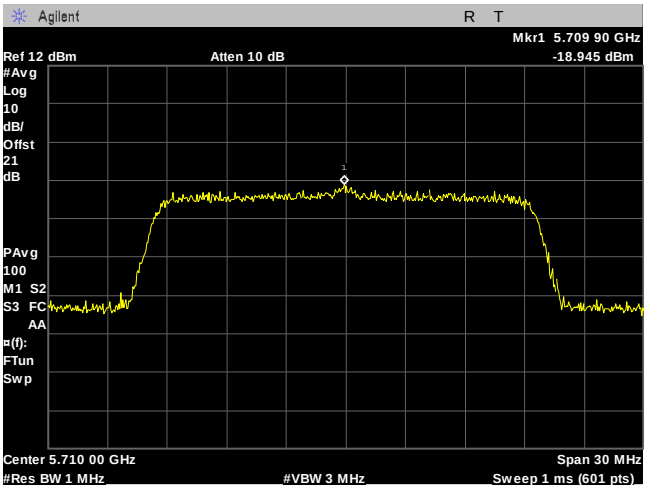



**Plot 392. Power Spectral Density, 3 Para, 20MHz, 5598MHz, Port 1**

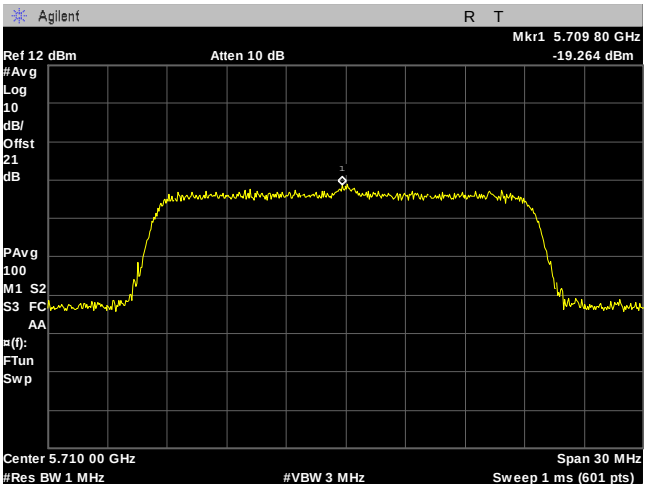
  




**Plot 393. Power Spectral Density, 3 Para, 20MHz, 5598MHz, Port 2**

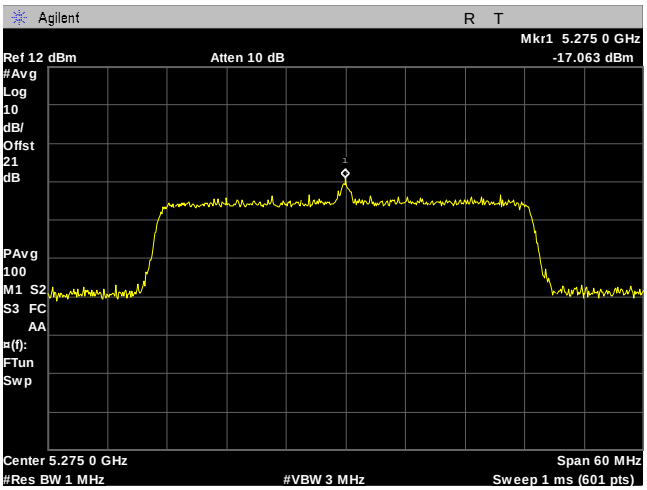



**Plot 394. Power Spectral Density, 3 Para, 20MHz, 5710MHz, Port 1**

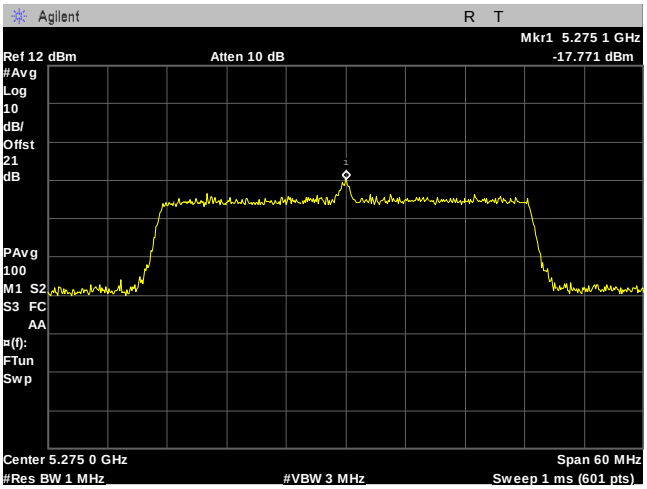



**Plot 395. Power Spectral Density, 3 Para, 20MHz, 5710MHz, Port 2**

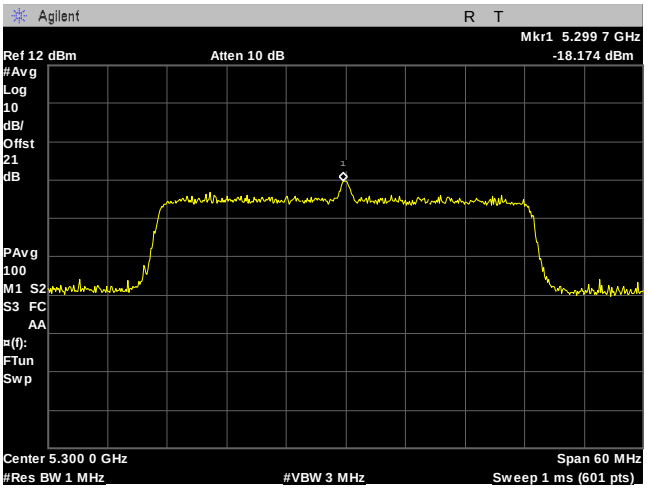
  




**Plot 396. Power Spectral Density, 3 Para, 40MHz, 5275MHz, Port 1**

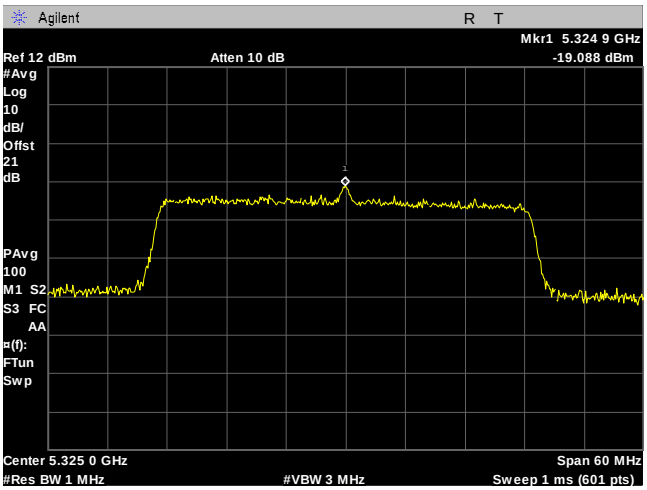



**Plot 397. Power Spectral Density, 3 Para, 40MHz, 5275MHz, Port 2**

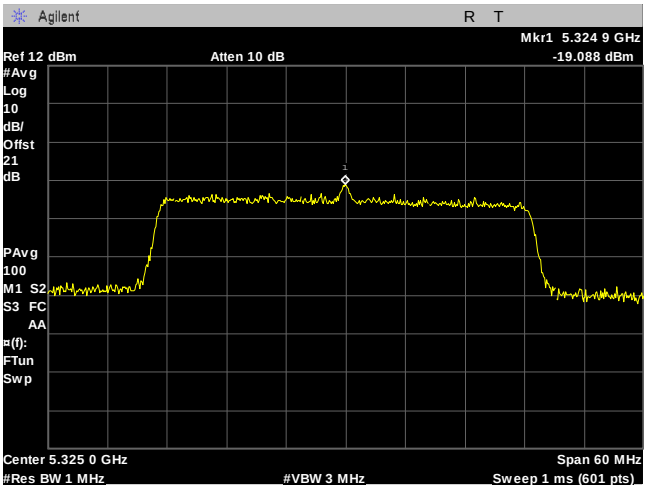



**Plot 398. Power Spectral Density, 3 Para, 40MHz, 5300MHz, Port 1**

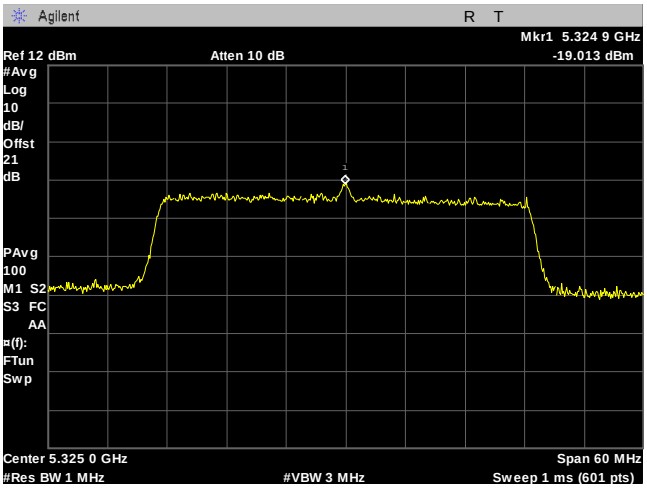
  




**Plot 399. Power Spectral Density, 3 Para, 40MHz, 5300MHz, Port 2**

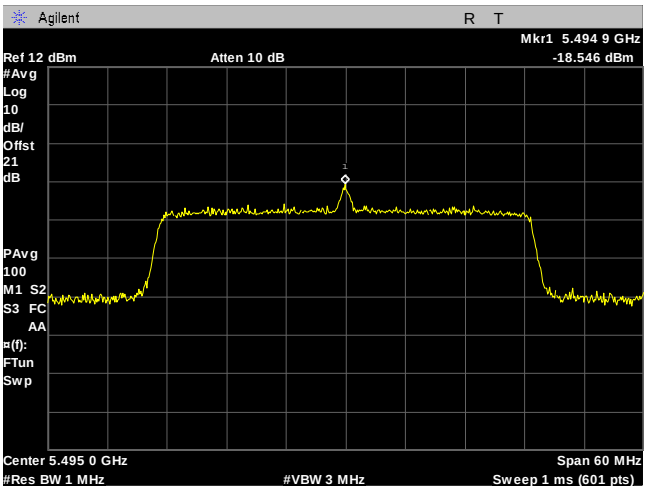



**Plot 400. Power Spectral Density, 3 Para, 40MHz, 5325MHz, Port 1**

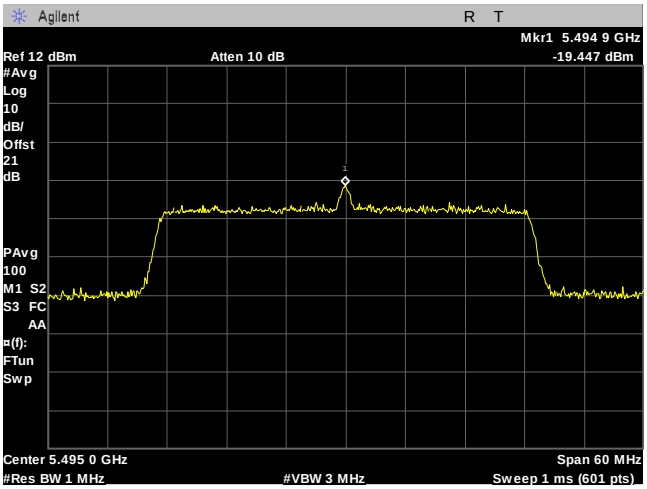



**Plot 401. Power Spectral Density, 3 Para, 40MHz, 5325MHz, Port 2**

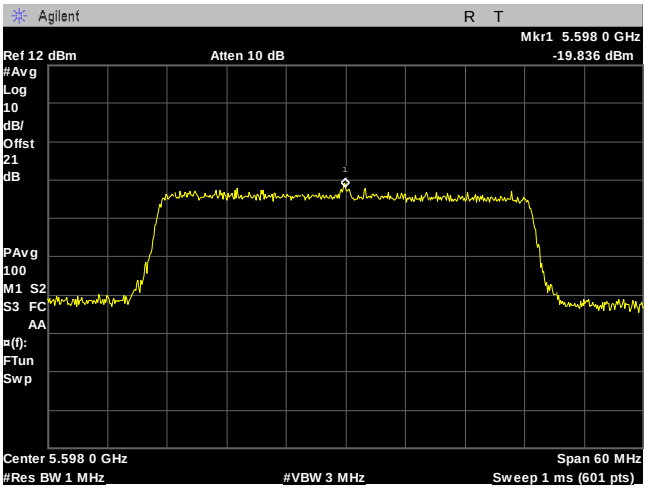
  




**Plot 402. Power Spectral Density, 3 Para, 40MHz, 5495MHz, Port 1**

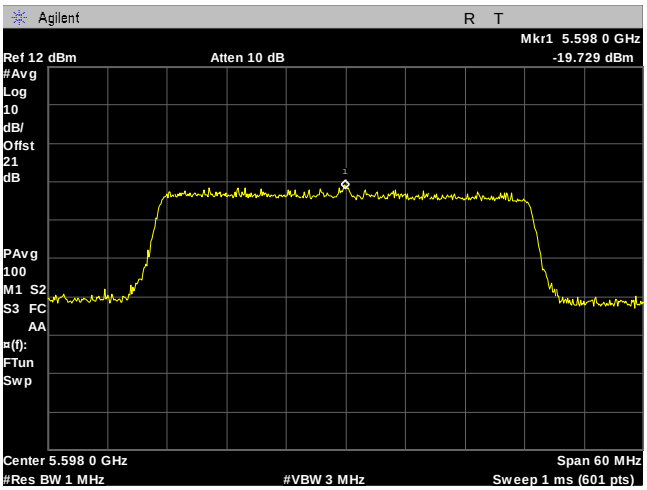



**Plot 403. Power Spectral Density, 3 Para, 40MHz, 5495MHz, Port 2**

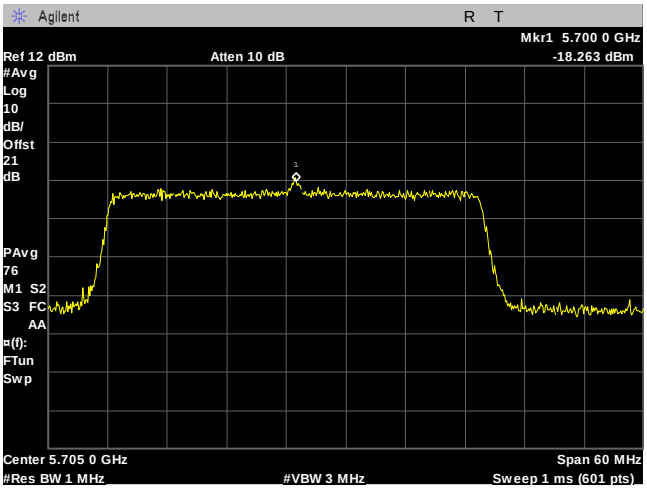



**Plot 404. Power Spectral Density, 3 Para, 40MHz, 5598MHz, Port 1**

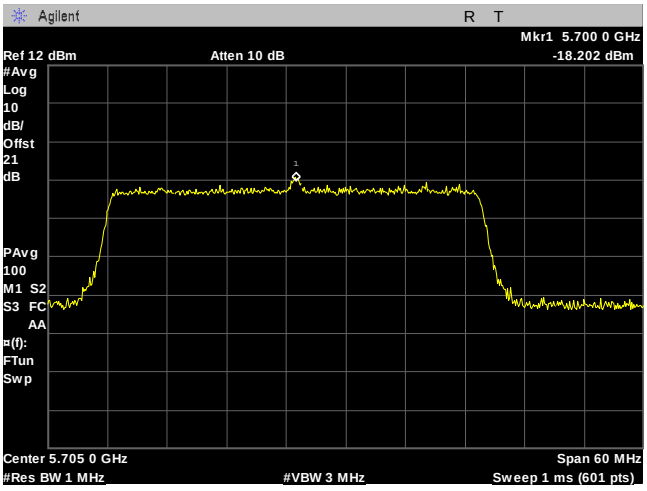
  




**Plot 405. Power Spectral Density, 3 Para, 40MHz, 5598MHz, Port 2**




**Plot 406. Power Spectral Density, 3 Para, 40MHz, 5700MHz, Port 1**




**Plot 407. Power Spectral Density, 3 Para, 40MHz, 5700MHz, Port 2**

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