



Measurement of RF Emissions from a Plano RF Module Model No. Plano Transmitter

For Horizon Hobby
4015 Fieldstone Road
Champaign, IL 61822

P.O. Number 20180416EH-01
Date Tested July 9 - 23, 2018
Test Personnel Tylar Jozefczyk
Test Specification FCC "Code of Federal Regulations" Title 47, Part 15,
Subpart C, Section 15.247 for Digital Modulation
Intentional Radiators Operating within the bands
902-928MHz, 2400-2483.5MHz, and 5725-
5850MHz
Industry Canada RSS-247

Test Report By:

Tylar Jozefczyk
EMC Engineer

Requested By:

Erin Hassan
Horizon Hobby

Approved By:

Raymond J. Klouda
Registered Professional
Engineer of Illinois - 44894

Elite Electronic Engineering Inc.

1516 CENTRE CIRCLE
DOWNERS GROVE, IL 60515

TEL: 630 - 495 - 9770

FAX: 630 - 495 - 9785

www.elltest.com

PARAGRAPH	DESCRIPTION OF CONTENTS	PAGE NO.
1.	Introduction.....	5
1.1.	Scope of Tests.....	5
1.2.	Purpose	5
1.3.	Deviations, Additions and Exclusions.....	5
1.4.	EMC Laboratory Identification	5
1.5.	Laboratory Conditions.....	5
2.	Applicable Documents.....	5
3.	EUT Setup and Operation	5
3.1.	General Description	5
3.1.1.	Power Input.....	6
3.1.2.	Grounding	6
3.2.	Operational Mode	6
3.3.	EUT Modifications.....	6
4.	Test Facility and Test Instrumentation	6
4.1.	Shielded Enclosure.....	6
4.2.	Test Instrumentation.....	6
4.3.	Calibration Traceability	7
4.4.	Measurement Uncertainty	7
5.	Test Procedures	7
5.1.	Powerline Conducted Emissions	7
5.1.1.	Requirements.....	7
5.2.	6dB Bandwidth.....	7
5.2.1.	Requirement.....	7
5.2.2.	Procedures.....	7
5.2.3.	Results	7
5.3.	Average Output Power	8
5.3.1.	Requirements.....	8
5.3.2.	Procedures.....	8
5.3.3.	Results	8
5.4.	Antenna Conducted Spurious Emissions	8
5.4.1.	Requirements.....	8
5.4.2.	Procedures.....	8
5.4.3.	Results	8
5.5.	Radiated Spurious Emissions Measurements.....	9
5.5.1.	Requirements.....	9
5.5.2.	Procedures.....	9
5.5.3.	Results	10
5.6.	Band Edge Compliance	10
5.6.1.	Requirement.....	10
5.6.2.	Procedures.....	10
5.6.2.1	Low Band Edge	10
5.6.2.2	High Band Edge.....	11

THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF ELITE ELECTRONIC ENGINEERING INCORPORATED.



TABLE OF CONTENTS		
PARAGRAPH	DESCRIPTION OF CONTENTS	PAGE NO.
5.6.3.	Results	11
5.7.	Power Spectral Density	11
5.7.1.	Requirements.....	11
5.7.2.	Procedures.....	11
5.7.3.	Results	12
6.	Other Test Conditions	12
6.1.	Test Personnel and Witnesses.....	12
6.2.	Disposition of the EUT	12
7.	Conclusions.....	12
8.	Certification.....	12
9.	Equipment List.....	13

THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE
WRITTEN APPROVAL OF ELITE ELECTRONIC ENGINEERING INCORPORATED.

REVISION HISTORY

Revision	Date	Description
—	28 August 2018	Initial release
A	10 July 2018 By TMJ	- Changed report number from 1801061-01 to 1801061-01 Rev. A throughout report. - Changed Model No. from DX9 to Plano throughout report. - Section 3.1.1 Corrected battery voltage from 7VDC to 6VDC.

Measurement of RF Emissions from a Plano RF Module, Model No. Plano Transmitter

1. INTRODUCTION

1.1. Scope of Tests

This report represents the results of the series of radio interference measurements performed on a Horizon Hobby Plano RF Module, Model No. Plano, transmitter (hereinafter referred to as the EUT). The EUT is a digital modulation transmitter. The transmitter was designed to transmit in the 2400-2483.5 MHz band using an external antenna. The EUT was manufactured and submitted for testing by Horizon Hobby located in Champaign, IL.

1.2. Purpose

The test series was performed to determine if the EUT meets the conducted and radiated RF emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Section 15.247 for Intentional Radiators. The test series was also performed to determine if the EUT meets the radiated RF emission requirements of the Industry Canada Radio Standards Specification, RSS-247, Section 5 for transmitters. Testing was performed in accordance with ANSI C63.4-2014.

1.3. Deviations, Additions and Exclusions

There were no deviations, additions to, or exclusions from the test specification during this test series.

1.4. EMC Laboratory Identification

This series of tests was performed by Elite Electronic Engineering Incorporated of Downers Grove, Illinois. The laboratory is accredited by The American Association for Laboratory Accreditation (A2LA). A2LA Certificate Number: 1786.01.

1.5. Laboratory Conditions

The temperature at the time of the test was 24°C and the relative humidity was 35%.

2. APPLICABLE DOCUMENTS

The following documents of the exact issue designated form part of this document to the extent specified herein:

- Federal Communications Commission "Code of Federal Regulations", Title 47, Part 15, Subpart C
- ANSI C63.4-2014, "American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz"
- Federal Communications Commission Office of Engineering and Technology Laboratory Division Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under Section 15.247, October 4, 2012
- Industry Canada Radio Standards Specification, RSS-247, "Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices", Issue 2, February 2017

3. EUT SETUP AND OPERATION

3.1. General Description

The EUT is a Horizon Hobby Plano RF Module, Model No. Plano. A block diagram of the EUT setup is shown as Figure 1.

3.1.1. Power Input

The EUT was powered by 6VDC from 4 AA batteries.

3.1.2. Grounding

The EUT was ungrounded during the tests.

3.2. Operational Mode

For all tests, the EUT was placed on an 80cm high non-conductive stand. The EUT was energized. The unit was programmed to operate in one of the following modes:

Mode	Description
DSM2	(Air protocol only.) The EUT is put in a fixed frequency mode, with the frequency sent either every 22ms or 11ms. It will transmit at one of the following frequencies: - 2402MHz - 2440MHz - 2478MHz (Surface protocol only.) The EUT is put in a fixed frequency mode, with the frequency sent every 16.5ms. It will transmit at one of the following frequencies: - 2405MHz - 2440MHz - 2478MHz
DSMX	(Air protocol only.) The EUT is put in a fixed frequency mode, with the frequency sent either every 22ms or 11ms. It will transmit at one of the following frequencies: - 2404MHz - 2440MHz - 2476MHz
DSMR	(Surface protocol only.) The EUT is put in a fixed frequency mode, with the frequency sent either every 11ms or 5.5ms. It will transmit at one of the following frequencies: - 2405MHz - 2440MHz - 2478MHz

3.3. EUT Modifications

No modifications were required for compliance to FCC Part 15, Subpart C, Section 15.247.

4. TEST FACILITY AND TEST INSTRUMENTATION

4.1. Shielded Enclosure

All tests were performed in a 32ft. x 20ft. x 18ft. hybrid ferrite-tile/anechoic absorber lined test chamber. With the exception of the floor, the reflective surfaces of the shielded chamber are lined with ferrite tiles on the walls and ceiling. Anechoic absorber material is installed over the ferrite tile. The floor of the chamber is used as the ground plane. The chamber complies with ANSI C63.4-2014 for site attenuation.

4.2. Test Instrumentation

The test instrumentation and auxiliary equipment used during the tests are listed in Table 9-1.

Conducted and radiated emission measurements were performed with a spectrum analyzer. This receiver allows measurements with the bandwidths and detector functions specified in the requirements. The receiver

bandwidth was 120kHz for the 30MHz to 1000MHz radiated emissions data and 1MHz for the 1000MHz to 5000MHz radiated emissions data.

4.3. Calibration Traceability

Test equipment is maintained and calibrated on a regular basis with a calibration interval of not greater than two years. All calibrations are traceable to the National Institute of Standards and Technology (NIST).

4.4. Measurement Uncertainty

All measurements are an estimate of their true value. The measurement uncertainty characterizes, with a specified confidence level, the spread of values which may be possible for a given measurement system.

Values of Expanded Measurement Uncertainty (95% Confidence) are presented below:

Measurement Type	Expanded Measurement Uncertainty
Conducted disturbance (mains port) (150 kHz – 30 MHz)	2.7
Radiated disturbance (electric field strength on an open area test site or alternative test site) (30 MHz – 1000 MHz)	4.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (1 GHz – 6 GHz)	3.1
Radiated disturbance (electric field strength on an open area test site or alternative test site) (6 GHz – 18 GHz)	3.2

5. TEST PROCEDURES

5.1. Powerline Conducted Emissions

5.1.1. Requirements

Since the EUT was powered by internal batteries and had no connections to AC power, no conducted emissions tests are required.

5.2. 6dB Bandwidth

5.2.1. Requirement

Per 15.247(a)(2), the minimum 6dB bandwidth shall be at least 500kHz for all systems using digital modulation techniques.

5.2.2. Procedures

The output of the EUT was connected to the spectrum analyzer through 40dB of attenuation.

The EUT was allowed to transmit continuously. The transmit channel was set separately to low, middle, and high channels. The resolution bandwidth (RBW) was set to 100kHz and the span was set to greater than the RBW.

The 'Max-Hold' function was engaged. The analyzer was allowed to scan until the envelope of the transmitter bandwidth was defined. The analyzer's display was plotted using a 'screen dump' utility.

5.2.3. Results

The plots on pages 20 through 60 show that the minimum 6 dB bandwidth was 732.67kHz, which is greater than the minimum allowable 6dB bandwidth requirement of 500kHz for systems using digital modulation techniques. The 99% bandwidth was measured to be 1.465MHz.

5.3. Average Output Power

5.3.1. Requirements

Per section 15.247(b)(3), for systems using digital modulation the maximum average output conducted power shall not be greater than 1.0W (30dBm). Per section 15.247(b)(4), this limit is based on the use of antennas with directional gains that do not exceed 6dBi. Since the limit allows for a 6dBi antenna gain, the maximum EIRP can be increased by 6dB to 4 Watt (36dBm).

5.3.2. Procedures

For the antenna conducted emissions method, the output of the EUT was connected to the spectrum analyzer through 40dB of attenuation. The maximum meter reading was recorded. The average power output was calculated for the low, middle and high channels.

The output of the EUT was connected to the spectrum analyzer through 40dB of attenuation. The EUT was set to transmit separately at the low, middle, and high channels. The resolution bandwidth (RBW) was set to greater than the 6dB bandwidth. The 'Max-Hold' function was engaged. The maximum meter reading was recorded. The average power output was calculated for the low, middle and high channels.

For the radiated emissions method, the EUT was placed on the non-conductive stand and set to transmit. A double ridged waveguide antenna was placed at a test distance of 3 meters from the EUT. The resolution bandwidth (RBW) of the spectrum analyzer was set to greater than the 6dB bandwidth. The EUT was maximized for worst case emissions (or maximum output power) at the measuring antenna. The maximum meter reading was recorded. The average power output was measured for the low, middle and high channels.

The equivalent power was determined from the field intensity levels measured at 3 meters using the substitution method. To determine the emission power, a second double ridged waveguide antenna was then set in place of the EUT and connected to a calibrated signal generator. The output of the signal generator was adjusted to match the received level at the spectrum analyzer. The signal level was recorded. The reading was then corrected to compensate for cable loss and antenna gain, as required. The average power output was calculated for low, middle, and high hopping frequencies.

5.3.3. Results

For the antenna conducted emissions method, the results are presented on pages 61 through 102. The maximum average conducted output power from the transmitter was 0.512W (27.1dBm), which is below the 1 Watt limit.

For the radiated emissions method, the results are presented on pages 103 and 104. The maximum EIRP measured from the transmitter was 0.144W (21.6dBm), which is below the 4 Watt limit.

5.4. Antenna Conducted Spurious Emissions

5.4.1. Requirements

Per section 15.247(c), the spurious emissions in any 100 kHz BW outside the frequency band must be at least 20dB below the highest 100 kHz BW level measured within the band.

5.4.2. Procedures

The output of the EUT was connected to the spectrum analyzer through 40dB of attenuation. The resolution bandwidth (RBW) was set to 100kHz. The peak detector and 'Max-Hold' function were engaged. The emissions in the frequency range from 30MHz to 25GHz were observed and plotted separately with the EUT transmitting at low, middle and high channels.

5.4.3. Results

The results of the antenna conducted emissions levels were plotted. These plots are presented on pages 105 through 146. These plots show that the spurious emissions were at least 30dB below the level of the

fundamental.

5.5. Radiated Spurious Emissions Measurements

5.5.1. Requirements

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Paragraph 15.209(a) has the following radiated emission limits:

Frequency MHz	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	3
30.0-88.0	100	3
88.0-216.0	150	3
216.0-960.0	200	3
Above 960	500	3

5.5.2. Procedures

All tests were performed in a 32ft. x 20ft. x 18ft. hybrid ferrite-tile/anechoic absorber lined test chamber. The walls and ceiling of the shielded chamber are lined with ferrite tiles. Anechoic absorber material is installed over the ferrite tile. The floor of the chamber is used as the ground plane. The chamber complies with ANSI C63.4-2014 for site attenuation.

The shielded enclosure prevents emissions from other sources, such as radio and TV stations from interfering with the measurements. All powerlines and signal lines entering the enclosure pass through filters on the enclosure wall. The powerline filters prevent extraneous signals from entering the enclosure on these leads.

Preliminary radiated emissions tests were performed to determine the emission characteristics of the EUT. For the preliminary test, a broadband measuring antenna was positioned at a 3 meter distance from the EUT. The entire frequency range from 30MHz to 25GHz was investigated using a peak detector function.

The final open field emission tests were then manually performed over the frequency range of 30MHz to 25GHz.

- 1) For all harmonics not in the restricted bands, the following procedure was used:
 - a) The field strength of the fundamental was measured using a double ridged waveguide antenna. The waveguide antenna was positioned at a 3 meter distance from the EUT. An average detector with a resolution bandwidth of 100 kHz was used on the spectrum analyzer.
 - b) The field strengths of all of the harmonics not in the restricted band were then measured using a double-ridged waveguide antenna. The waveguide antenna was positioned at a 3 meter distance from the EUT. An average detector with a resolution bandwidth of 100 kHz was used on the spectrum analyzer.
 - c) To ensure that maximum or worst case emission levels at the fundamental and harmonics were measured, the following steps were taken when measuring the fundamental emissions and the spurious emissions:
 - i) The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - ii) Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
 - iii) The measuring antenna was raised and lowered for each antenna polarization to maximize the readings.
 - iv) In instances where it was necessary to use a shortened cable between the measuring antenna

and the spectrum analyzer, the measuring antenna was not raised or lowered to ensure maximized readings. Instead the EUT was rotated through all axes to ensure the maximum readings were recorded for the EUT.

- d) All harmonics not in the restricted bands must be at least 30 dB below levels measured at the fundamental. However, attenuation below the general limits specified in §15.209(a) is not required.
- 2) For all emissions in the restricted bands, the following procedure was used:
- a) The field strengths of all emissions below 1 GHz were measured using a bi-log antenna. The bi-log antenna was positioned at a 3 meter distance from the EUT. A peak detector with a resolution bandwidth of 100 kHz was used on the spectrum analyzer.
 - b) The field strengths of all emissions above 1 GHz were measured using a double-ridged waveguide antenna. The waveguide antenna was positioned at a 3 meter distance from the EUT. A peak detector with a resolution bandwidth of 1 MHz was used on the spectrum analyzer.
 - c) To ensure that maximum or worst case emission levels were measured, the following steps were taken when taking all measurements:
 - i) The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - ii) Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
 - iii) The measuring antenna was raised and lowered for each antenna polarization to maximize the readings.
 - iv) In instances where it was necessary to use a shortened cable between the measuring antenna and the spectrum analyzer, the measuring antenna was not raised or lowered to ensure maximized readings. Instead the EUT was rotated through all axes to ensure the maximum readings were recorded for the EUT.
 - d) For all radiated emissions measurements below 1 GHz, if the peak reading is below the limits listed in 15.209(a), no further measurements are required. If however, the peak readings exceed the limits listed in 15.209(a), then the emissions are remeasured using a quasi-peak detector.
 - e) For all radiated emissions measurements above 1 GHz, the peak readings must comply with the 15.35(b) limits. 15.35(b) states that when average radiated emissions measurements are specified, there also is a limit on the peak level of the radiated emissions. The limit on the peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test. Therefore, all peak readings above 1 GHz must be no greater than 20 dB above the limits specified in 15.209(a).
 - f) Next, for all radiated emissions measurements above 1GHz, the resolution bandwidth was set to 1MHz. The analyzer was set to linear mode with a 10Hz video bandwidth in order to simulate an average detector. An average reading was taken.

5.5.3.Results

Preliminary radiated emissions plots are shown on pages 147 through 194. Final radiated emissions data are presented on data pages 195 through 212. As can be seen from the data, all emissions measured from the EUT were within the specification limits. The emissions level closest to the limit (worst case) occurred at 7434MHz. The emissions level at this frequency was 5.5dB within the limit. Photographs of the test configuration which yielded the highest (or worst case) radiated emission levels are shown as Figures 2 through 4.

5.6. Band Edge Compliance

5.6.1.Requirement

Per section 15.247(d), the emissions at the band edges must be at least 30dB below the highest level measured within the band, but attenuation below the general limits listed in 15.209(a) is not required.

5.6.2.Procedures

5.6.2.1 Low Band Edge

- 1) The output of the EUT was connected to the spectrum analyzer through 40dB of attenuation.

- 2) The EUT was set to transmit continuously at the channel closest to the low band-edge.
- 3) To determine the band edge compliance, the following spectrum analyzer settings were used:
 - a) Center frequency = low band-edge frequency.
 - b) Span = Wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation.
 - c) Resolution bandwidth (RBW) $\geq 1\%$ of the span.
 - d) The 'Max-Hold' function was engaged. The analyzer was allowed to scan until the envelope of the transmitter bandwidth was defined.
 - e) The marker was set on the peak of the in-band emissions. A display line was placed 30dB down from the peak of the in-band emissions. All emissions which fall outside of the authorized band of operation must be below the 30dB down display line. (All emissions to the left of the center frequency (band-edge) must be below the display line.)
 - f) The analyzer's display was plotted using a 'screen dump' utility.

5.6.2.2 High Band Edge

- 1) The EUT was setup inside the test chamber on a non-conductive stand.
- 2) A broadband measuring antenna was placed at a test distance of 3 meters from the EUT.
- 3) The EUT was maximized for worst case emissions at the measuring antenna. A peak reading was taken with a resolution bandwidth of 1MHz and a video bandwidth of 1MHz or greater. An average reading was then taken with receiver set to an average detector. The maximum peak and average meter readings were recorded.

5.6.3.Results

Pages 213 through 226 show the low end band edge compliance results for conducted measurements. Pages 227 and 228 show the high end band edge compliance results for radiated measurements. As can be seen from these plots, the conducted emissions at the low end band edge are within the 30dB down limits. The radiated emissions at the high end band edge are within the general limits.

5.7. Power Spectral Density

5.7.1.Requirements

Per section 15.247(d), the average power spectral density from the intentional radiator shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.7.2.Procedures

- 1) The output of the EUT was connected to the spectrum analyzer through 30dB of attenuation.
- 2) The EUT was set to transmit at a mid-channel.
- 3) To determine the power spectral density, the following spectrum analyzer settings were used:
 - a) Center frequency = transmit frequency
 - b) Resolution bandwidth (RBW) ≥ 20 dB bandwidth.
 - c) Sweep time = auto
 - d) The average detector and 'Max-Hold' function was engaged. The analyzer was allowed to scan until the envelope of the transmitter bandwidth was defined.
 - e) The analyzer's display was plotted using a 'screen dump' utility.
- 4) This reading corresponds to the average EIRP measured for the mid channel.
- 5) Turn on Display Line 1 and place it at the peak of the measured level. Turn on Display Line 2 and place it at the corresponding +8dBm level (e.g. if the average output power is +18dBm then the +8dBm level will be 10dB down from the radiated level and if the average output power is +6dBm then the +8dBm level will be 2dB above the radiated level.)
- 6) The EUT was then placed in the normal operation mode.
- 7) To determine the power spectral density, the following spectrum analyzer settings were used:
 - a) Center frequency = transmit frequency
 - b) Span = 1.5x the channel bandwidth

- c) Resolution bandwidth (RBW) $\geq 3\text{kHz}$
- d) Video bandwidth (VBW) $\geq 3 \times \text{RBW}$
- e) Sweep time = auto couple
- f) The analyzer was allowed to scan until the envelope of the transmitter bandwidth was defined. The peak detector and 'Max-Hold' function was engaged.
- g) The analyzer's display was plotted using a 'screen dump' utility.
- h) If the measured value exceeds the +8dBm limit, reduce the RBW (no less than 3kHz) and repeat step (7).

5.7.3. Results

Pages 229 through 270 show the power spectral density results. As can be seen from the plots, the average power density is less than 8dBm in a 3kHz band during any time interval of continuous transmission.

6. OTHER TEST CONDITIONS

6.1. Test Personnel and Witnesses

All tests were performed by qualified personnel from Elite Electronic Engineering Incorporated.

6.2. Disposition of the EUT

The EUT and all associated equipment were returned to Horizon Hobby upon completion of the tests.

7. CONCLUSIONS

It was determined that the Horizon Hobby Plano RF Module, Model No. Plano, digital modulation transmitter did fully meet the conducted and radiated emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Section 15.247 for Intentional Radiators Operating within the 2400-2483.5 MHz band, when tested per ANSI C63.4-2014.

It was also determined that the Horizon Hobby Plano RF Module, Model No. Plano, digital modulation transmitter did fully meet the radiated RF emission requirements of the Industry Canada Radio Standards Specification, RSS-247 Section 5 for transmitters when tested per ANSI C63.4-2014.

8. CERTIFICATION

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the test specifications.

The data presented in this test report pertains to the EUT at the test date. Any electrical or mechanical modification made to the EUT subsequent to the specified test date will serve to invalidate the data and void this certification.

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



9. EQUIPMENT LIST

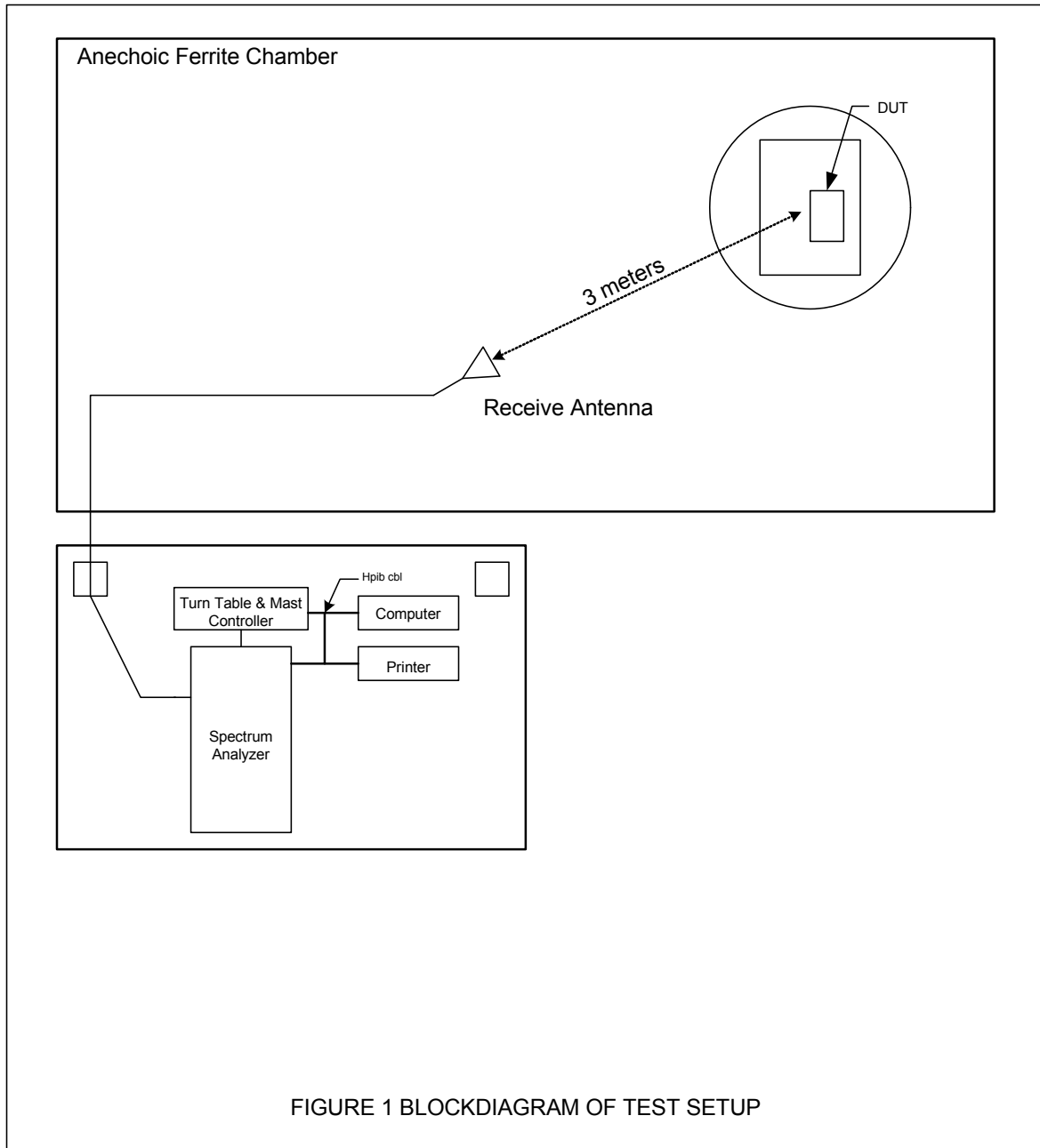
Table 9-1 Equipment List

Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
APW0	PREAMPLIFIER	PLANAR ELECTRONICS	PE2-30-20G20R6G	PL2926/0646	20GHZ-26.5GHZ	4/5/2018	4/5/2019
APW11	PREAMPLIFIER	PMI	PE2-35-120-5R0-10-12-SFF	PL11685/1241	1GHZ-20GHZ	4/5/2018	4/5/2019
CDX5	COMPUTER	ELITE	WORKSTATION			N/A	
CDY0	WORKSTATION	ELITE	WORKSTATION		WINDOWS 7	N/A	
GSF0	VECTOR SIGNAL GENERATOR	ROHDE & SCHWARZ	SMBV100A	260452	9kHz to 6GHz	9/20/2017	9/20/2018
GSFA	OSP-B157 OSP MODULE	ROHDE & SCHWARZ	OSP-B157	100867		10/10/2017	10/10/2018
GSFB	OSP120 BASE UNIT	ROHDE & SCHWARZ	OSP120	101246	---	10/10/2017	10/10/2018
NHG0	STANDARD GAIN HORN ANTENNA	NARDA	638	---	18-26.5GHZ	NOTE 1	
NTA4	BILOG ANTENNA	TESEQ	6112D	46660	20-2000GHZ	8/18/2017	8/18/2018
NWQ1	DOUBLE RIDGED WAVEGUIDE ANTENNA	ETS-LINDGREN	3117	66655	1GHZ-18GHZ	4/10/2018	4/10/2020
RBG0	EMI ANALYZER	ROHDE & SCHWARZ	ESW44	101533	10HZ-44GHZ	12/7/2017	12/7/2018
RBG3	EMI ANALYZER	ROHDE & SCHWARZ	ESW44	101592	2HZ-44GHZ	2/20/2018	2/20/2019
SES0	24VDC POWER SUPPLY	P-TRANS	FS-32024-1M	001	18-27VDC	NOTE 1	
WKA1	SOFTWARE, UNIVERSAL RCV EMI	ELITE	UNIV_RCV_EMI	1	---	I/O	
XPQ4	HIGH PASS FILTER	K&L MICROWAVE	11SH10-4800/X20000 O/O	1	4.8-20GHZ	9/12/2017	9/12/2019

I/O: Initial Only

N/A: Not Applicable

Note 1: For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.



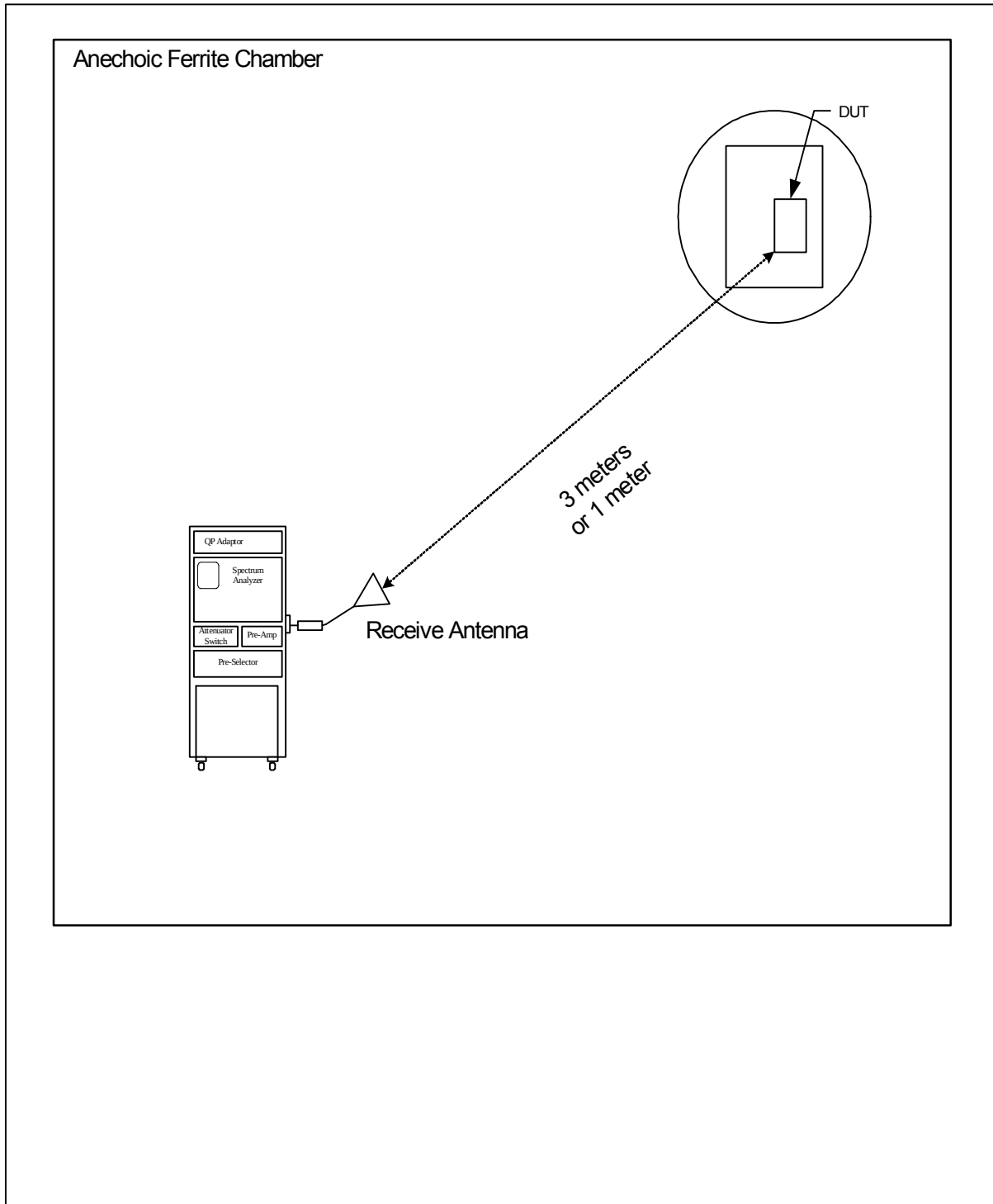


Figure 2



Test Setup for Radiated Emissions, 30MHz to 1GHz – Horizontal Polarization



Test Setup for Radiated Emissions, 30MHz to 1GHz – Vertical Polarization

Figure 3



Test Setup for Radiated Emissions, 1 to 18GHz – Horizontal Polarization



Test Setup for Radiated Emissions, 1 to 18GHz – Vertical Polarization

Figure 4



Test Setup for Radiated Emissions, 18 to 25GHz – Horizontal Polarization



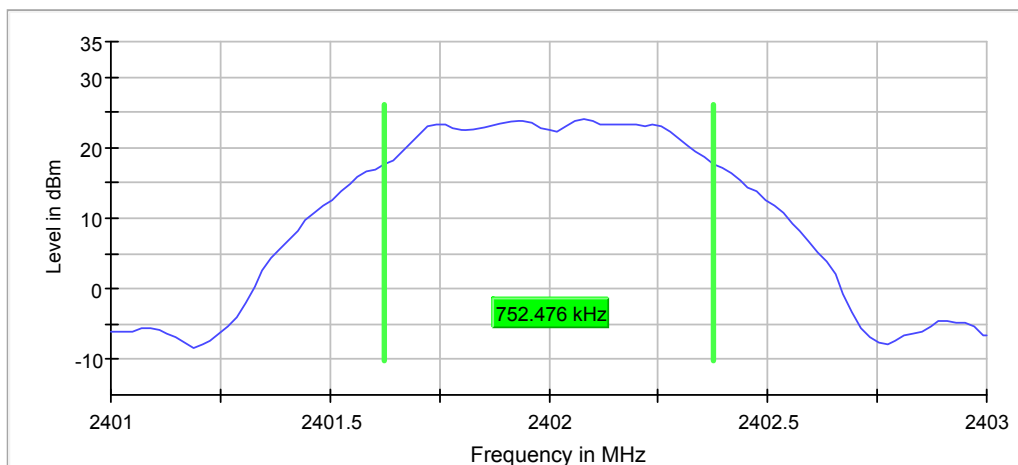
Test Setup for Radiated Emissions, 18 to 25GHz – Vertical Polarization

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 22ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

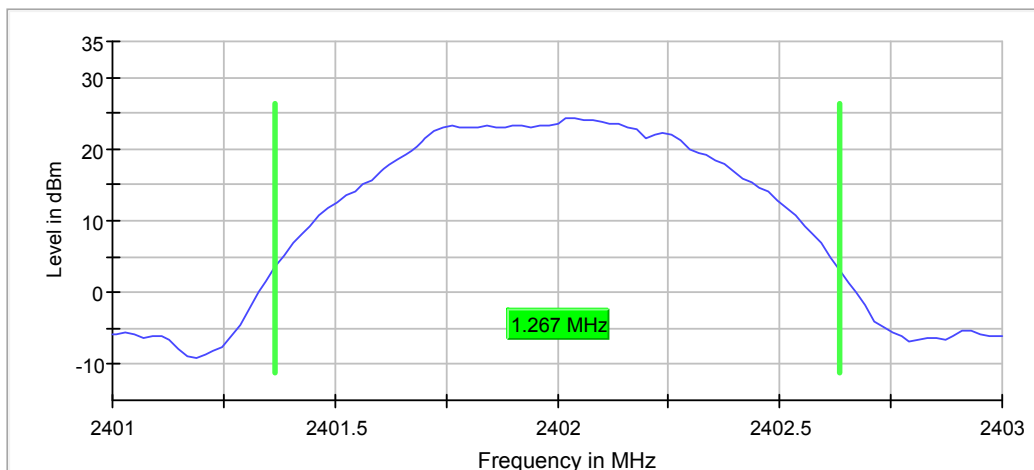
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	0.752476	0.500000	---	2401.623762	2402.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	1.267326	---	---	2401.366337	2402.633663	24.2	Pass

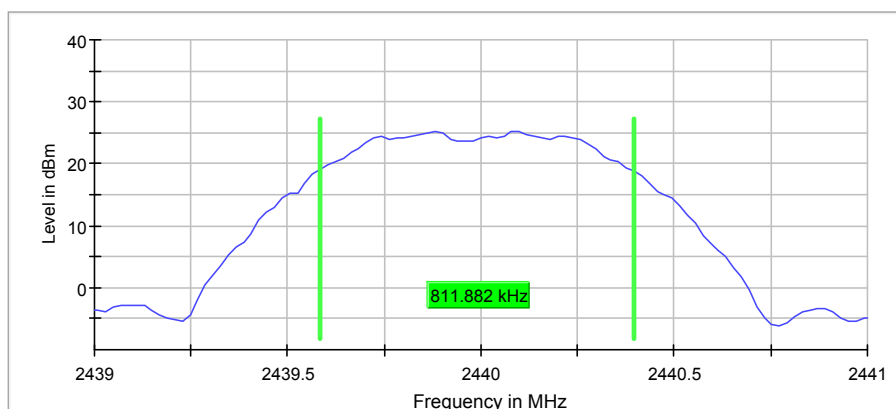


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 22ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

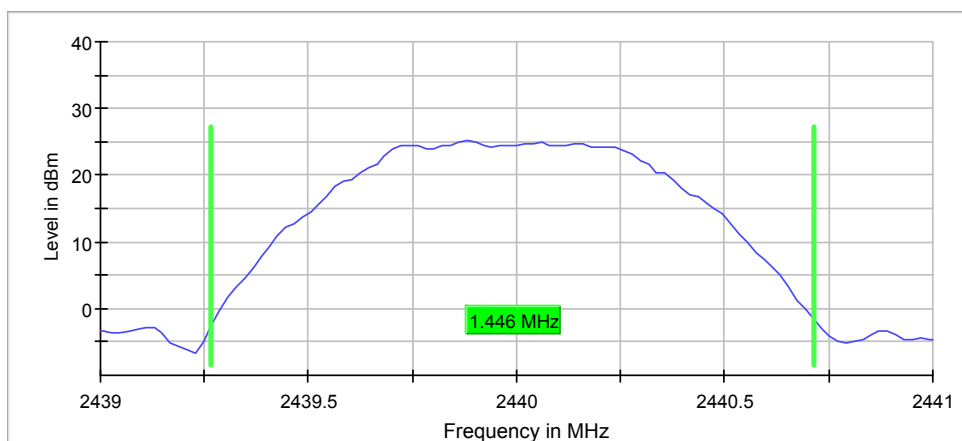
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.811882	0.500000	---	2439.584158	2440.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.445544	---	---	2439.267327	2440.712871	25.2	Pass

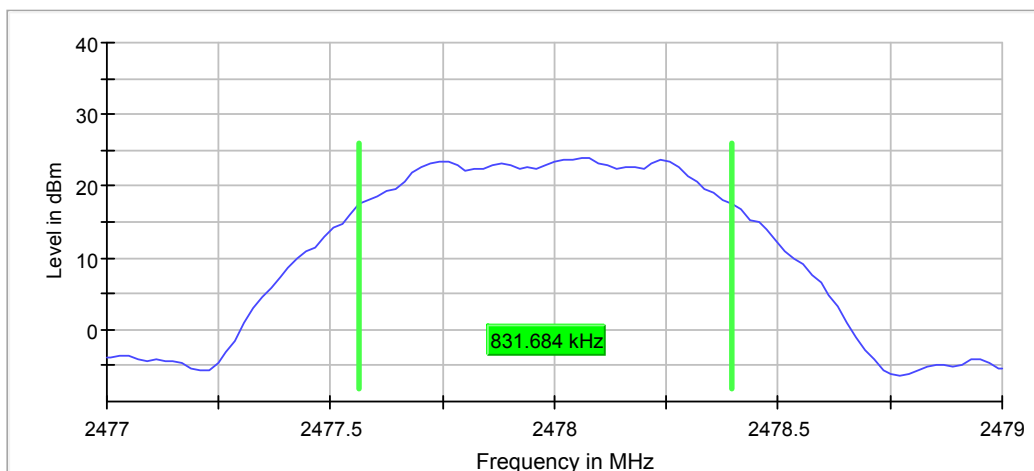


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 22ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

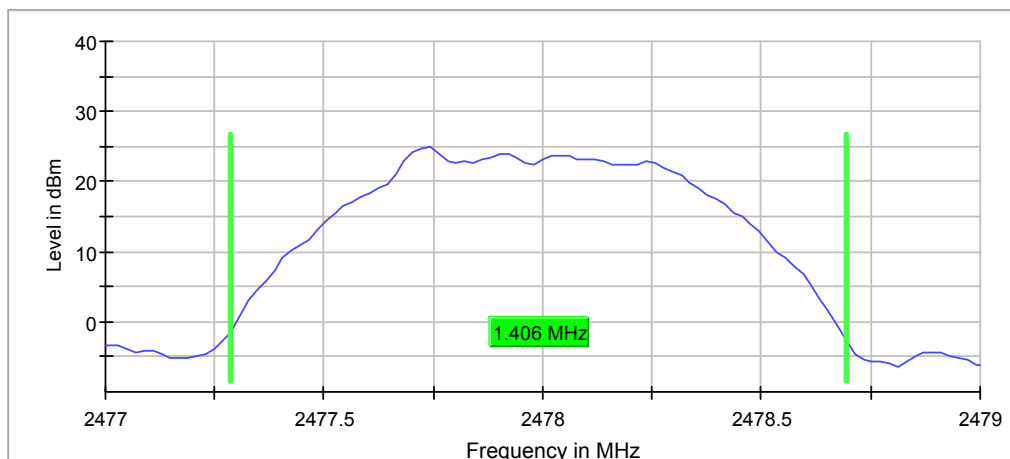
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	0.831684	0.500000	---	2477.564356	2478.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	1.405940	---	---	2477.287129	2478.693069	24.8	Pass

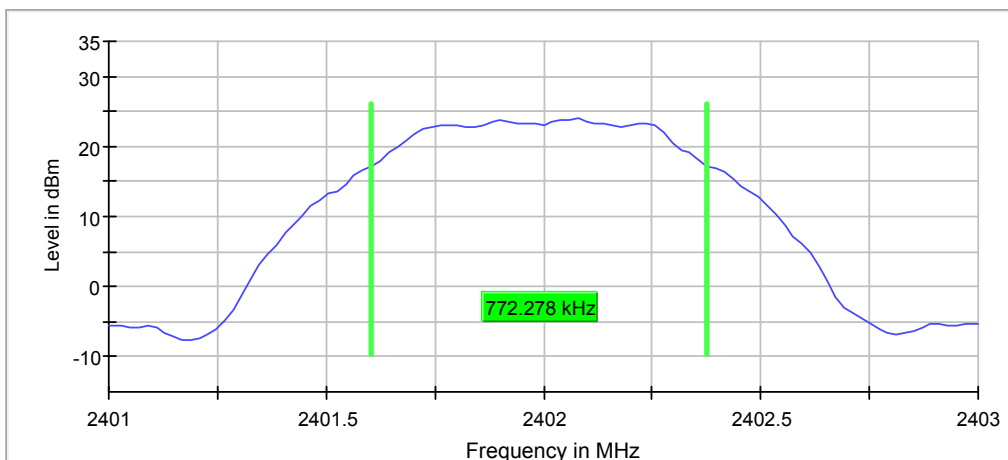


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 11ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

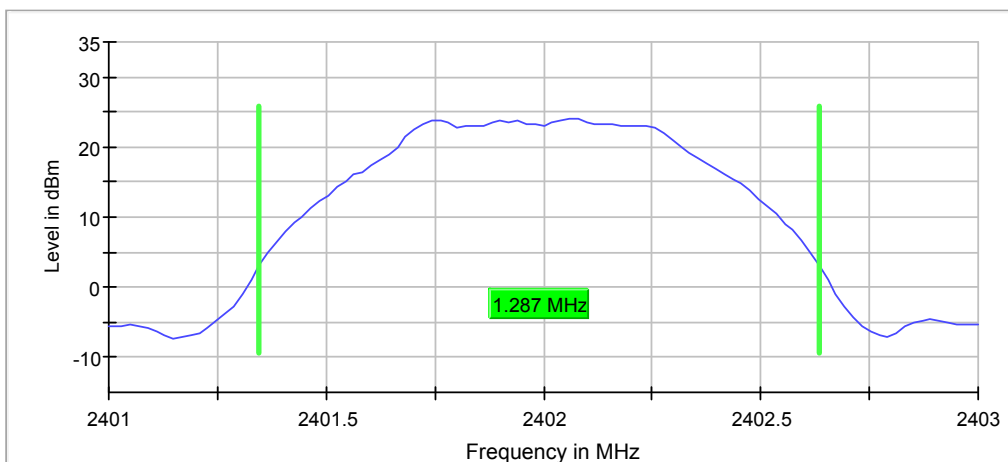
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	0.772278	0.500000	---	2401.603960	2402.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	1.287128	---	---	2401.346535	2402.633663	23.9	Pass

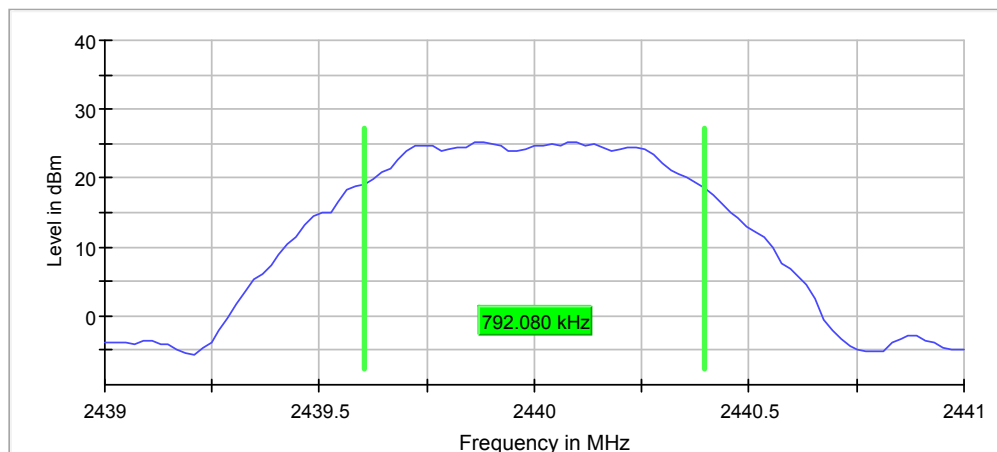


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

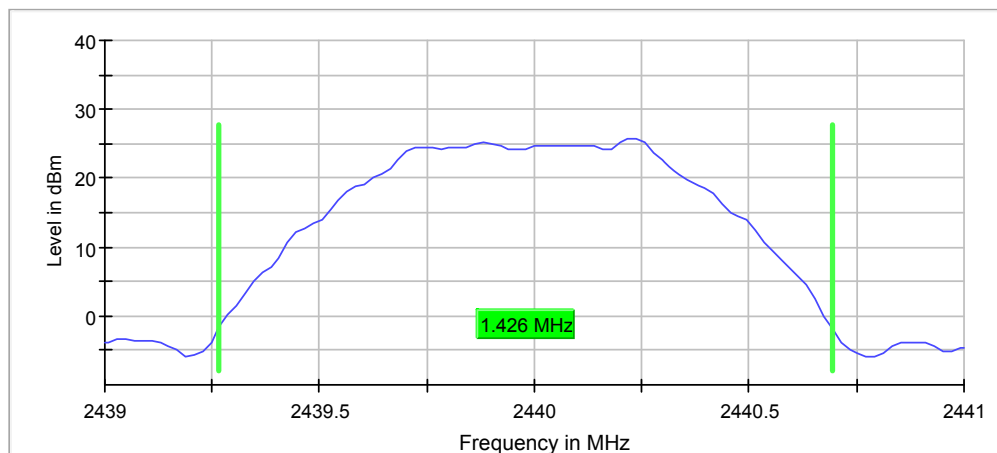
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.792080	0.500000	---	2439.603960	2440.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.425742	---	---	2439.267327	2440.693069	25.7	Pass

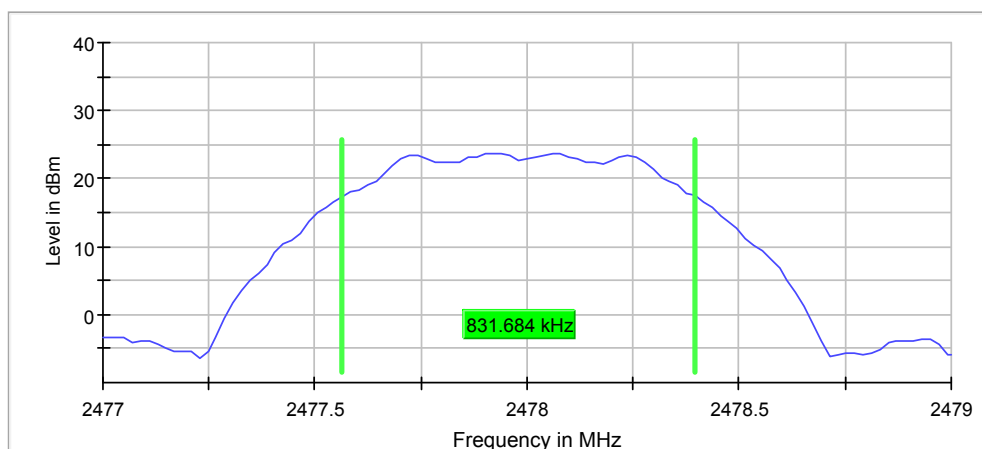


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 11ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

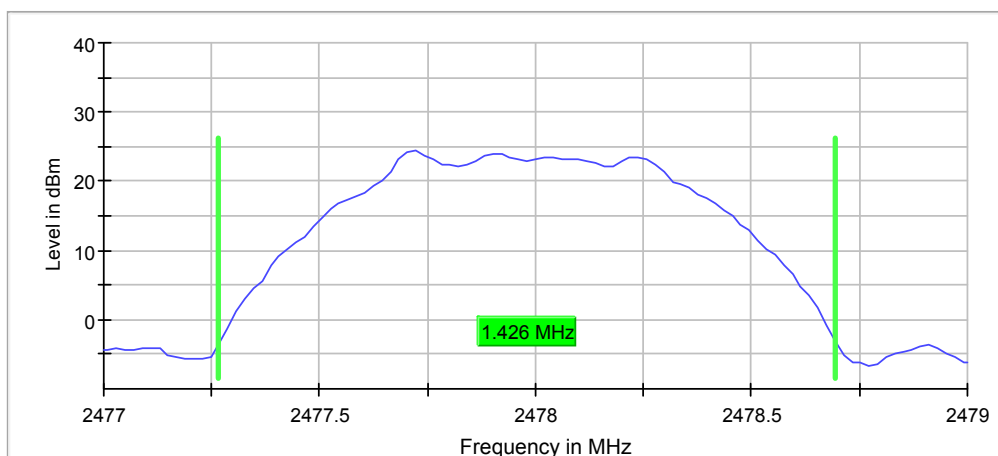
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	0.831684	0.500000	---	2477.564356	2478.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	1.425742	---	---	2477.267327	2478.693069	24.3	Pass

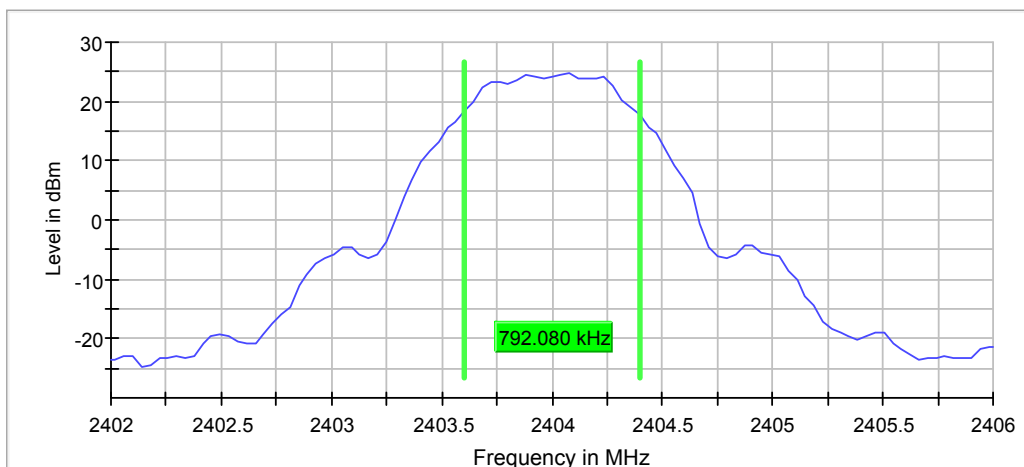


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 22ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

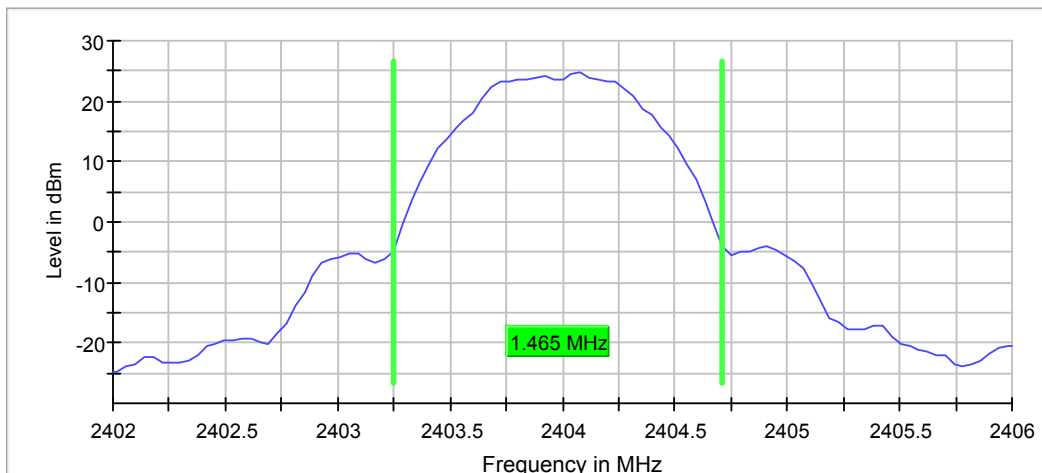
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2404.000000	0.792080	0.500000	---	2403.603960	2404.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2404.000000	1.465346	---	---	2403.247525	2404.712871	24.7	Pass

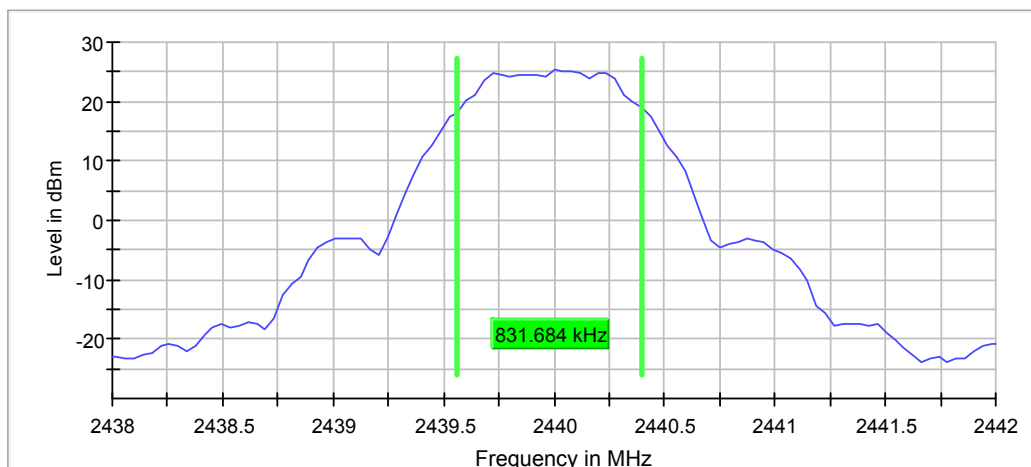


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 22ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

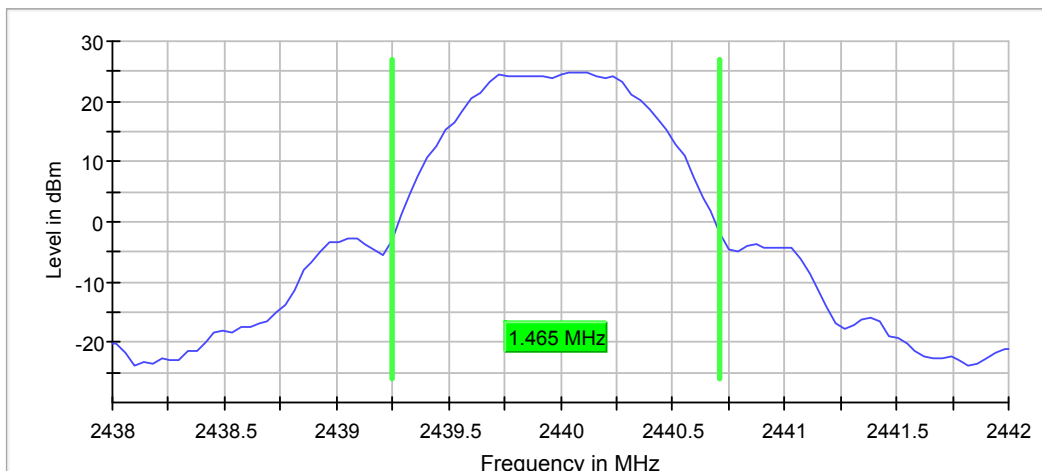
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.831684	0.500000	---	2439.564356	2440.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.465346	---	---	2439.247525	2440.712871	24.9	Pass

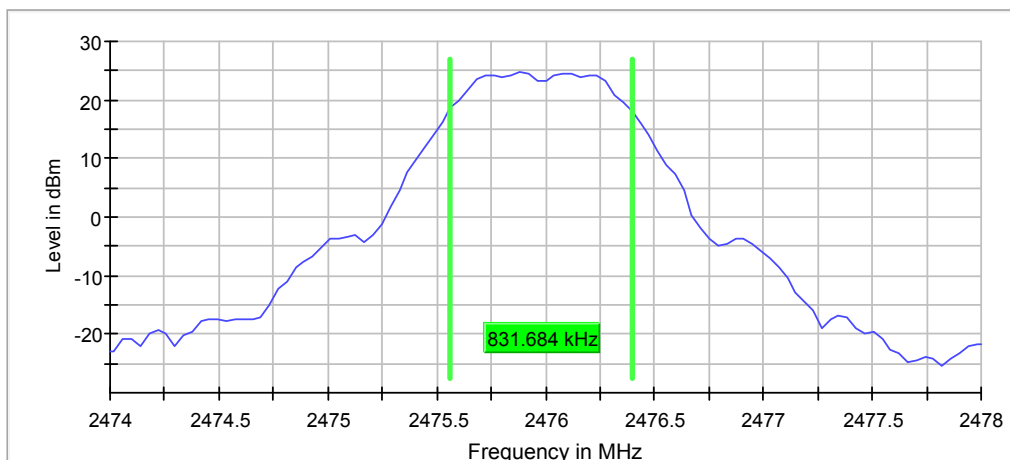


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 22ms – 2476MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

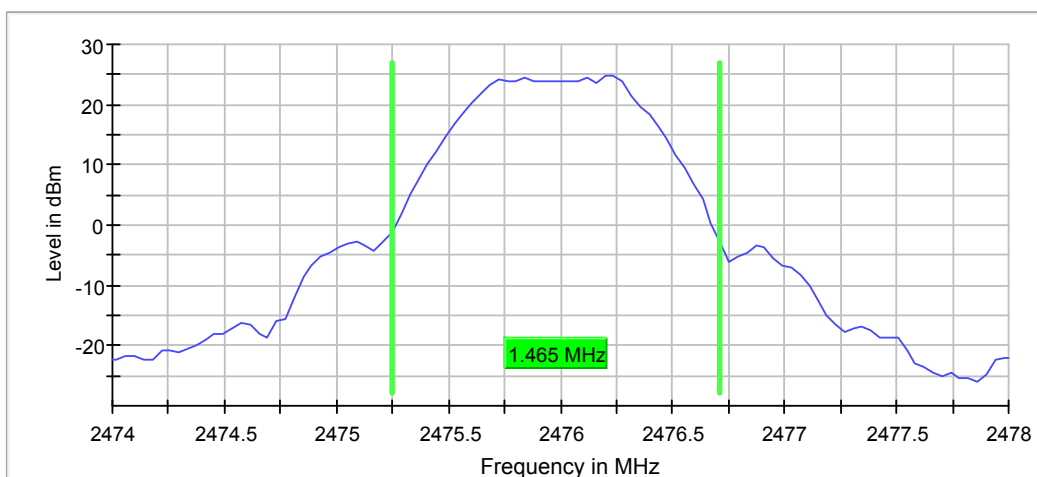
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2476.000000	0.831684	0.500000	---	2475.564356	2476.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2476.000000	1.465346	---	---	2475.247525	2476.712871	24.8	Pass

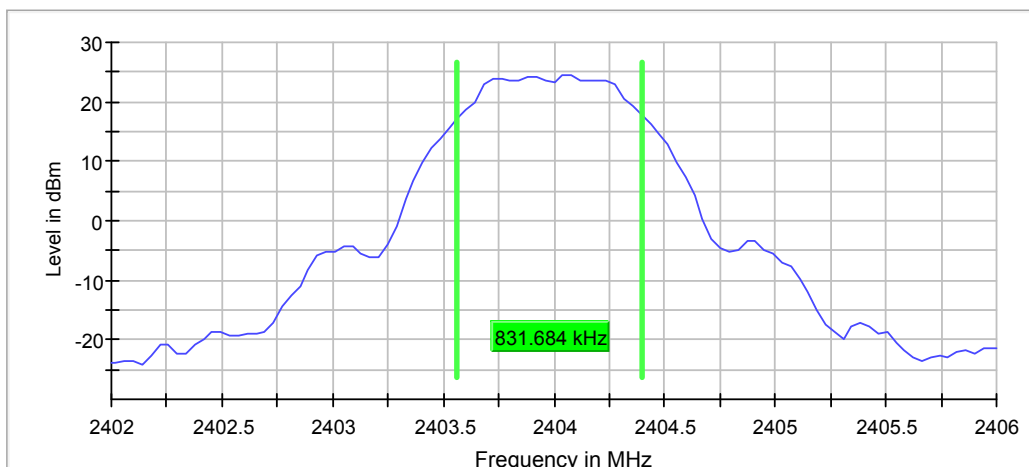


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 11ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

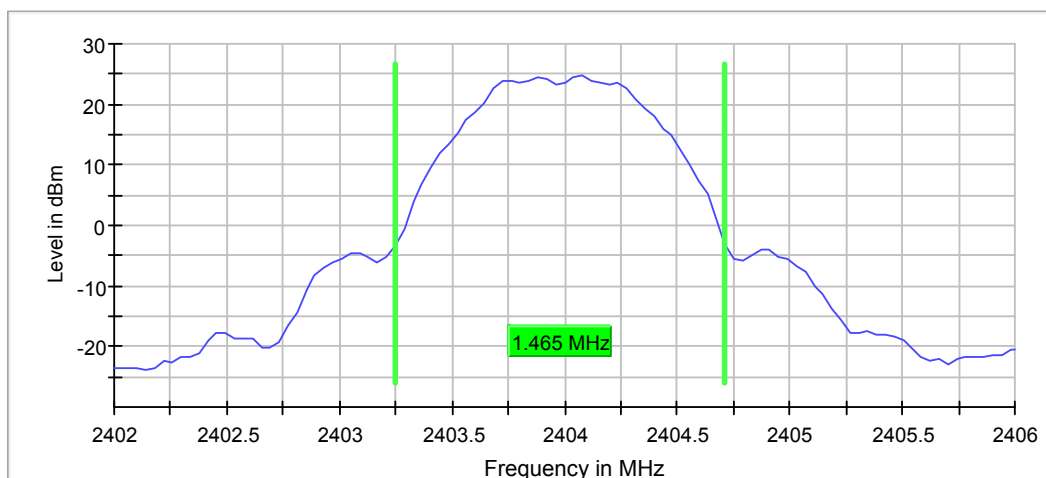
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2404.000000	0.831684	0.500000	---	2403.564356	2404.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2404.000000	1.465346	---	---	2403.247525	2404.712871	24.7	Pass

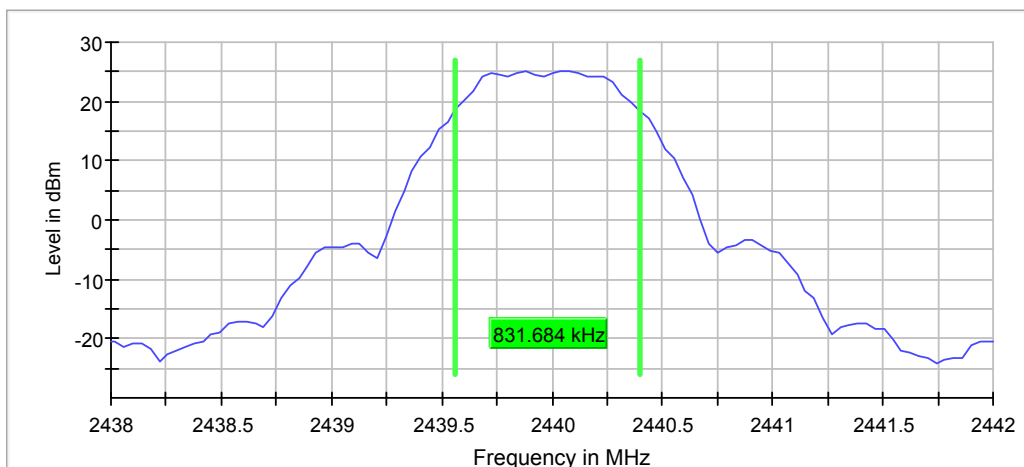


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

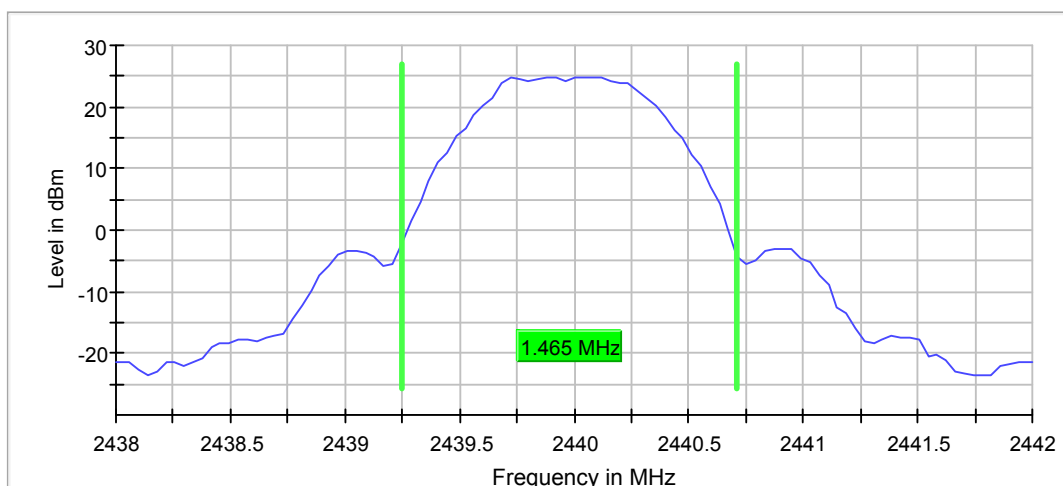
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.831684	0.500000	---	2439.564356	2440.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.465346	---	---	2439.247525	2440.712871	24.9	Pass

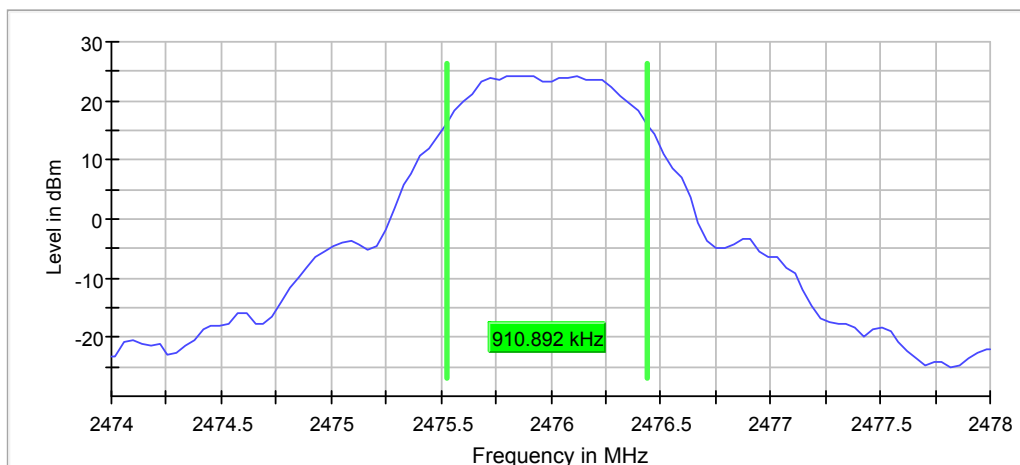


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 11ms – 2476MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

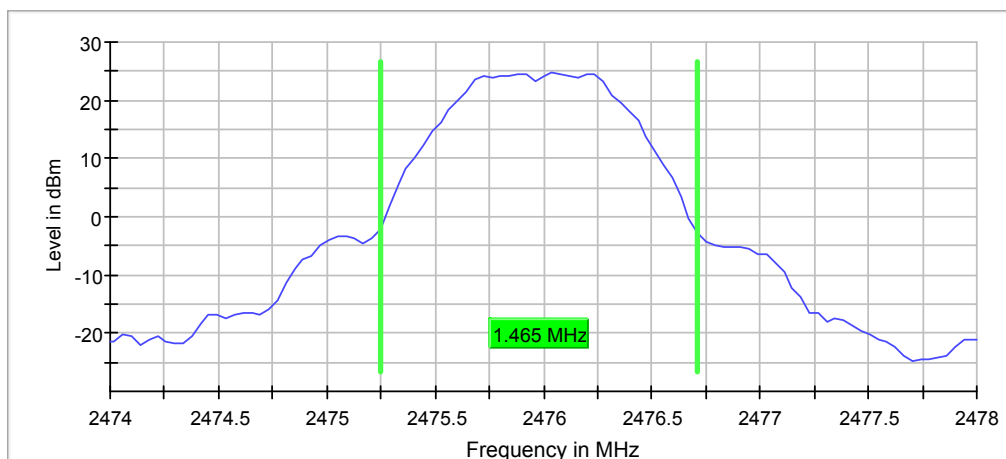
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2476.000000	0.910892	0.500000	---	2475.524752	2476.435644	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2476.000000	1.465346	---	---	2475.247525	2476.712871	24.6	Pass

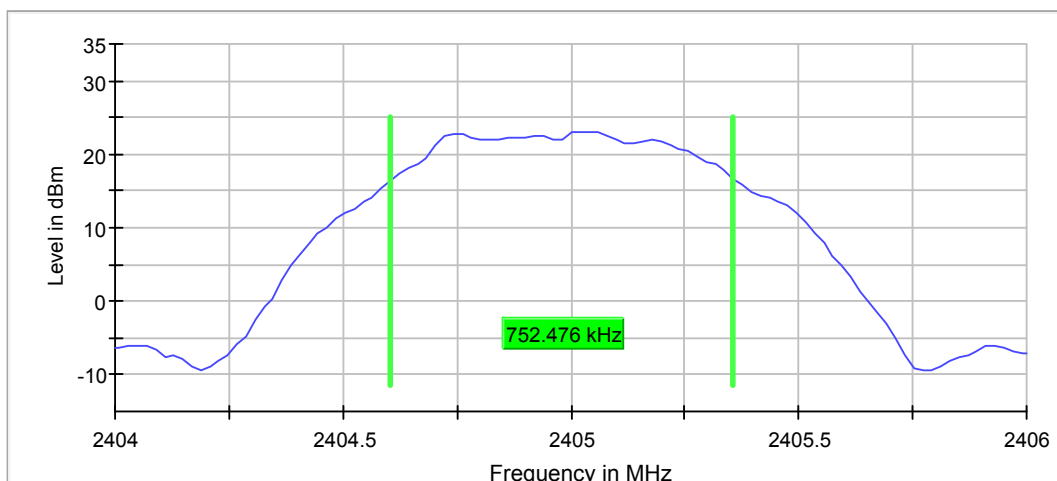


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 11ms – 2405MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

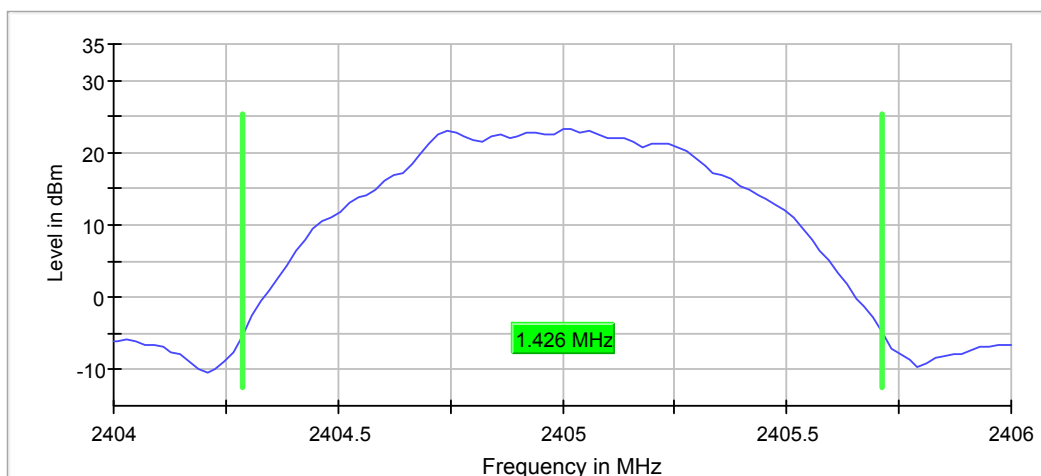
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2405.000000	0.752476	0.500000	---	2404.603960	2405.356436	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2405.000000	1.425742	---	---	2404.287129	2405.712871	23.2	Pass

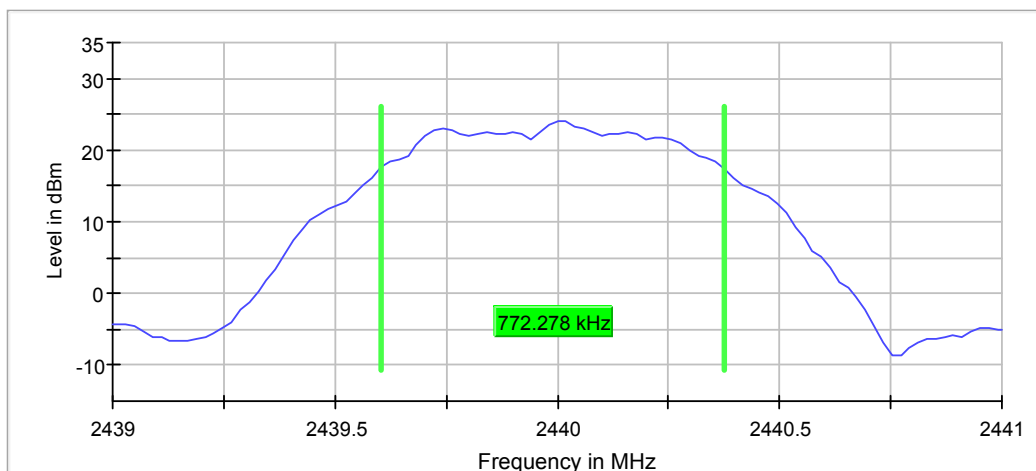


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

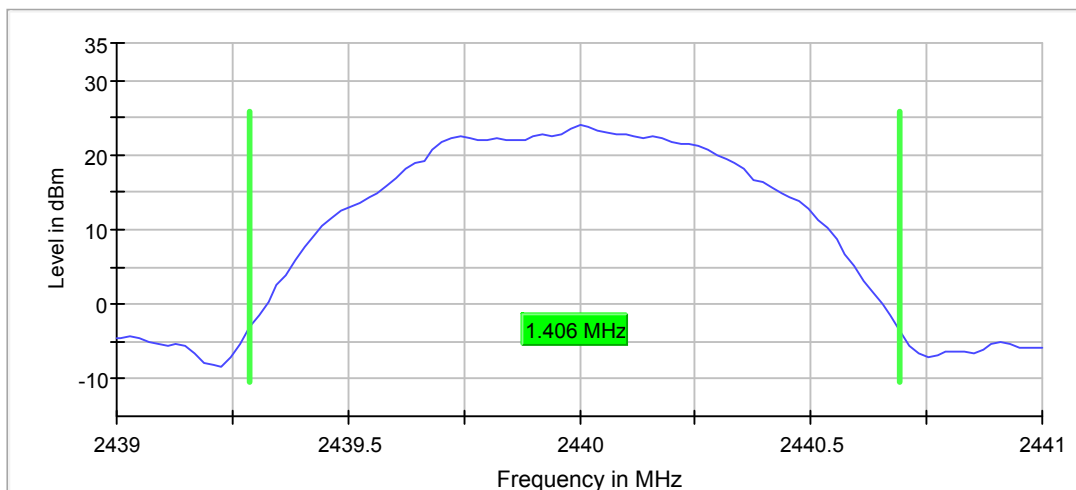
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.772278	0.500000	---	2439.603960	2440.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.405940	---	---	2439.287129	2440.693069	23.9	Pass

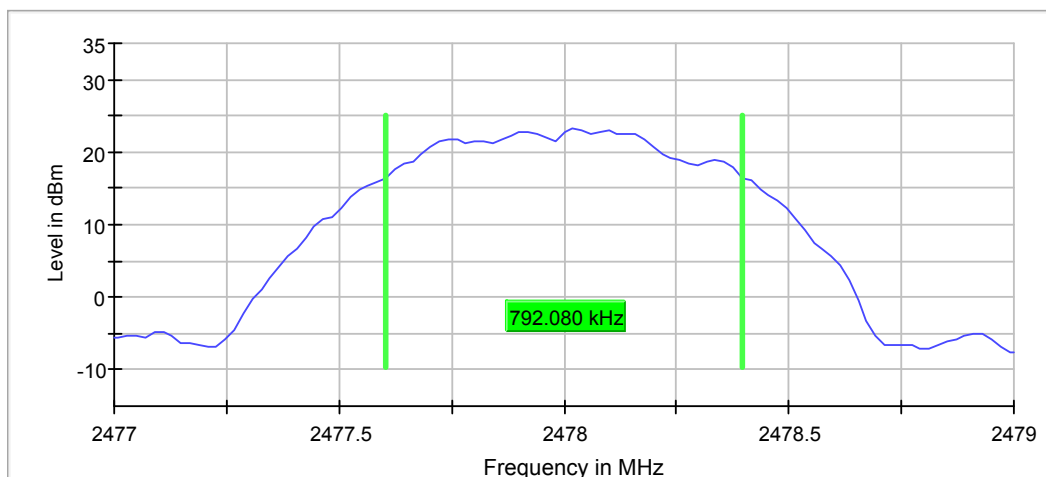


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 11ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

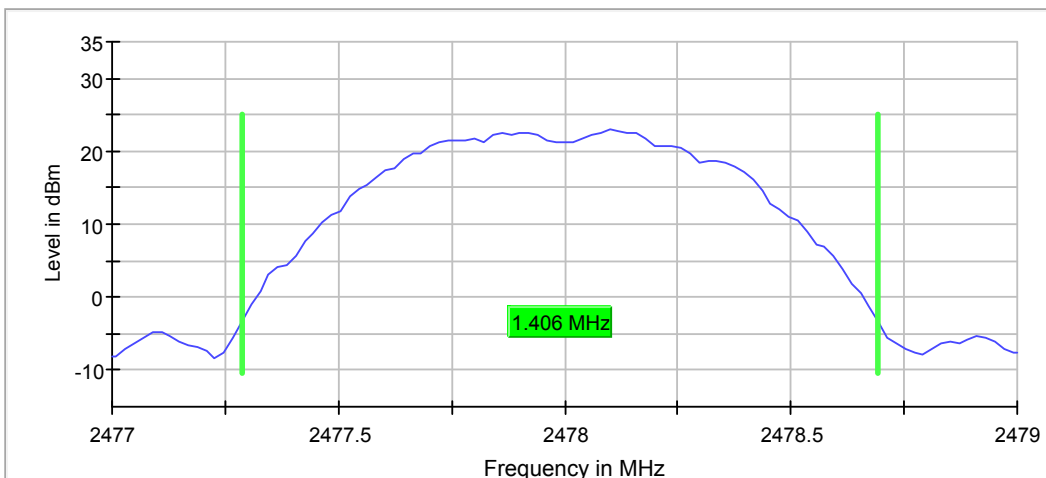
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	0.792080	0.500000	---	2477.603960	2478.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	1.405940	---	---	2477.287129	2478.693069	22.9	Pass

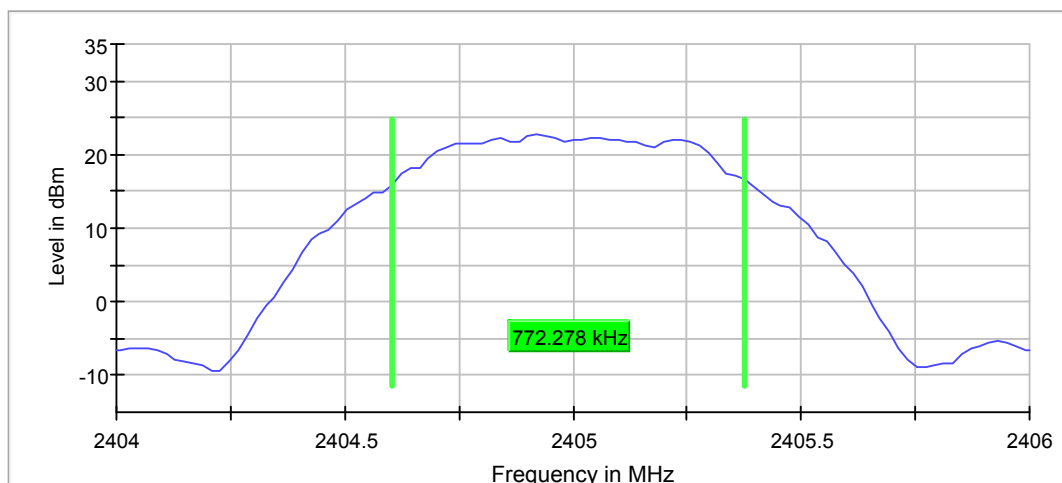


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 5.5ms – 2405MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

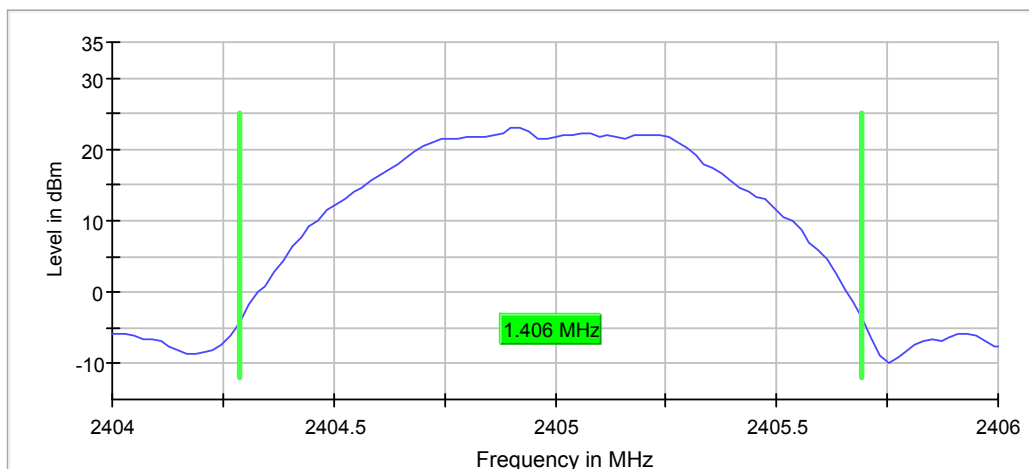
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2405.000000	0.772278	0.500000	---	2404.603960	2405.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2405.000000	1.405940	---	---	2404.287129	2405.693069	23.0	Pass

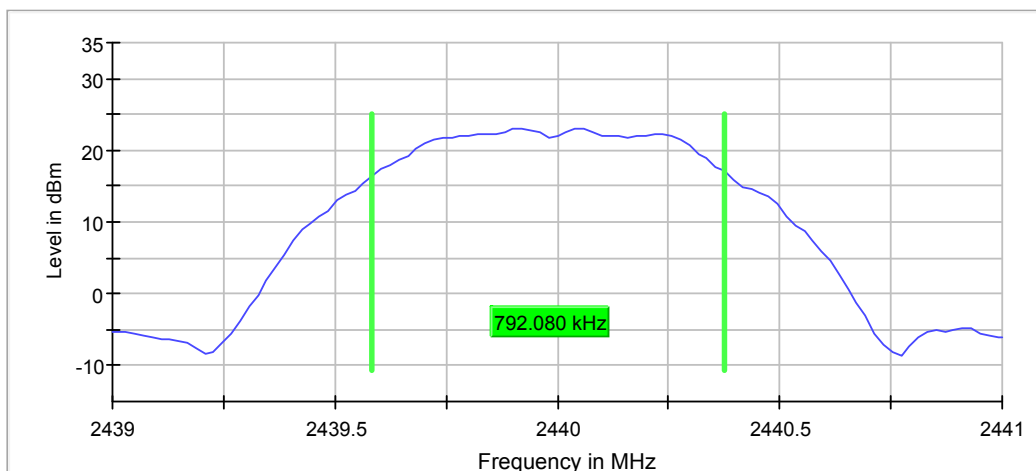


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 5.5ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

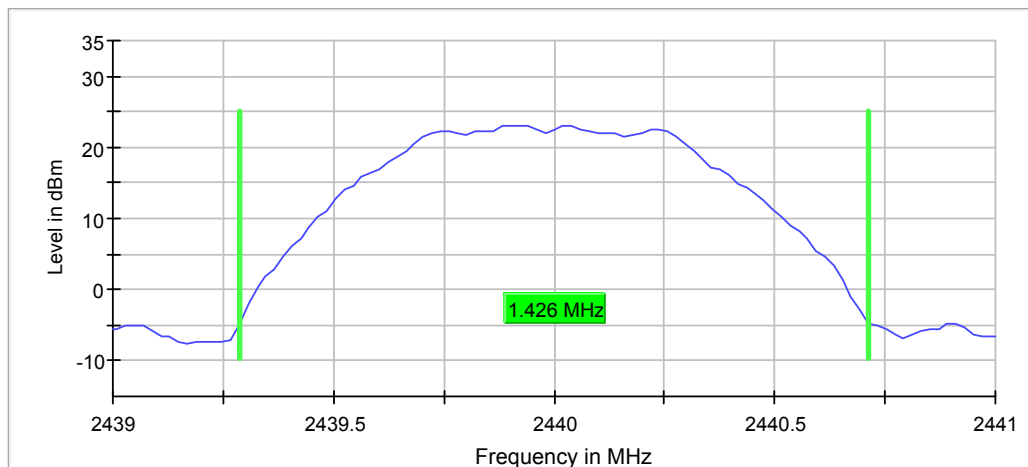
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.792080	0.500000	---	2439.584158	2440.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.425742	---	---	2439.287129	2440.712871	23.1	Pass

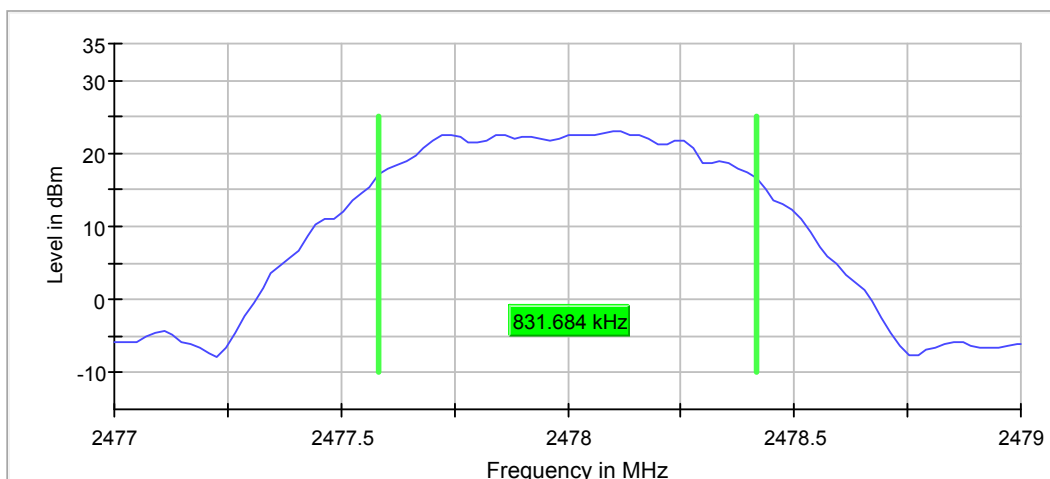


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 5.5ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

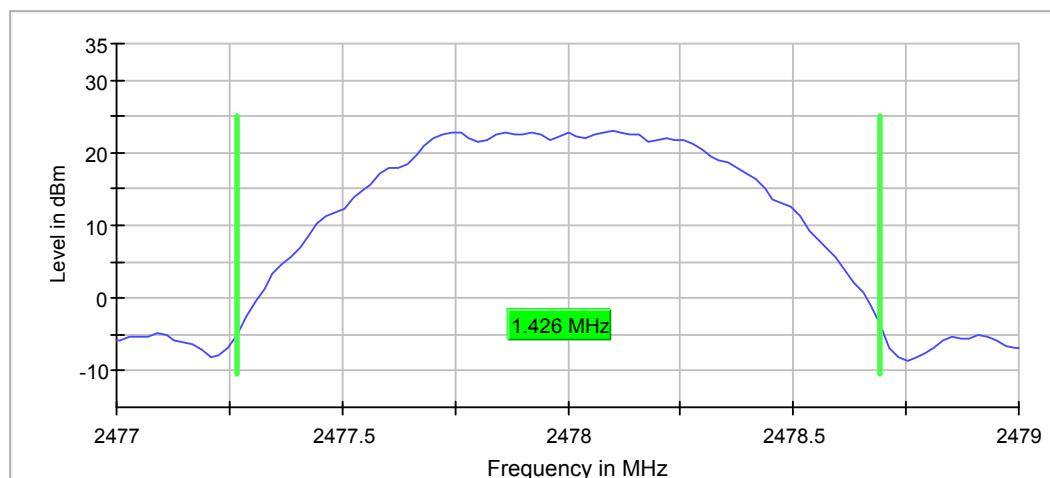
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	0.831684	0.500000	---	2477.584158	2478.415842	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	1.425742	---	---	2477.267327	2478.693069	23.0	Pass

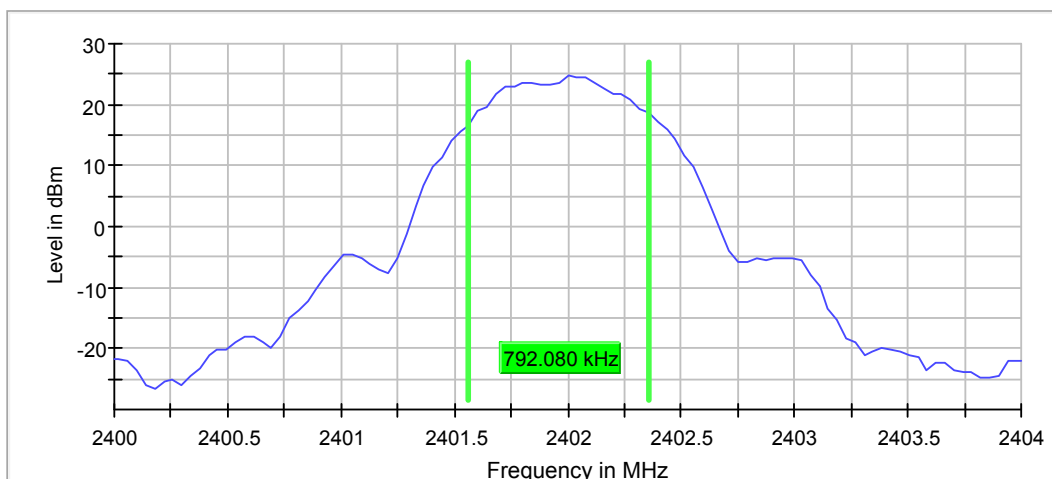


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 16.5ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

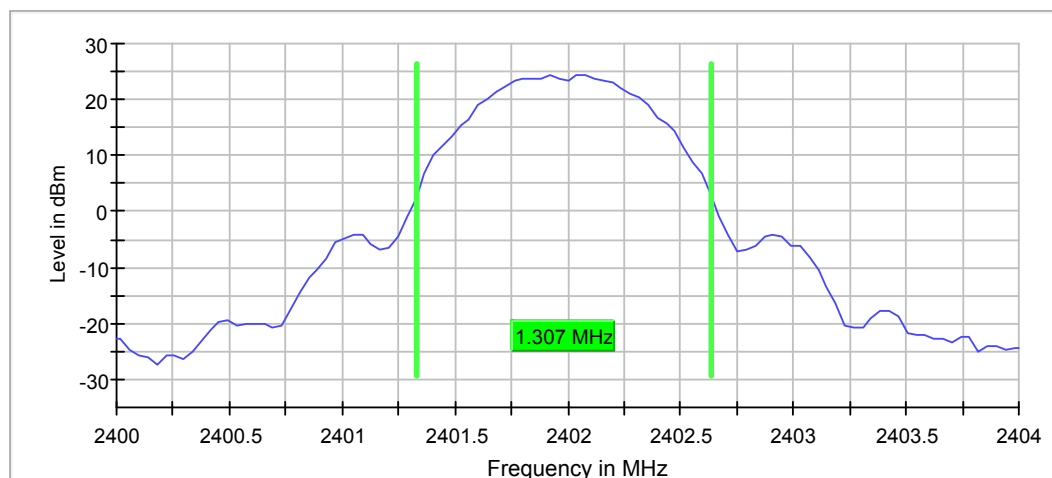
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	0.792080	0.500000	---	2401.564356	2402.356436	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	1.306930	---	---	2401.326733	2402.633663	24.5	Pass

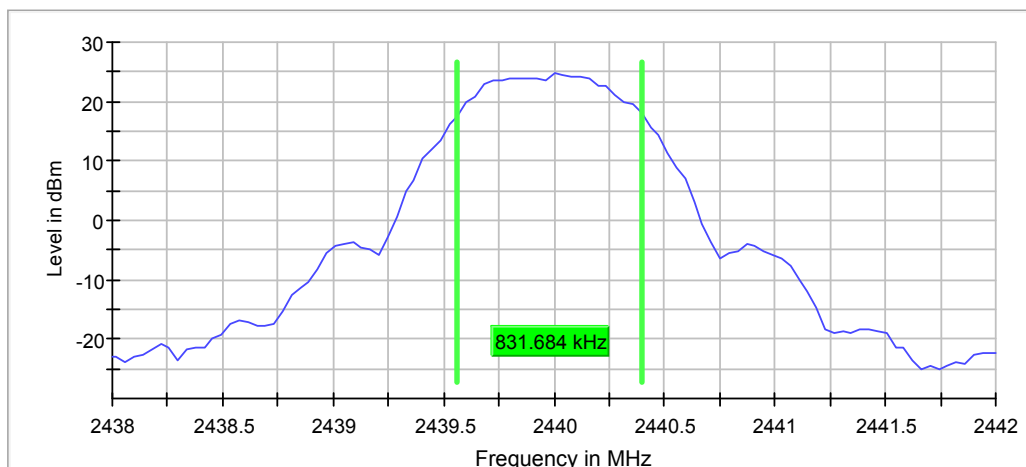


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 16.5ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

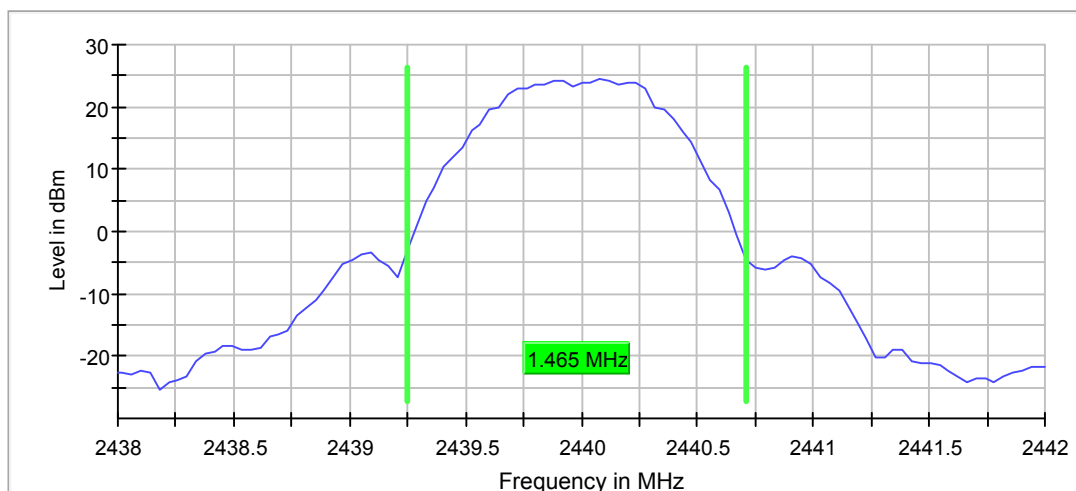
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.831684	0.500000	---	2439.564356	2440.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.465346	---	---	2439.247525	2440.712871	24.4	Pass

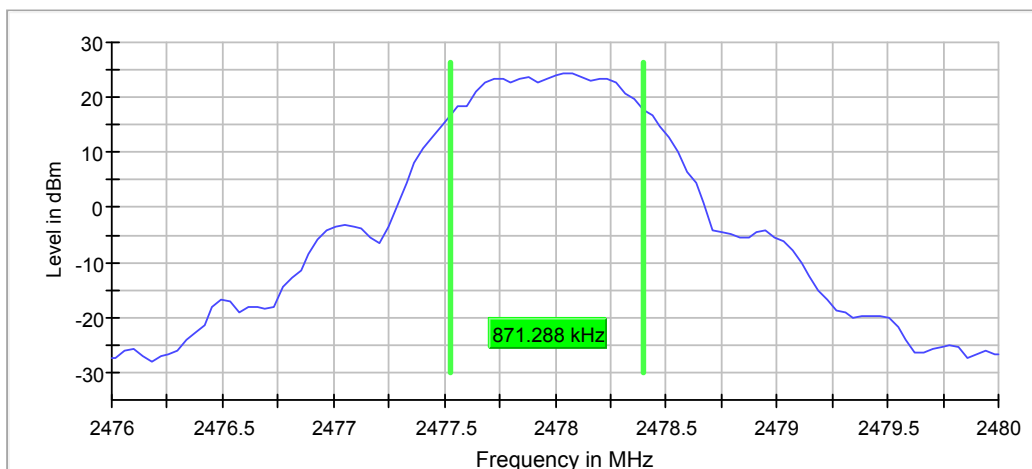


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 16.5ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

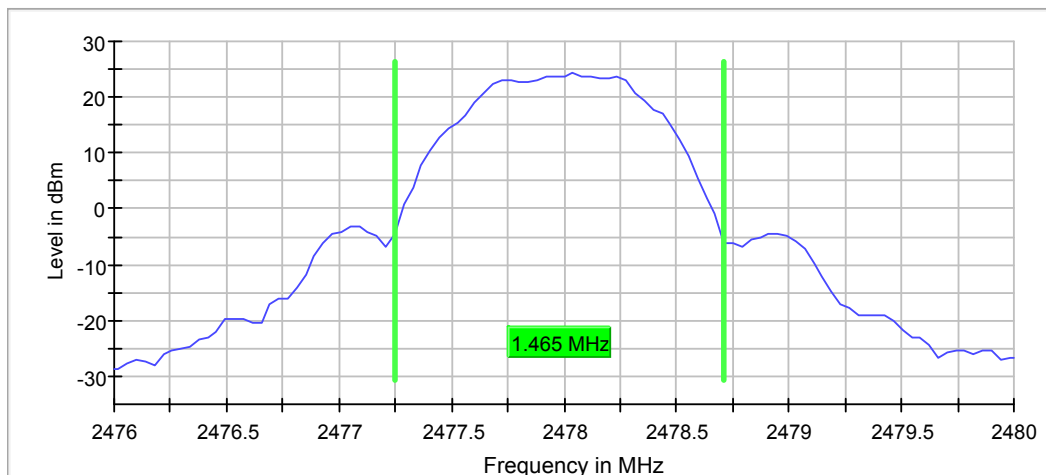
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	0.871288	0.500000	---	2477.524752	2478.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	1.465346	---	---	2477.247525	2478.712871	24.2	Pass

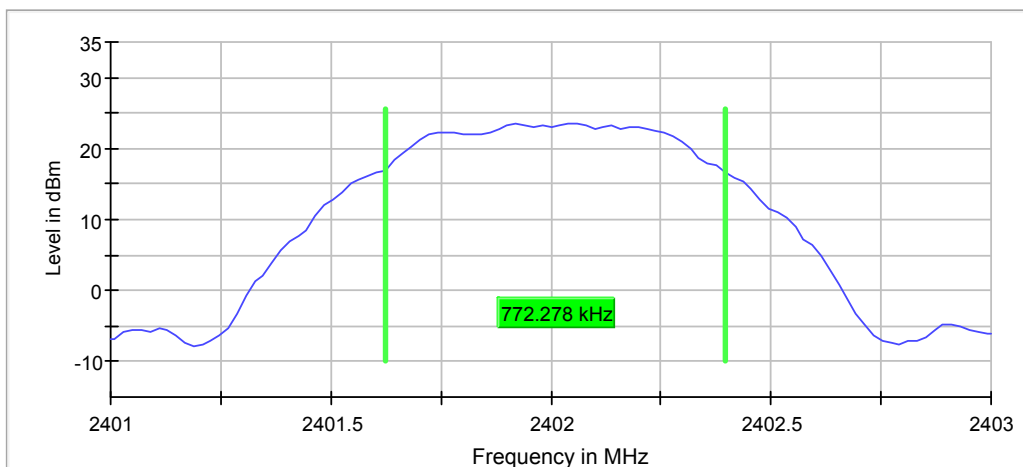


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 22ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

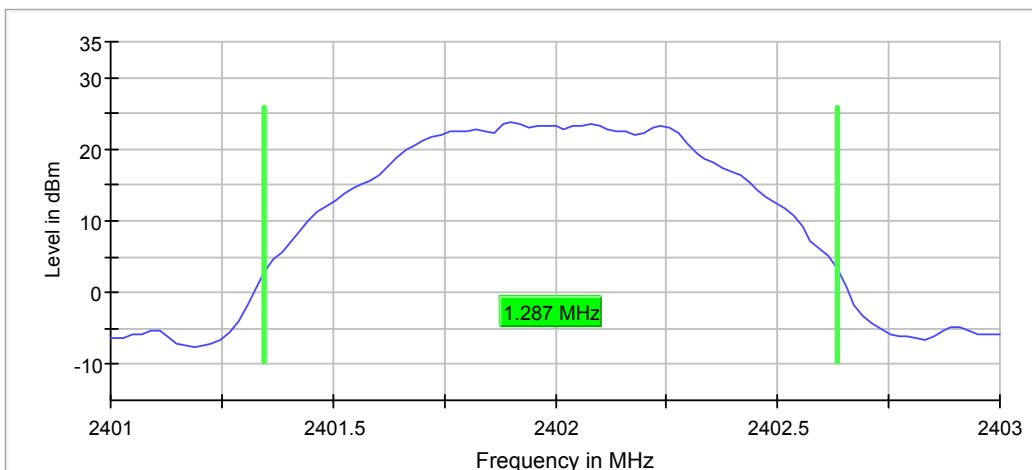
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	0.772278	0.500000	---	2401.623762	2402.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	1.287128	---	---	2401.346535	2402.633663	23.7	Pass

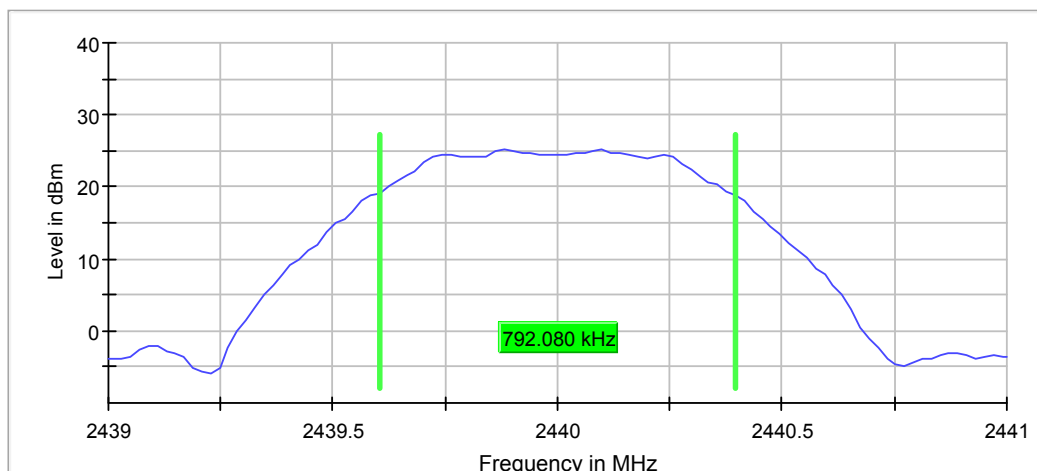


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 22ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

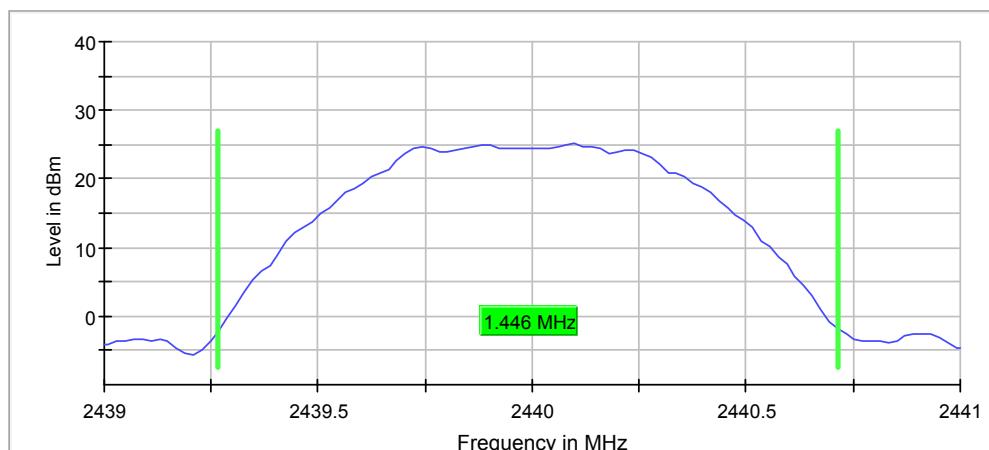
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.792080	0.500000	---	2439.603960	2440.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.445544	---	---	2439.267327	2440.712871	25.1	Pass

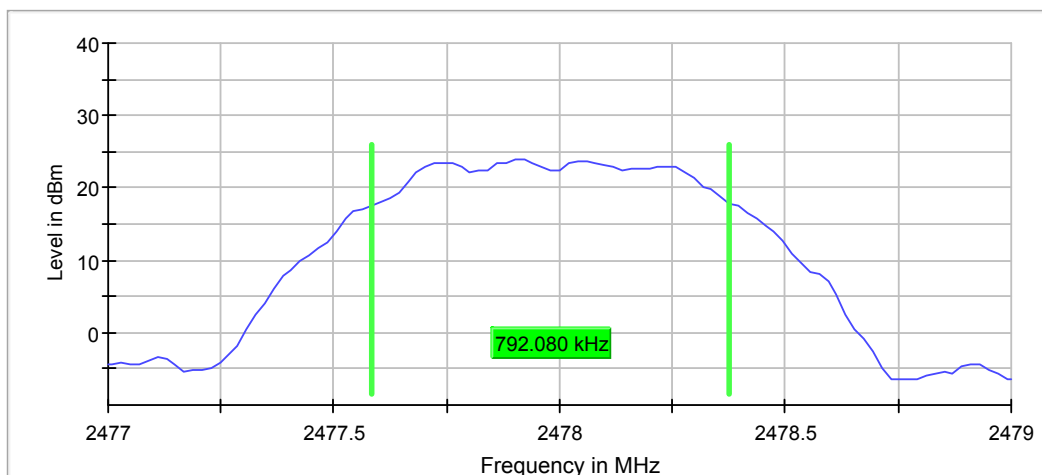


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 22ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

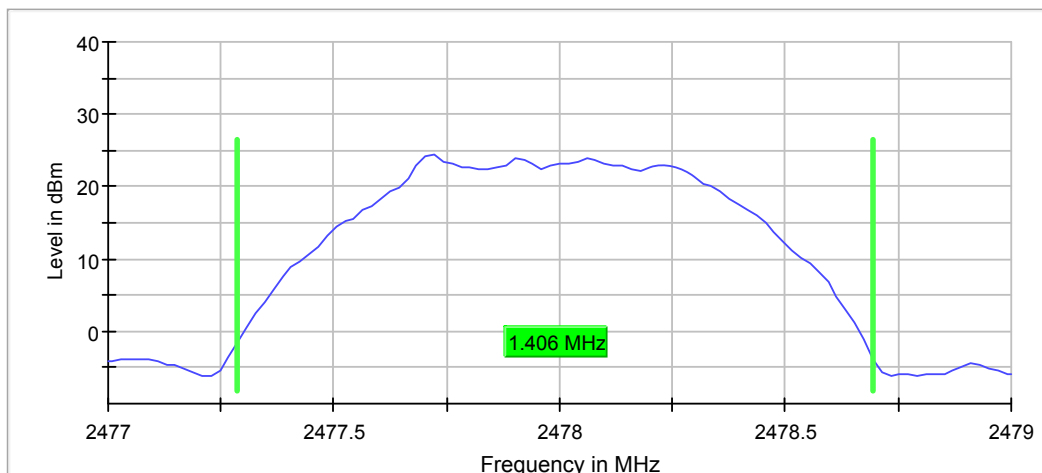
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	0.792080	0.500000	---	2477.584158	2478.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	1.405940	---	---	2477.287129	2478.693069	24.5	Pass

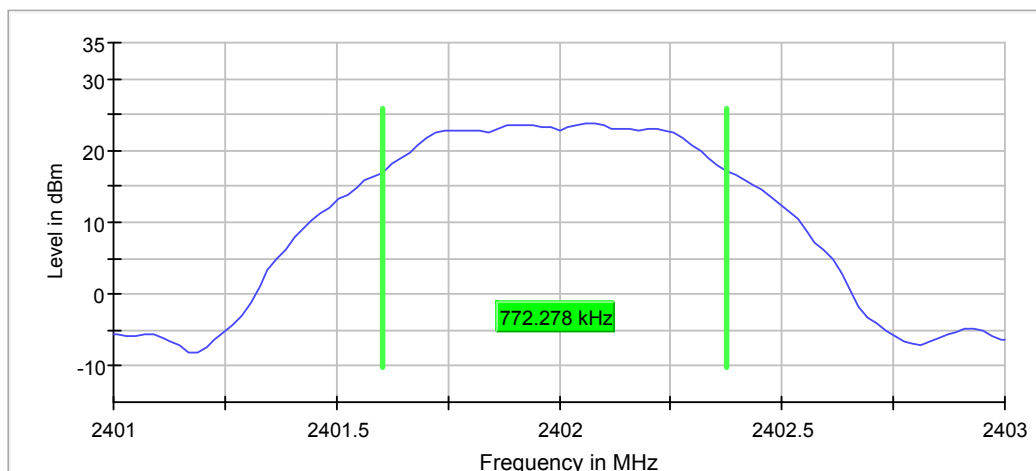


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 11ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

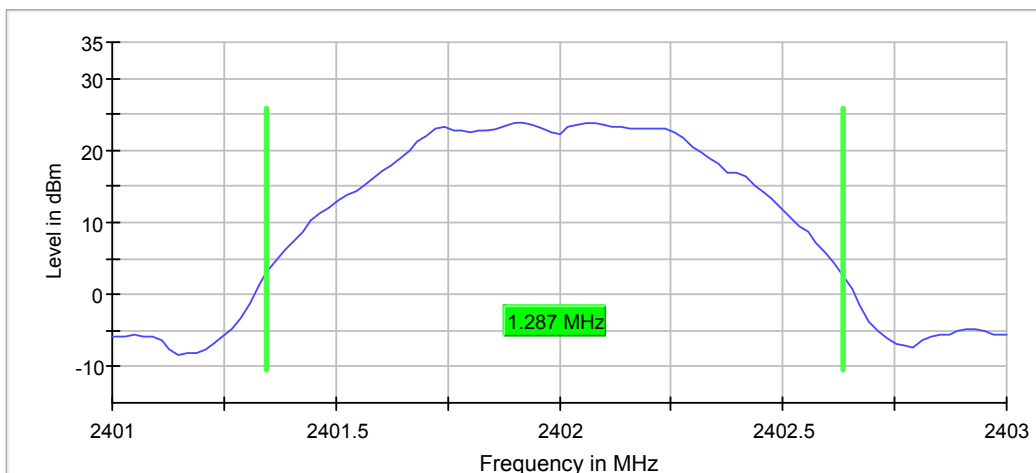
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	0.772278	0.500000	---	2401.603960	2402.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	1.287128	---	---	2401.346535	2402.633663	23.9	Pass

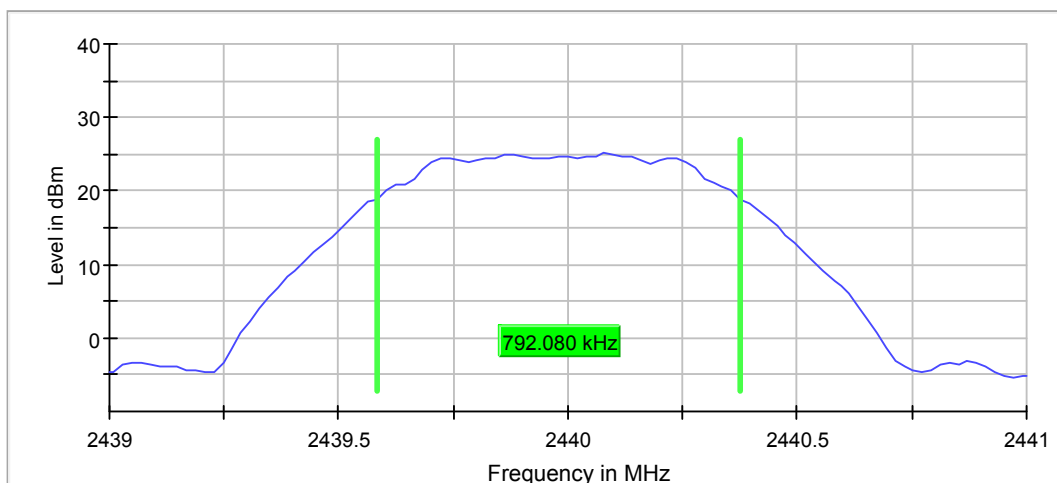


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

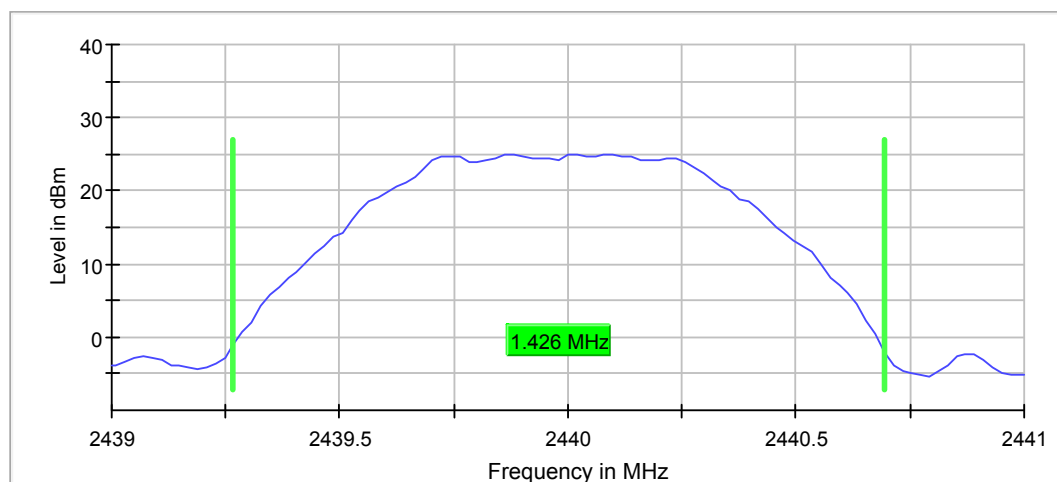
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.792080	0.500000	---	2439.584158	2440.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.425742	---	---	2439.267327	2440.693069	25.1	Pass

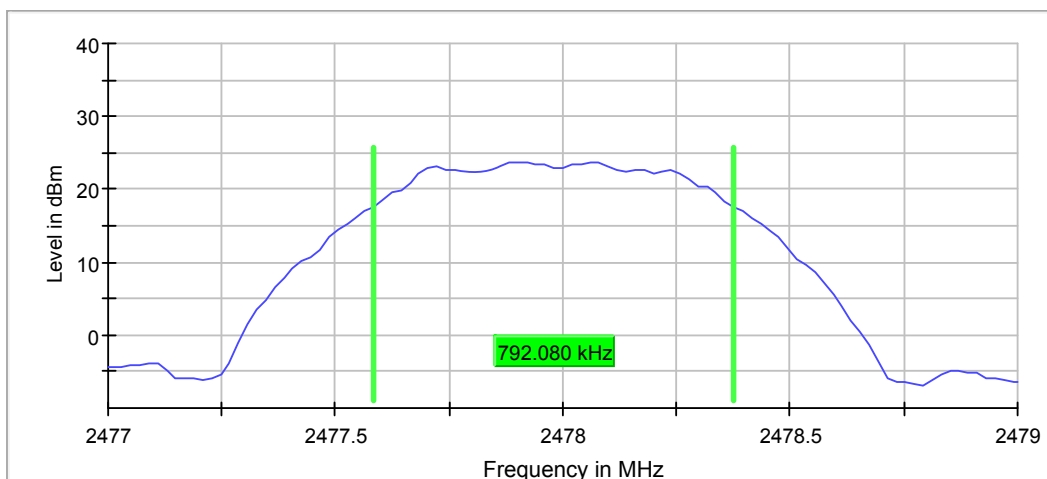


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 11ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

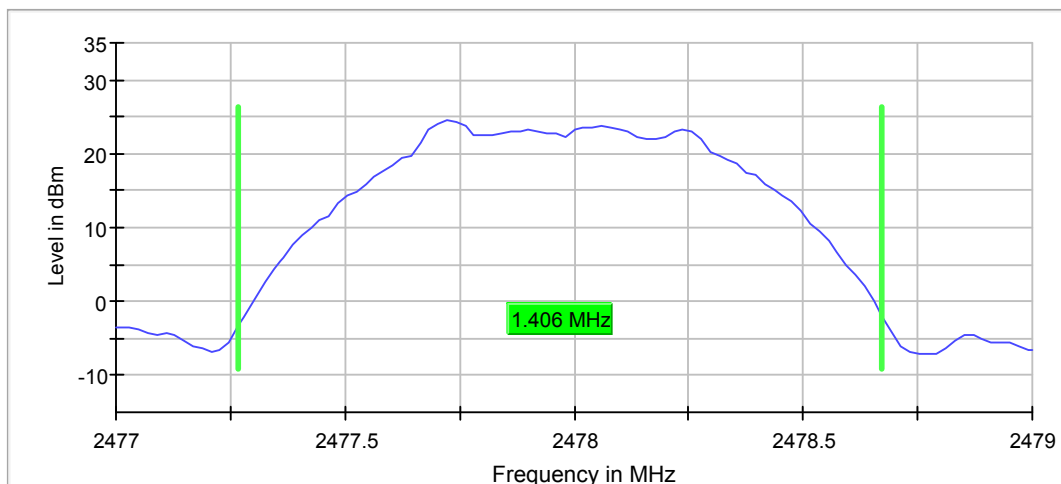
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	0.792080	0.500000	---	2477.584158	2478.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	1.405940	---	---	2477.267327	2478.673267	24.4	Pass

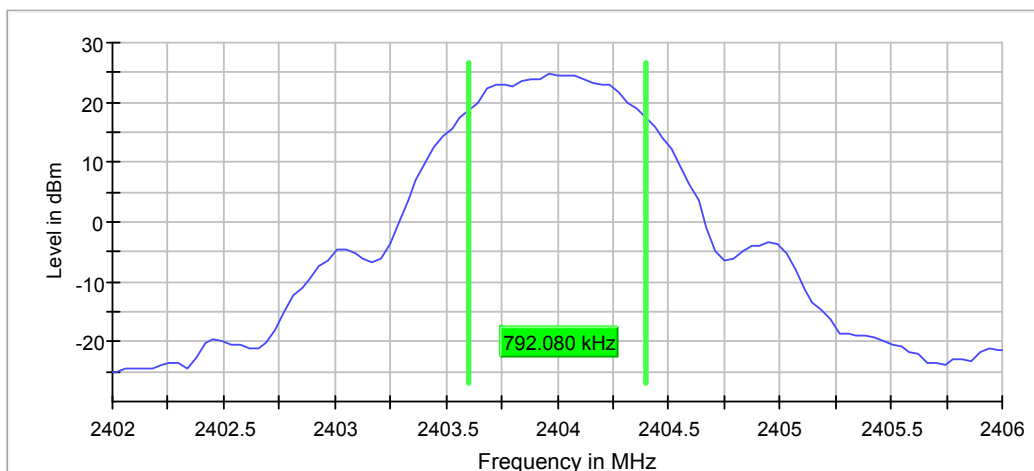


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 22ms – 2404MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

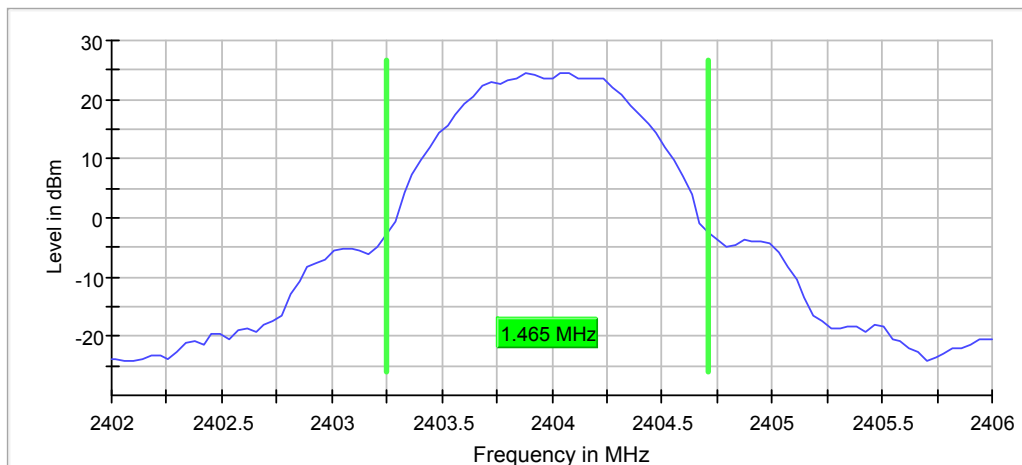
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2404.000000	0.792080	0.500000	---	2403.603960	2404.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2404.000000	1.465346	---	---	2403.247525	2404.712871	24.5	Pass

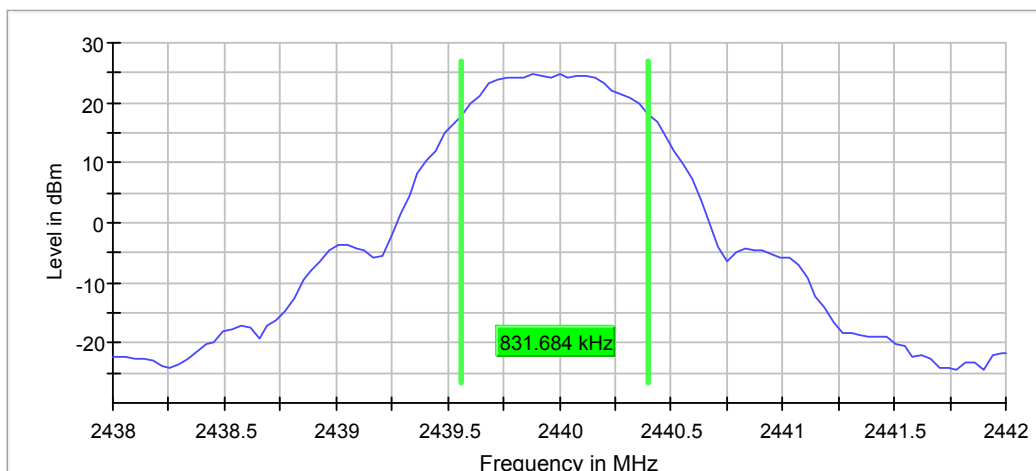


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 22ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

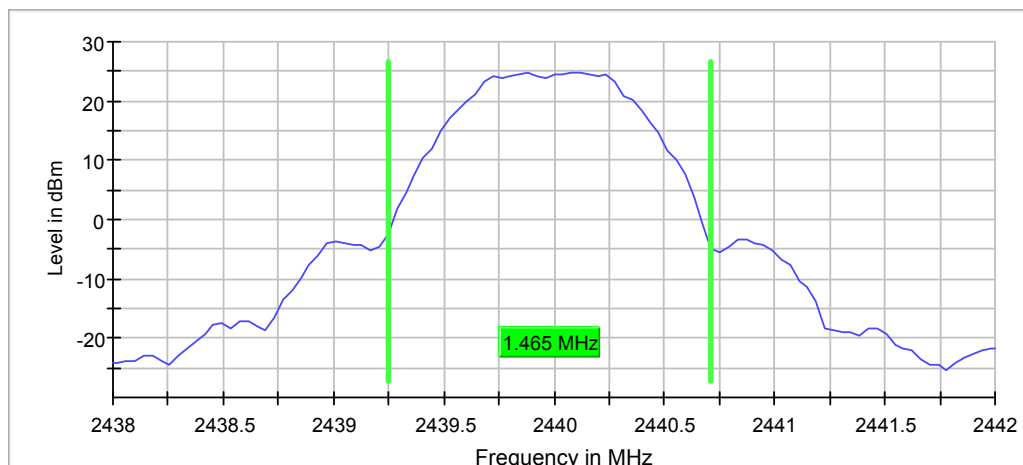
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.831684	0.500000	---	2439.564356	2440.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.465346	---	---	2439.247525	2440.712871	24.8	Pass

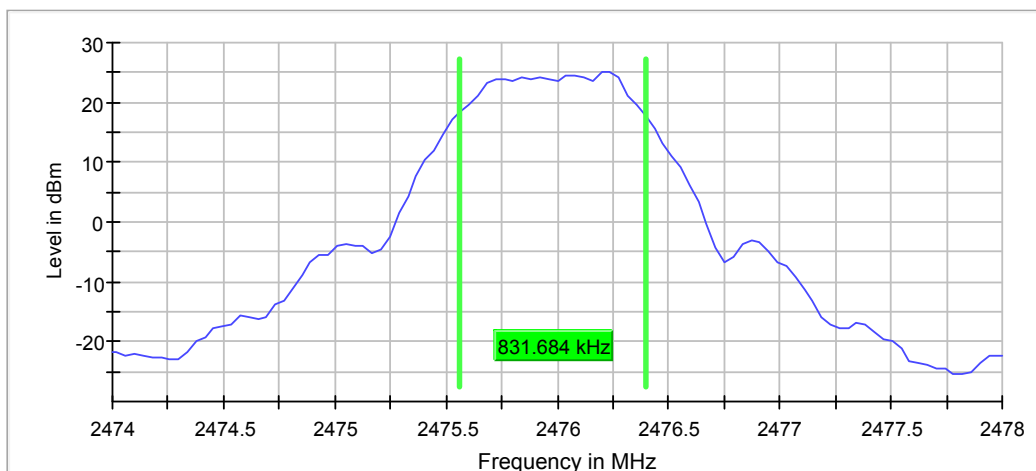


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 22ms – 2476MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

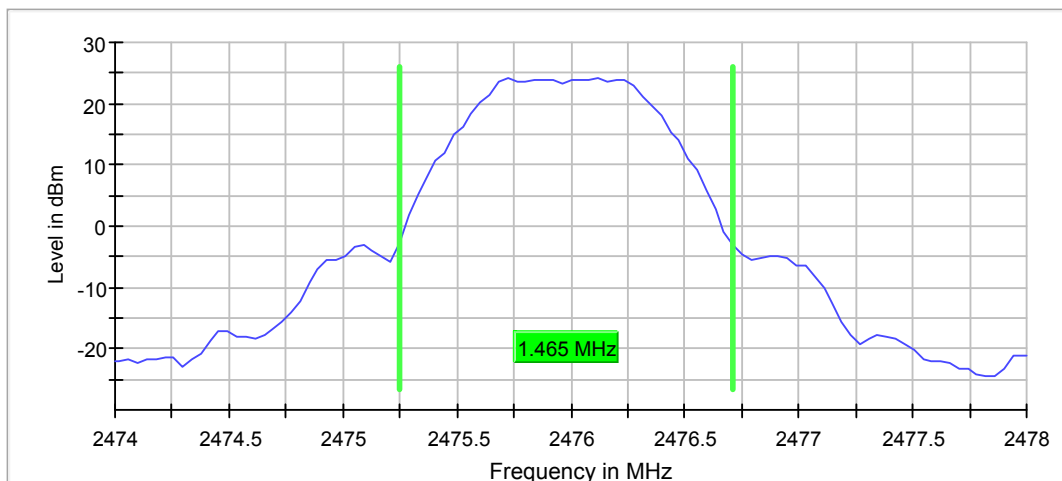
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2476.000000	0.831684	0.500000	---	2475.564356	2476.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2476.000000	1.465346	---	---	2475.247525	2476.712871	24.2	Pass

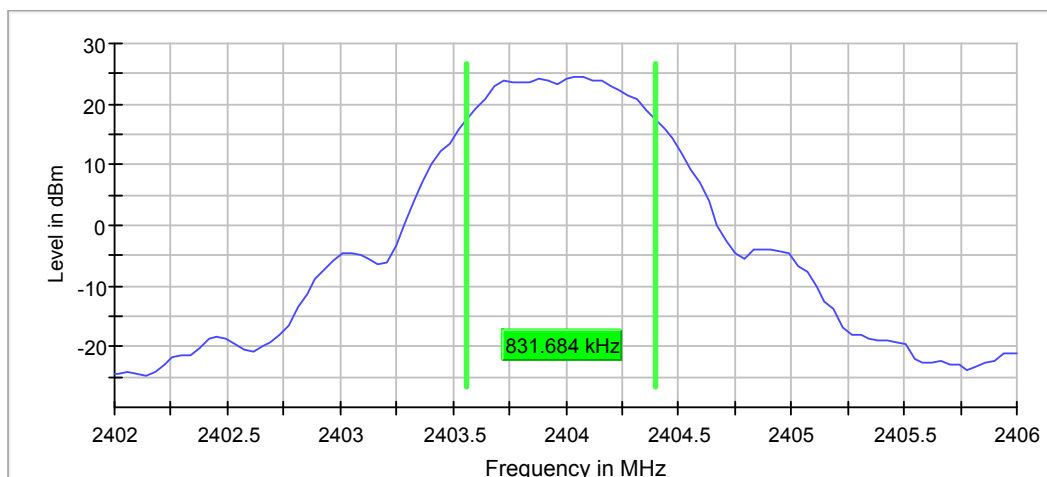


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 11ms – 2404MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

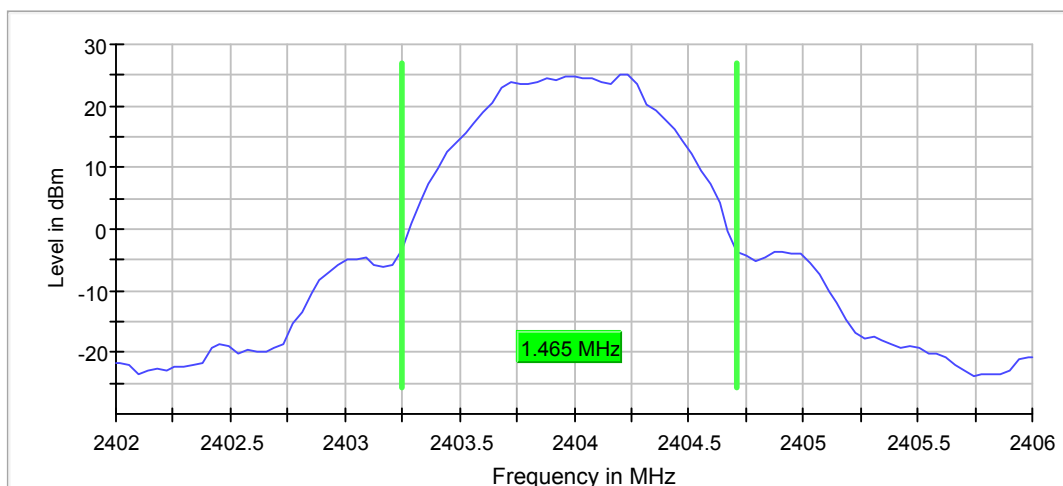
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2404.000000	0.831684	0.500000	---	2403.564356	2404.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2404.000000	1.465346	---	---	2403.247525	2404.712871	25.0	Pass

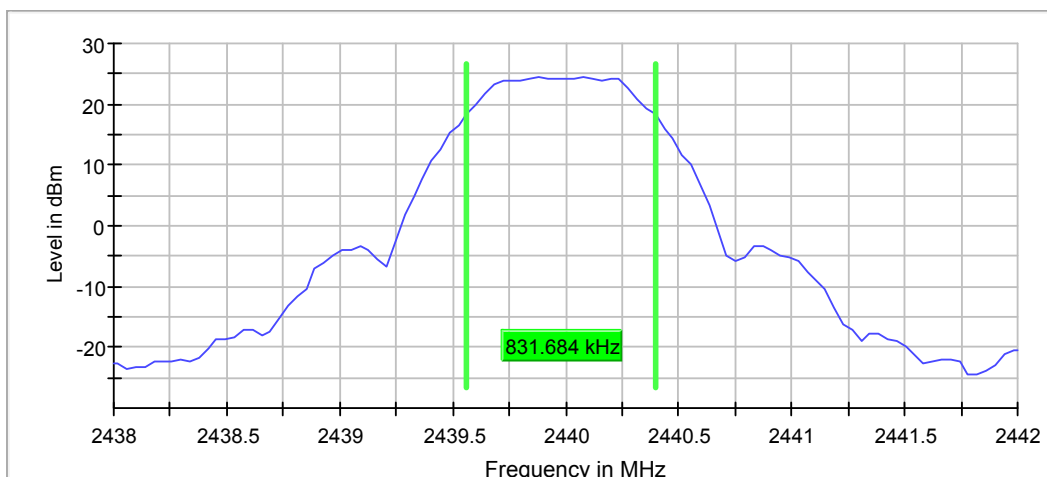


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

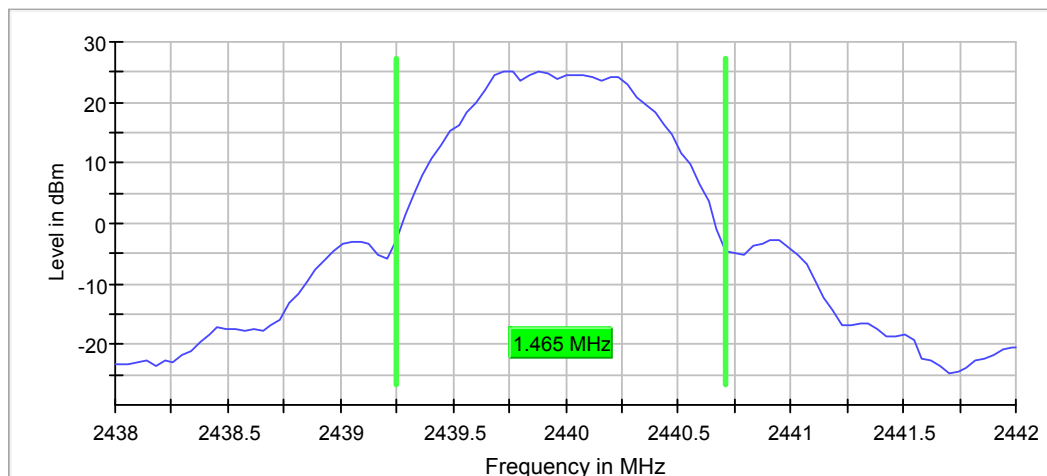
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.831684	0.500000	---	2439.564356	2440.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.465346	---	---	2439.247525	2440.712871	25.2	Pass

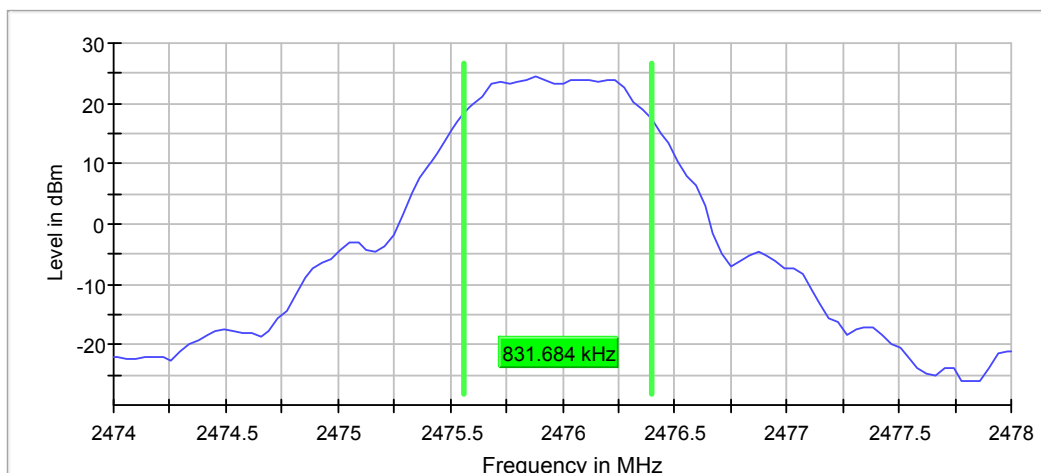


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMX 11ms – 2476MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

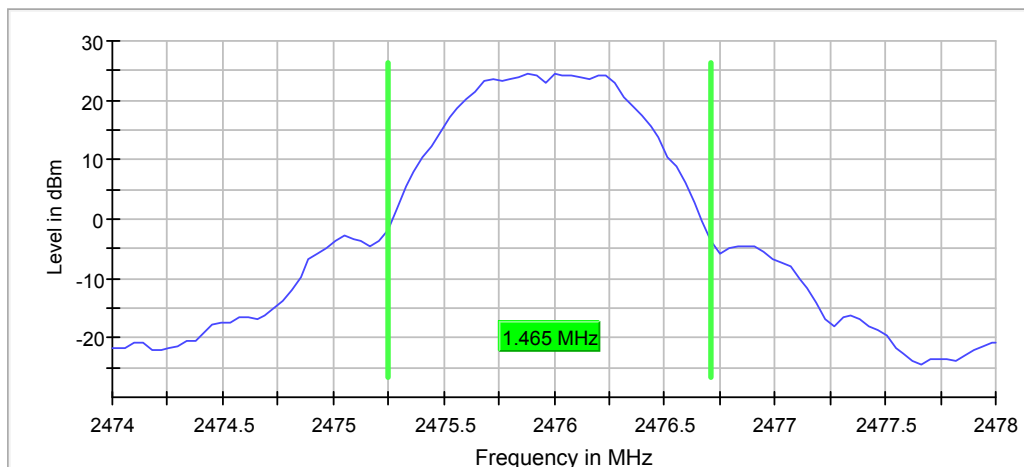
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2476.000000	0.831684	0.500000	---	2475.564356	2476.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2476.000000	1.465346	---	---	2475.247525	2476.712871	24.5	Pass

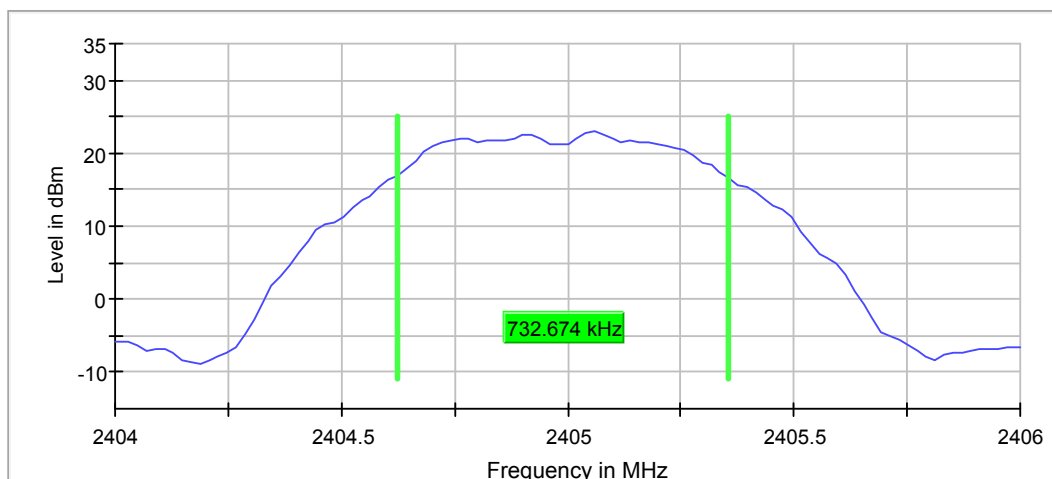


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 11ms – 2405MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

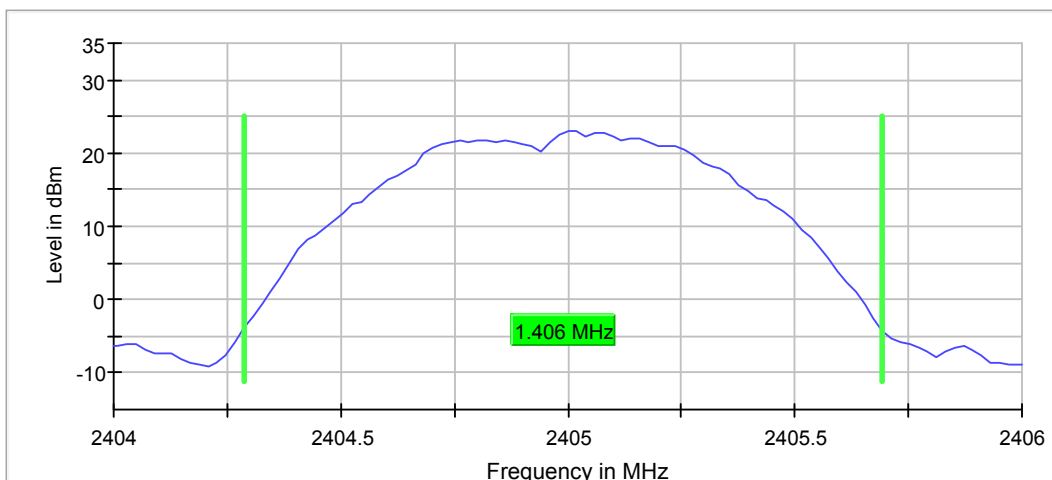
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2405.000000	0.732674	0.500000	---	2404.623762	2405.356436	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2405.000000	1.405940	---	---	2404.287129	2405.693069	23.1	Pass

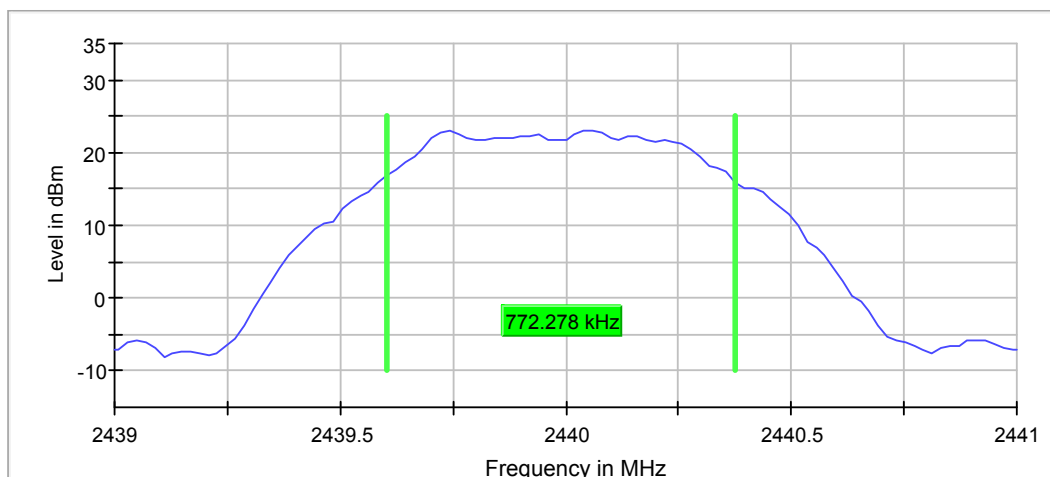


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

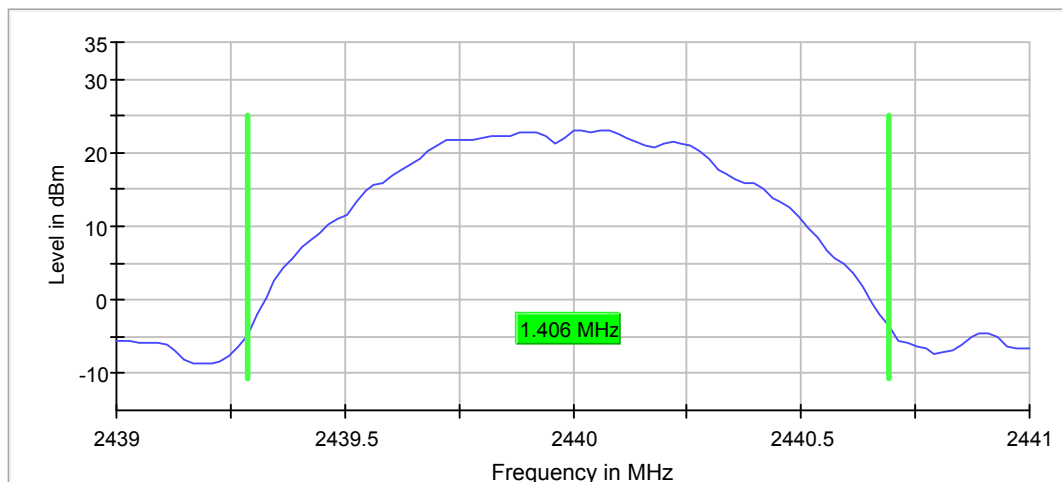
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.772278	0.500000	---	2439.603960	2440.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.405940	---	---	2439.287129	2440.693069	23.1	Pass

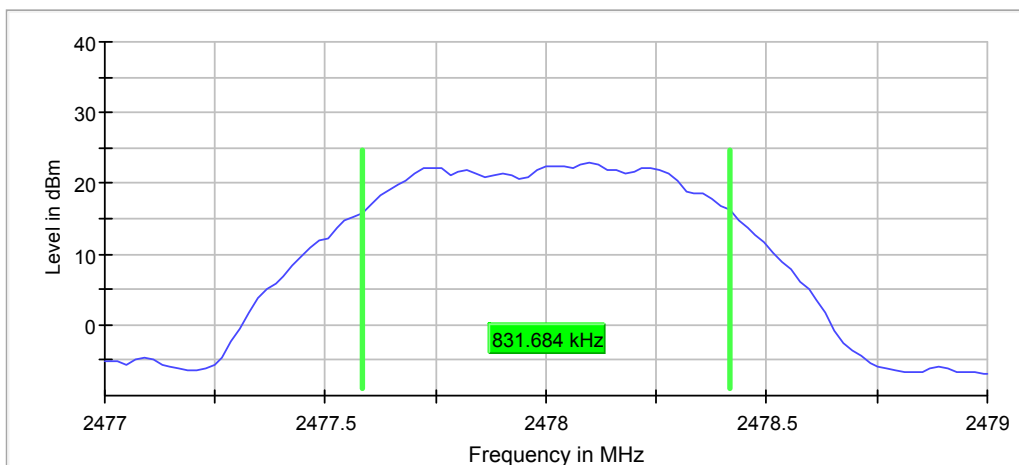


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 11ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

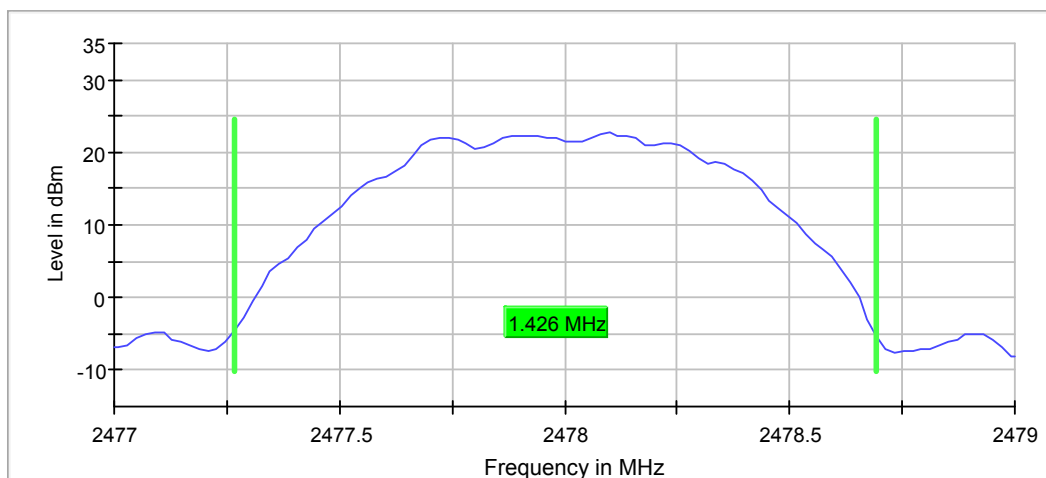
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	0.831684	0.500000	---	2477.584158	2478.415842	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	1.425742	---	---	2477.267327	2478.693069	22.6	Pass

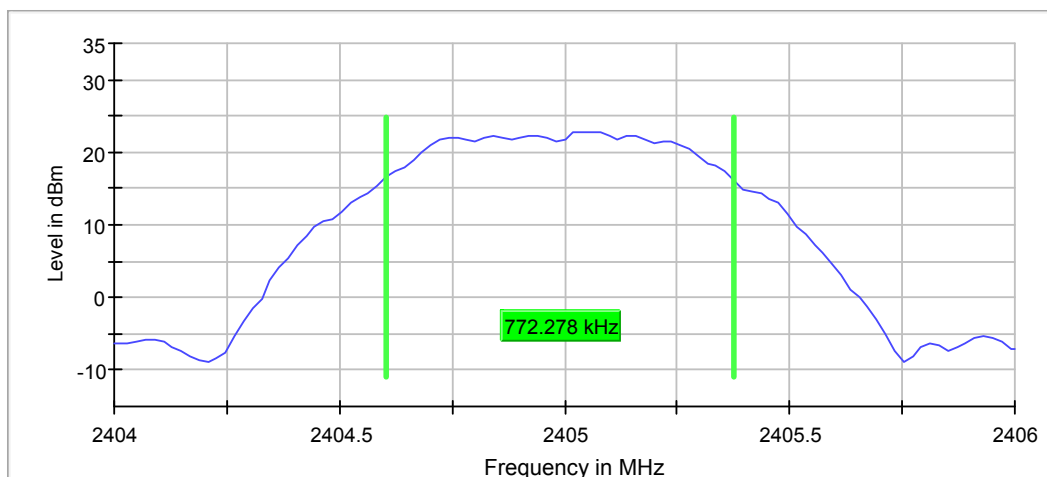


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 5.5ms – 2405MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

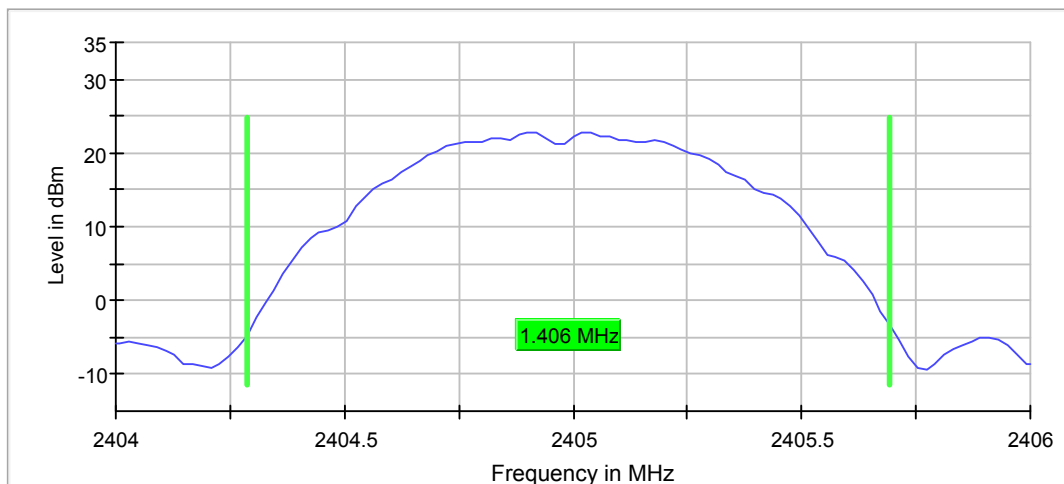
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2405.000000	0.772278	0.500000	---	2404.603960	2405.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2405.000000	1.405940	---	---	2404.287129	2405.693069	22.9	Pass

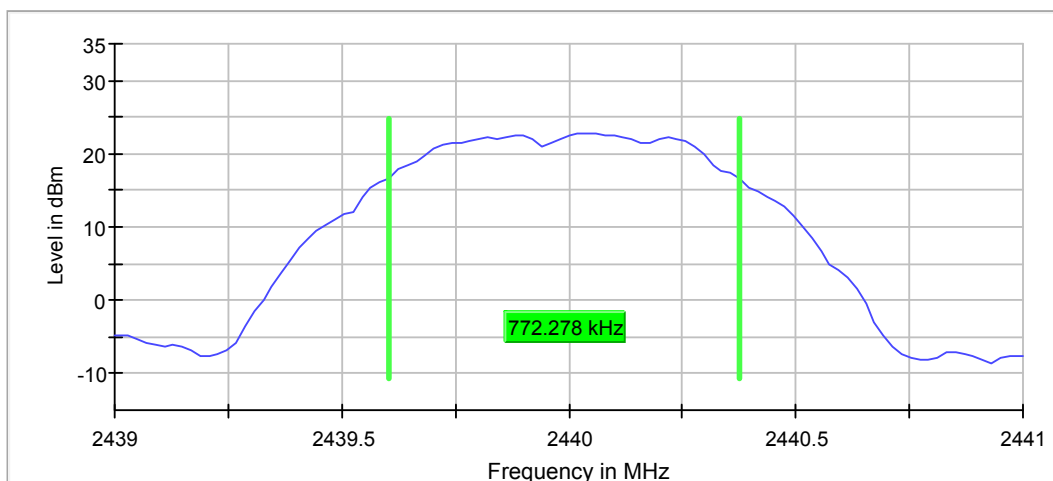


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 5.5ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

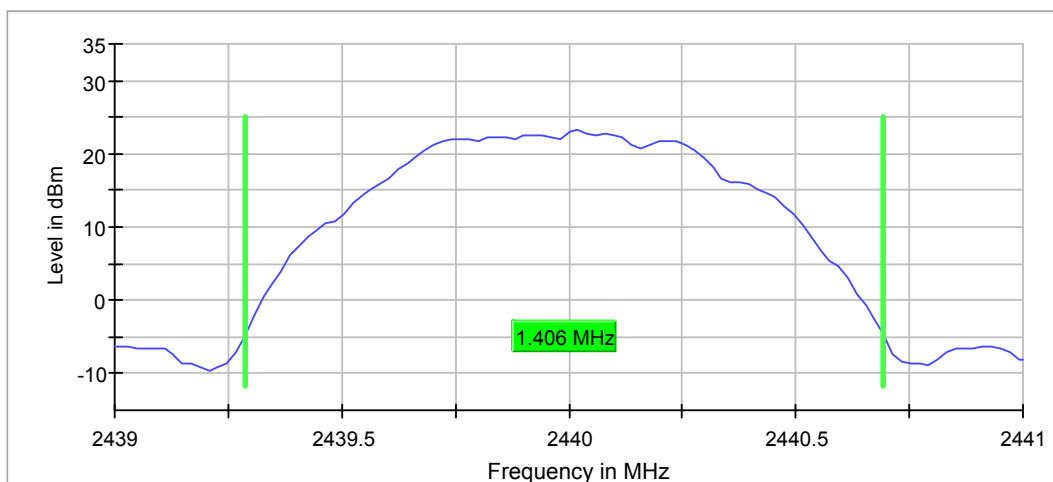
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.772278	0.500000	---	2439.603960	2440.376238	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.405940	---	---	2439.287129	2440.693069	23.2	Pass

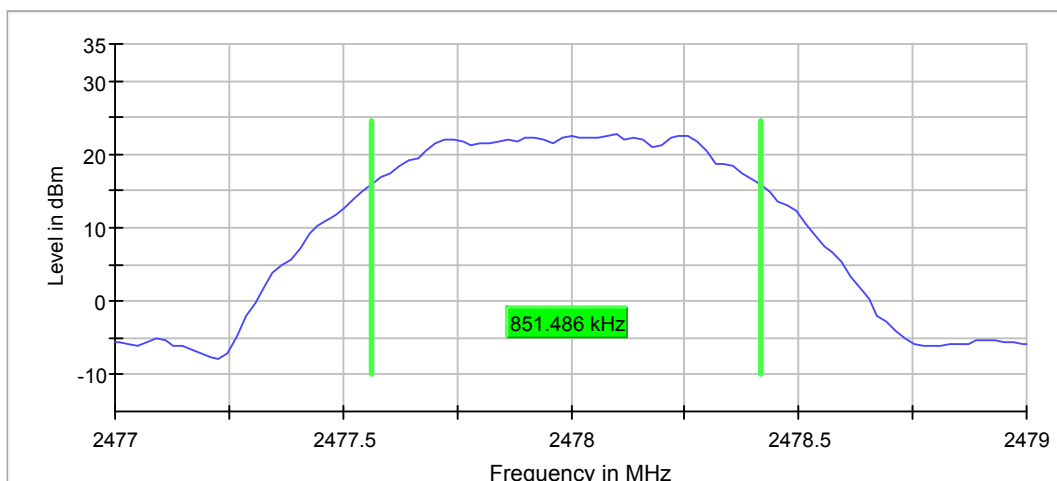


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSMR 5.5ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

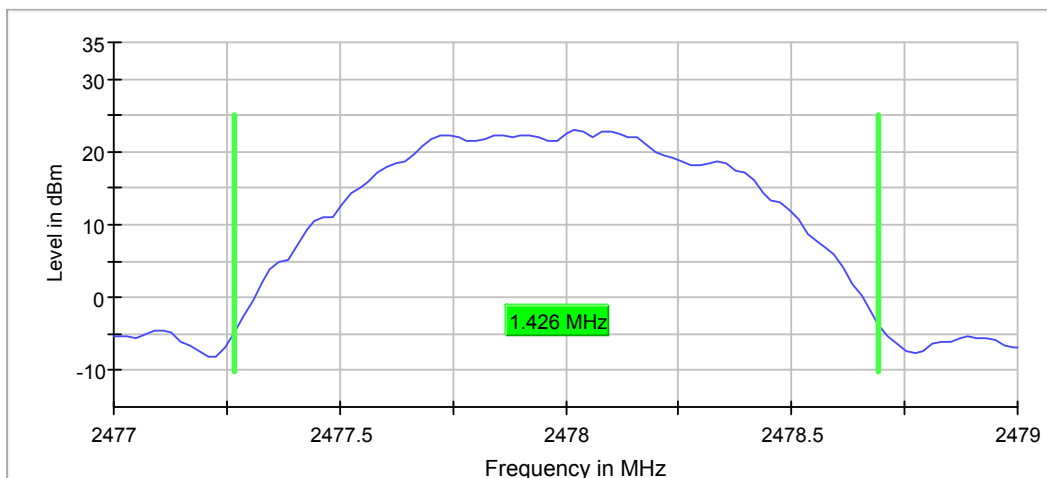
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	0.851486	0.500000	---	2477.564356	2478.415842	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	1.425742	---	---	2477.267327	2478.693069	23.0	Pass

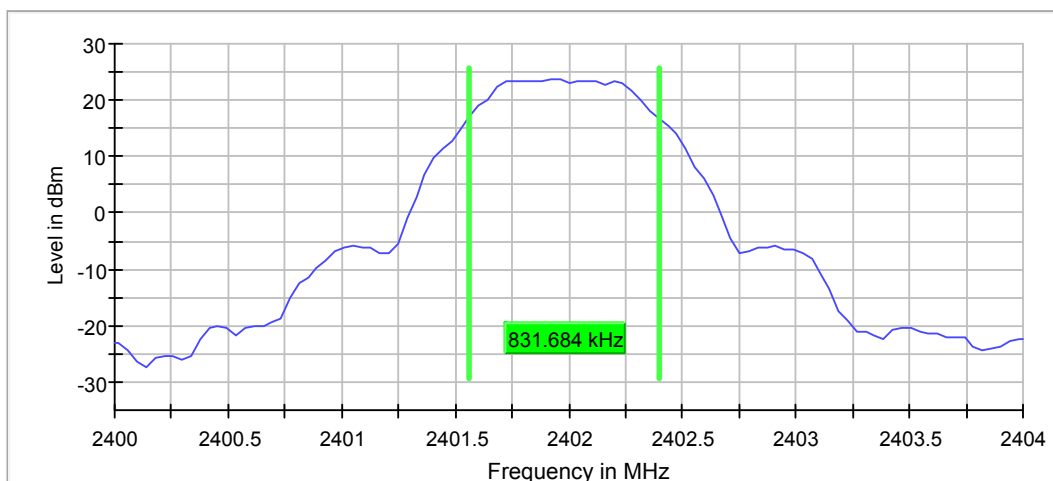


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 16.5ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

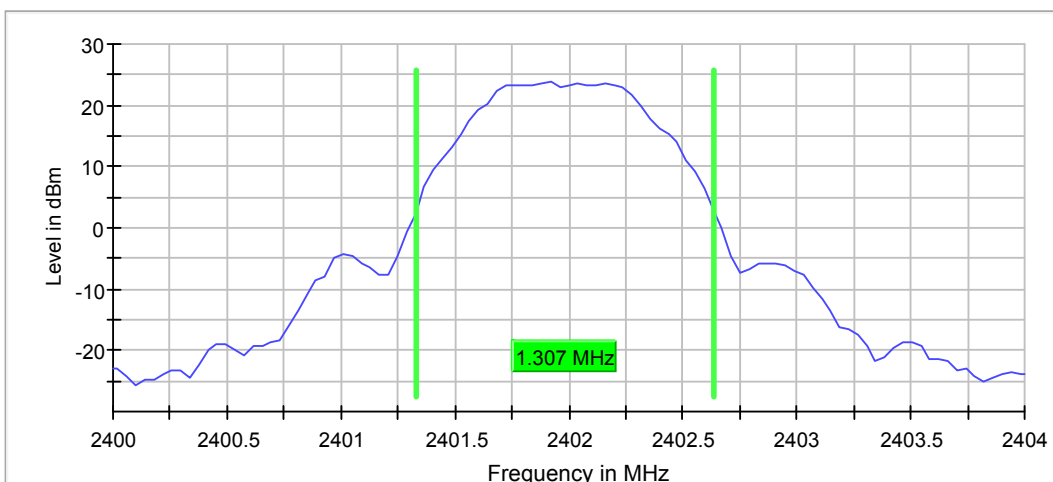
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	0.831684	0.500000	---	2401.564356	2402.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2402.000000	1.306930	---	---	2401.326733	2402.633663	23.8	Pass

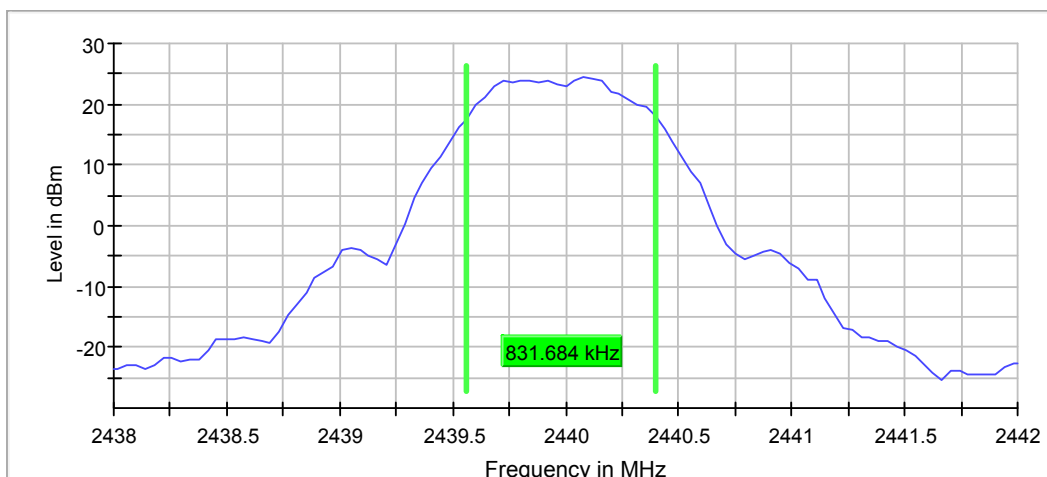


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 16.5ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

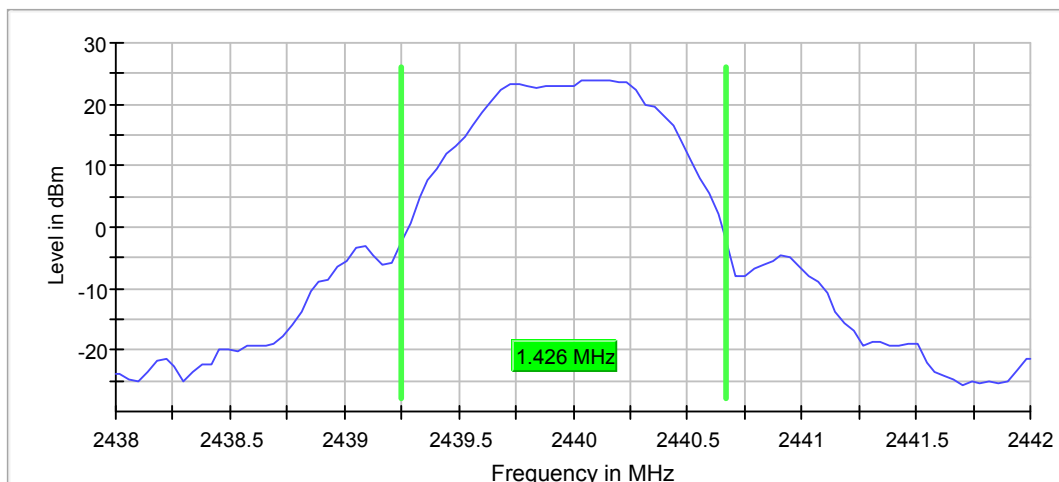
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	0.831684	0.500000	---	2439.564356	2440.396040	Pass



99% BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2440.000000	1.425742	---	---	2439.247525	2440.673267	24.0	Pass

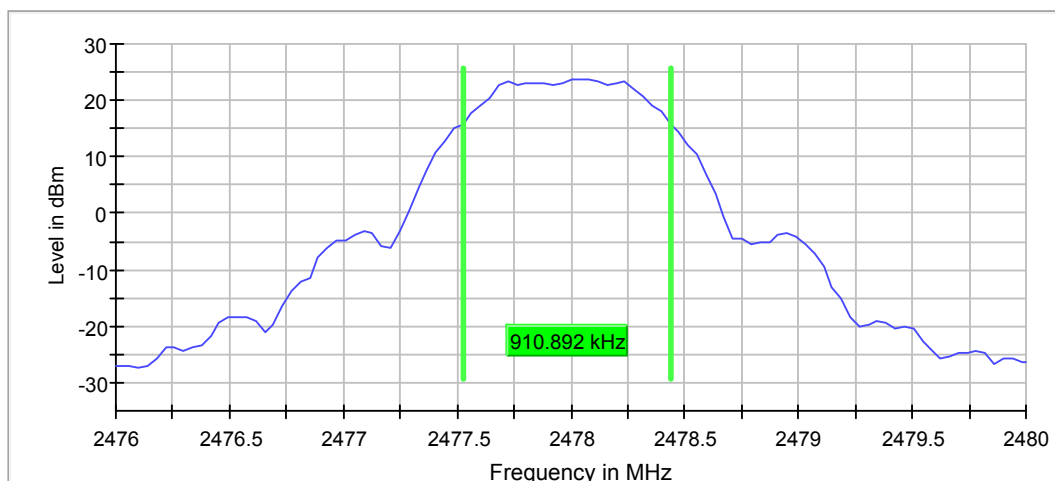


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Minimum Emission 6dB Bandwidth - Conducted
MODE	DSM2 16.5ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

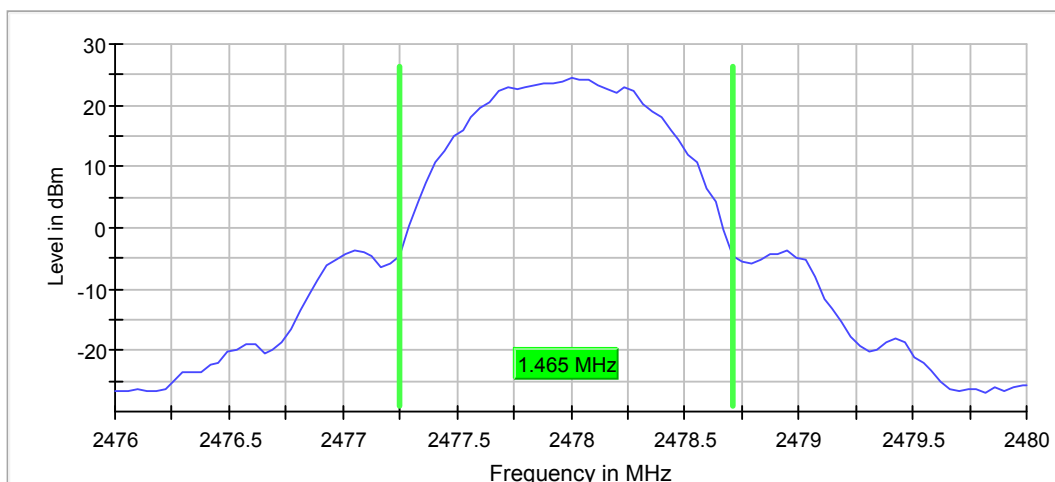
6dB BANDWIDTH

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	0.910892	0.500000	---	2477.524752	2478.435644	Pass



99% BANDWIDTH

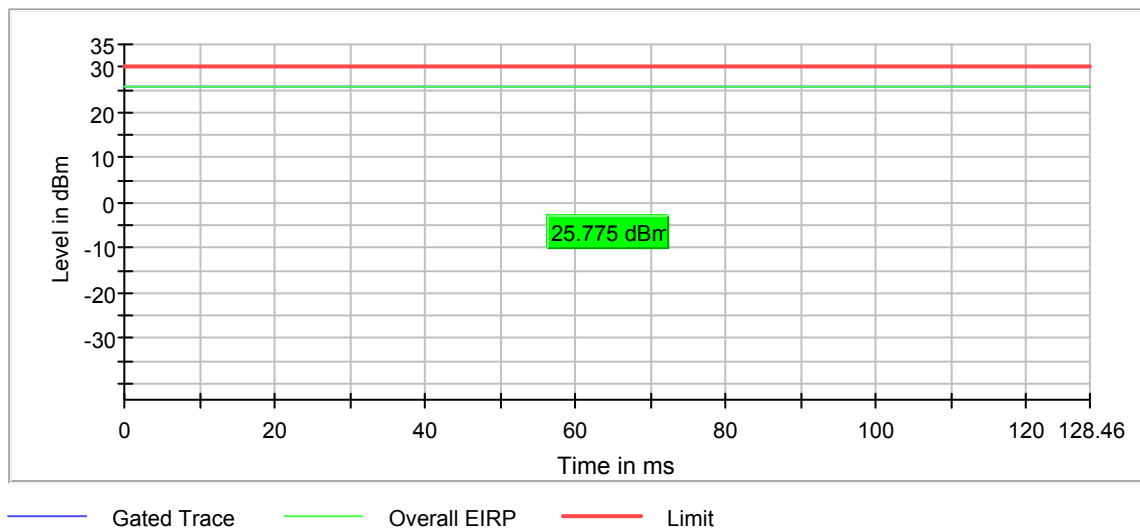
Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2478.000000	1.465346	---	---	2477.247525	2478.712871	24.5	Pass



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 22ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2402.000000	25.0	30.0	25.8	13.216	Pass

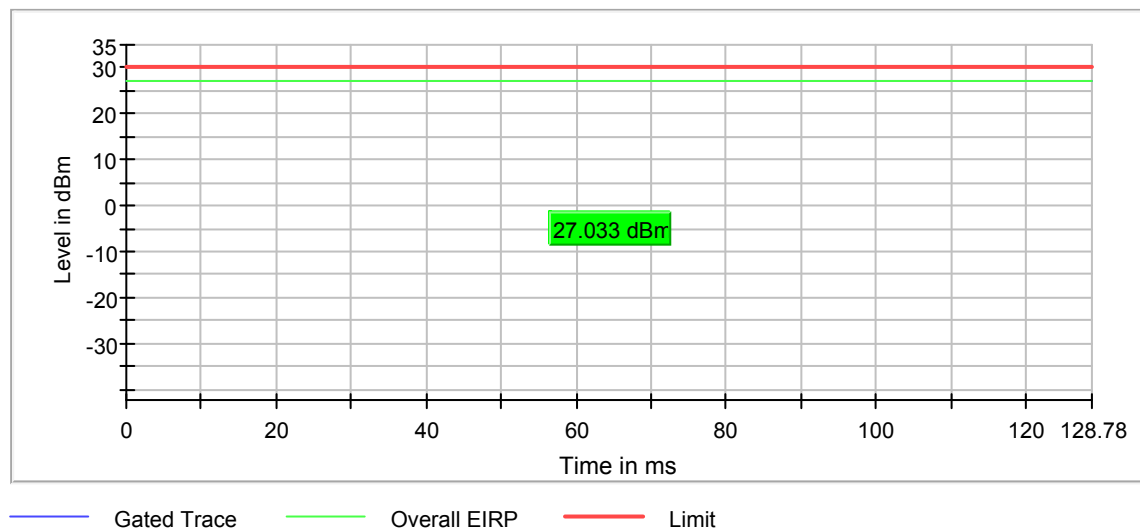


**DATA PAGE**

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 22ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	25.0	30.0	27.0	13.249	Pass

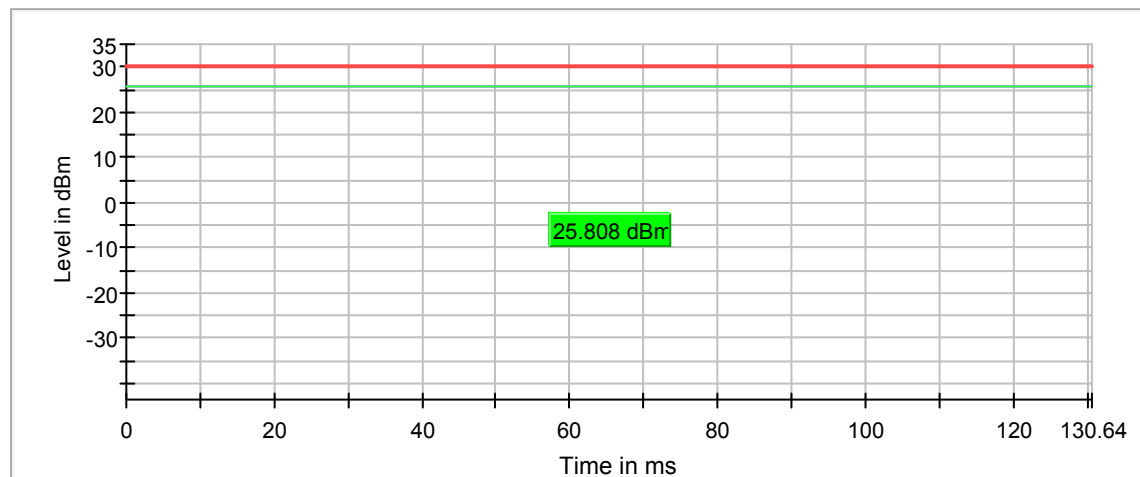


**DATA PAGE**

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 22ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2478.000000	25.0	30.0	25.8	13.196	Pass

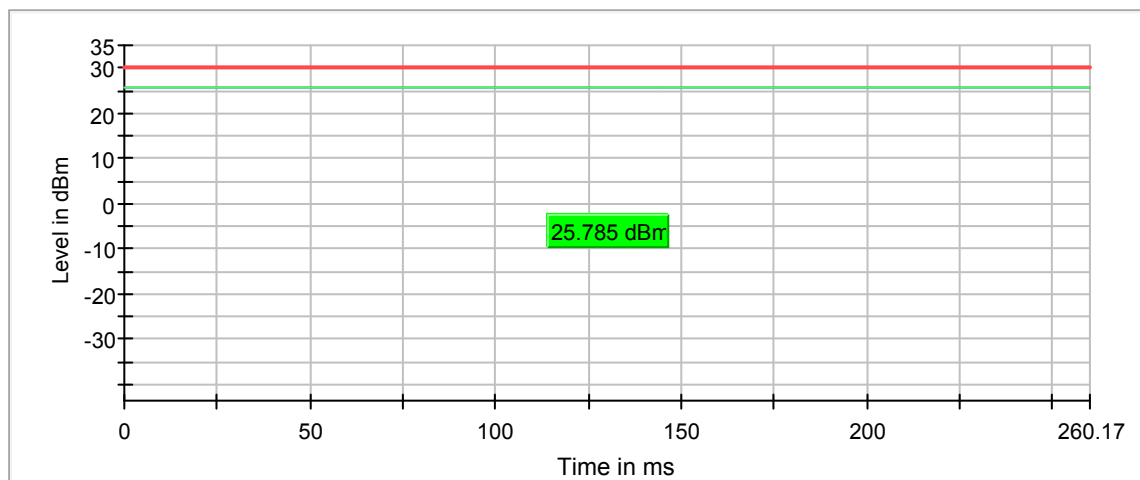


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 11ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2402.000000	25.0	30.0	25.8	26.279	Pass



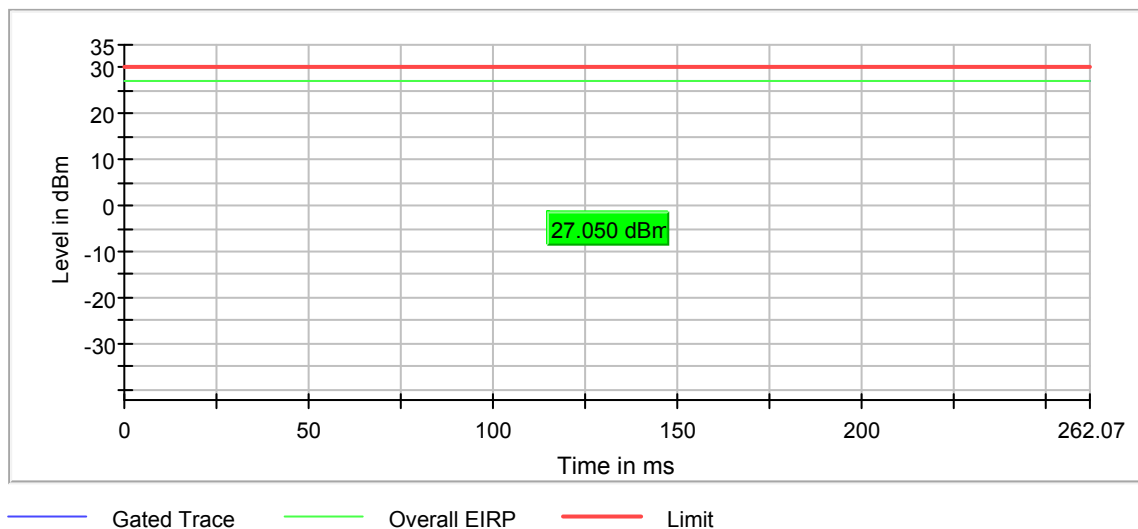
— Gated Trace
 — Overall EIRP
 — Limit

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

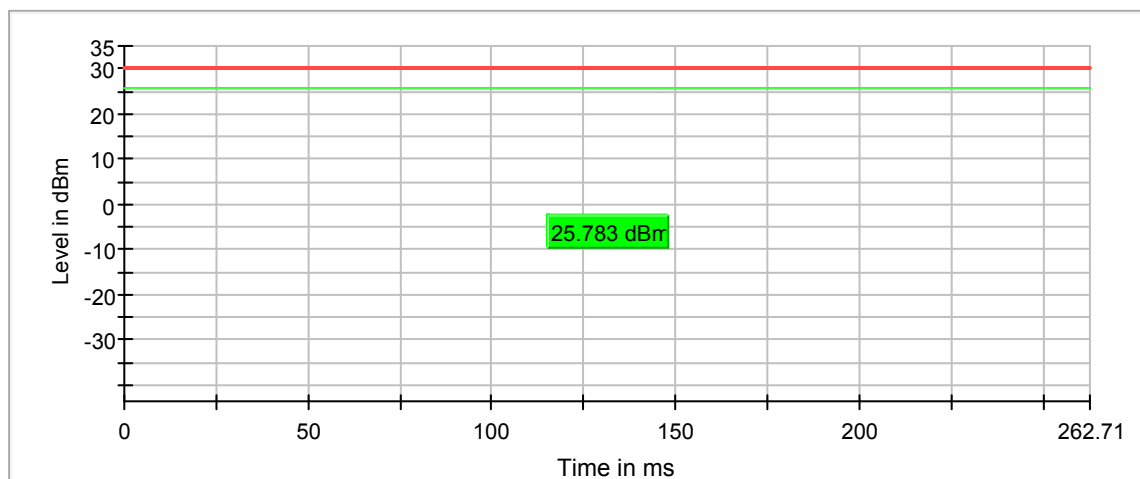
Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	25.1	30.0	27.1	26.286	Pass



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 11ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2478.000000	25.0	30.0	25.8	26.429	Pass



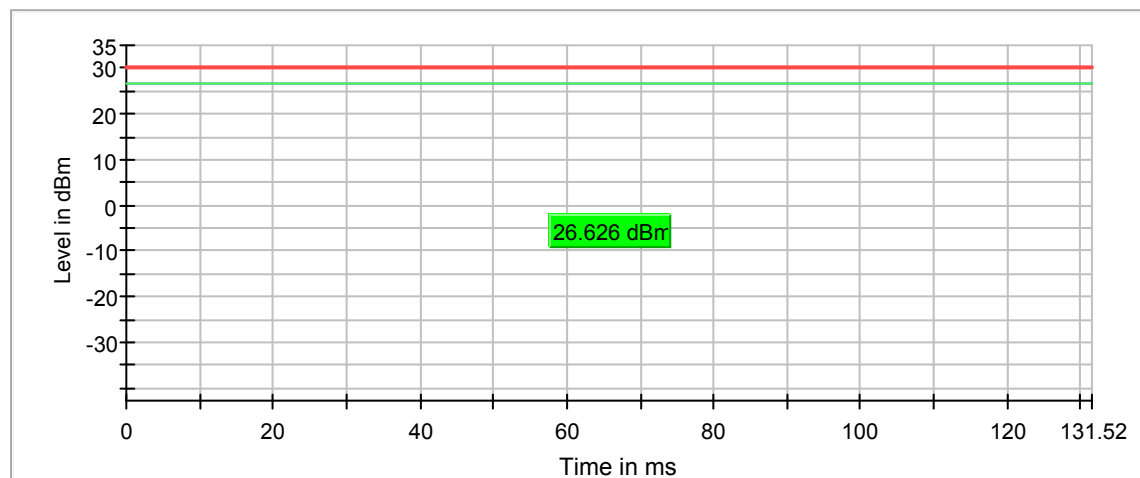
— Gated Trace — Overall EIRP — Limit

**DATA PAGE**

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 22ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2404.000000	25.0	30.0	26.6	13.231	Pass



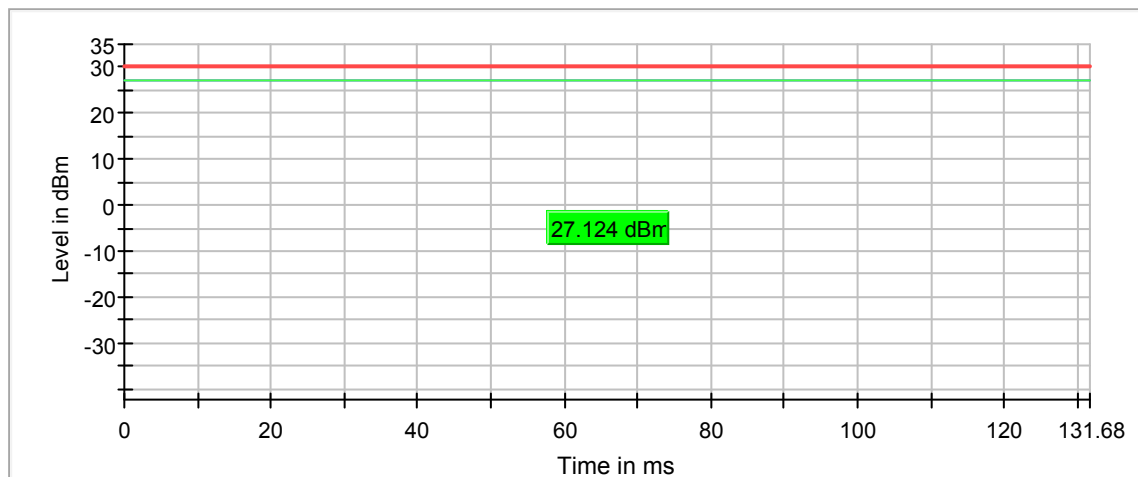
— Gated Trace — Overall EIRP — Limit

**DATA PAGE**

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 22ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	25.1	30.0	27.1	13.247	Pass

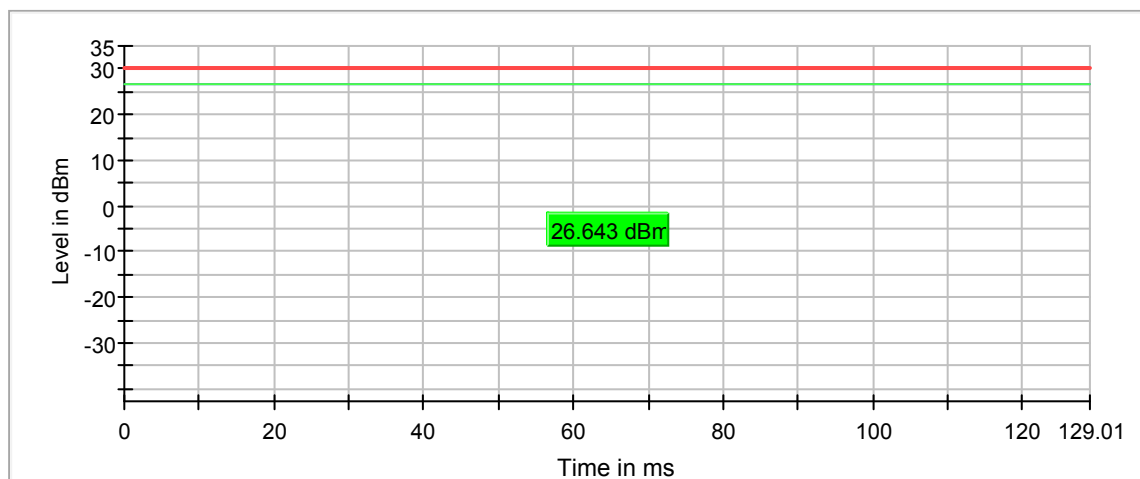


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 22ms – 2476MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2476.000000	25.0	30.0	26.6	13.273	Pass

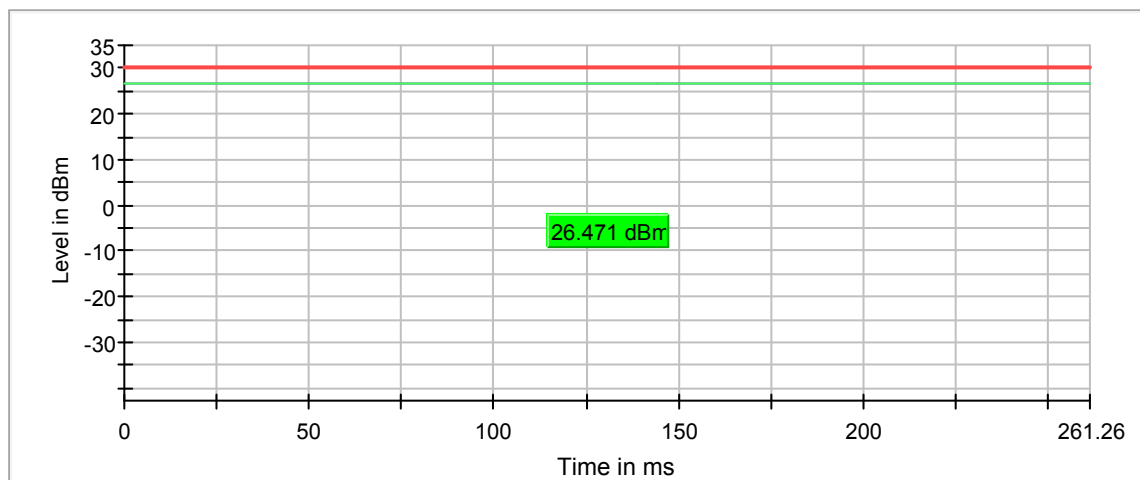


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 11ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2404.000000	24.9	30.0	26.5	26.283	Pass

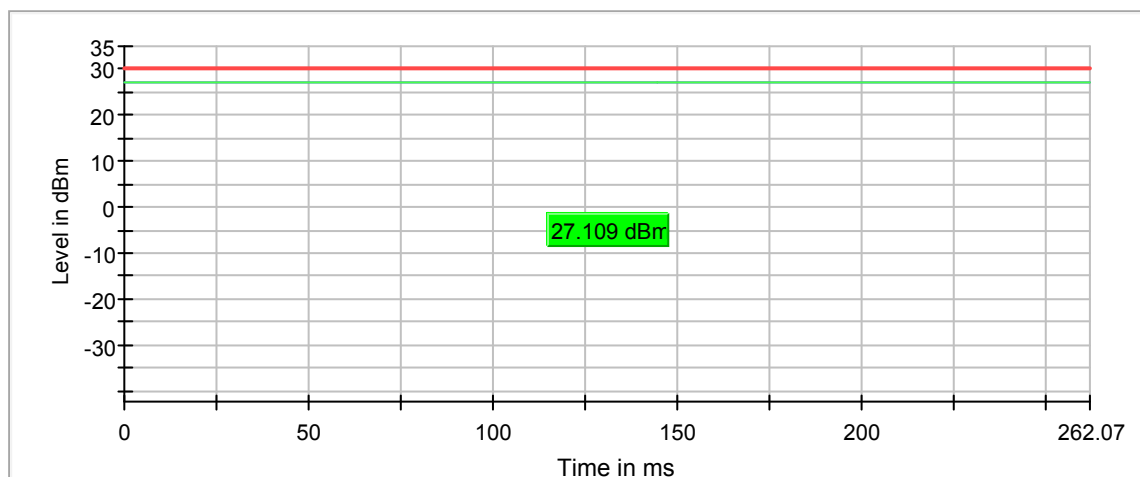


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	25.1	30.0	27.1	26.365	Pass

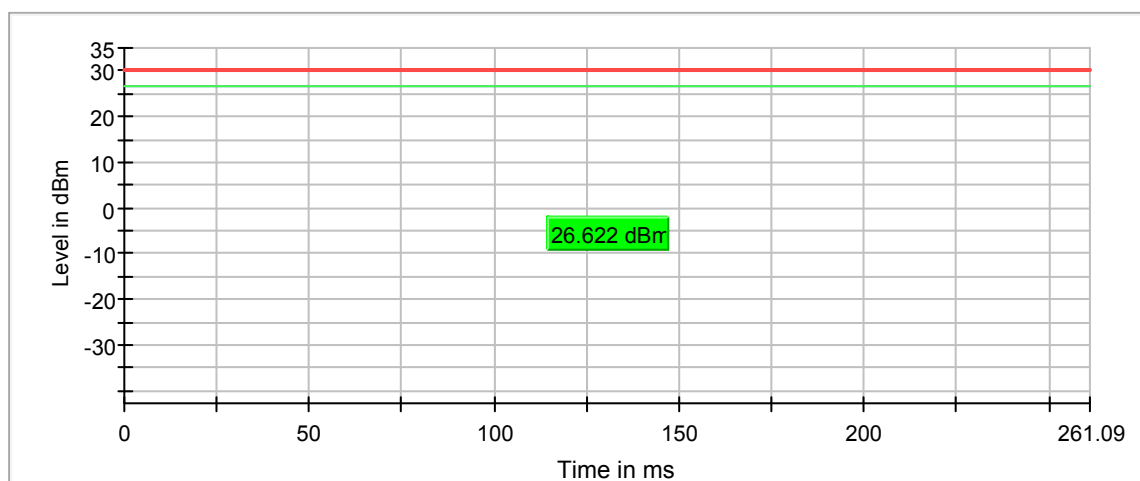


— Gated Trace
 — Overall EIRP
 — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 11ms – 2476MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2476.000000	25.0	30.0	26.6	26.373	Pass

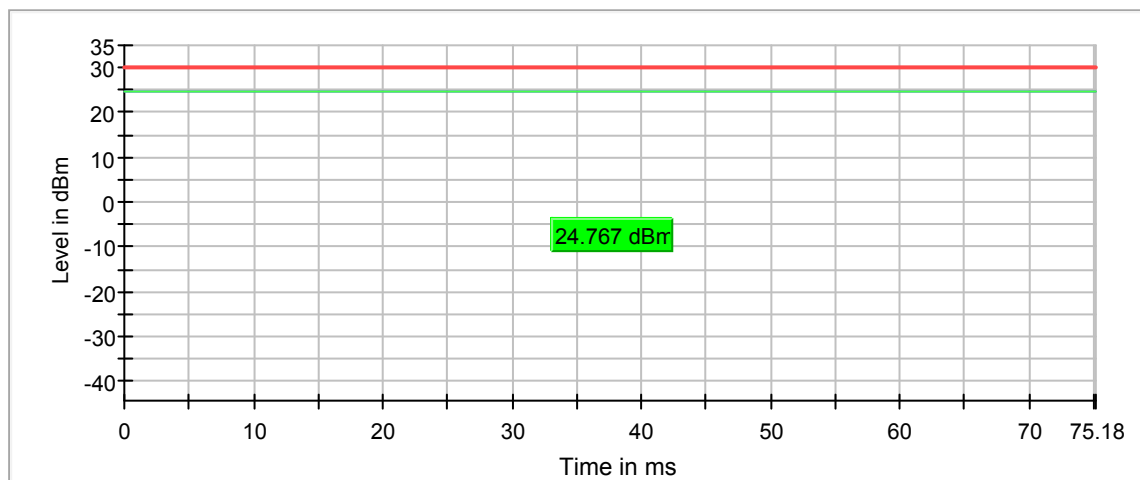


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 11ms – 2405MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2405.000000	24.8	30.0	24.8	7.594	Pass

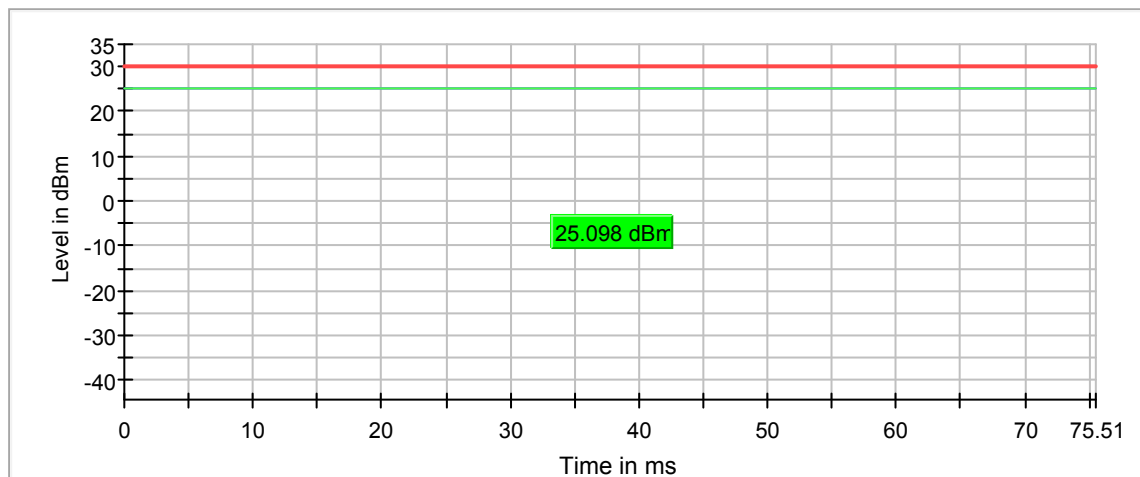


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	25.1	30.0	25.1	7.627	Pass

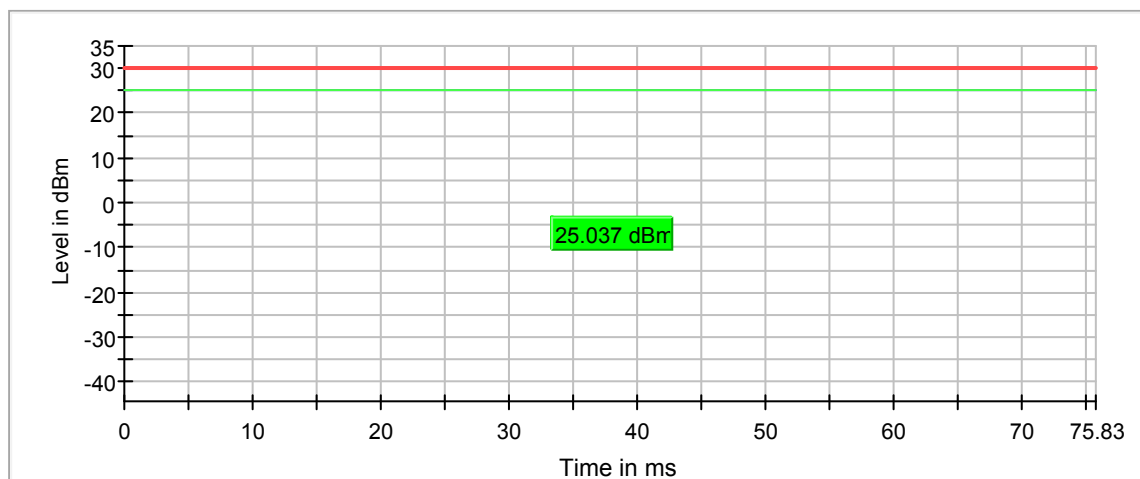


— Gated Trace
 — Overall EIRP
 — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 11ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2478.000000	25.0	30.0	25.0	7.660	Pass

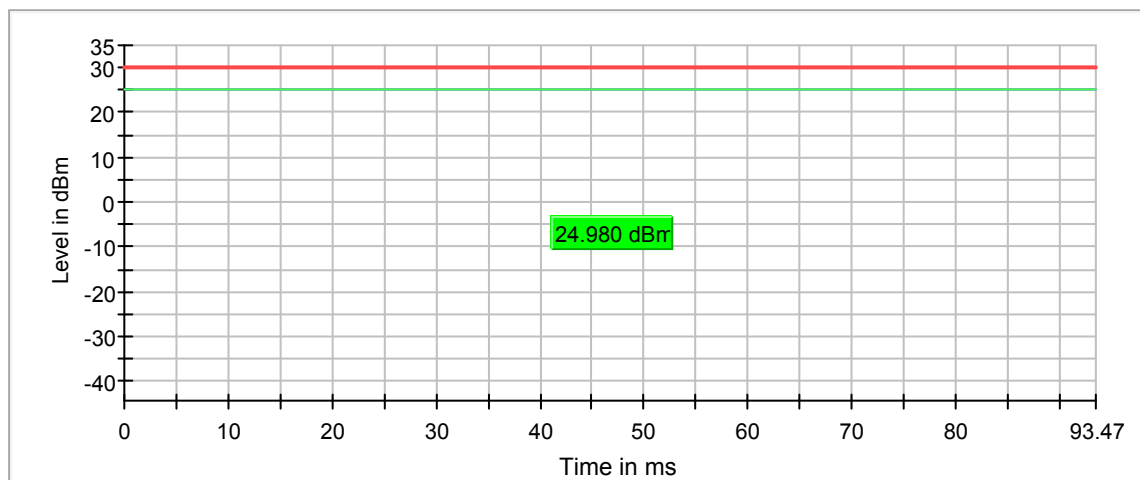


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 5.5ms – 2405MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2405.000000	25.0	30.0	25.0	9.390	Pass

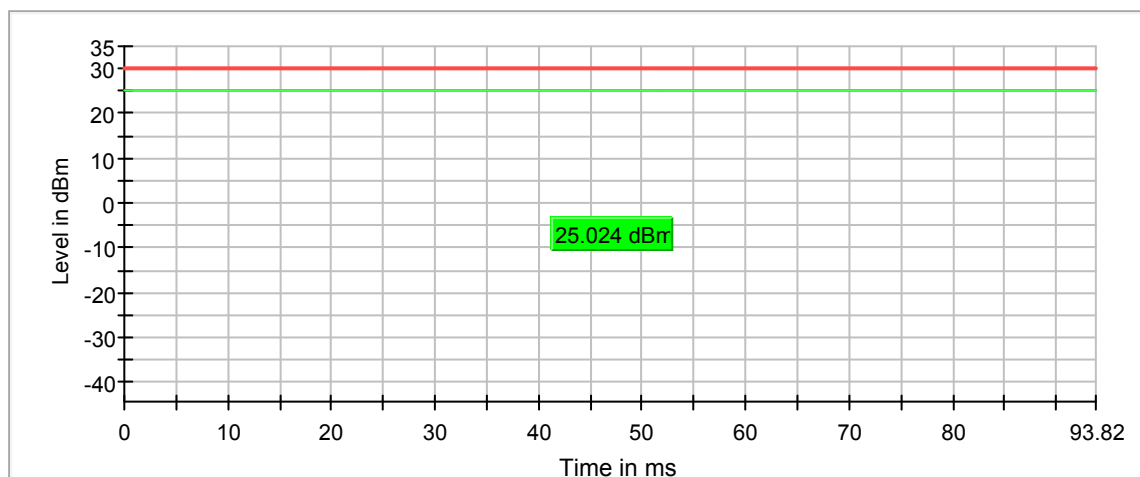


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 5.5ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	25.0	30.0	25.0	9.424	Pass

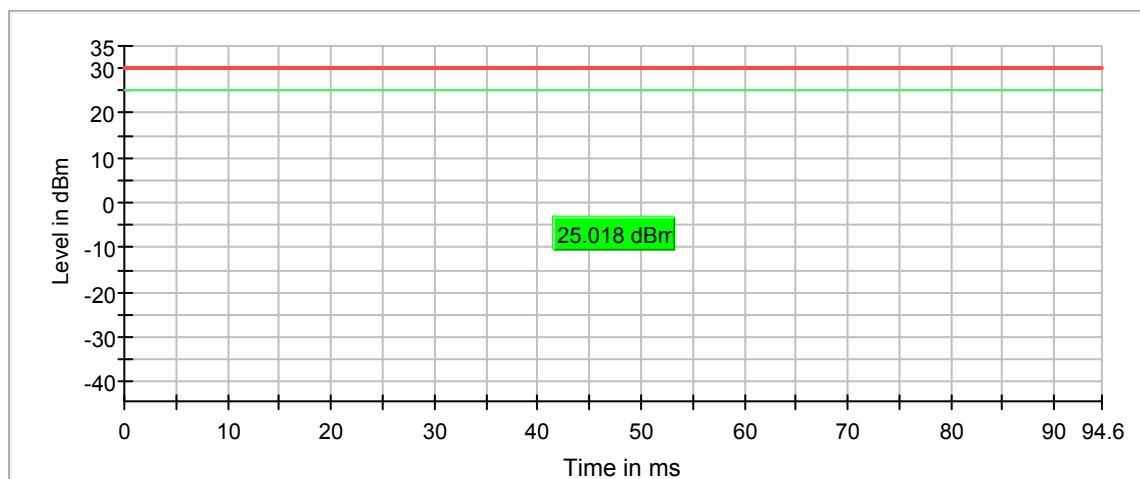


— Gated Trace
 — Overall EIRP
 — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 5.5ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2478.000000	25.0	30.0	25.0	9.503	Pass



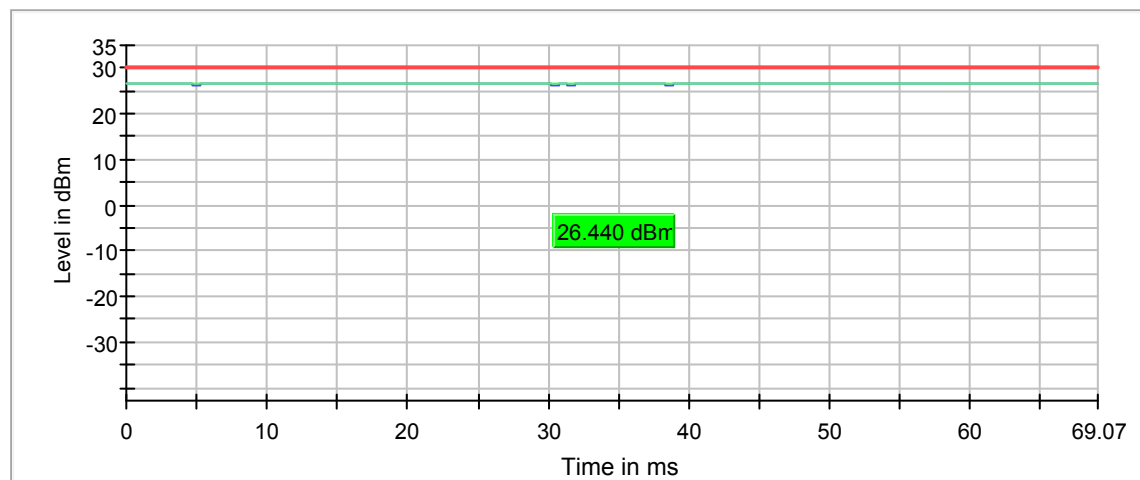
— Gated Trace — Overall EIRP — Limit

**DATA PAGE**

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 16.5ms – 2405MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2402.000000	24.9	30.0	26.4	7.061	Pass

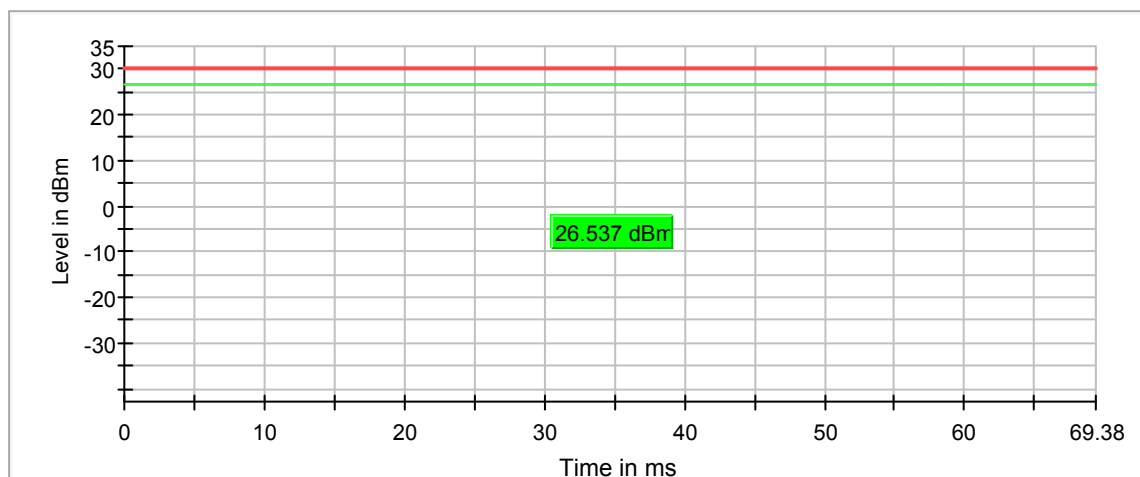


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 16.5ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	25.0	30.0	26.5	7.093	Pass

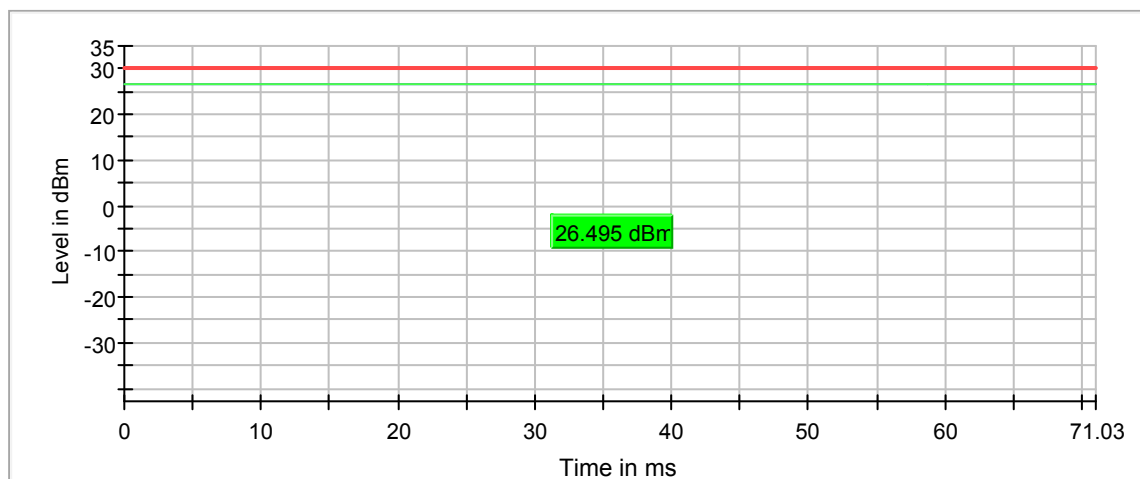


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 16.5ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2478.000000	25.0	30.0	26.5	7.141	Pass



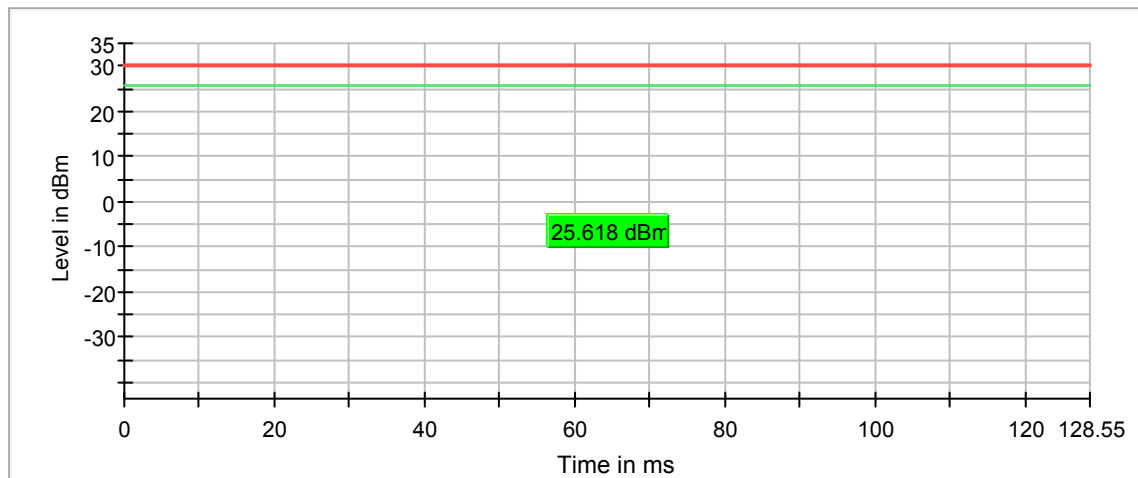
— Gated Trace — Overall EIRP — Limit

**DATA PAGE**

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 22ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2402.000000	24.8	30.0	25.6	13.225	Pass

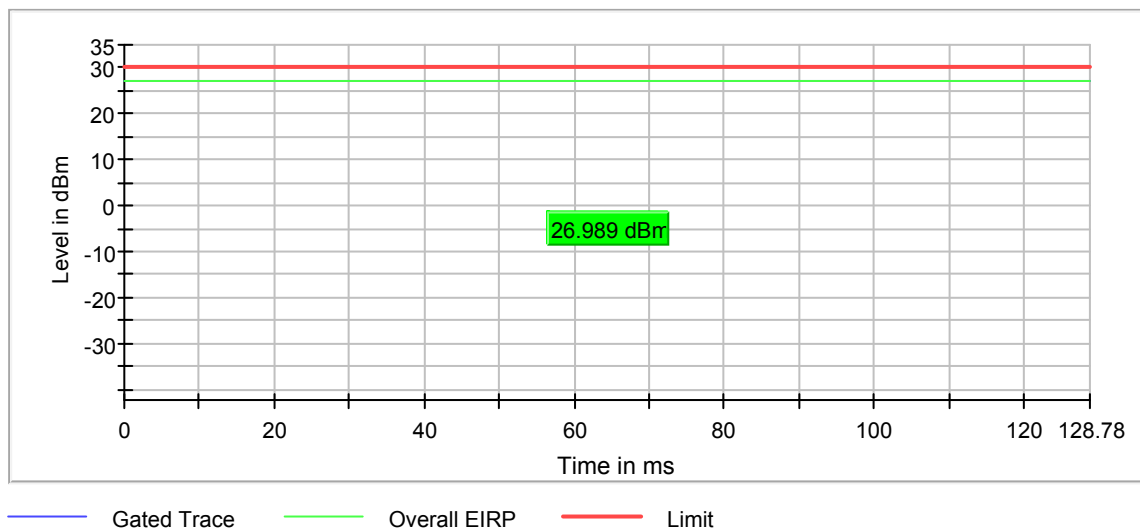


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 22ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

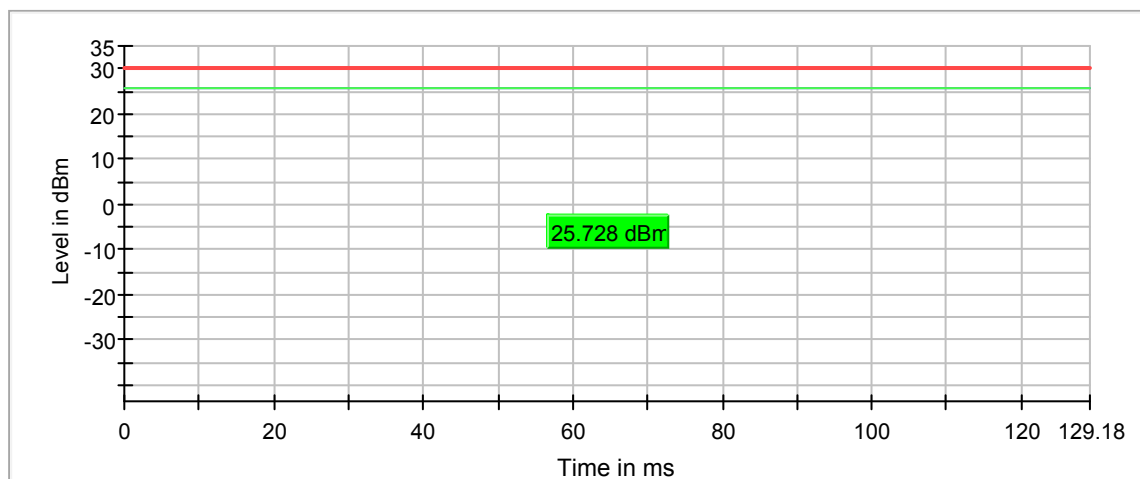
Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	25.0	30.0	27.0	13.249	Pass



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 22ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2478.000000	24.9	30.0	25.7	13.290	Pass

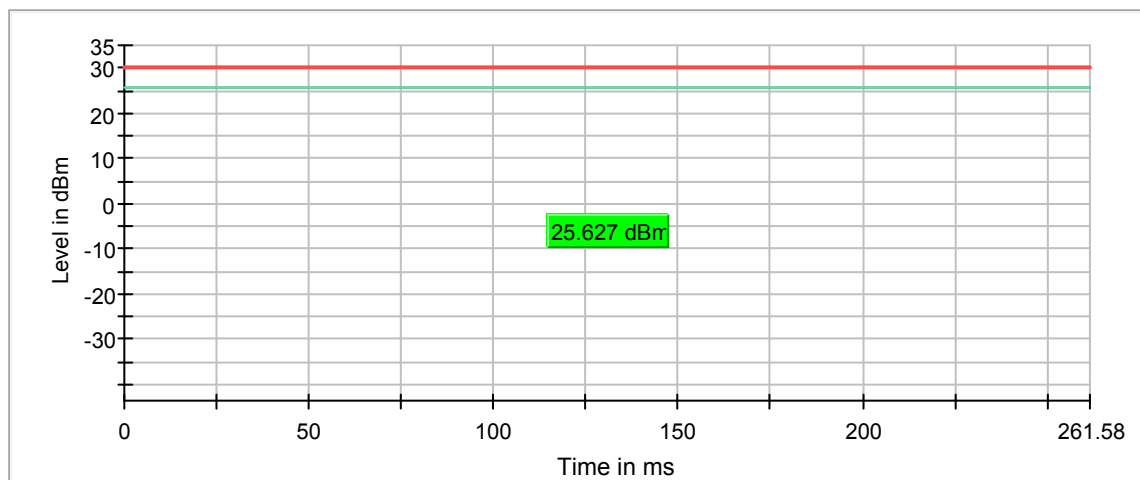


— Gated Trace
 — Overall EIRP
 — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 11ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2402.000000	24.8	30.0	25.6	26.237	Pass



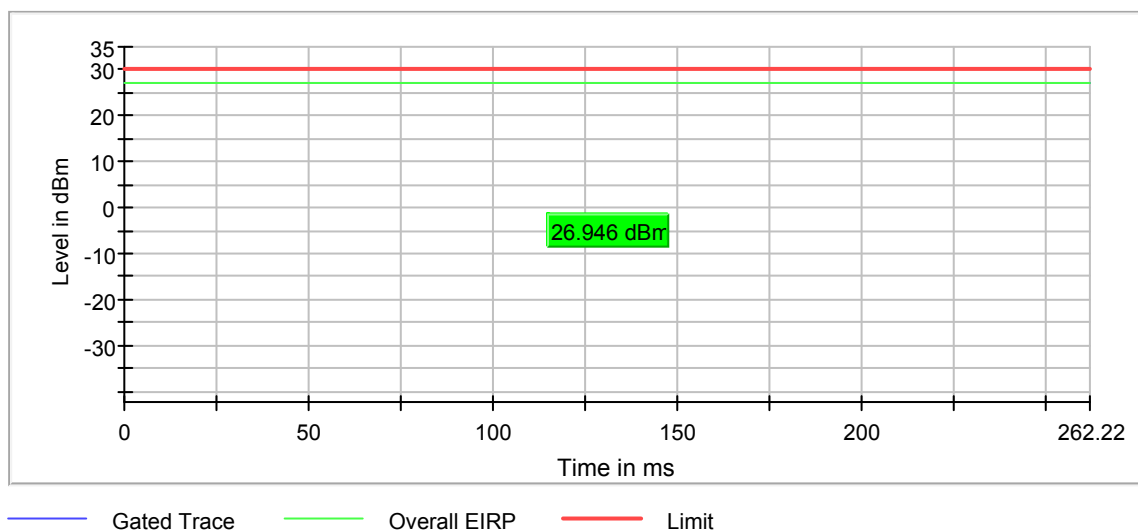
— Gated Trace — Overall EIRP — Limit

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

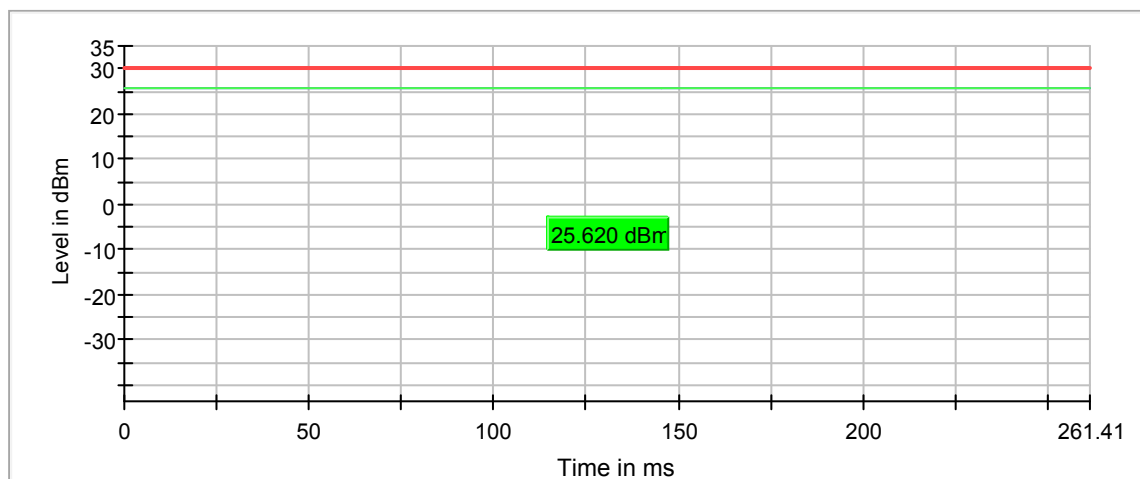
Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	24.9	30.0	26.9	26.380	Pass



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 11ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2478.000000	24.8	30.0	25.6	26.405	Pass

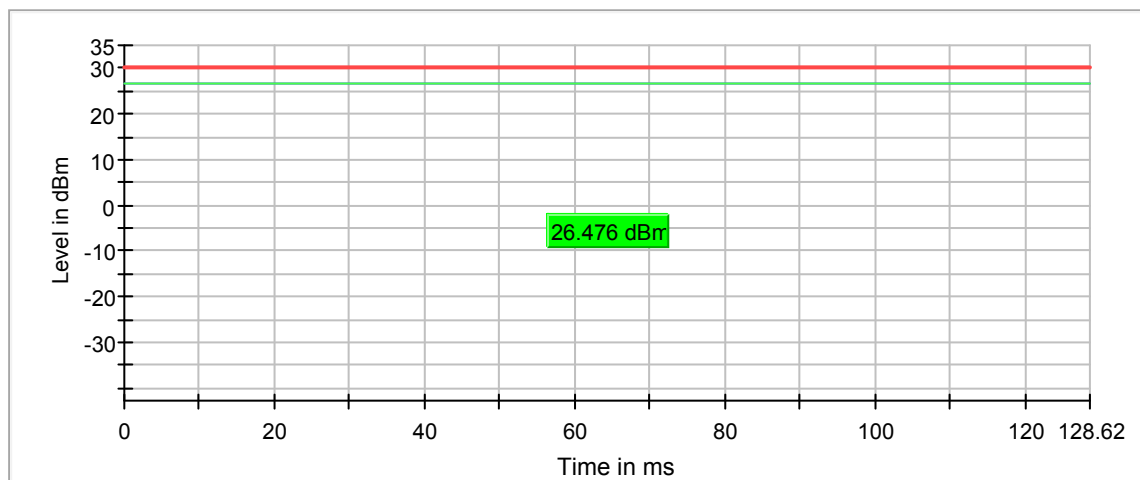


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 22ms – 2404MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2404.000000	24.9	30.0	26.5	13.233	Pass

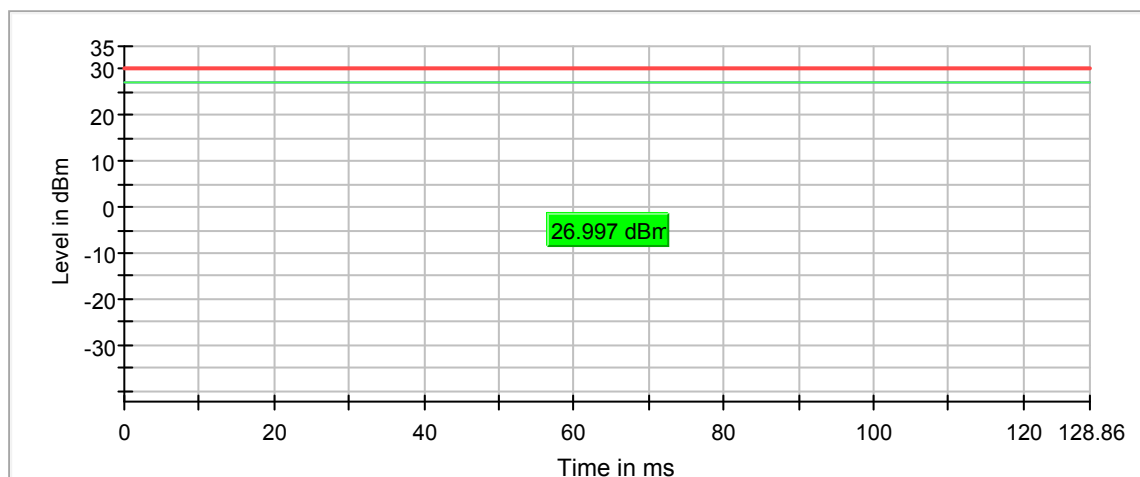


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 22ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	25.0	30.0	27.0	13.257	Pass

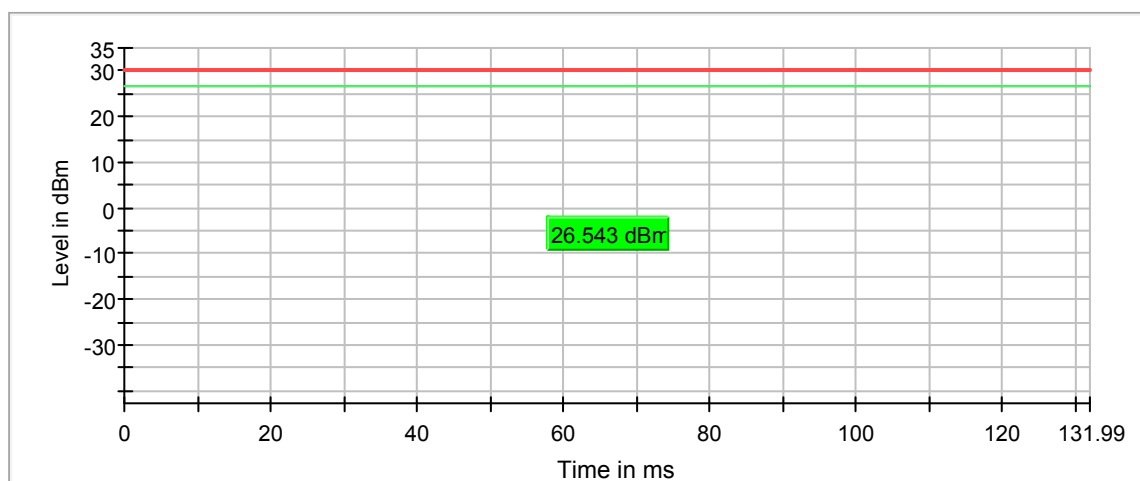


— Gated Trace
 — Overall EIRP
 — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 22ms – 2476MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2476.000000	24.9	30.0	26.5	13.278	Pass



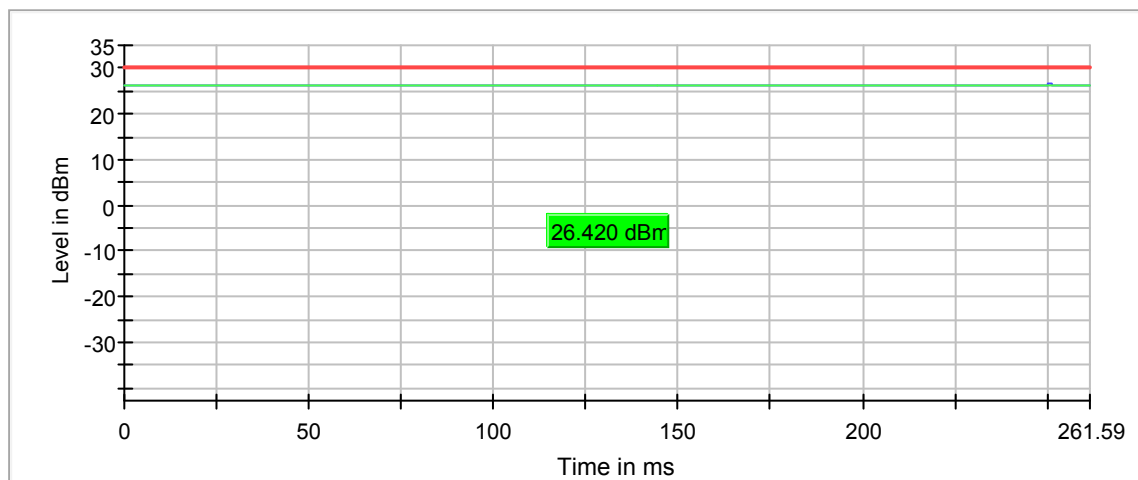
— Gated Trace — Overall EIRP — Limit

**DATA PAGE**

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 11ms – 2404MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2404.000000	24.8	30.0	26.4	26.237	Pass

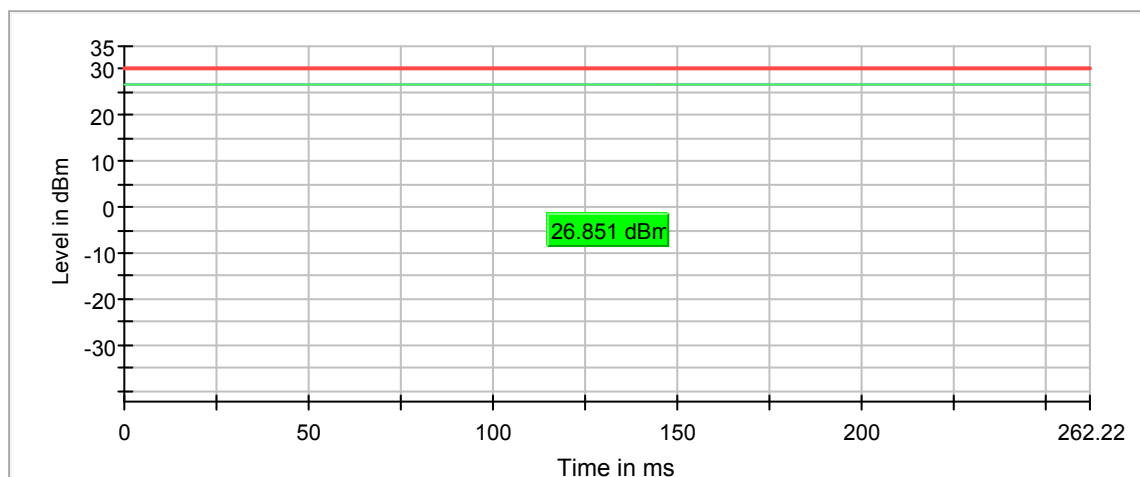


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	24.9	30.0	26.9	26.301	Pass

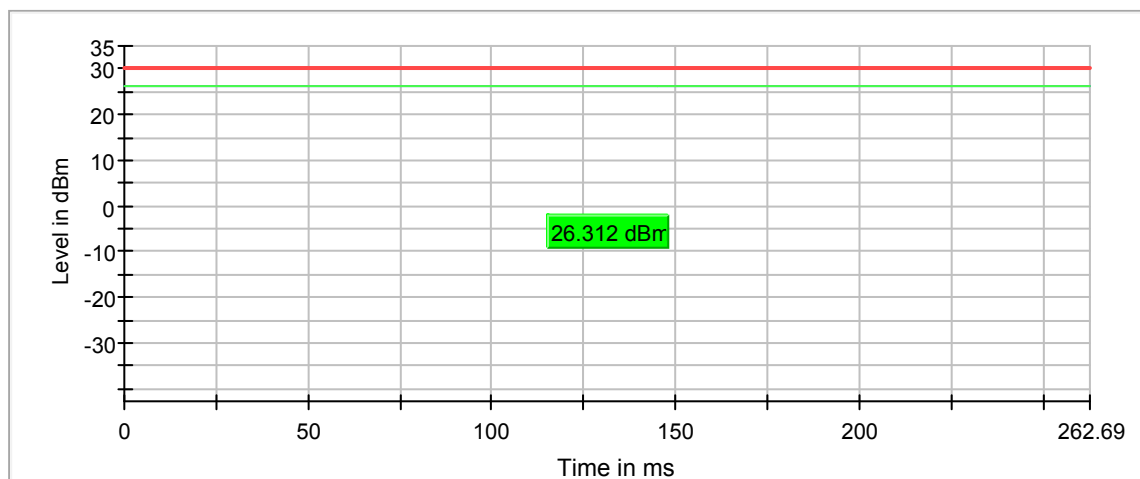


— Gated Trace
 — Overall EIRP
 — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMX 11ms – 2476MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2476.000000	24.7	30.0	26.3	26.427	Pass



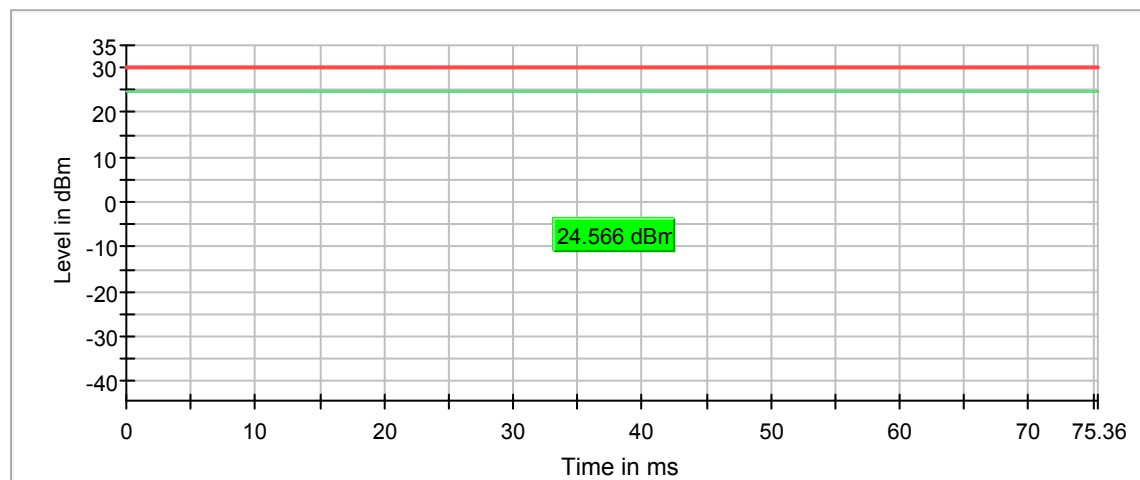
— Gated Trace — Overall EIRP — Limit

**DATA PAGE**

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 11ms – 2405MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2405.000000	24.6	30.0	24.6	7.607	Pass



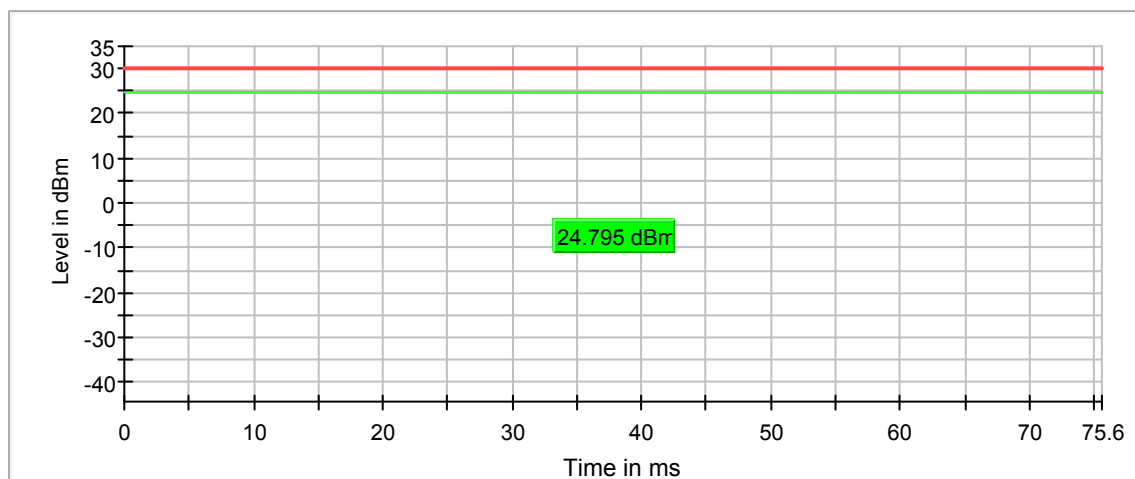
— Gated Trace — Overall EIRP — Limit

**DATA PAGE**

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	24.8	30.0	24.8	7.630	Pass

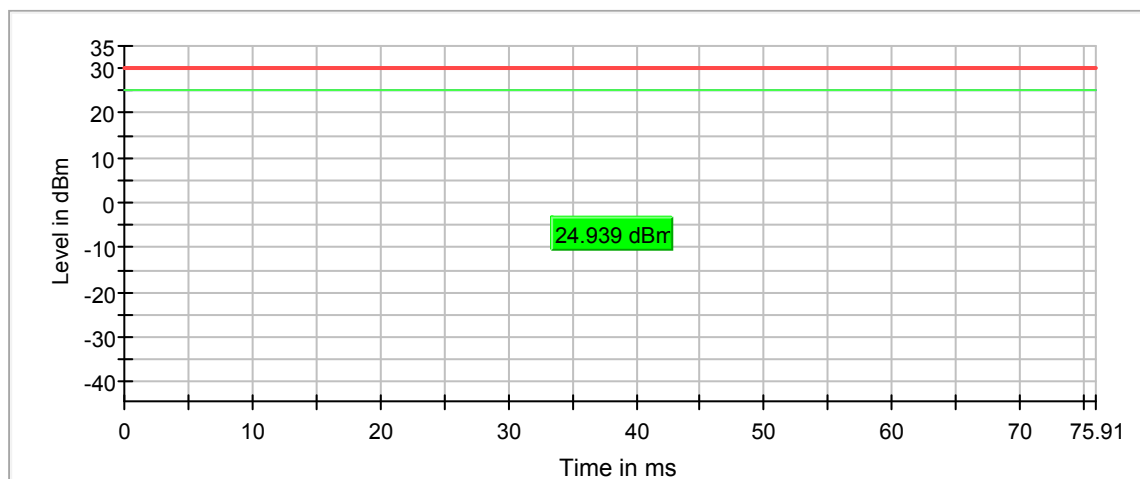


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 11ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2478.000000	24.9	30.0	24.9	7.663	Pass

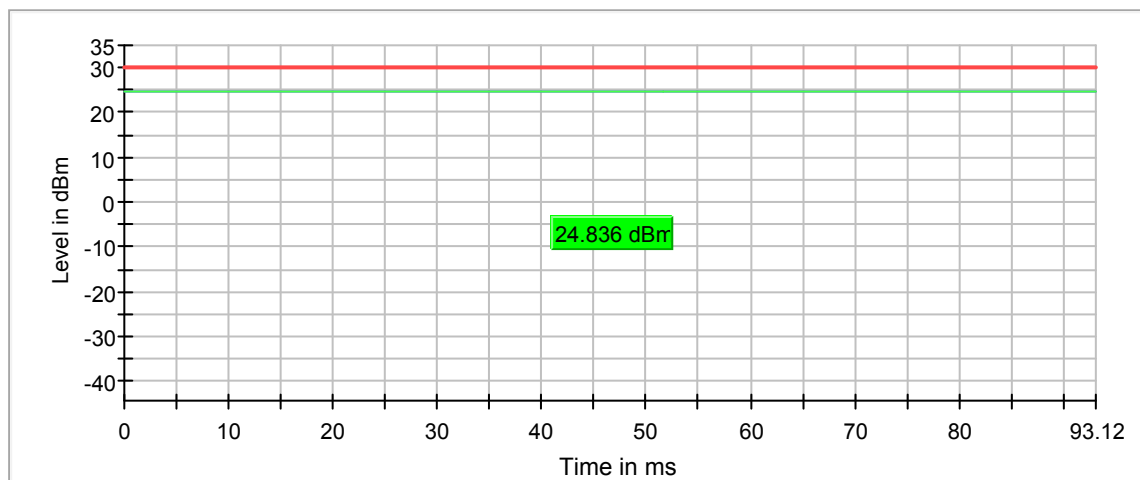


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 5.5ms – 2405MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2405.000000	24.8	30.0	24.8	9.377	Pass



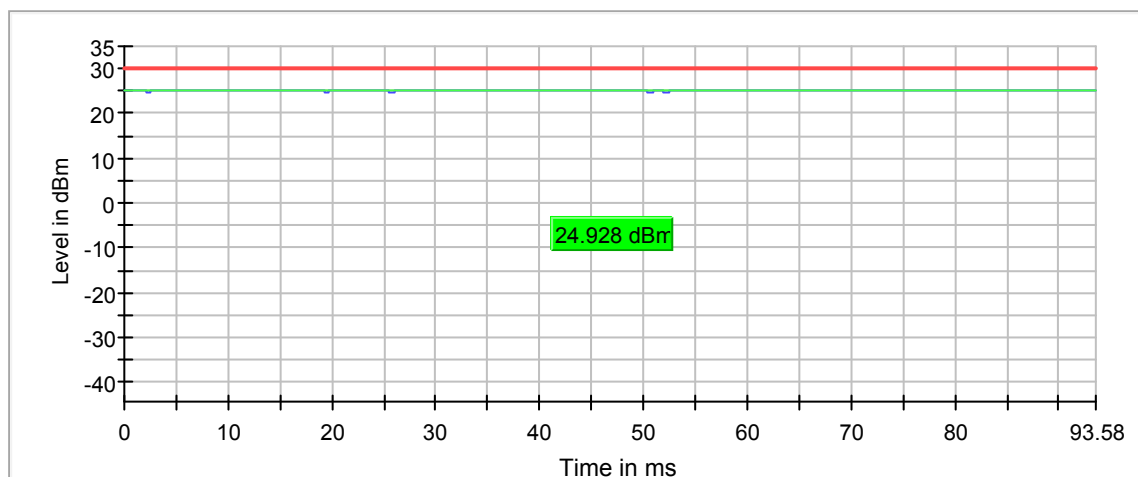
— Gated Trace — Overall EIRP — Limit

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 5.5ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	24.9	30.0	24.9	9.424	Pass

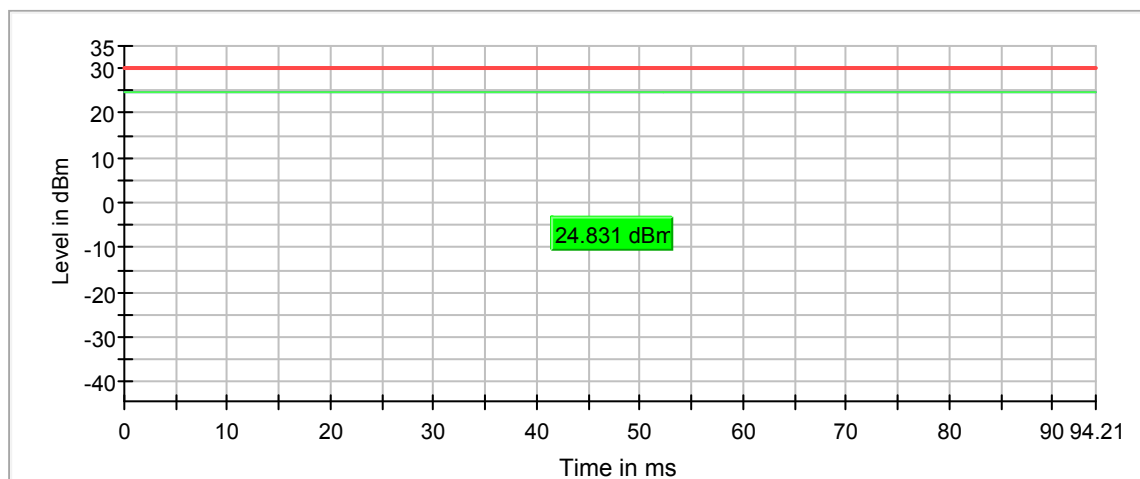


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSMR 5.5ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2478.000000	24.8	30.0	24.8	9.487	Pass

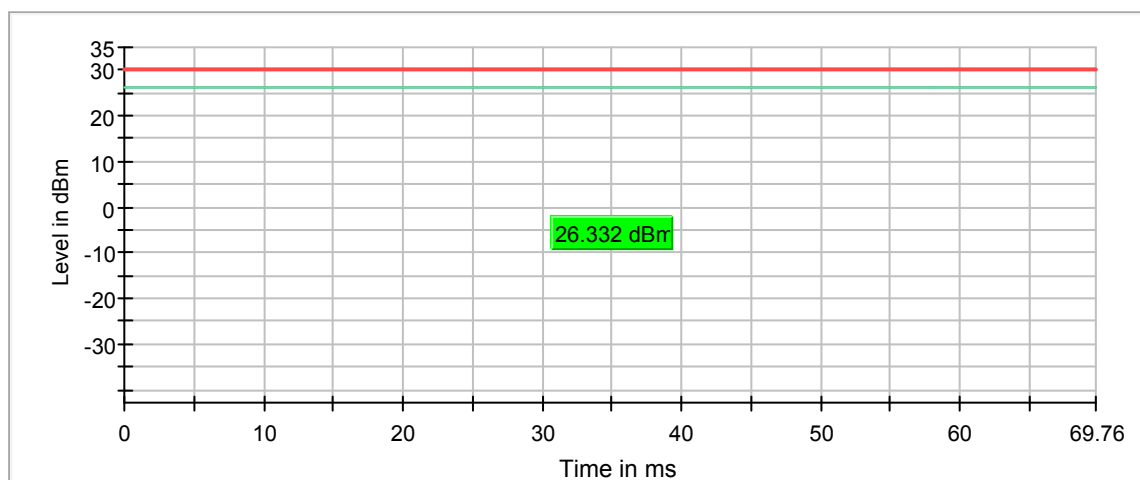


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 16.5ms – 2405MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2402.000000	24.8	30.0	26.3	7.042	Pass



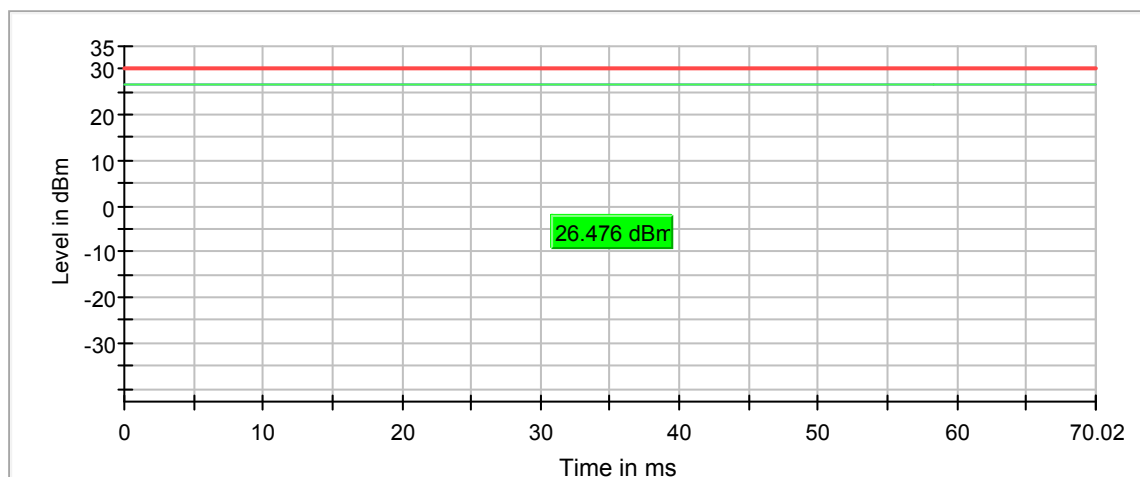
— Gated Trace — Overall EIRP — Limit

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 16.5ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2440.000000	25.0	30.0	26.5	7.067	Pass

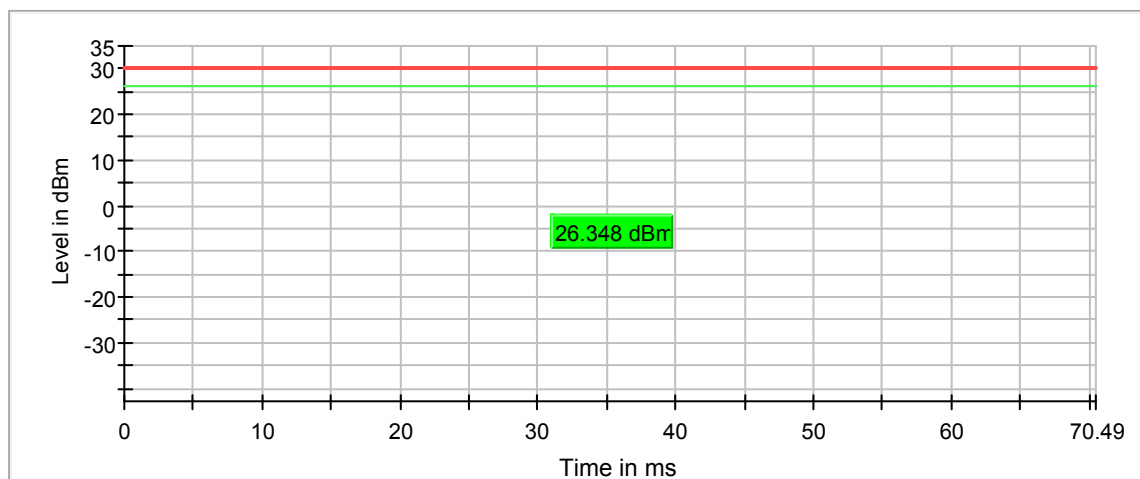


— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Conducted
MODE	DSM2 16.5ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

RF OUTPUT POWER

Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	Duty Cycle (%)	Result
2478.000000	24.8	30.0	26.3	7.115	Pass



— Gated Trace — Overall EIRP — Limit

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Radiated
MODE	DSM2 22ms - Air
DATE TESTED	July 18, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. (MHz)	Ant Pol	Wide BW Meter Reading (dBuV)	Matched Sig. Gen. Reading (dBm)	Equivalent Antenna Gain (dB)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2402.00	H	76.0	14.0	5.7	2.7	16.9	36.0	-19.1
2402.00	V	74.9	13.2	5.7	2.7	16.1	36.0	-19.9
2440.00	H	77.4	15.5	5.5	2.8	18.2	36.0	-17.8
2440.00	V	76.8	15.2	5.5	2.8	17.9	36.0	-18.1
2478.00	H	75.7	13.8	5.6	2.8	16.6	36.0	-19.4
2478.00	V	78.5	16.9	5.6	2.8	19.7	36.0	-16.3

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	RF Output Power - Radiated
MODE	DSMR 5.5ms - Surface
DATE TESTED	July 18, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. (MHz)	Ant Pol	Wide BW Meter Reading (dBuV)	Matched Sig. Gen. Reading (dBm)	Equivalent Antenna Gain (dB)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2405.00	H	76.1	14.1	5.7	2.8	17.0	36.0	-19.0
2405.00	V	75.7	14.0	5.7	2.8	16.9	36.0	-19.1
2440.00	H	77.3	15.4	5.5	2.8	18.1	36.0	-17.9
2440.00	V	77.4	15.7	5.5	2.8	18.5	36.0	-17.5
2478.00	H	77.8	16.0	5.6	2.8	18.8	36.0	-17.2
2478.00	V	80.4	18.7	5.6	2.8	21.6	36.0	-14.4

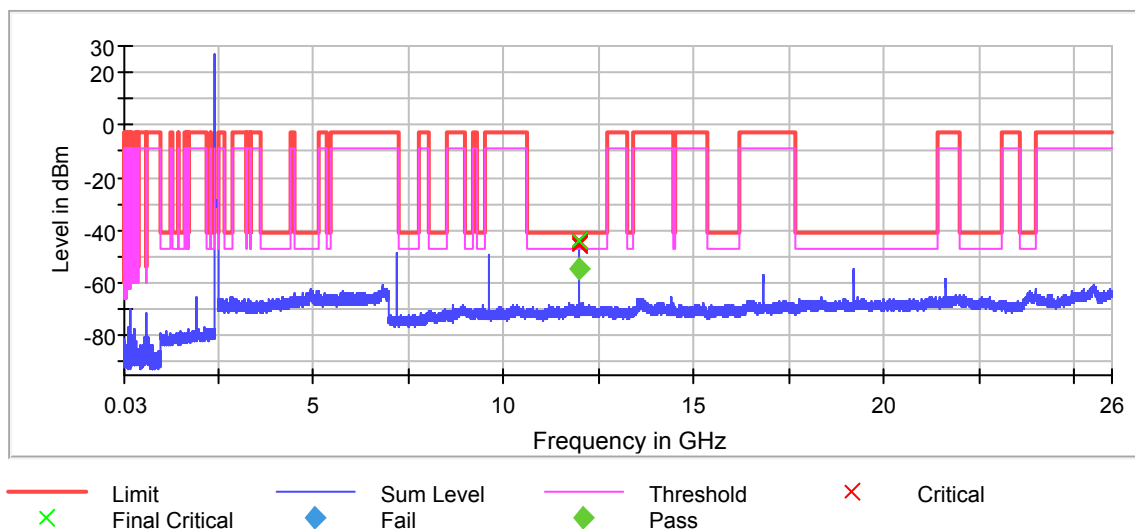
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 22ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
12010.750000	-43.6	-54.7	-41.2	13.5	PASS



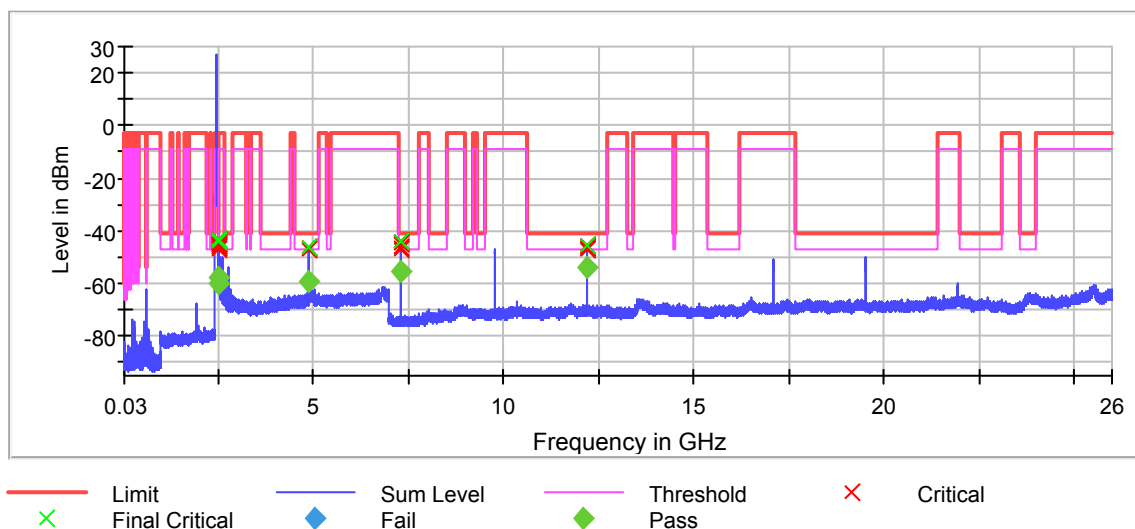
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 22ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2485.250000	-42.9	-60.2	-41.2	19.0	PASS
2487.750000	-43.8	-57.6	-41.2	16.4	PASS
4880.250000	-46.3	-59.1	-41.2	17.9	PASS
7320.250000	-44.1	-55.6	-41.2	14.4	PASS
12201.250000	-45.2	-54.1	-41.2	12.9	PASS

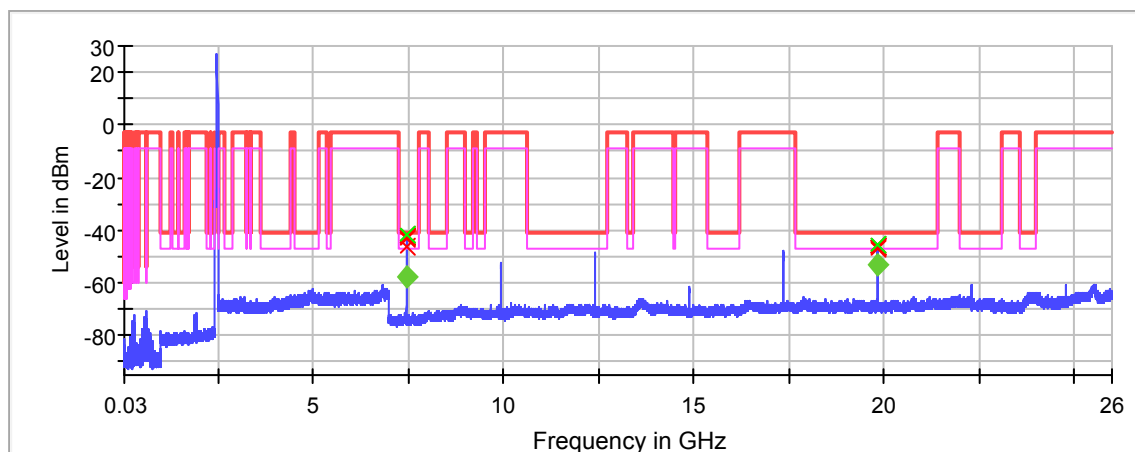


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 22ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
7433.250000	-42.0	-58.0	-41.2	16.8	PASS
19825.750000	-45.8	-52.9	-41.2	11.7	PASS



— Limit
— Sum Level
— Threshold
X Final Critical
◆ Fail
◆ Pass
X Critical

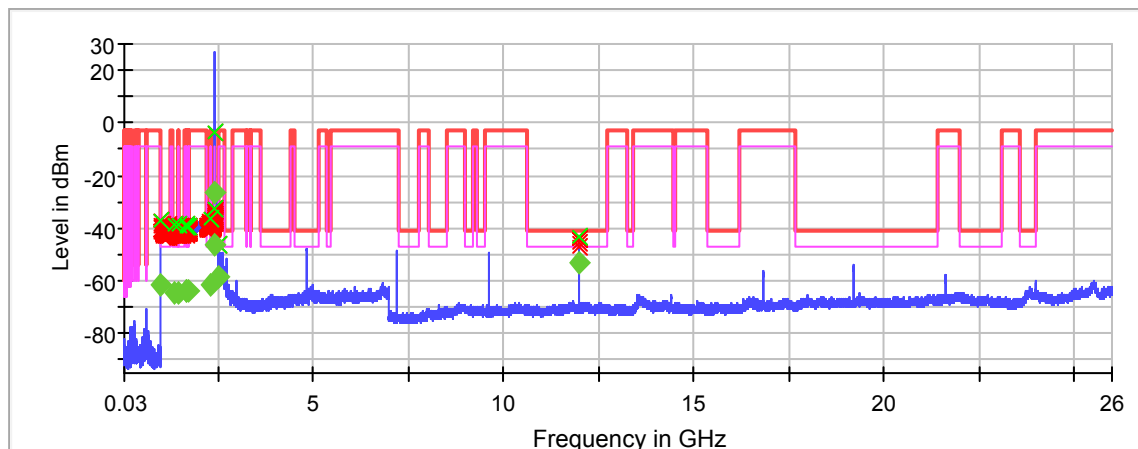
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 11ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
1000.250000	-37.1	-61.4	-41.2	20.2	PASS
1359.250000	-38.4	-64.2	-41.2	23.0	PASS
1444.250000	-38.9	-64.2	-41.2	23.0	PASS
1646.250000	-39.5	-64.0	-41.2	22.8	PASS
1661.750000	-38.8	-64.0	-41.2	22.8	PASS
1719.250000	-39.4	-64.0	-41.2	22.8	PASS
2291.250000	-36.4	-61.4	-41.2	20.2	PASS
2384.250000	-32.6	-46.1	-41.2	4.9	PASS
2399.750000	-3.6	-26.1	-3.1	23.0	PASS
2484.250000	-46.4	-58.1	-41.2	16.9	PASS
12009.750000	-43.5	-53.1	-41.2	11.9	PASS



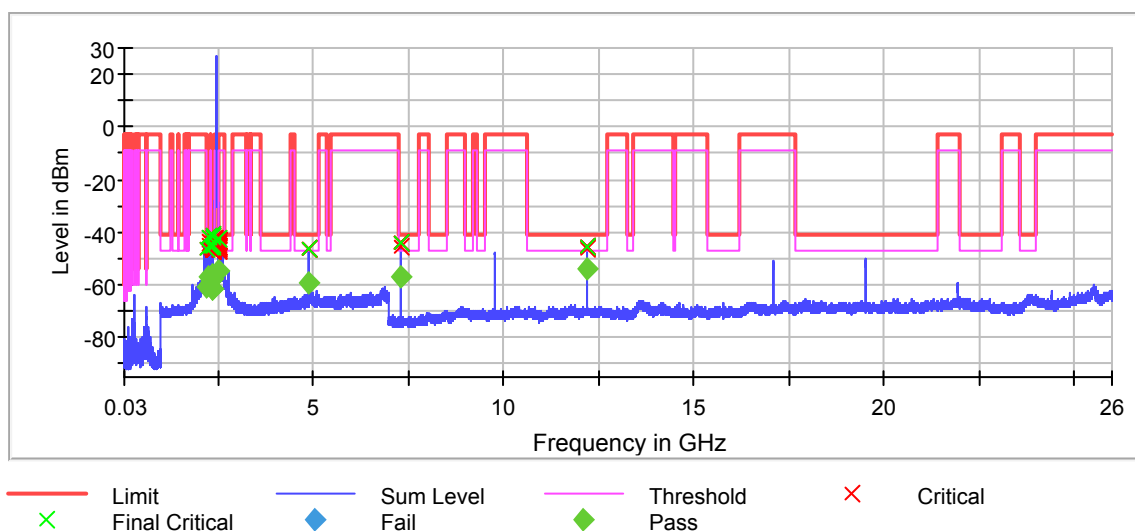
— Limit
x Final Critical
— Sum Level
◆ Sum Level Fail
— Threshold
◆ Threshold Pass
x Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2200.250000	-45.9	-61.1	-41.2	19.9	PASS
2247.750000	-41.8	-56.8	-41.2	15.6	PASS
2287.250000	-45.3	-58.1	-41.2	16.9	PASS
2323.250000	-44.6	-61.3	-41.2	20.1	PASS
2333.750000	-45.3	-61.1	-41.2	19.9	PASS
2343.750000	-40.5	-57.3	-41.2	16.1	PASS
2368.250000	-41.9	-56.5	-41.2	15.3	PASS
2483.750000	-42.2	-54.3	-41.2	13.1	PASS
4879.250000	-46.1	-58.9	-41.2	17.7	PASS
7320.750000	-44.1	-57.0	-41.2	15.8	PASS
12201.250000	-45.3	-54.1	-41.2	12.9	PASS

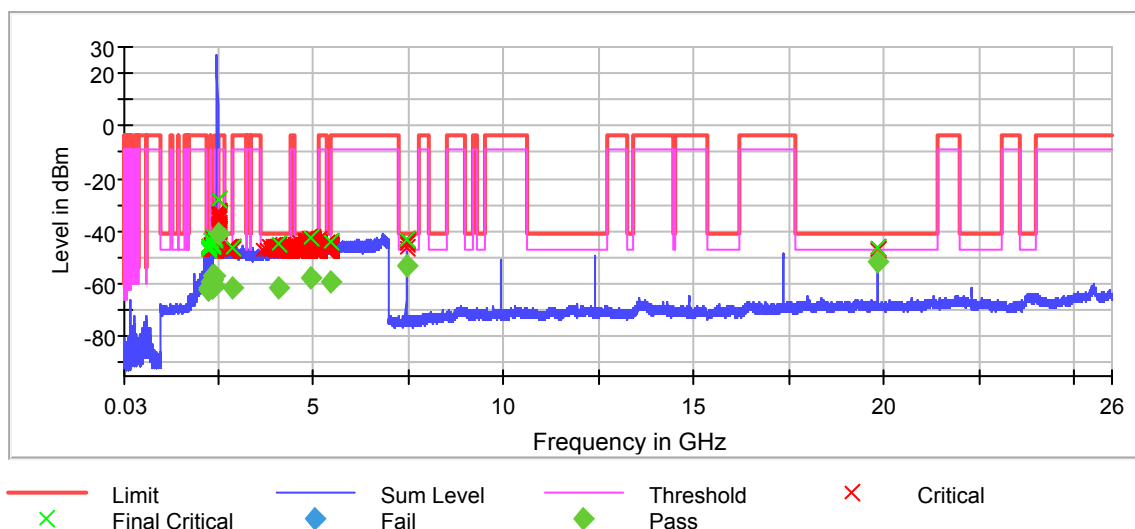


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 11ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2222.250000	-46.7	-62.4	-41.2	21.2	PASS
2238.750000	-45.6	-61.7	-41.2	20.5	PASS
2244.750000	-46.0	-62.0	-41.2	20.8	PASS
2256.750000	-45.5	-62.0	-41.2	20.8	PASS
2261.750000	-45.9	-61.1	-41.2	19.9	PASS
2285.250000	-43.5	-59.0	-41.2	17.8	PASS
2323.250000	-41.6	-56.8	-41.2	15.6	PASS
2333.750000	-45.2	-58.4	-41.2	17.2	PASS
2345.250000	-45.3	-61.3	-41.2	20.1	PASS
2354.750000	-45.2	-61.2	-41.2	20.0	PASS
2370.250000	-45.0	-60.6	-41.2	19.4	PASS
2374.750000	-43.5	-60.7	-41.2	19.5	PASS
2381.750000	-42.4	-57.0	-41.2	15.8	PASS
2483.750000	-27.9	-41.2	-41.2	0.0	PASS
2898.250000	-46.0	-61.4	-41.2	20.2	PASS
4105.250000	-44.5	-61.2	-41.2	20.0	PASS
4931.250000	-42.3	-57.9	-41.2	16.7	PASS
5449.250000	-43.8	-59.6	-41.2	18.4	PASS
7433.250000	-43.0	-53.2	-41.2	12.0	PASS
19821.750000	-46.4	-51.8	-41.2	10.6	PASS



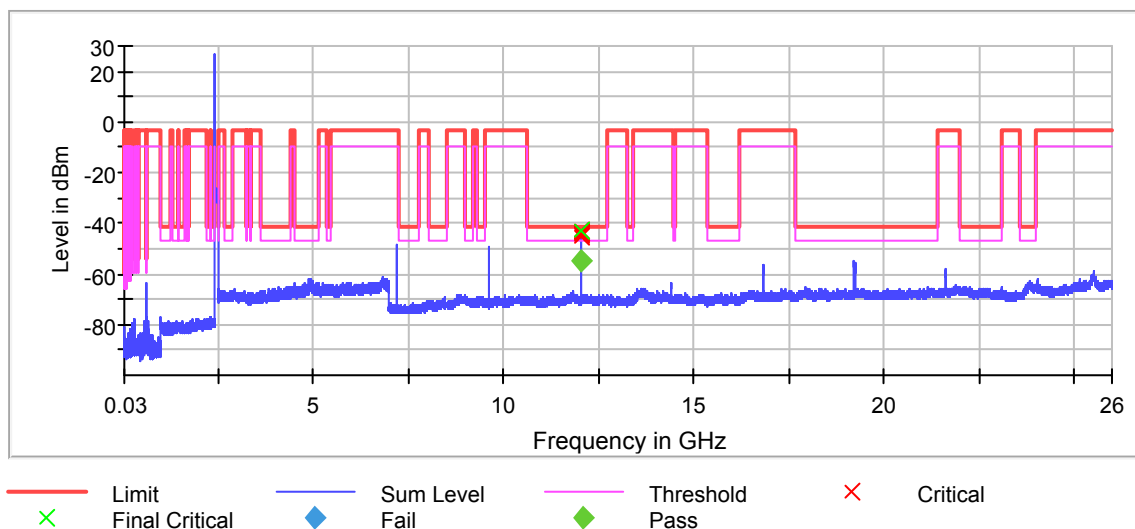
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 22ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
12018.750000	-43.2	-54.7	-41.2	13.5	PASS



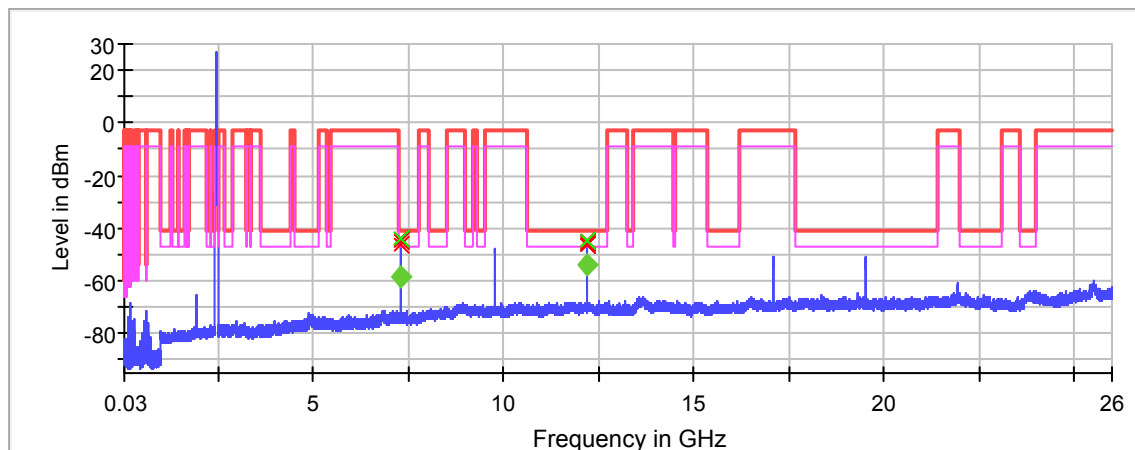
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 22ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
7320.750000	-44.1	-58.3	-41.2	17.1	PASS
12198.750000	-44.9	-54.1	-41.2	12.9	PASS



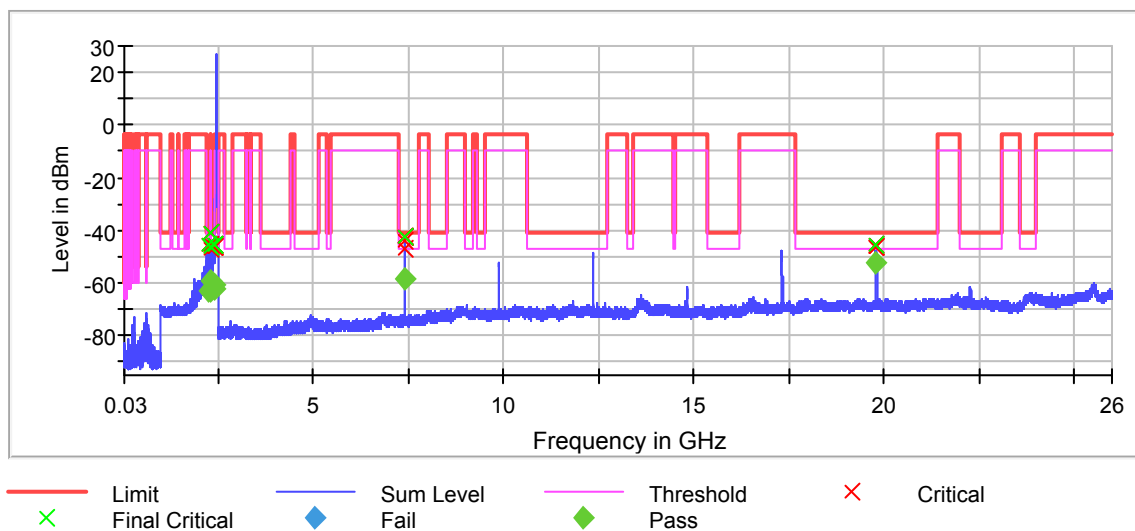
— Limit
X Final Critical
— Sum Level
◆ Fail
— Threshold
◆ Pass
X Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 22ms – 2476MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2244.250000	-45.3	-62.9	-41.2	21.7	PASS
2283.250000	-40.7	-62.8	-41.2	21.6	PASS
2320.750000	-46.3	-59.5	-41.2	18.3	PASS
2379.250000	-45.7	-60.5	-41.2	19.3	PASS
2387.250000	-45.4	-62.5	-41.2	21.3	PASS
7427.250000	-42.2	-58.1	-41.2	16.9	PASS
19809.750000	-45.2	-52.0	-41.2	10.8	PASS

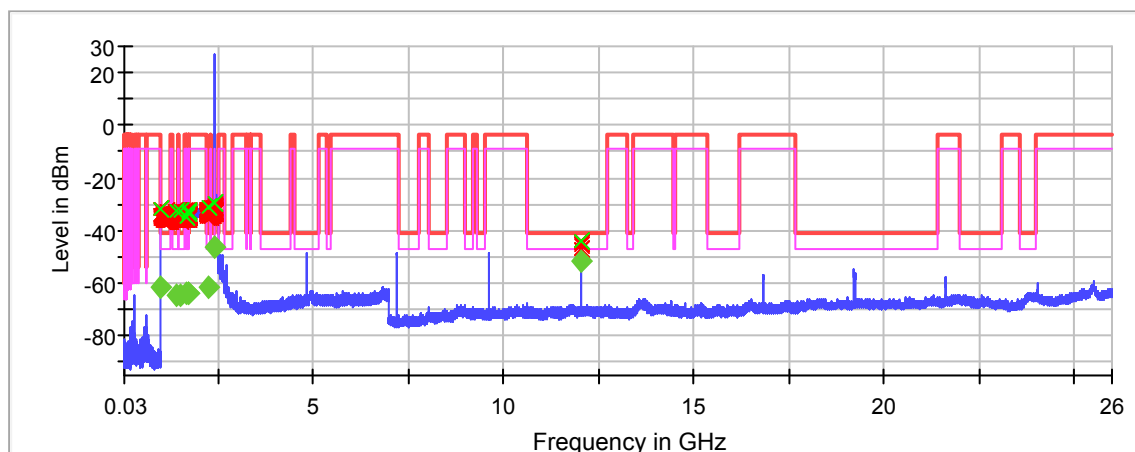


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 11ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
1000.750000	-31.8	-61.4	-41.2	20.2	PASS
1401.250000	-32.2	-64.2	-41.2	23.0	PASS
1521.750000	-32.4	-64.2	-41.2	23.0	PASS
1645.750000	-34.6	-64.0	-41.2	22.8	PASS
1690.250000	-32.4	-64.1	-41.2	22.9	PASS
1720.250000	-33.4	-64.1	-41.2	22.9	PASS
2247.750000	-31.3	-61.7	-41.2	20.5	PASS
2379.750000	-29.2	-45.9	-41.2	4.7	PASS
12020.750000	-43.7	-51.5	-41.2	10.3	PASS



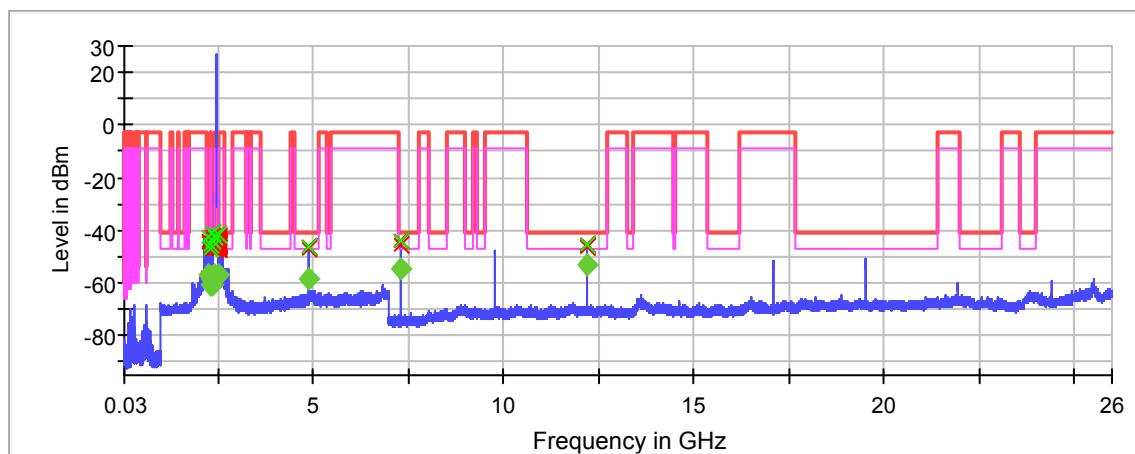
— Limit
x Final Critical
— Sum Level
◆ Fail
— Threshold
◆ Pass
x Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2247.750000	-42.1	-56.8	-41.2	15.6	PASS
2287.250000	-45.8	-58.2	-41.2	17.0	PASS
2295.250000	-46.8	-60.5	-41.2	19.3	PASS
2344.250000	-41.3	-57.6	-41.2	16.4	PASS
2351.750000	-44.0	-60.4	-41.2	19.2	PASS
2389.750000	-42.4	-56.8	-41.2	15.6	PASS
2486.250000	-41.6	-56.6	-41.2	15.4	PASS
4880.250000	-46.0	-58.7	-41.2	17.5	PASS
7320.750000	-44.0	-54.3	-41.2	13.1	PASS
12199.750000	-45.4	-53.1	-41.2	11.9	PASS



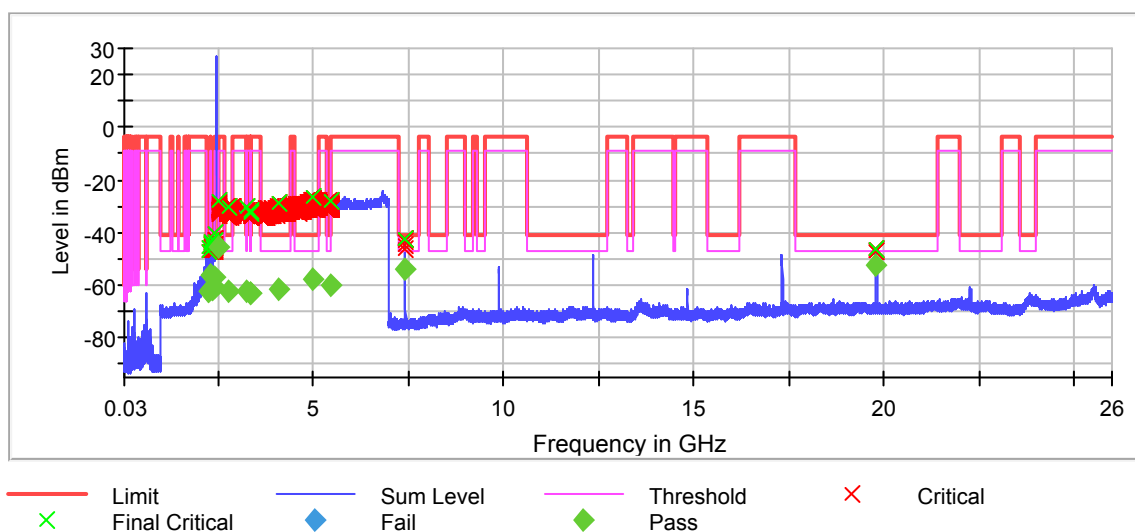
x Limit Final Critical
 ◆ Sum Level Fail
 ◆ Threshold Pass
 x Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 11ms – 2476MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2237.250000	-45.5	-62.2	-41.2	21.0	PASS
2258.750000	-47.0	-62.2	-41.2	21.0	PASS
2283.750000	-43.4	-56.4	-41.2	15.2	PASS
2321.250000	-44.1	-56.4	-41.2	15.2	PASS
2359.750000	-45.2	-61.2	-41.2	20.0	PASS
2362.250000	-45.7	-61.1	-41.2	19.9	PASS
2375.750000	-43.3	-60.7	-41.2	19.5	PASS
2379.750000	-40.4	-57.1	-41.2	15.9	PASS
2483.750000	-28.3	-45.2	-41.2	4.0	PASS
2759.250000	-29.8	-61.9	-41.2	20.7	PASS
3263.750000	-30.2	-62.4	-41.2	21.2	PASS
3336.750000	-32.0	-62.7	-41.2	21.5	PASS
3354.750000	-32.2	-62.6	-41.2	21.4	PASS
4110.750000	-29.0	-61.2	-41.2	20.0	PASS
4980.750000	-26.5	-58.0	-41.2	16.8	PASS
5441.250000	-28.1	-59.6	-41.2	18.4	PASS
7427.250000	-42.5	-53.5	-41.2	12.3	PASS
19807.750000	-46.5	-52.5	-41.2	11.3	PASS

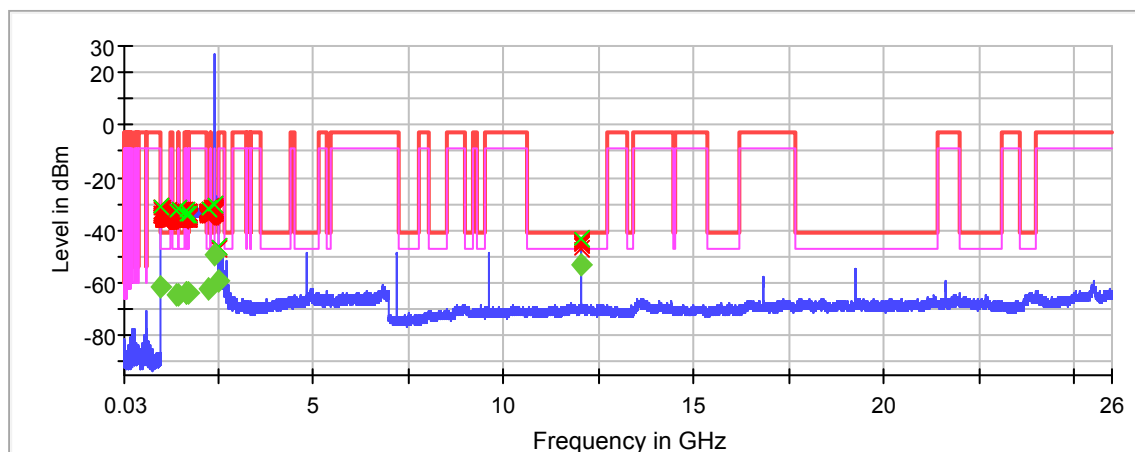


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 11ms – 2405MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
1000.250000	-31.0	-61.4	-41.2	20.2	PASS
1387.250000	-32.7	-64.2	-41.2	23.0	PASS
1445.250000	-32.1	-64.2	-41.2	23.0	PASS
1645.750000	-34.4	-64.0	-41.2	22.8	PASS
1687.250000	-32.6	-64.1	-41.2	22.9	PASS
1719.750000	-34.3	-64.1	-41.2	22.9	PASS
2265.250000	-31.7	-62.5	-41.2	21.3	PASS
2380.750000	-29.9	-49.4	-41.2	8.2	PASS
2484.250000	-46.4	-59.2	-41.2	18.0	PASS
12023.750000	-43.4	-53.3	-41.2	12.1	PASS



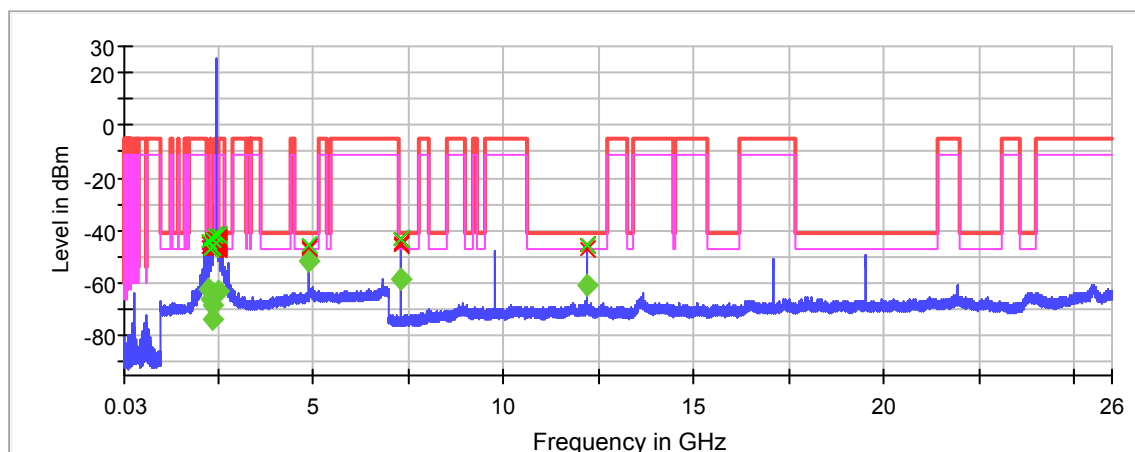
x Limit Final Critical
 x Sum Level Fail
 x Threshold Pass
 x Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2247.750000	-44.2	-62.2	-41.2	21.0	PASS
2295.750000	-46.6	-65.7	-41.2	24.5	PASS
2321.750000	-46.3	-73.4	-41.2	32.2	PASS
2343.750000	-43.2	-67.9	-41.2	26.7	PASS
2385.750000	-41.9	-64.8	-41.2	23.6	PASS
2483.750000	-41.9	-63.2	-41.2	22.0	PASS
4879.250000	-45.8	-51.3	-41.2	10.1	PASS
7320.750000	-43.2	-58.4	-41.2	17.2	PASS
12198.750000	-45.5	-60.6	-41.2	19.4	PASS



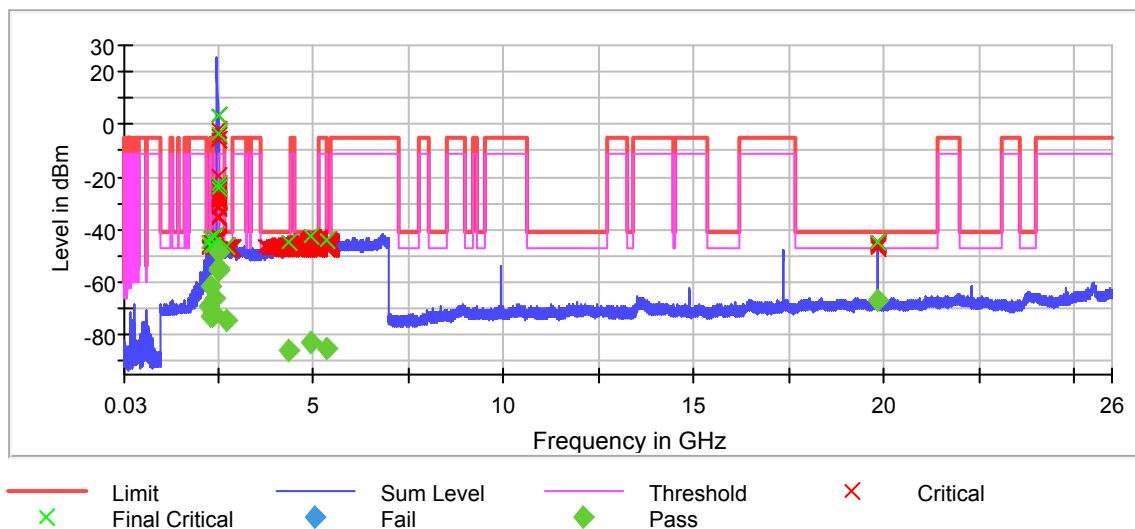
— Limit
x Final Critical
— Sum Level
◆ Fail
— Threshold
◆ Pass
x Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 11ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2237.750000	-45.0	-69.0	-41.2	27.8	PASS
2276.750000	-46.5	-73.0	-41.2	31.8	PASS
2285.750000	-42.9	-61.7	-41.2	20.5	PASS
2326.250000	-46.3	-71.6	-41.2	30.4	PASS
2359.750000	-46.3	-73.0	-41.2	31.8	PASS
2367.250000	-45.9	-72.5	-41.2	31.3	PASS
2382.250000	-42.6	-66.0	-41.2	24.8	PASS
2484.250000	-23.8	-48.7	-41.2	7.5	PASS
2488.250000	-3.6	-54.5	-41.2	13.3	PASS
2491.750000	-22.7	-55.1	-41.2	13.9	PASS
2494.750000	3.6	-55.4	-41.2	14.2	PASS
2720.250000	-46.4	-74.4	-41.2	33.2	PASS
4340.750000	-44.7	-86.2	-41.2	45.0	PASS
4948.750000	-42.3	-83.0	-41.2	41.8	PASS
5372.250000	-44.2	-84.9	-41.2	43.7	PASS
19824.250000	-44.7	-66.5	-41.2	25.3	PASS

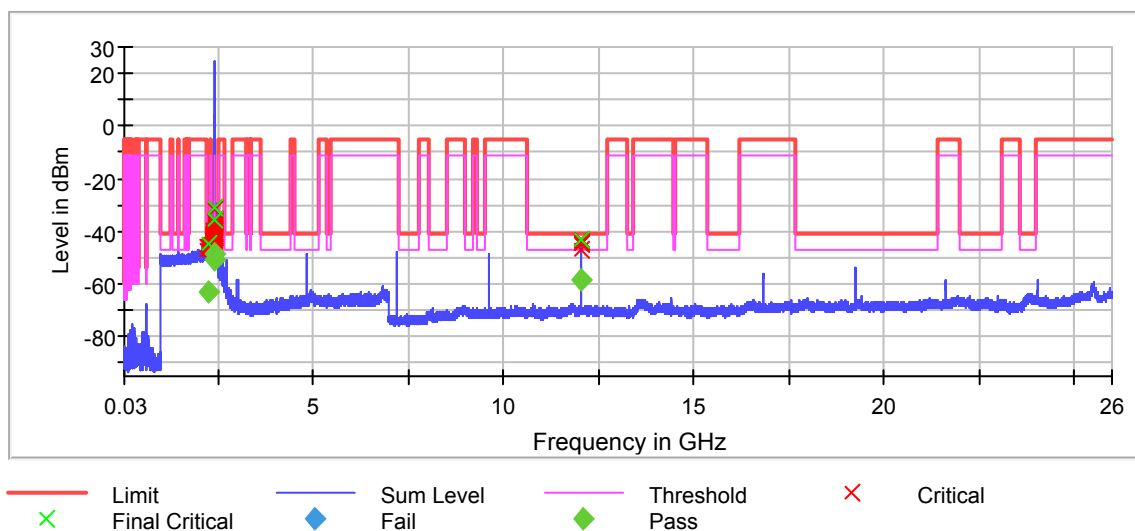


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 5.5ms – 2405MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2254.250000	-44.6	-62.7	-41.2	21.5	PASS
2380.750000	-31.2	-48.9	-41.2	7.7	PASS
2386.750000	-35.8	-50.6	-41.2	9.4	PASS
12023.750000	-43.3	-58.1	-41.2	16.9	PASS

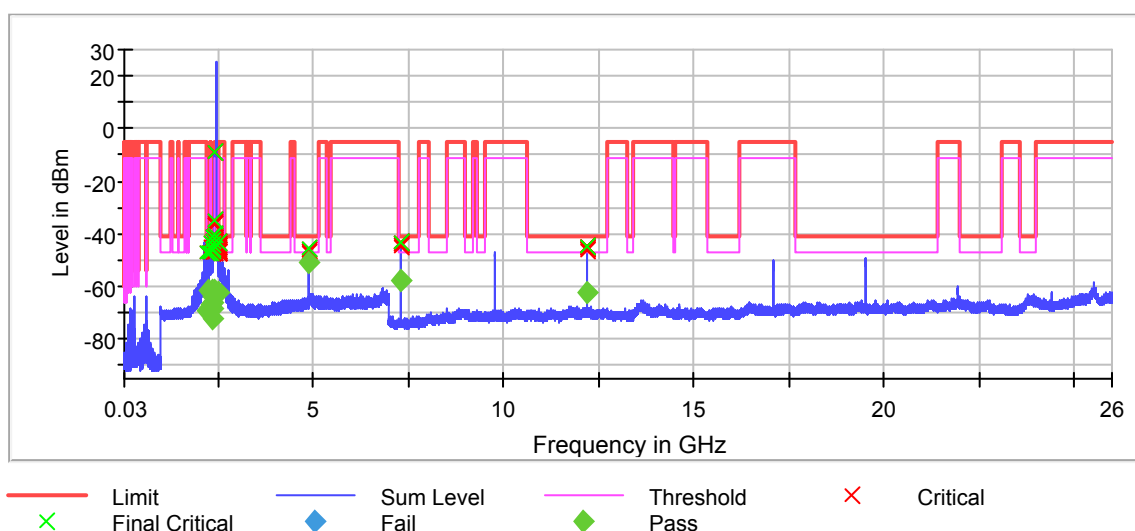


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 5.5ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2200.250000	-46.7	-68.7	-41.2	27.5	PASS
2247.750000	-47.1	-61.6	-41.2	20.4	PASS
2286.750000	-43.1	-66.8	-41.2	25.6	PASS
2295.250000	-46.7	-68.1	-41.2	26.9	PASS
2331.750000	-45.5	-72.2	-41.2	31.0	PASS
2343.750000	-46.1	-66.4	-41.2	25.2	PASS
2358.750000	-44.0	-68.1	-41.2	26.9	PASS
2368.250000	-41.2	-61.4	-41.2	20.2	PASS
2370.250000	-42.0	-63.9	-41.2	22.7	PASS
2372.750000	-41.2	-63.6	-41.2	22.4	PASS
2378.250000	-35.1	-63.0	-41.2	21.8	PASS
2383.250000	-40.3	-62.5	-41.2	21.3	PASS
2397.750000	-9.0	-61.2	-4.8	56.4	PASS
2485.750000	-42.8	-62.3	-41.2	21.1	PASS
4879.250000	-45.7	-50.7	-41.2	9.5	PASS
7320.750000	-43.2	-57.4	-41.2	16.2	PASS
12198.250000	-44.9	-62.1	-41.2	20.9	PASS

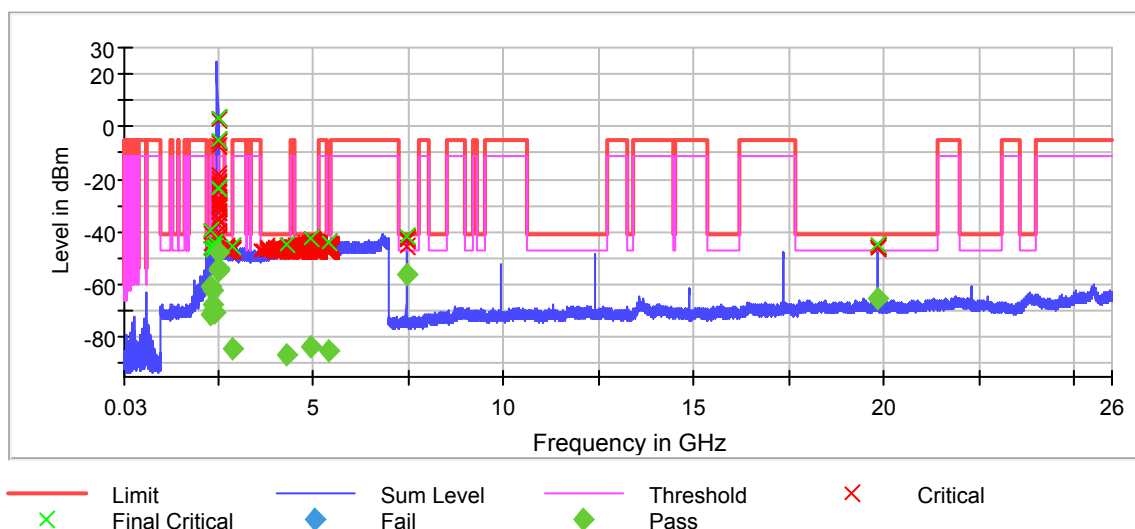


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 5.5ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2285.750000	-39.4	-60.8	-41.2	19.6	PASS
2294.250000	-46.1	-71.7	-41.2	30.5	PASS
2323.250000	-46.6	-62.0	-41.2	20.8	PASS
2333.250000	-46.8	-67.7	-41.2	26.5	PASS
2338.250000	-45.2	-70.8	-41.2	29.6	PASS
2357.250000	-46.7	-70.2	-41.2	29.0	PASS
2374.250000	-45.8	-70.9	-41.2	29.7	PASS
2379.250000	-43.7	-70.3	-41.2	29.1	PASS
2483.750000	-23.1	-47.4	-41.2	6.2	PASS
2487.750000	-5.4	-53.8	-41.2	12.6	PASS
2492.250000	-23.0	-54.5	-41.2	13.3	PASS
2494.750000	3.7	-54.8	-41.2	13.6	PASS
2898.750000	-45.1	-84.2	-41.2	43.0	PASS
4273.750000	-44.8	-86.4	-41.2	45.2	PASS
4915.750000	-42.1	-83.3	-41.2	42.1	PASS
5400.250000	-43.9	-84.8	-41.2	43.6	PASS
7433.250000	-42.0	-56.0	-41.2	14.8	PASS
19823.750000	-45.0	-64.9	-41.2	23.7	PASS

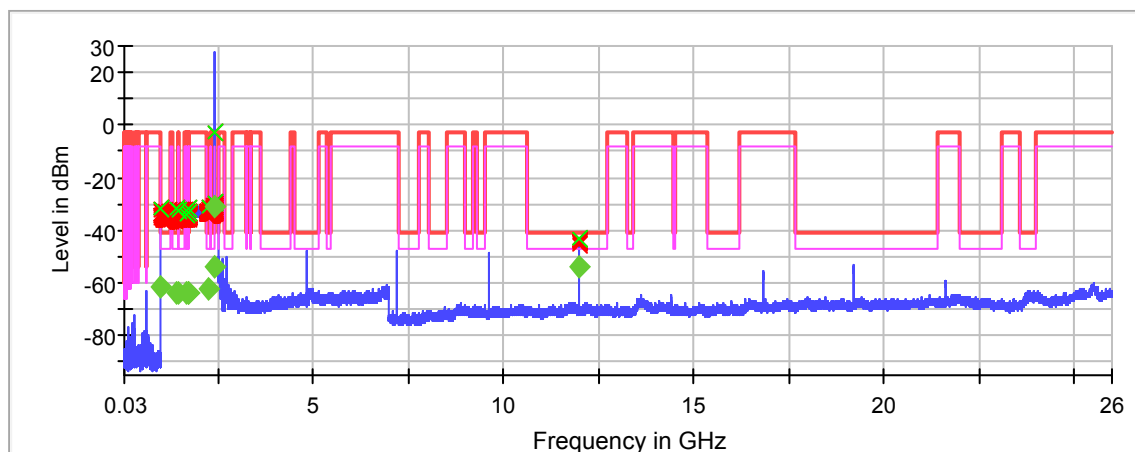


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 16.5ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
1000.250000	-31.6	-61.3	-41.2	20.1	PASS
1406.250000	-31.8	-64.0	-41.2	22.8	PASS
1456.250000	-32.4	-64.0	-41.2	22.8	PASS
1646.250000	-34.4	-63.9	-41.2	22.7	PASS
1707.750000	-31.7	-63.9	-41.2	22.7	PASS
1720.750000	-33.5	-63.9	-41.2	22.7	PASS
2254.250000	-31.1	-62.4	-41.2	21.2	PASS
2383.250000	-29.6	-54.2	-41.2	13.0	PASS
2399.750000	-3.0	-31.3	-2.4	28.9	PASS
12011.250000	-43.5	-53.5	-41.2	12.3	PASS



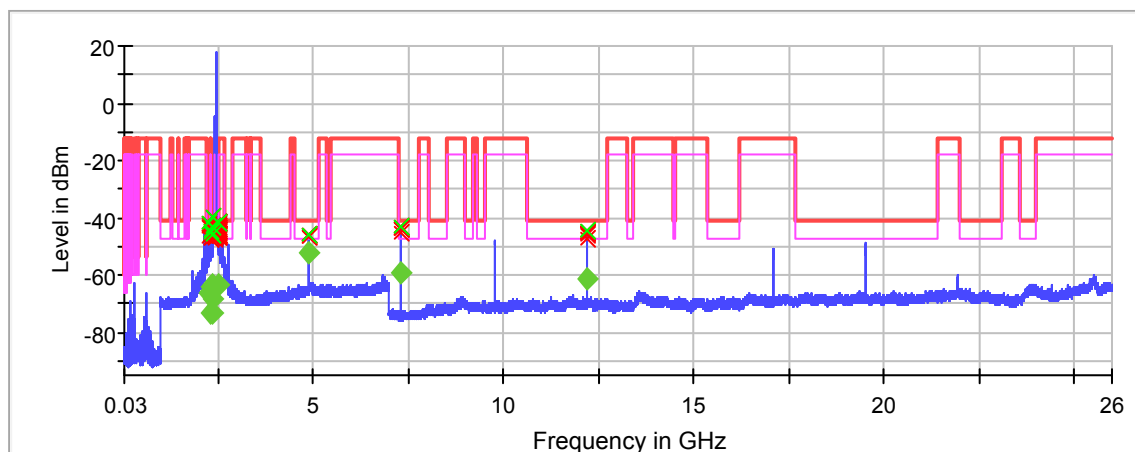
— Limit
x Final Critical
— Sum Level
◆ Fail
— Threshold
◆ Pass
x Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 16.5ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2247.250000	-41.9	-66.4	-41.2	25.2	PASS
2287.750000	-44.2	-64.1	-41.2	22.9	PASS
2317.750000	-45.5	-73.3	-41.2	32.1	PASS
2334.250000	-45.7	-73.2	-41.2	32.0	PASS
2344.250000	-43.4	-68.1	-41.2	26.9	PASS
2367.750000	-39.4	-63.4	-41.2	22.2	PASS
2485.250000	-41.5	-63.3	-41.2	22.1	PASS
4879.250000	-45.6	-52.0	-41.2	10.8	PASS
7320.750000	-43.4	-58.9	-41.2	17.7	PASS
12198.750000	-44.8	-61.1	-41.2	19.9	PASS



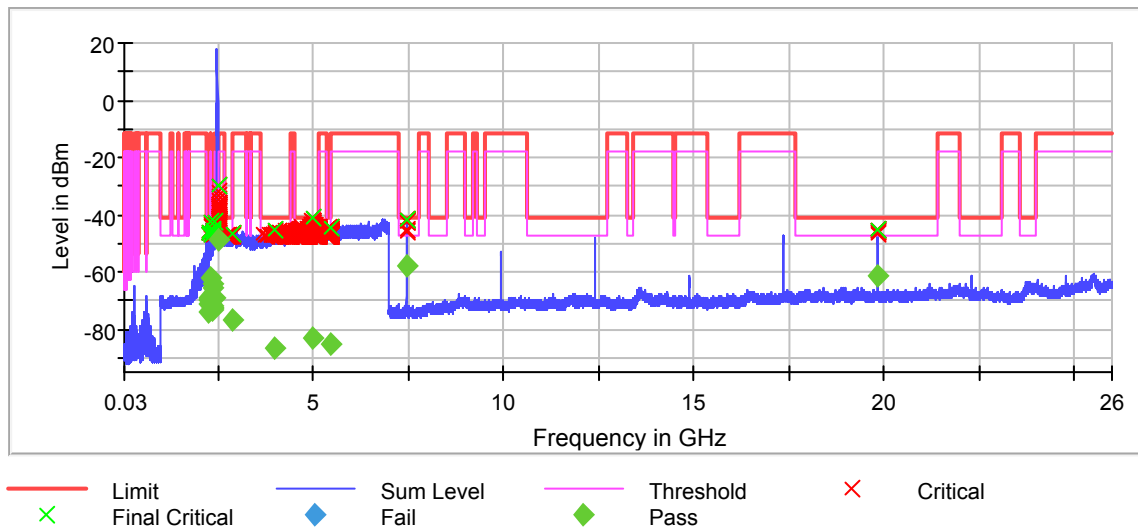
x Limit Final Critical
 x Sum Level Fail
 x Threshold Pass
 x Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 16.5ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2228.250000	-46.6	-74.0	-41.2	32.8	PASS
2237.750000	-45.6	-69.0	-41.2	27.8	PASS
2245.750000	-46.5	-71.2	-41.2	30.0	PASS
2261.750000	-46.9	-69.8	-41.2	28.6	PASS
2285.750000	-42.4	-61.8	-41.2	20.6	PASS
2317.250000	-47.1	-71.2	-41.2	30.0	PASS
2322.750000	-46.7	-64.1	-41.2	22.9	PASS
2333.750000	-46.5	-65.6	-41.2	24.4	PASS
2353.250000	-46.1	-72.8	-41.2	31.6	PASS
2360.250000	-45.1	-73.4	-41.2	32.2	PASS
2367.750000	-45.3	-72.8	-41.2	31.6	PASS
2373.250000	-45.9	-72.0	-41.2	30.8	PASS
2381.250000	-42.7	-68.7	-41.2	27.5	PASS
2483.750000	-29.6	-48.4	-41.2	7.2	PASS
2888.750000	-46.6	-76.6	-41.2	35.4	PASS
4003.250000	-45.3	-86.8	-41.2	45.6	PASS
4960.750000	-40.9	-83.0	-41.2	41.8	PASS
5457.750000	-44.7	-84.9	-41.2	43.7	PASS
7433.250000	-41.9	-57.5	-41.2	16.3	PASS
19825.750000	-45.4	-61.4	-41.2	20.2	PASS

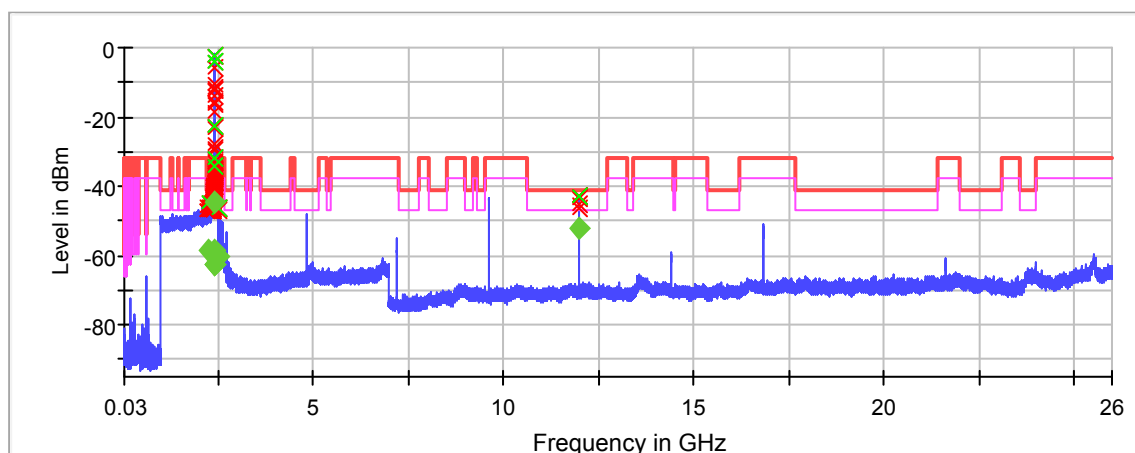


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 22ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2251.750000	-44.9	-58.5	-41.2	17.3	PASS
2378.250000	-31.9	-62.5	-41.2	21.3	PASS
2383.250000	-34.2	-62.5	-41.2	21.3	PASS
2390.750000	-22.3	-58.3	-31.8	26.5	PASS
2397.250000	-2.2	-44.6	-31.8	12.8	PASS
2399.750000	-3.8	-62.5	-31.8	30.8	PASS
2484.250000	-46.2	-60.3	-41.2	19.1	PASS
12011.250000	-42.8	-52.3	-41.2	11.1	PASS



— Limit
x Final Critical
— Sum Level
◆ Fail
— Threshold
◆ Pass
x Critical

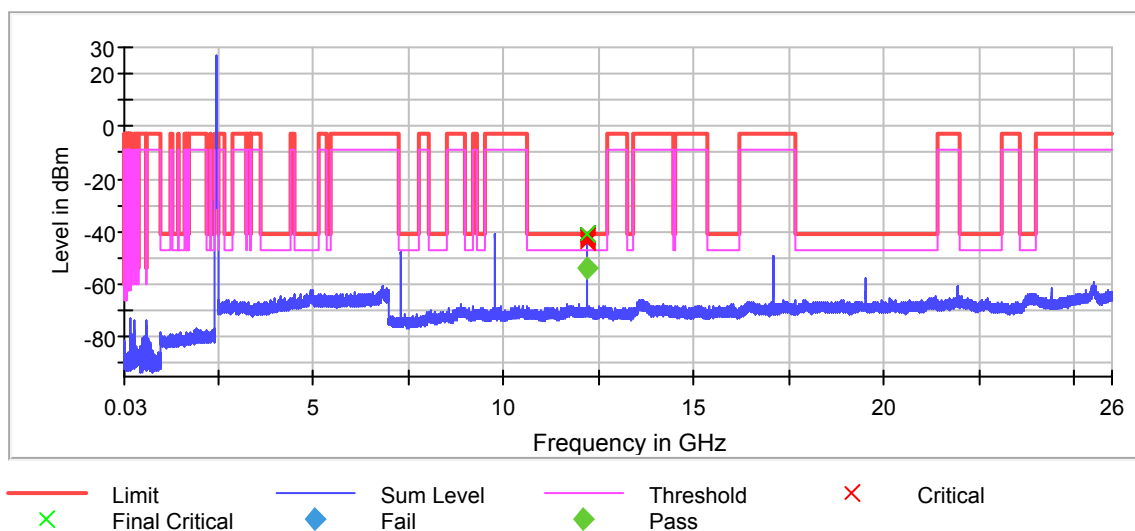
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 22ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
12198.750000	-40.5	-54.1	-41.2	12.9	PASS



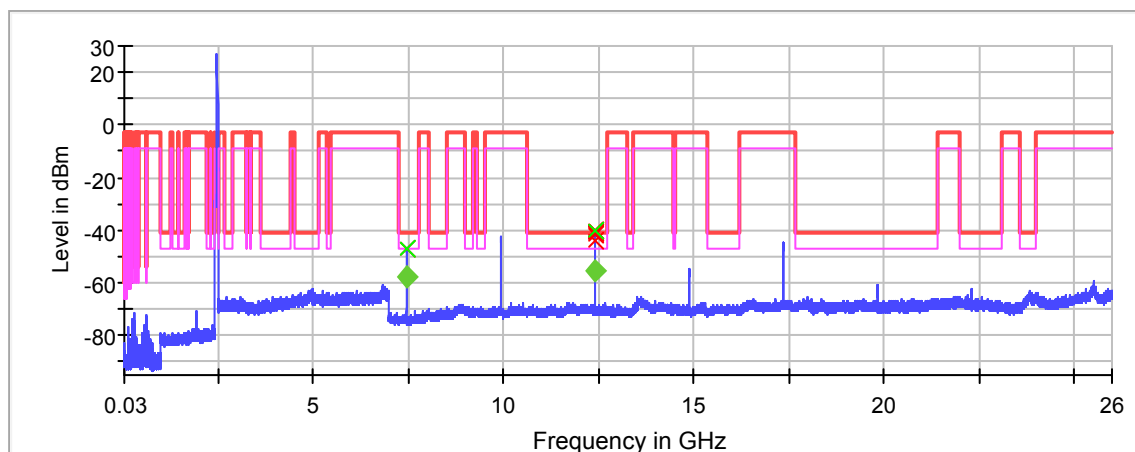
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 22ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
7434.250000	-47.0	-58.0	-41.2	16.8	PASS
12388.250000	-40.1	-55.2	-41.2	14.0	PASS



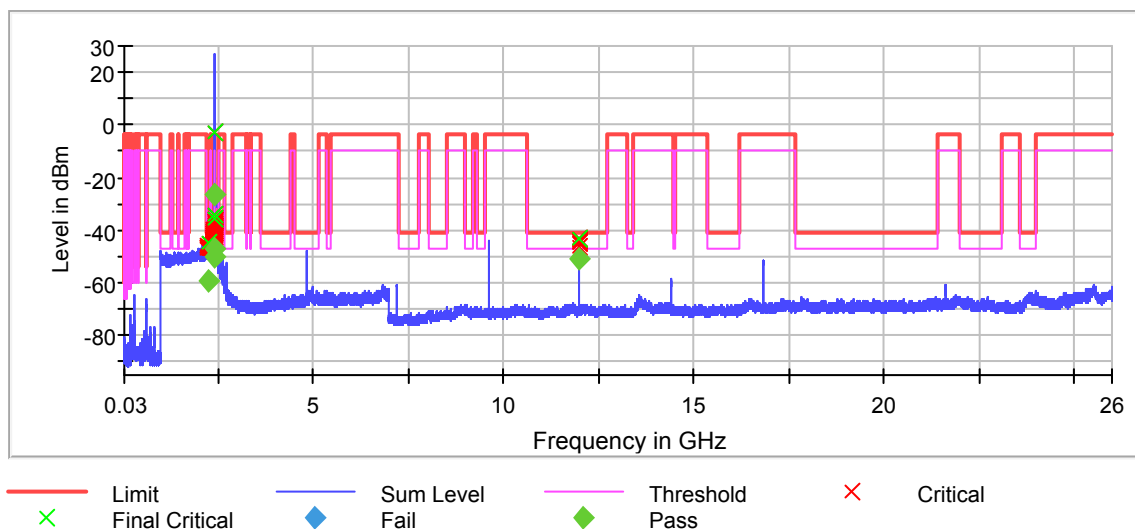
X Limit Final Critical
 X Sum Level Fail
 X Threshold Pass
 X Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 11ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2251.250000	-44.9	-59.0	-41.2	17.8	PASS
2377.250000	-35.5	-50.3	-41.2	9.1	PASS
2389.750000	-34.3	-46.9	-41.2	5.7	PASS
2399.750000	-2.9	-26.2	-3.3	22.9	PASS
12011.250000	-42.9	-51.0	-41.2	9.8	PASS

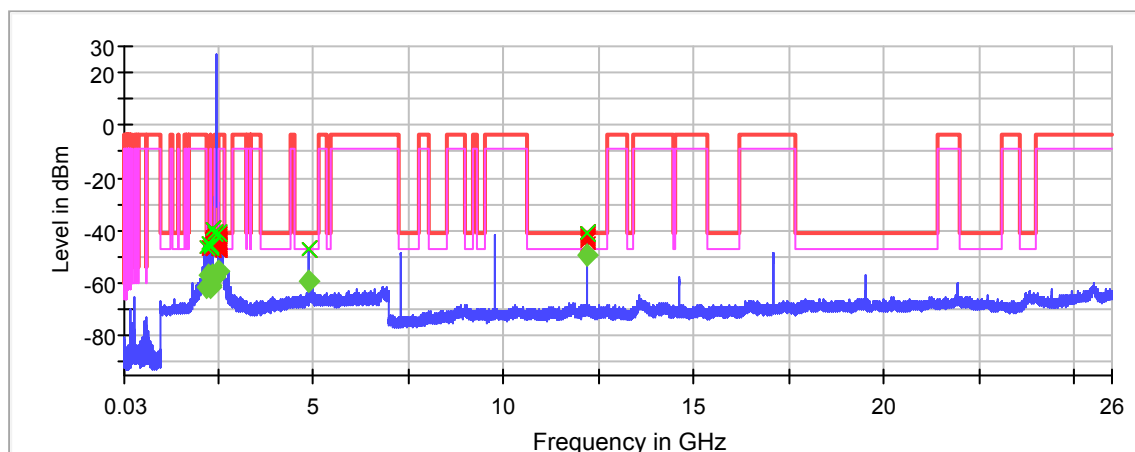


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2211.250000	-46.0	-61.3	-41.2	20.1	PASS
2247.750000	-44.4	-57.0	-41.2	15.8	PASS
2295.250000	-45.7	-60.5	-41.2	19.3	PASS
2317.250000	-46.4	-61.2	-41.2	20.0	PASS
2343.750000	-39.6	-57.2	-41.2	16.0	PASS
2387.250000	-40.9	-57.6	-41.2	16.4	PASS
2489.750000	-40.9	-55.4	-41.2	14.2	PASS
4880.250000	-46.8	-59.3	-41.2	18.1	PASS
12198.750000	-40.8	-49.1	-41.2	7.9	PASS



— Limit
x Final Critical
— Sum Level
◆ Fail
— Threshold
◆ Pass
x Critical

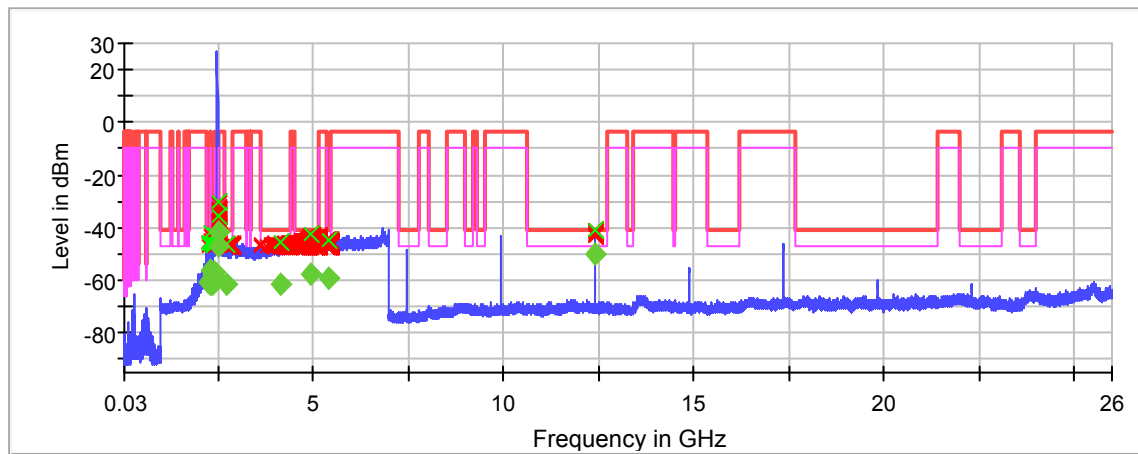
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 11ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2237.750000	-45.3	-60.9	-41.2	19.7	PASS
2245.750000	-46.2	-61.0	-41.2	19.8	PASS
2285.750000	-42.0	-56.4	-41.2	15.2	PASS
2310.250000	-46.5	-61.2	-41.2	20.0	PASS
2322.750000	-46.4	-57.6	-41.2	16.4	PASS
2326.250000	-47.2	-61.5	-41.2	20.3	PASS
2333.750000	-46.7	-58.4	-41.2	17.2	PASS
2369.750000	-45.7	-60.5	-41.2	19.3	PASS
2381.750000	-42.2	-56.8	-41.2	15.6	PASS
2483.750000	-30.0	-41.4	-41.2	0.2	PASS
2495.750000	-35.4	-46.9	-41.2	5.7	PASS
2706.750000	-45.9	-61.6	-41.2	20.4	PASS
4149.250000	-45.6	-61.2	-41.2	20.0	PASS
4942.750000	-42.6	-57.9	-41.2	16.7	PASS
5425.750000	-44.3	-59.5	-41.2	18.3	PASS
12391.250000	-40.6	-49.9	-41.2	8.7	PASS



X Limit Final Critical
 ◆ Sum Level Fail
 ◆ Threshold Pass
 X Critical

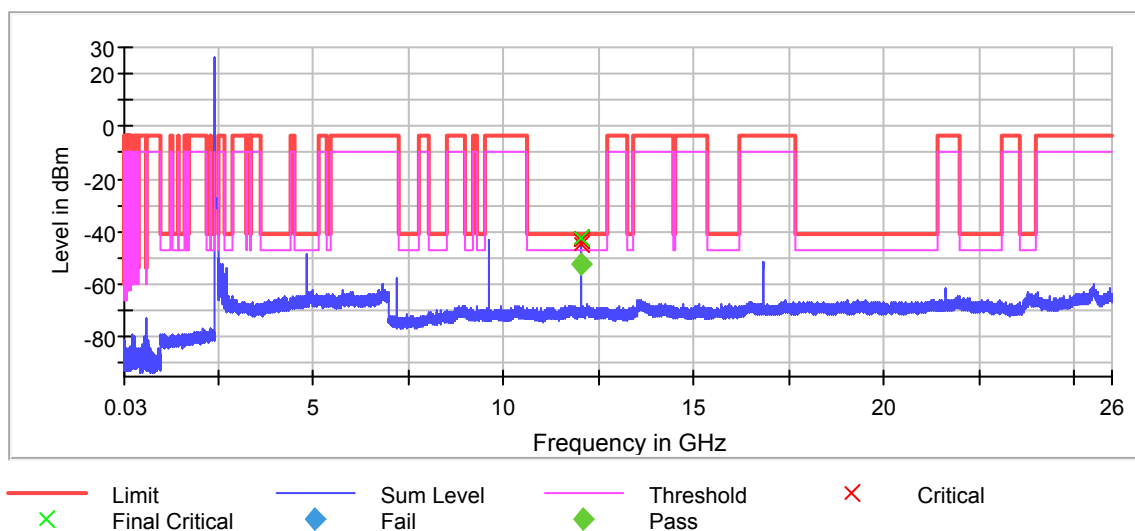
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 22ms – 2404MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
12020.750000	-42.8	-52.3	-41.2	11.1	PASS



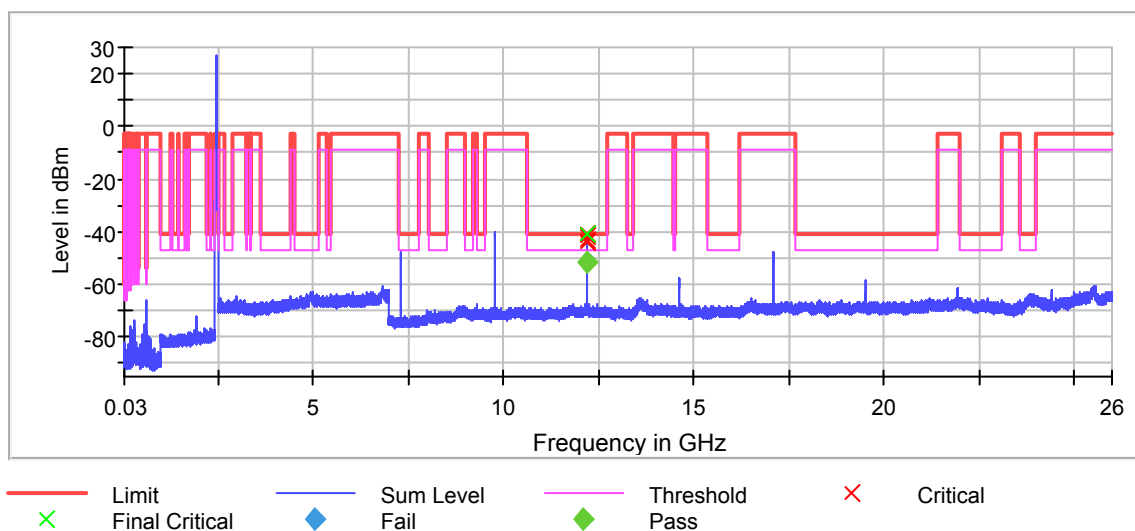
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 22ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
12201.250000	-40.5	-51.2	-41.2	10.0	PASS



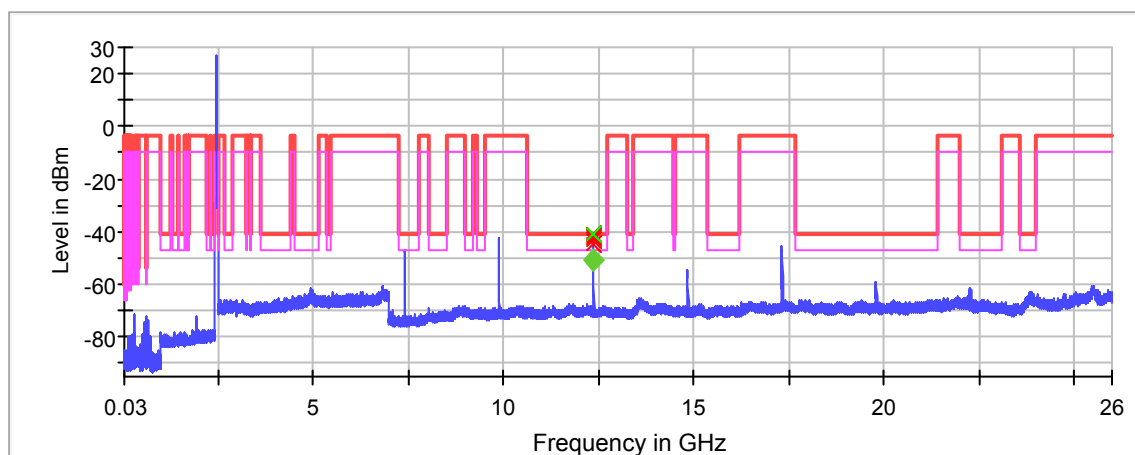
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 22ms – 2476MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
12381.250000	-40.6	-50.9	-41.2	9.7	PASS



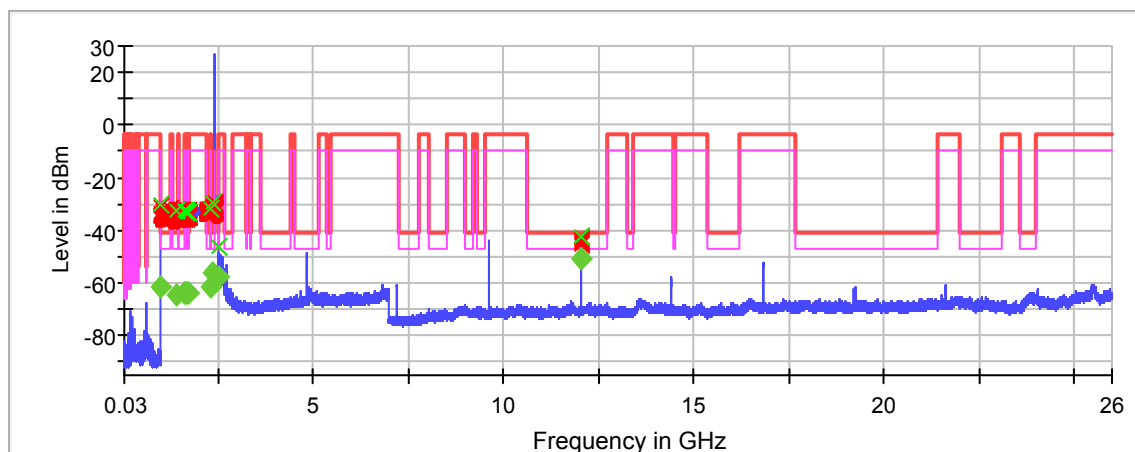
— Limit
— Sum Level
— Threshold
X Final Critical
◆ Fail
◆ Pass
X Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 11ms – 2404MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
1000.250000	-30.5	-61.4	-41.2	20.2	PASS
1403.750000	-32.3	-64.2	-41.2	23.0	PASS
1612.750000	-32.3	-64.1	-41.2	22.9	PASS
1645.750000	-33.5	-64.0	-41.2	22.8	PASS
1666.750000	-32.4	-64.0	-41.2	22.8	PASS
1721.250000	-33.2	-64.1	-41.2	22.9	PASS
2299.750000	-31.4	-61.2	-41.2	20.0	PASS
2365.250000	-29.7	-56.3	-41.2	15.1	PASS
2483.750000	-46.3	-58.0	-41.2	16.8	PASS
12021.250000	-42.4	-50.8	-41.2	9.6	PASS



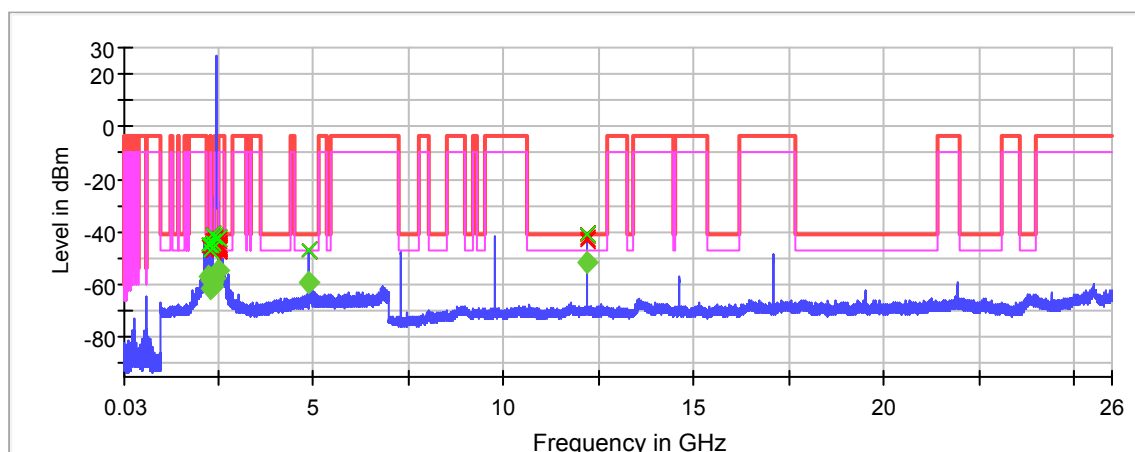
— Limit
— Sum Level
— Threshold
x Final Critical
♦ Fail
♦ Pass
x Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2248.250000	-44.6	-57.3	-41.2	16.1	PASS
2287.250000	-44.3	-58.2	-41.2	17.0	PASS
2317.750000	-46.8	-61.3	-41.2	20.1	PASS
2343.250000	-40.8	-59.2	-41.2	18.0	PASS
2347.250000	-44.0	-60.7	-41.2	19.5	PASS
2386.750000	-41.6	-57.7	-41.2	16.5	PASS
2483.750000	-42.4	-54.9	-41.2	13.7	PASS
4879.250000	-46.9	-59.4	-41.2	18.2	PASS
12199.750000	-40.5	-51.3	-41.2	10.1	PASS



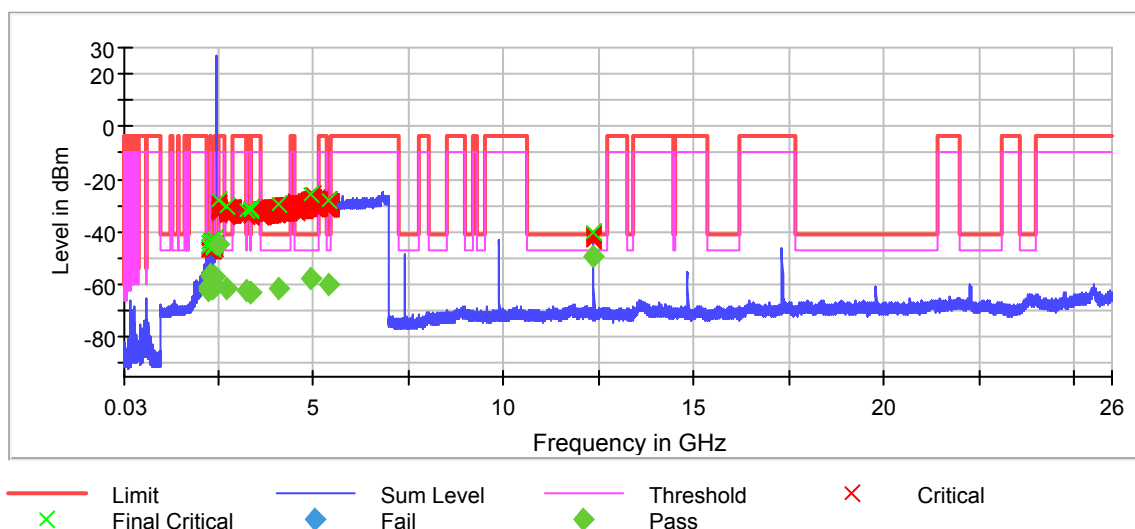
— Limit
x Final Critical
— Sum Level
◆ Fail
— Threshold
◆ Pass
x Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMX 11ms – 2476MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2235.750000	-43.6	-61.0	-41.2	19.8	PASS
2244.250000	-45.8	-61.4	-41.2	20.2	PASS
2255.750000	-45.2	-62.0	-41.2	20.8	PASS
2283.750000	-43.3	-56.5	-41.2	15.3	PASS
2321.250000	-43.0	-56.5	-41.2	15.3	PASS
2331.250000	-46.4	-60.2	-41.2	19.0	PASS
2347.250000	-45.9	-61.3	-41.2	20.1	PASS
2364.750000	-43.4	-61.1	-41.2	19.9	PASS
2369.750000	-45.3	-61.0	-41.2	19.8	PASS
2374.750000	-44.6	-60.7	-41.2	19.5	PASS
2379.750000	-42.3	-56.8	-41.2	15.6	PASS
2483.750000	-28.1	-45.1	-41.2	3.9	PASS
2698.750000	-29.9	-61.6	-41.2	20.4	PASS
3260.250000	-31.8	-62.3	-41.2	21.1	PASS
3335.250000	-31.7	-62.6	-41.2	21.4	PASS
3356.750000	-30.7	-62.6	-41.2	21.4	PASS
4090.250000	-29.1	-61.3	-41.2	20.1	PASS
4955.250000	-25.9	-57.9	-41.2	16.7	PASS
5416.750000	-28.0	-59.6	-41.2	18.4	PASS
12381.250000	-40.5	-49.6	-41.2	8.4	PASS

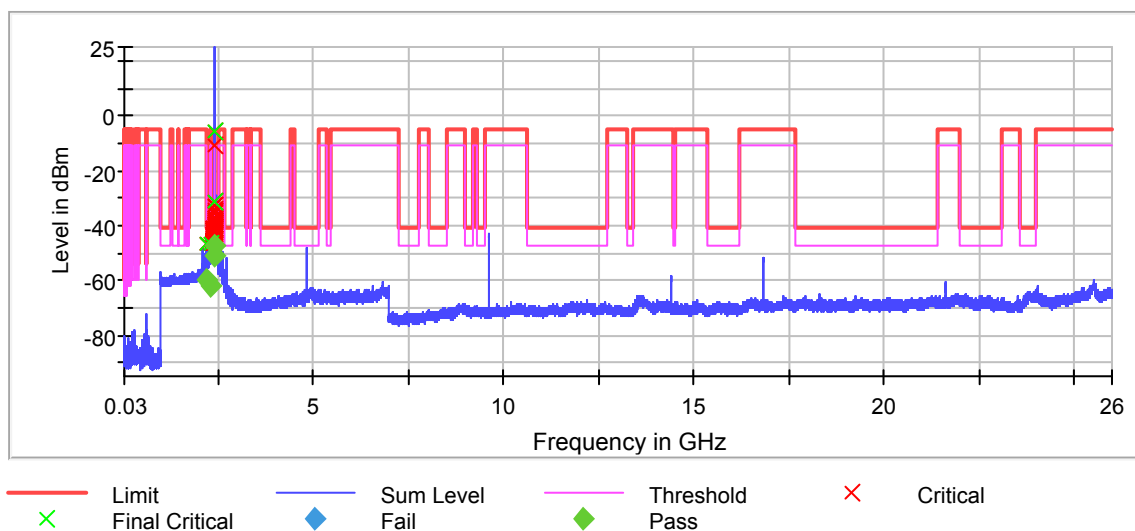


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 11ms – 2405MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2212.750000	-46.8	-59.6	-41.2	18.4	PASS
2291.750000	-46.4	-62.2	-41.2	21.0	PASS
2380.750000	-31.2	-50.7	-41.2	9.5	PASS
2399.750000	-5.9	-47.7	-5.1	42.5	PASS

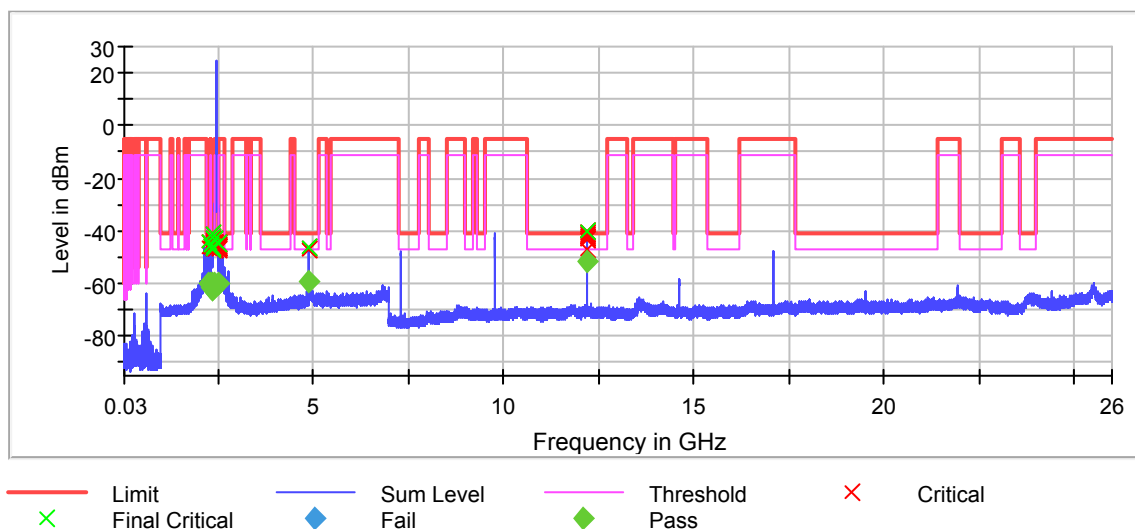


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2248.250000	-43.6	-59.7	-41.2	18.5	PASS
2287.250000	-45.5	-60.3	-41.2	19.1	PASS
2319.750000	-45.3	-61.3	-41.2	20.1	PASS
2335.250000	-46.6	-62.1	-41.2	20.9	PASS
2338.250000	-46.8	-62.0	-41.2	20.8	PASS
2343.250000	-42.1	-61.2	-41.2	20.0	PASS
2367.750000	-40.7	-59.6	-41.2	18.4	PASS
2388.750000	-43.4	-59.8	-41.2	18.6	PASS
2485.250000	-44.7	-59.6	-41.2	18.4	PASS
4879.250000	-46.6	-59.5	-41.2	18.3	PASS
12198.750000	-40.3	-51.8	-41.2	10.6	PASS

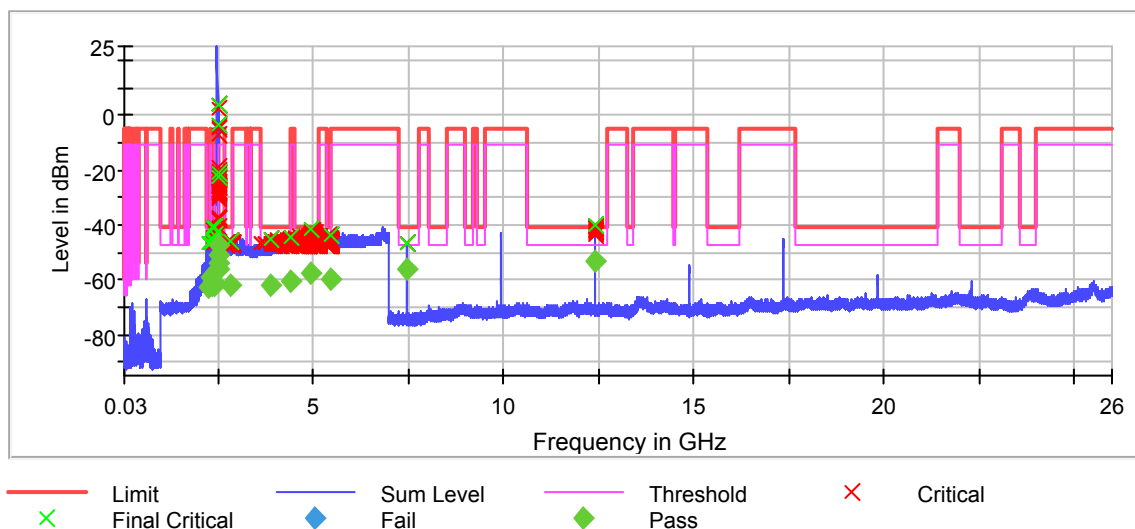


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 11ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2267.250000	-46.7	-62.6	-41.2	21.4	PASS
2285.750000	-47.0	-59.2	-41.2	18.0	PASS
2311.250000	-46.9	-62.0	-41.2	20.8	PASS
2322.750000	-41.1	-60.3	-41.2	19.1	PASS
2357.750000	-45.4	-61.4	-41.2	20.2	PASS
2363.750000	-45.9	-61.9	-41.2	20.7	PASS
2376.750000	-43.9	-61.9	-41.2	20.7	PASS
2381.250000	-40.7	-61.0	-41.2	19.8	PASS
2484.250000	-22.4	-47.4	-41.2	6.2	PASS
2488.250000	-3.9	-50.8	-41.2	9.6	PASS
2491.750000	-21.5	-56.2	-41.2	15.0	PASS
2495.250000	3.9	-54.0	-41.2	12.8	PASS
2846.250000	-45.8	-62.0	-41.2	20.8	PASS
3869.750000	-45.3	-61.8	-41.2	20.6	PASS
4397.750000	-44.8	-60.7	-41.2	19.5	PASS
4949.250000	-41.9	-57.8	-41.2	16.6	PASS
5445.250000	-43.8	-59.5	-41.2	18.3	PASS
7433.250000	-46.9	-56.6	-41.2	15.4	PASS
12388.250000	-40.4	-53.4	-41.2	12.2	PASS



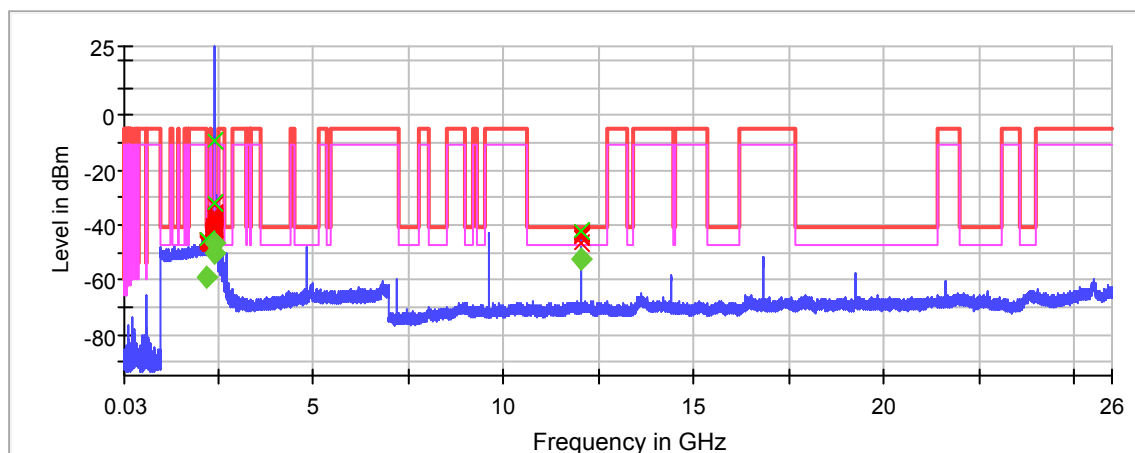
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 5.5ms – 2405MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2213.250000	-45.4	-59.2	-41.2	18.0	PASS
2380.750000	-32.0	-50.1	-41.2	8.9	PASS
2399.750000	-9.2	-46.9	-5.2	41.7	PASS
12026.250000	-42.7	-52.9	-41.2	11.7	PASS



X Limit Final Critical
 ◆ Sum Level Fail
 ◆ Threshold Pass
 X Critical

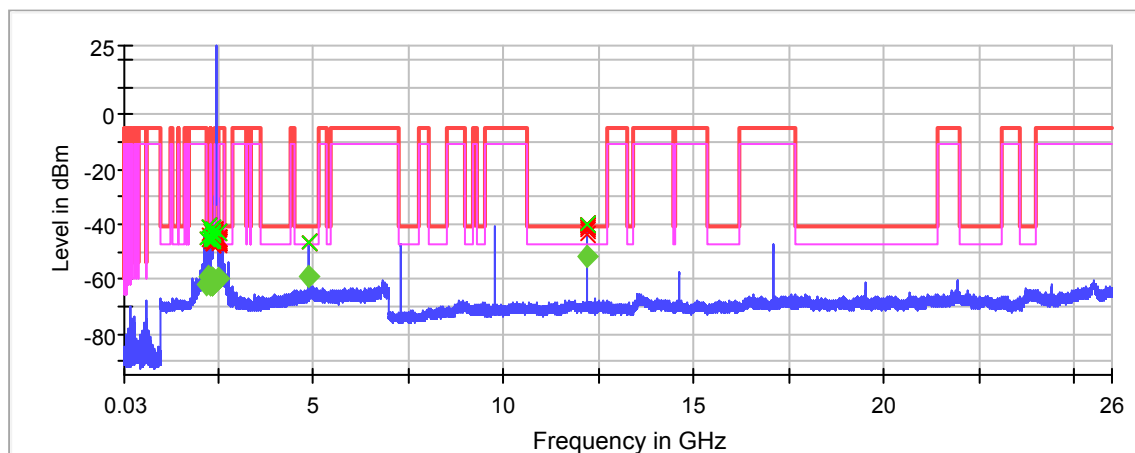
DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 5.5ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS

Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2200.250000	-45.4	-62.0	-41.2	20.8	PASS
2248.250000	-40.9	-59.1	-41.2	17.9	PASS
2287.250000	-42.2	-59.9	-41.2	18.7	PASS
2297.250000	-46.0	-62.2	-41.2	21.0	PASS
2310.250000	-45.1	-62.2	-41.2	21.0	PASS
2319.750000	-44.5	-61.1	-41.2	19.9	PASS
2324.250000	-45.0	-62.0	-41.2	20.8	PASS
2329.250000	-45.9	-61.9	-41.2	20.7	PASS
2339.250000	-43.2	-61.9	-41.2	20.7	PASS
2343.750000	-43.6	-59.7	-41.2	18.5	PASS
2367.750000	-41.5	-59.5	-41.2	18.3	PASS
2485.250000	-43.3	-59.7	-41.2	18.5	PASS
4879.250000	-46.7	-59.5	-41.2	18.3	PASS
12200.750000	-40.4	-51.7	-41.2	10.5	PASS
2200.250000	-45.4	-62.0	-41.2	20.8	PASS



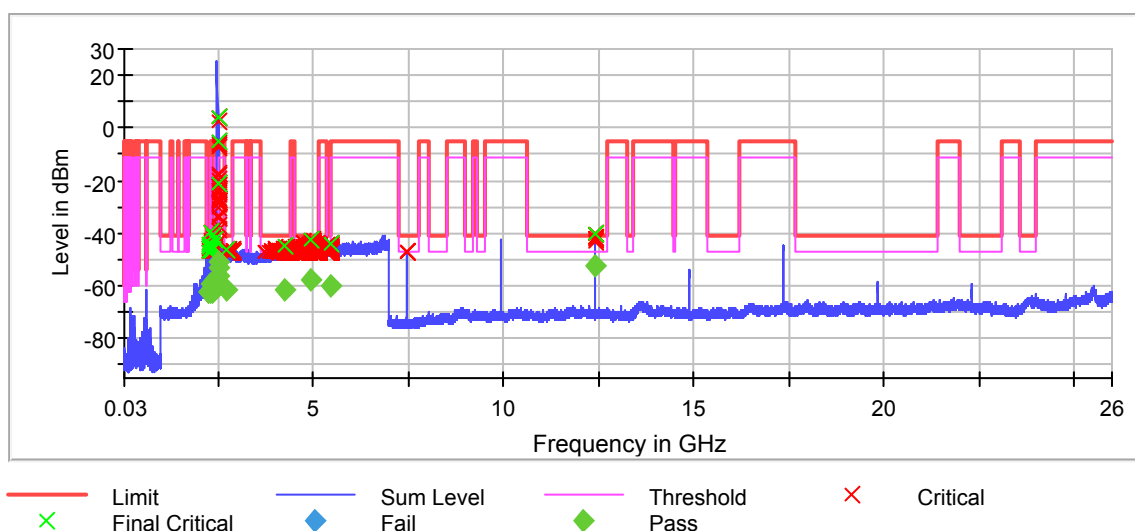
x Limit Final Critical
 ♦ Sum Level Fail
 ♦ Threshold Pass
 x Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSMR 5.5ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2238.250000	-45.0	-61.9	-41.2	20.7	PASS
2240.250000	-43.7	-62.6	-41.2	21.4	PASS
2257.250000	-46.7	-62.5	-41.2	21.3	PASS
2262.250000	-45.5	-62.0	-41.2	20.8	PASS
2271.250000	-46.8	-62.5	-41.2	21.3	PASS
2285.750000	-39.4	-58.8	-41.2	17.6	PASS
2314.750000	-46.4	-62.2	-41.2	21.0	PASS
2323.250000	-40.8	-59.4	-41.2	18.2	PASS
2331.750000	-46.2	-62.2	-41.2	21.0	PASS
2363.250000	-45.0	-61.8	-41.2	20.6	PASS
2369.250000	-44.8	-61.7	-41.2	20.5	PASS
2381.750000	-42.4	-59.2	-41.2	18.0	PASS
2488.250000	-5.2	-50.5	-41.2	9.3	PASS
2492.750000	-21.0	-55.9	-41.2	14.7	PASS
2495.250000	3.8	-53.0	-41.2	11.8	PASS
2718.750000	-46.2	-61.7	-41.2	20.5	PASS
4229.750000	-44.7	-61.1	-41.2	19.9	PASS
4942.750000	-42.6	-57.9	-41.2	16.7	PASS
5442.250000	-43.6	-59.6	-41.2	18.4	PASS
12391.250000	-40.0	-52.3	-41.2	11.1	PASS

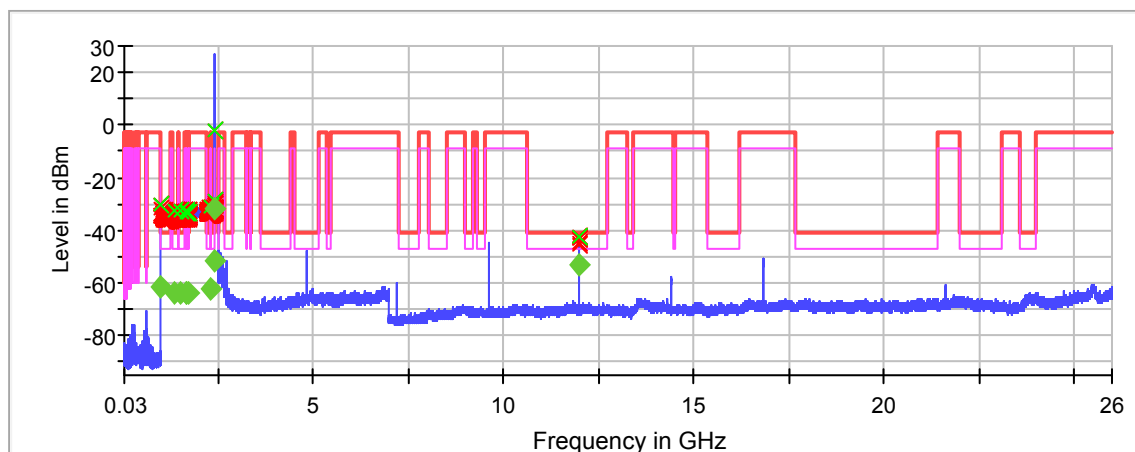


DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 16.5ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
1000.250000	-30.2	-61.3	-41.2	20.1	PASS
1369.750000	-32.4	-64.1	-41.2	22.9	PASS
1512.750000	-32.4	-64.1	-41.2	22.9	PASS
1645.750000	-33.1	-63.9	-41.2	22.7	PASS
1666.750000	-32.5	-64.0	-41.2	22.8	PASS
1720.750000	-33.2	-64.0	-41.2	22.8	PASS
2296.750000	-30.7	-62.3	-41.2	21.1	PASS
2377.750000	-28.4	-51.3	-41.2	10.1	PASS
2399.750000	-1.8	-31.8	-2.9	28.9	PASS
12011.250000	-42.2	-53.2	-41.2	12.0	PASS



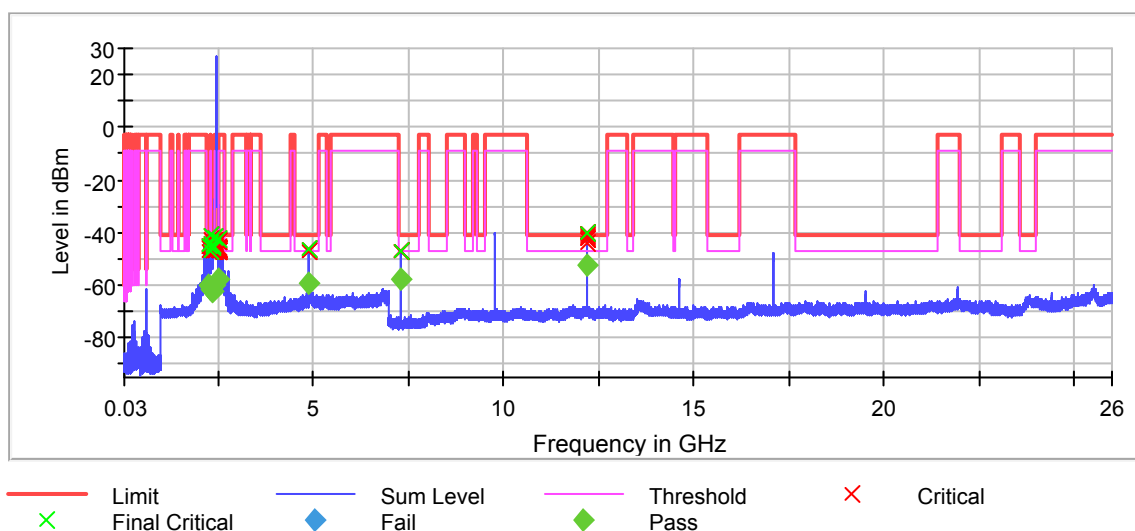
x Limit Final Critical
 ♦ Sum Level Fail
 ♦ Threshold Pass
 x Critical

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 16.5ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2248.250000	-44.7	-60.0	-41.2	18.8	PASS
2287.250000	-44.3	-60.4	-41.2	19.2	PASS
2295.750000	-47.1	-61.2	-41.2	20.0	PASS
2319.750000	-41.2	-61.5	-41.2	20.3	PASS
2330.250000	-44.4	-62.2	-41.2	21.0	PASS
2338.750000	-44.7	-62.1	-41.2	20.9	PASS
2346.250000	-45.7	-61.9	-41.2	20.7	PASS
2389.250000	-41.4	-60.1	-41.2	18.9	PASS
2483.750000	-42.7	-57.9	-41.2	16.7	PASS
4880.250000	-46.2	-59.5	-41.2	18.3	PASS
7320.750000	-46.7	-57.9	-41.2	16.7	PASS
12201.250000	-40.2	-52.2	-41.2	11.0	PASS

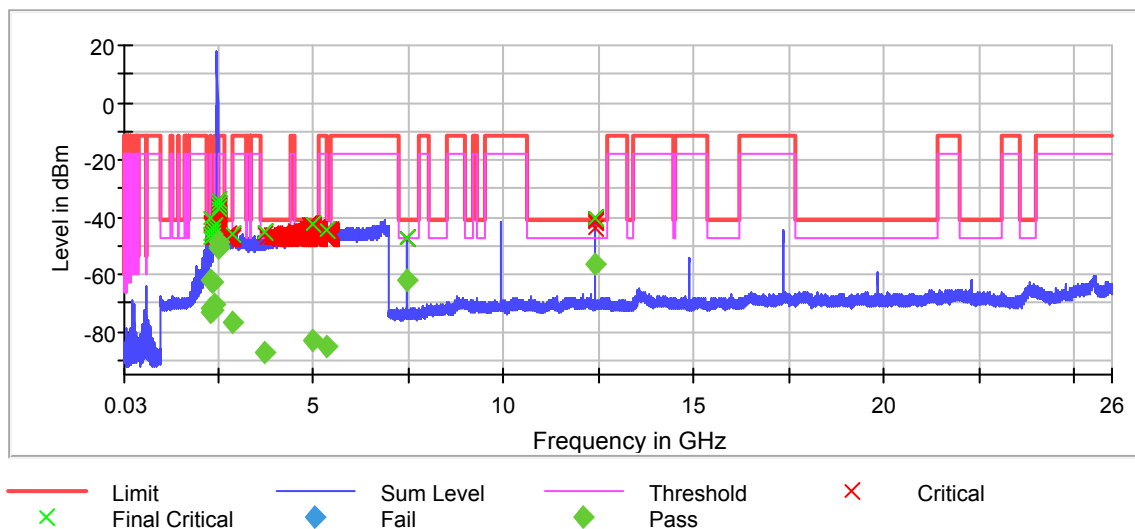


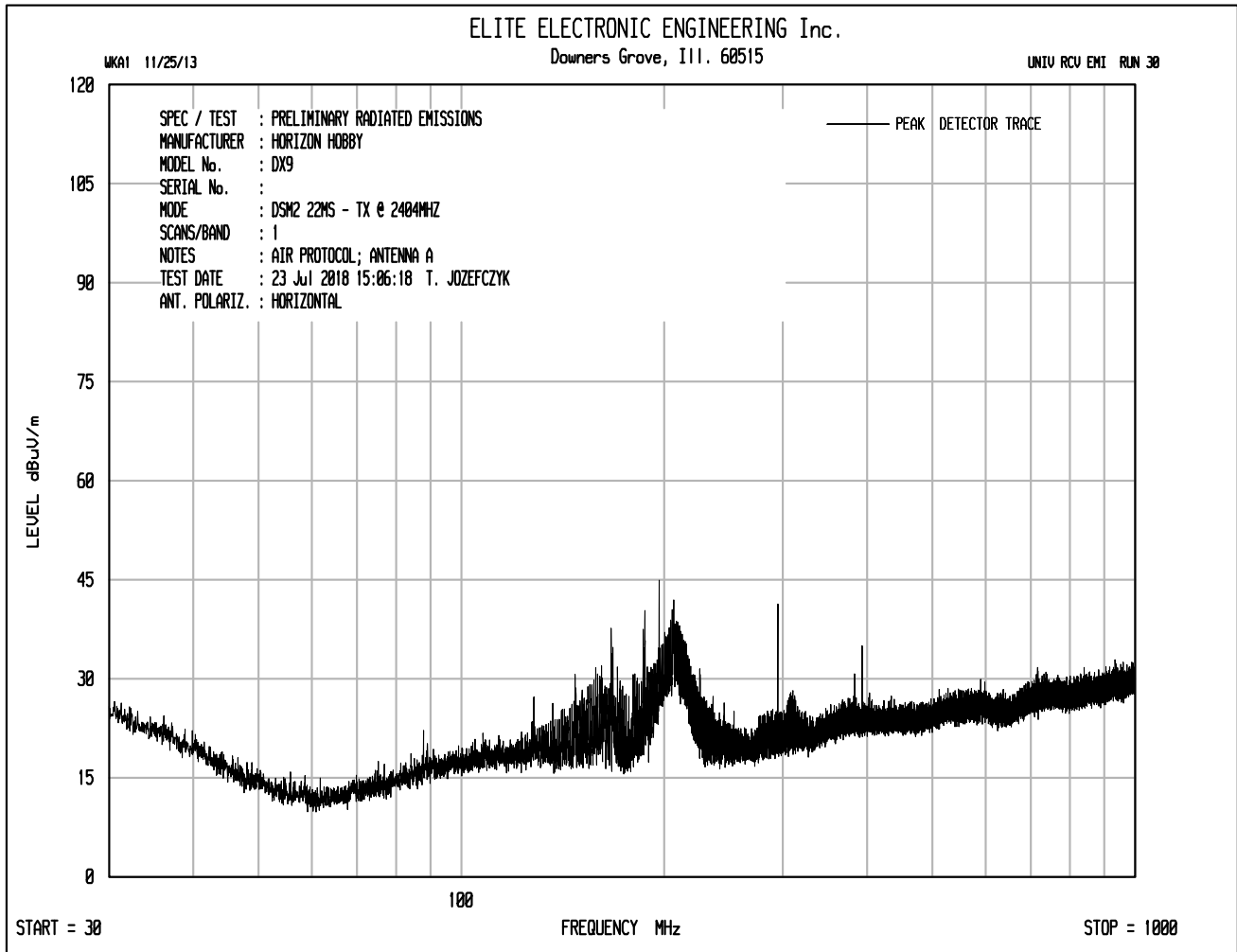
DATA PAGE

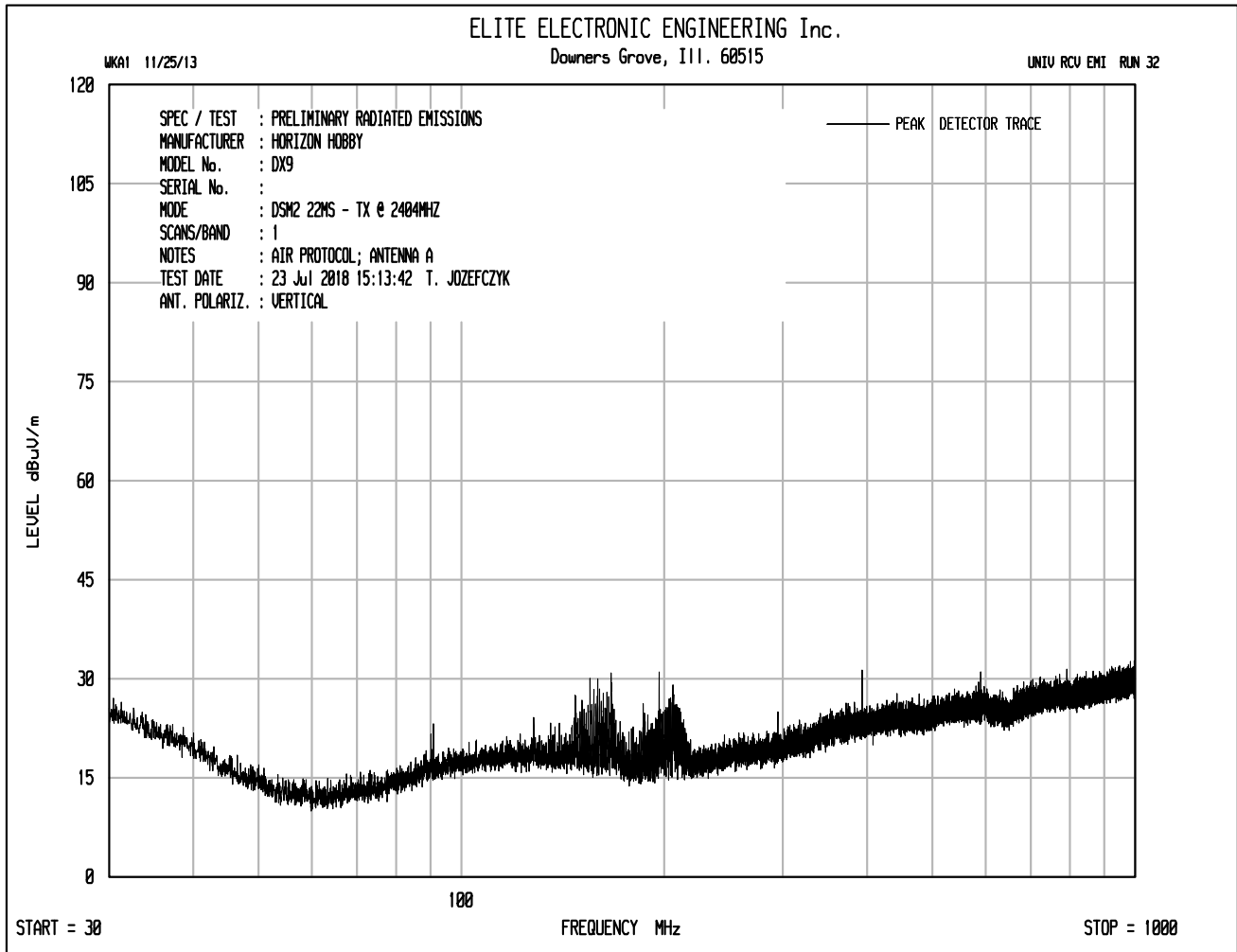
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Antenna Conducted Spurious Emissions
MODE	DSM2 16.5ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

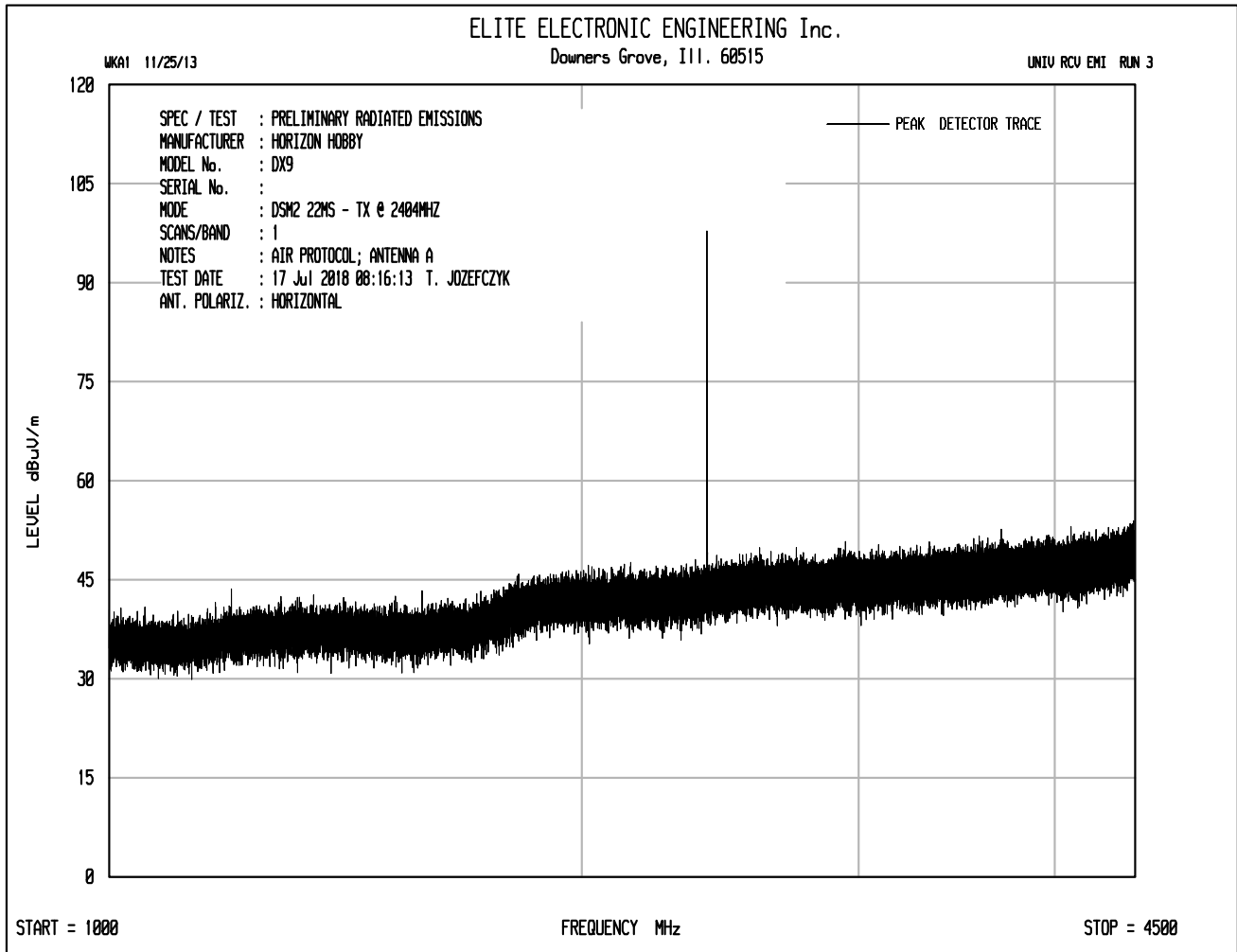
ANTENNA CONDUCTED SPURIOUS EMISSIONS Final Measurements

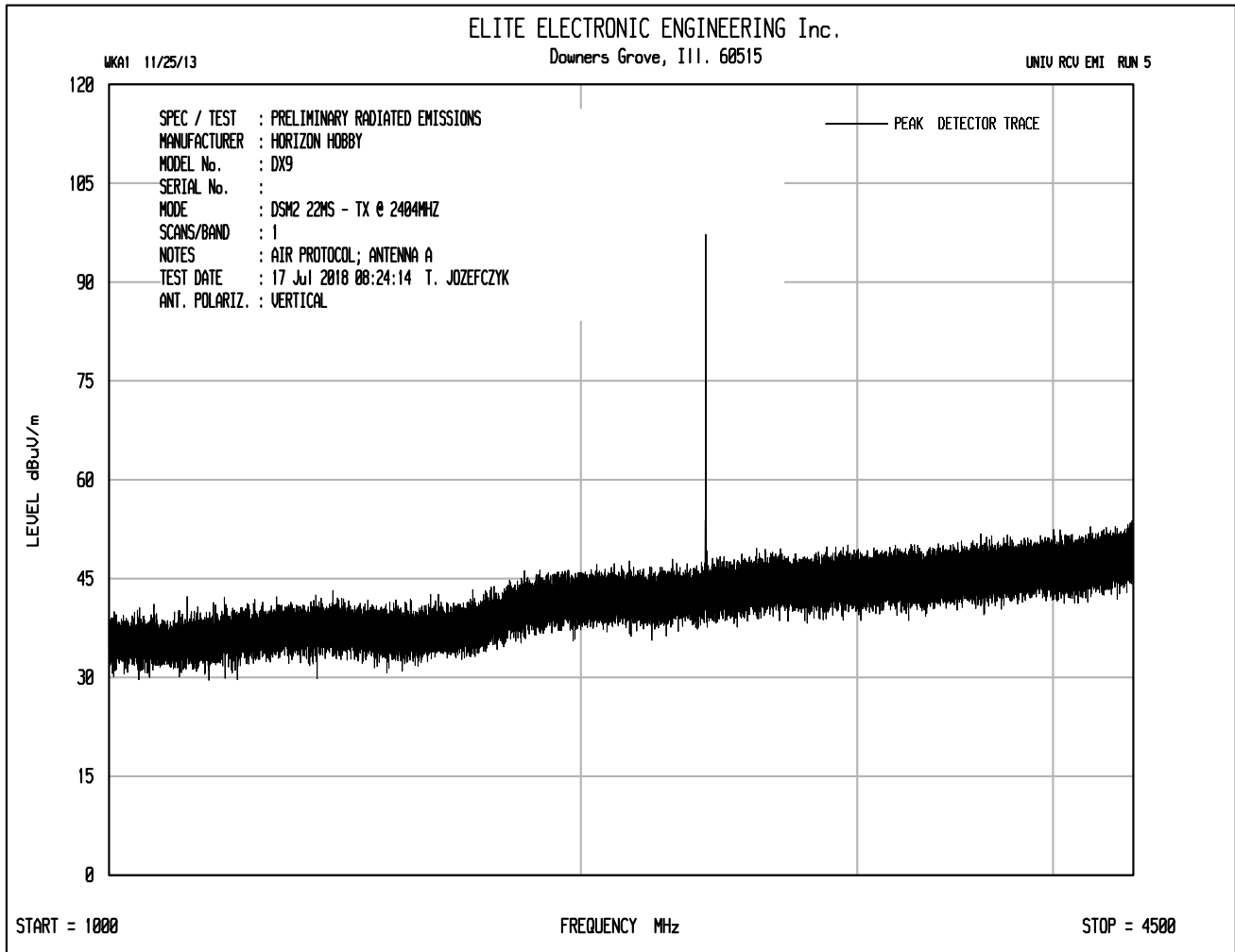
Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
2272.750000	-46.2	-73.2	-41.2	32.0	PASS
2285.750000	-40.3	-61.9	-41.2	20.7	PASS
2316.750000	-47.0	-71.6	-41.2	30.4	PASS
2323.250000	-44.1	-63.0	-41.2	21.8	PASS
2362.250000	-45.4	-72.8	-41.2	31.6	PASS
2371.750000	-46.7	-72.3	-41.2	31.1	PASS
2384.750000	-42.8	-70.3	-41.2	29.1	PASS
2483.750000	-34.1	-48.6	-41.2	7.4	PASS
2489.750000	-35.2	-50.4	-41.2	9.2	PASS
2496.250000	-36.7	-50.5	-41.2	9.3	PASS
2854.250000	-45.9	-76.8	-41.2	35.6	PASS
3714.250000	-45.5	-87.6	-41.2	46.4	PASS
4973.750000	-42.2	-83.1	-41.2	41.9	PASS
5357.750000	-44.3	-84.9	-41.2	43.7	PASS
7434.750000	-47.0	-62.2	-41.2	21.0	PASS
12391.250000	-40.2	-56.3	-41.2	15.1	PASS

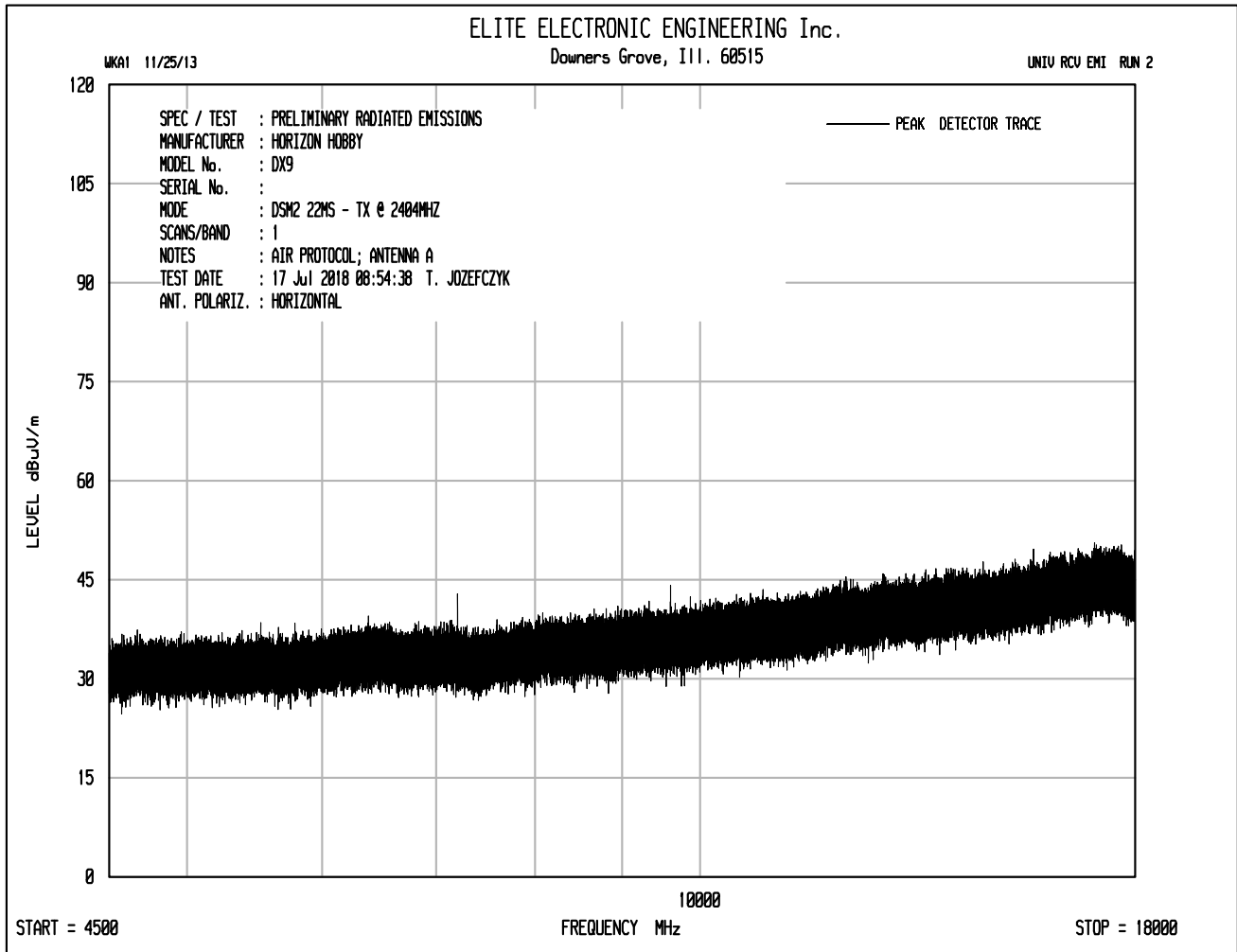


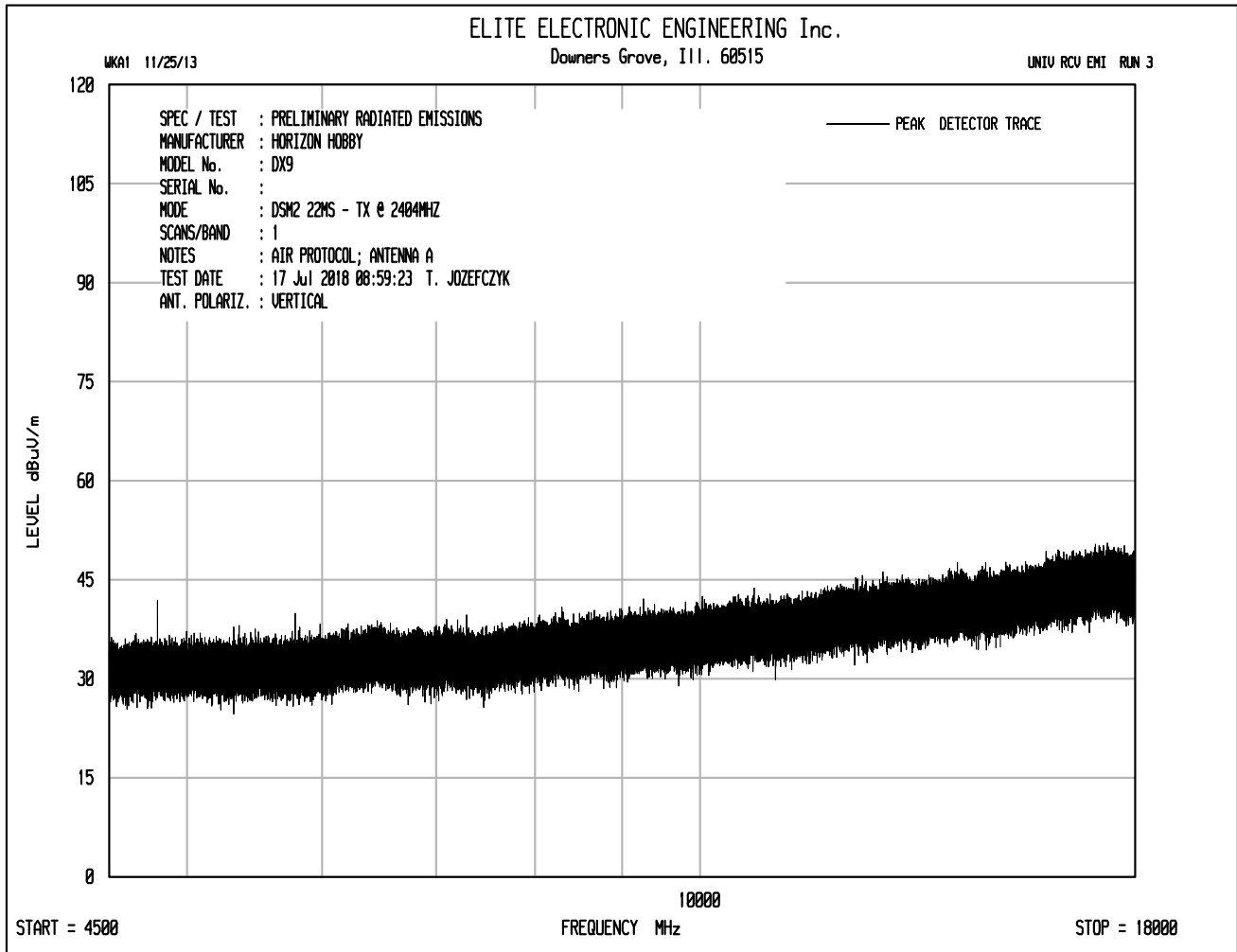


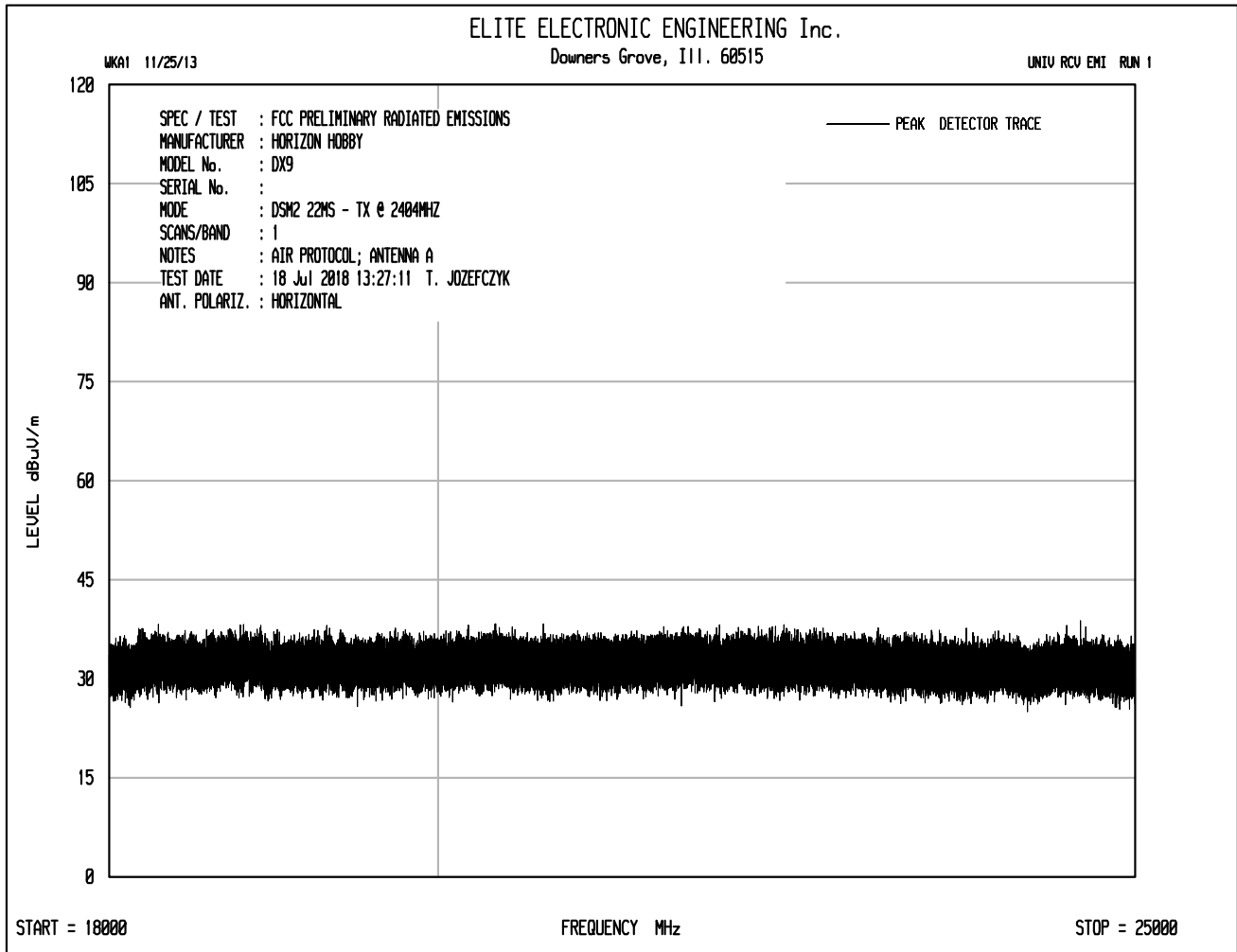


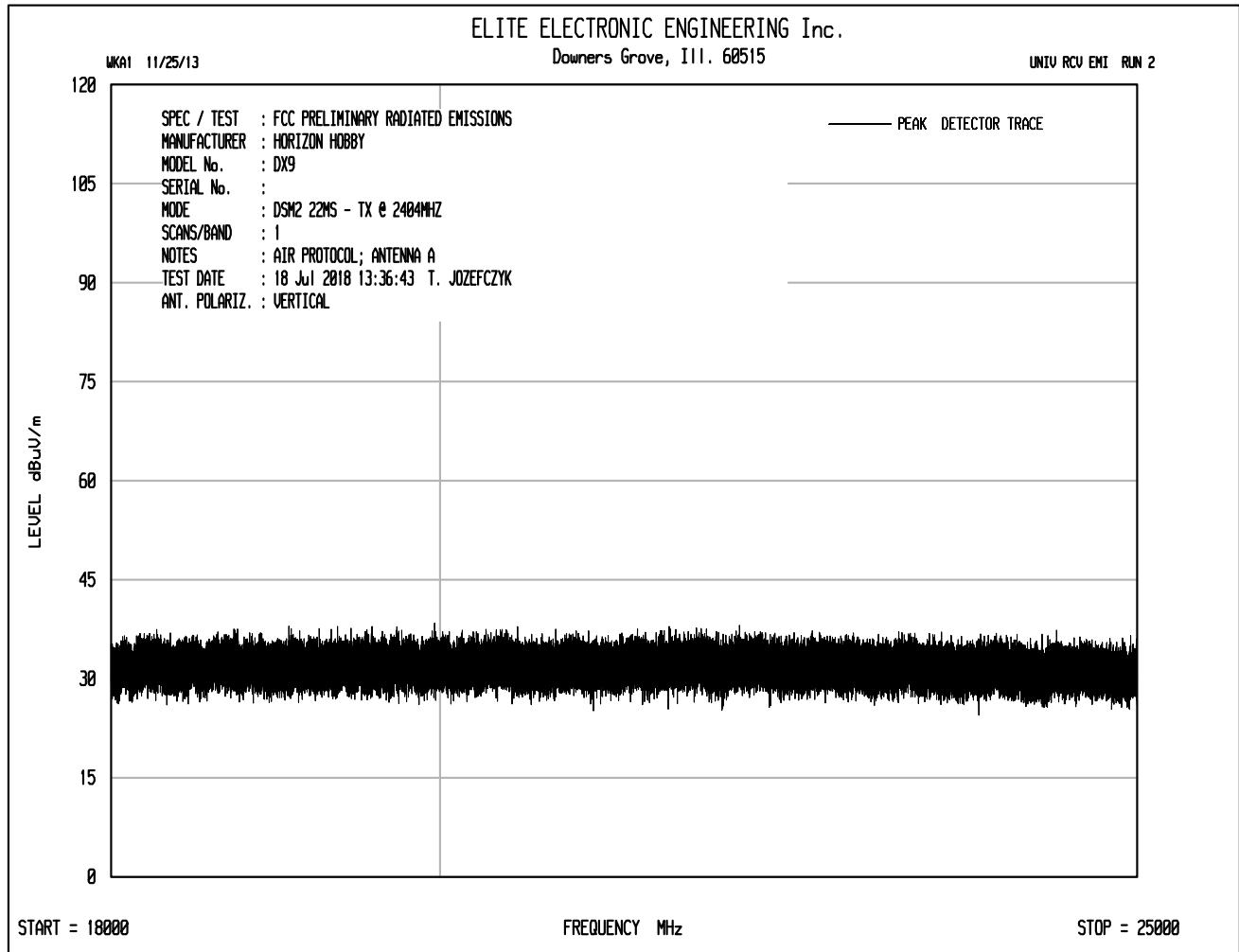


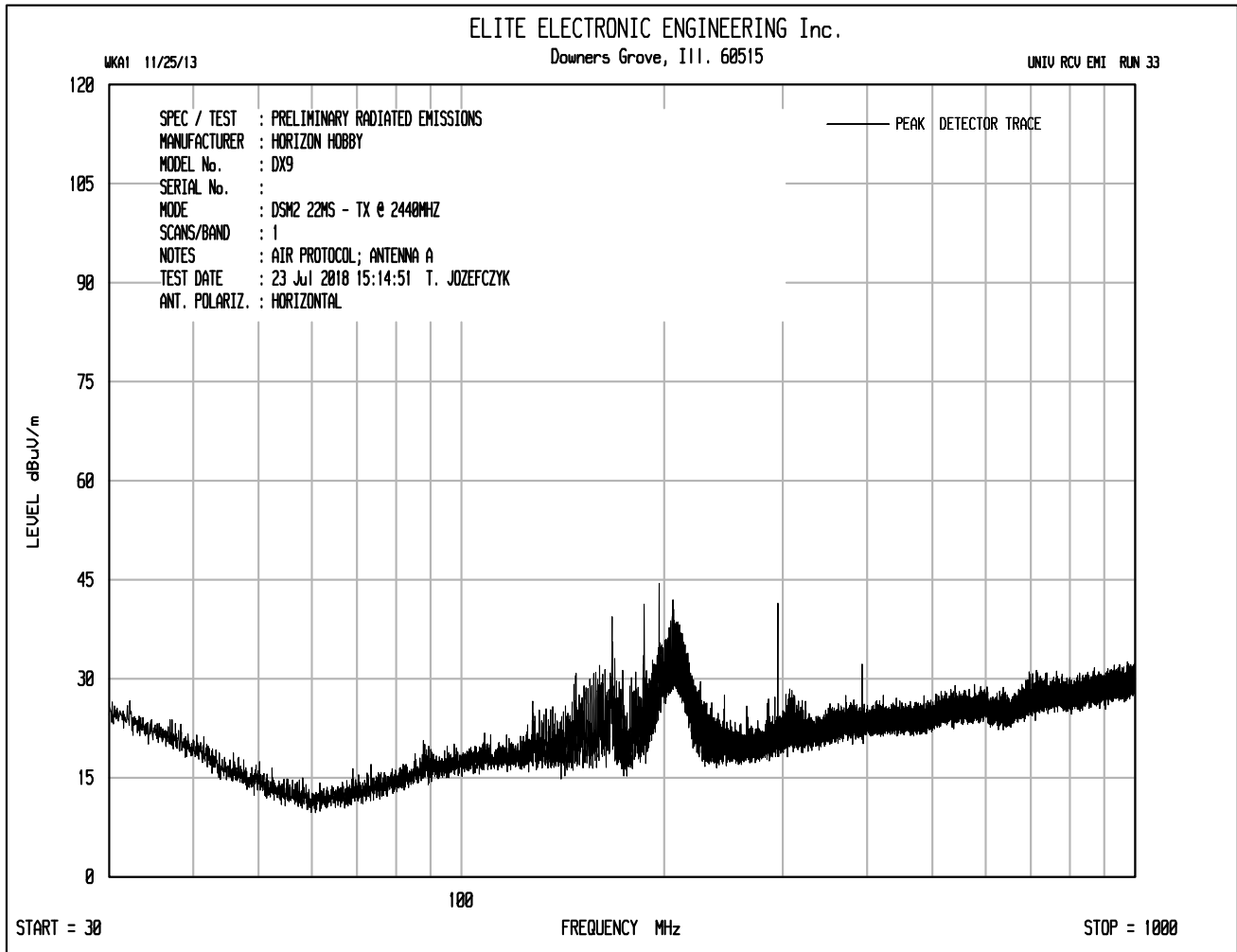


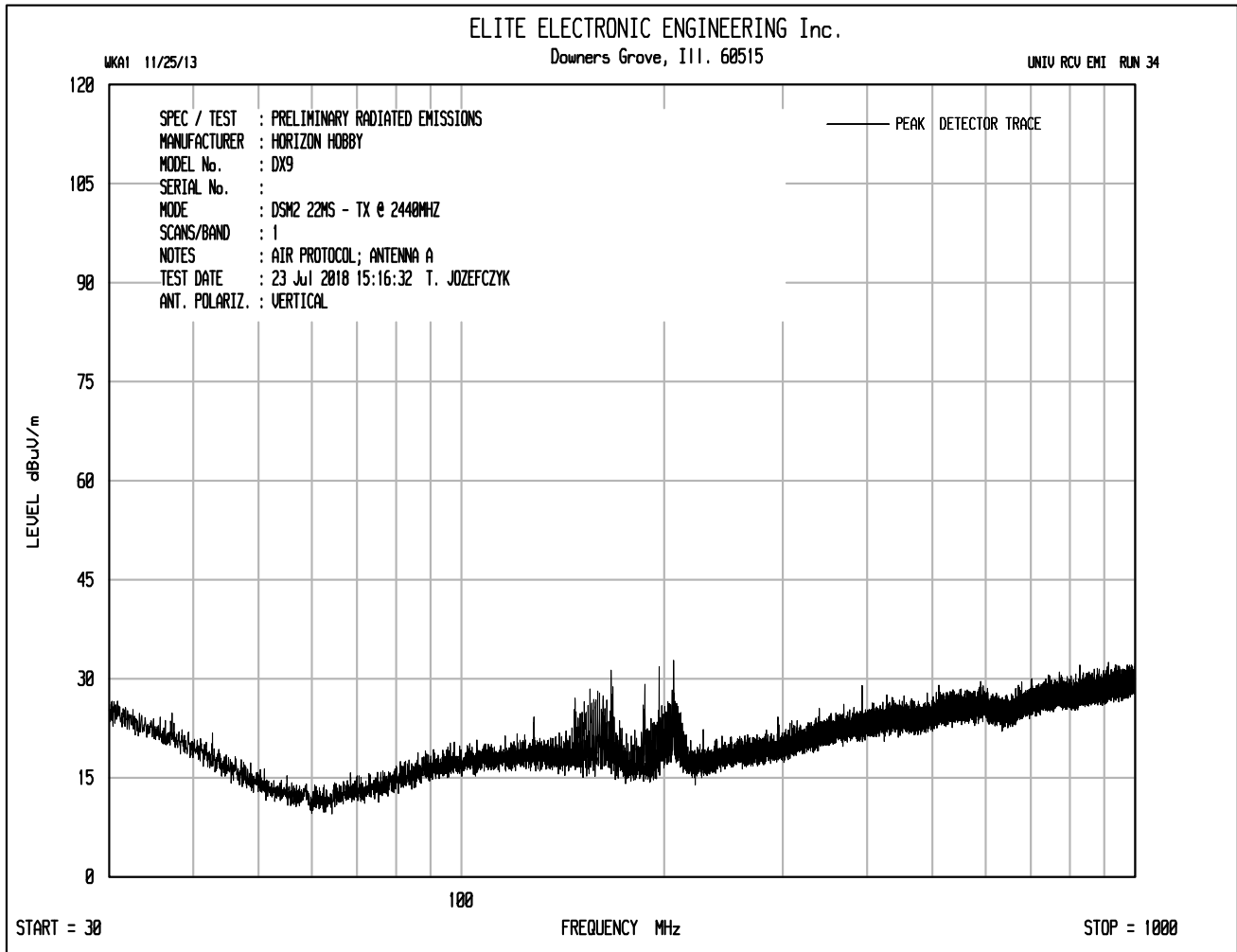


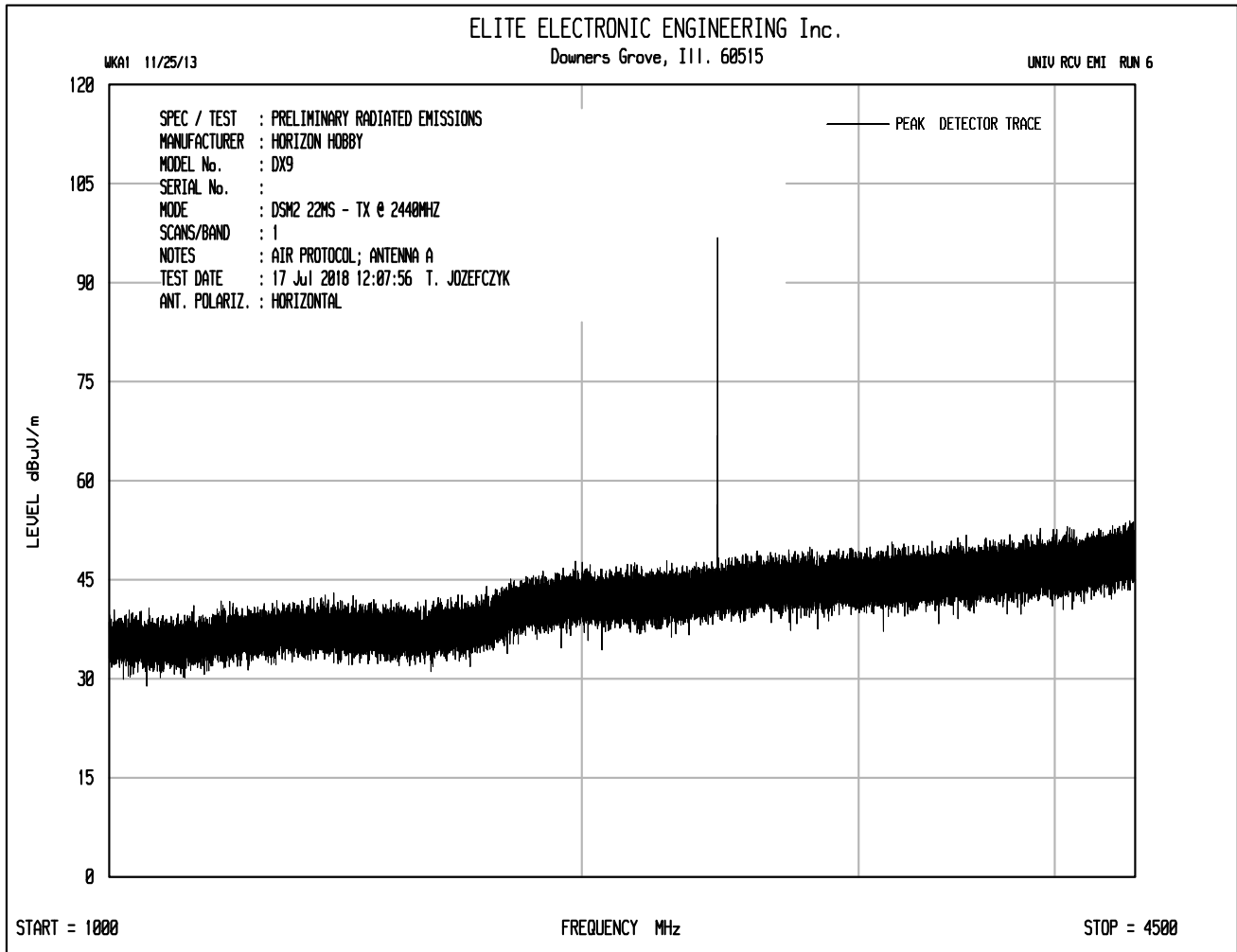


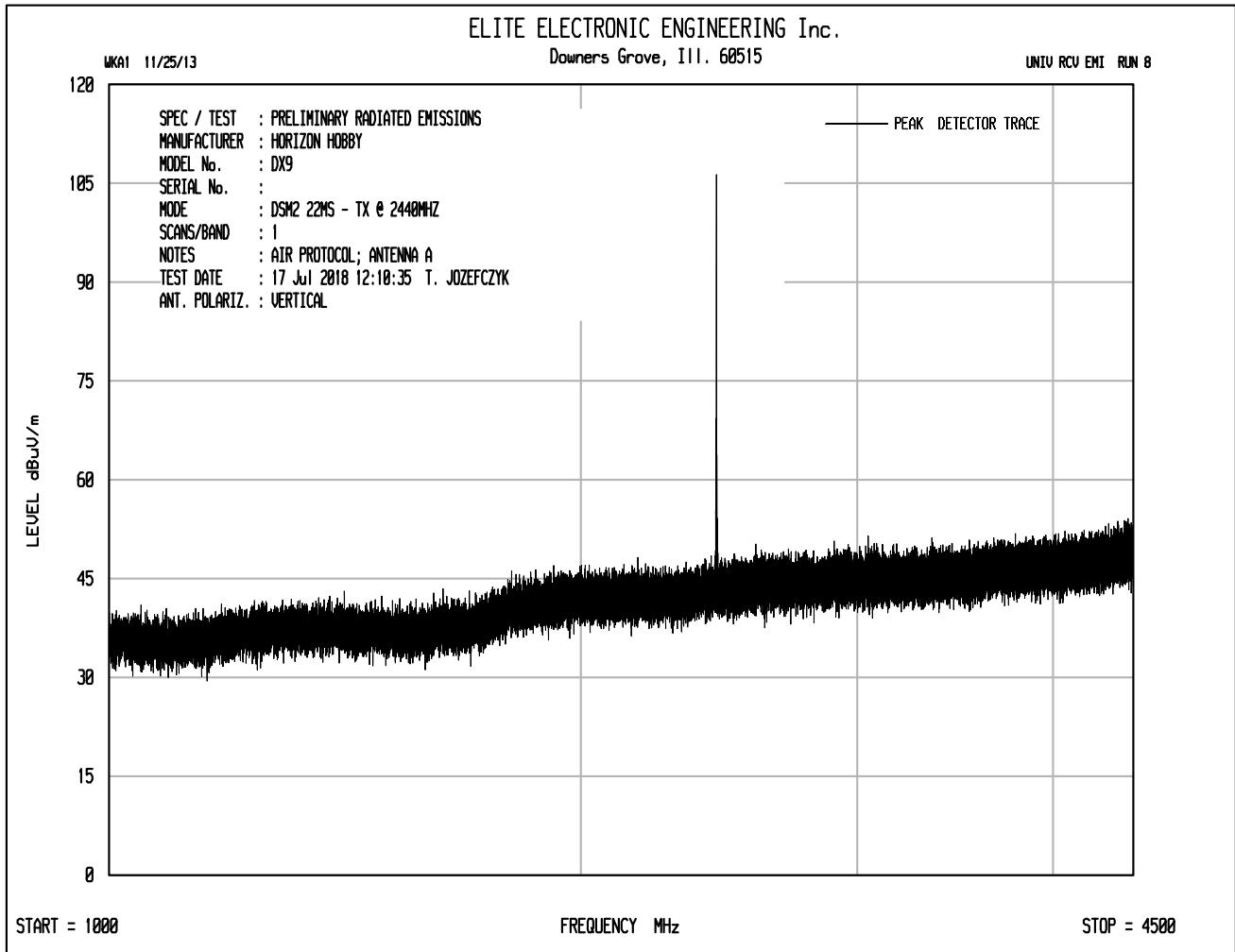


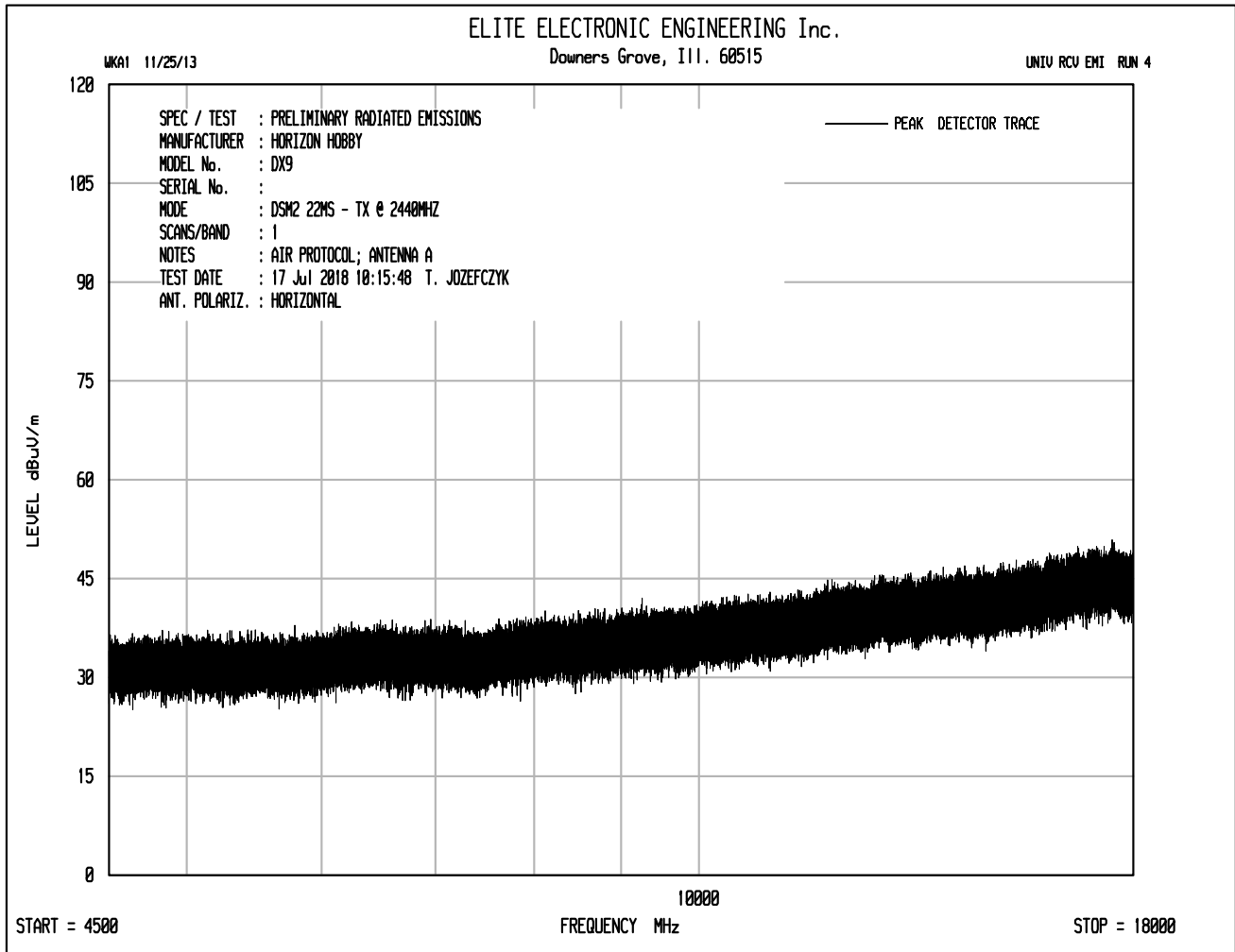


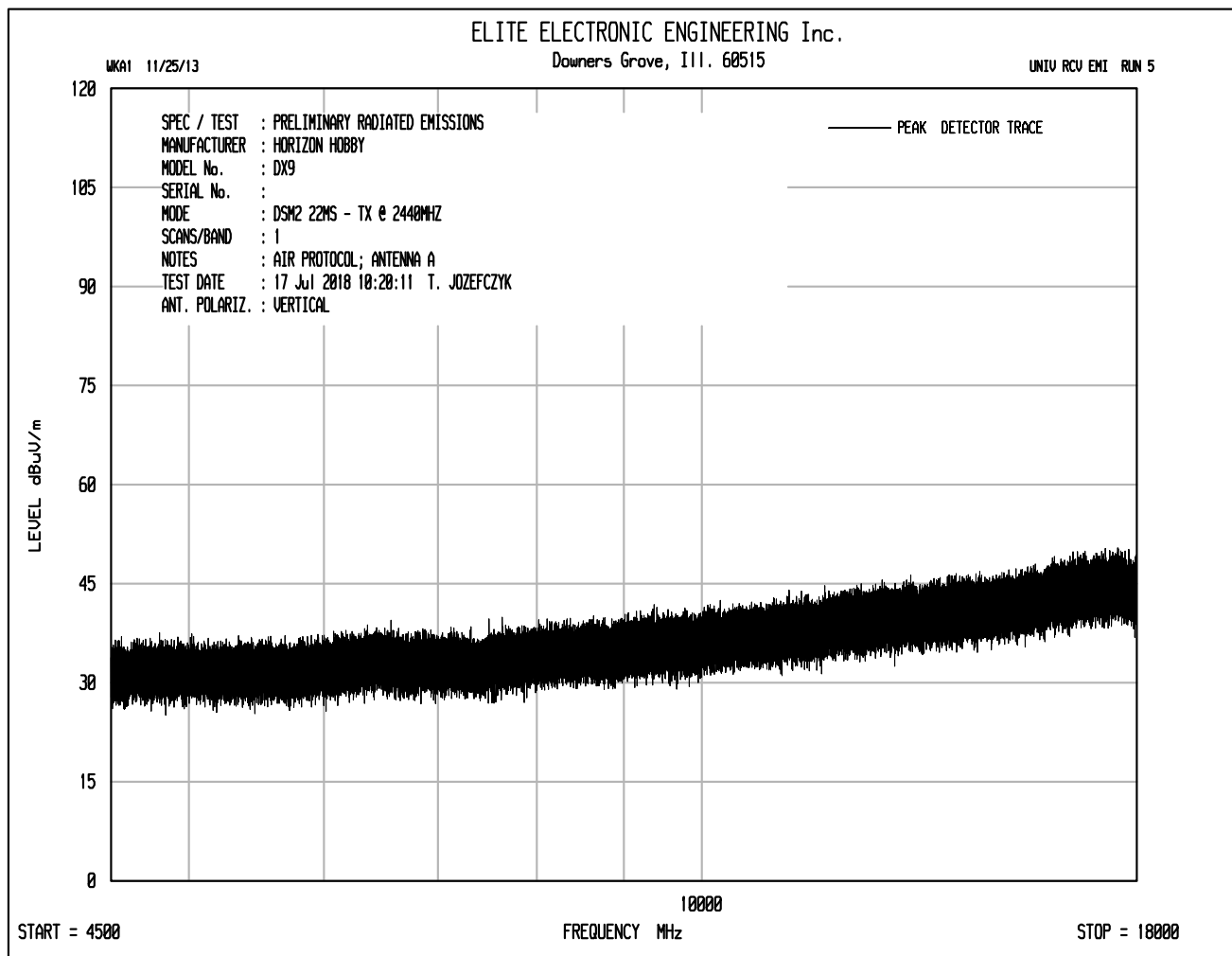


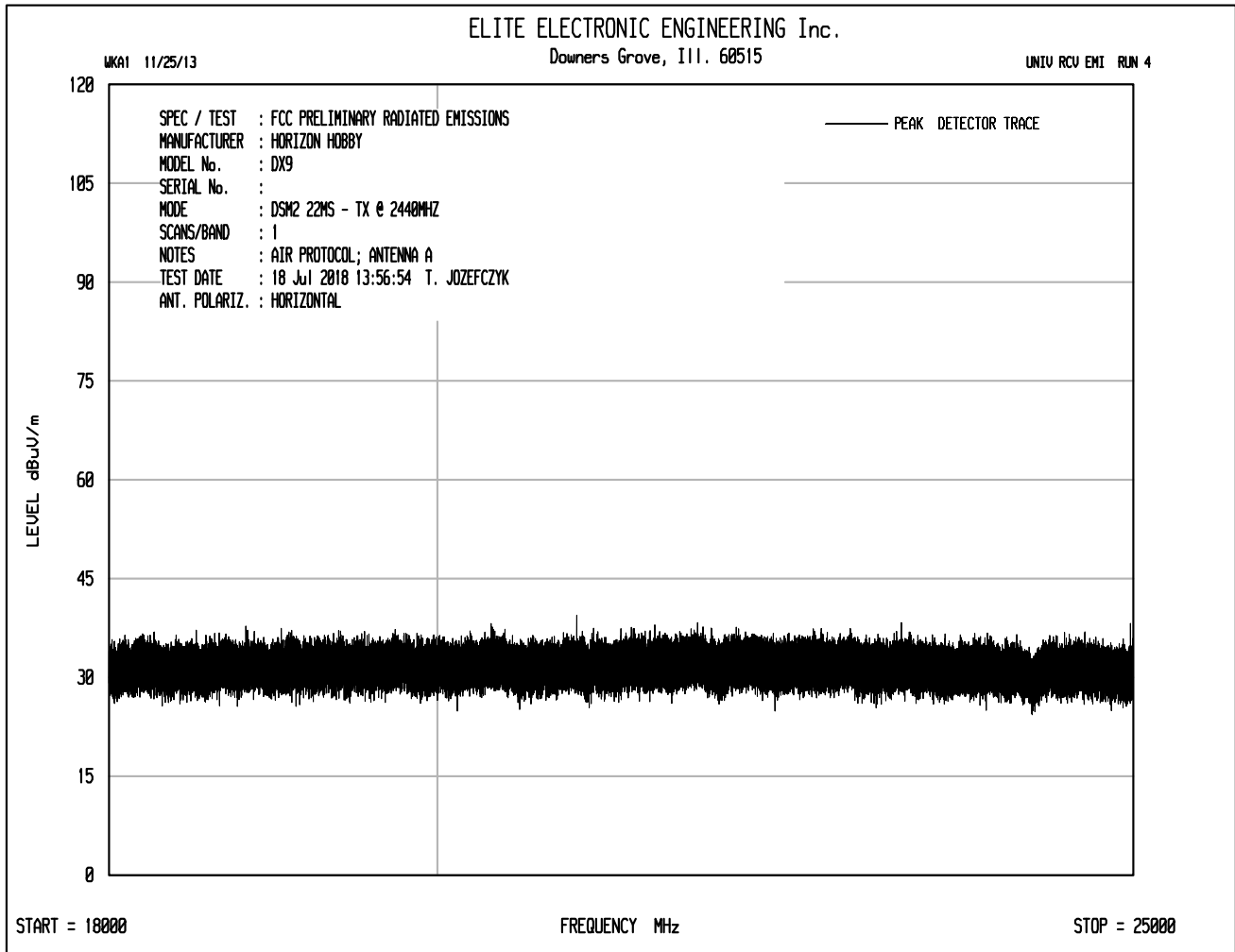


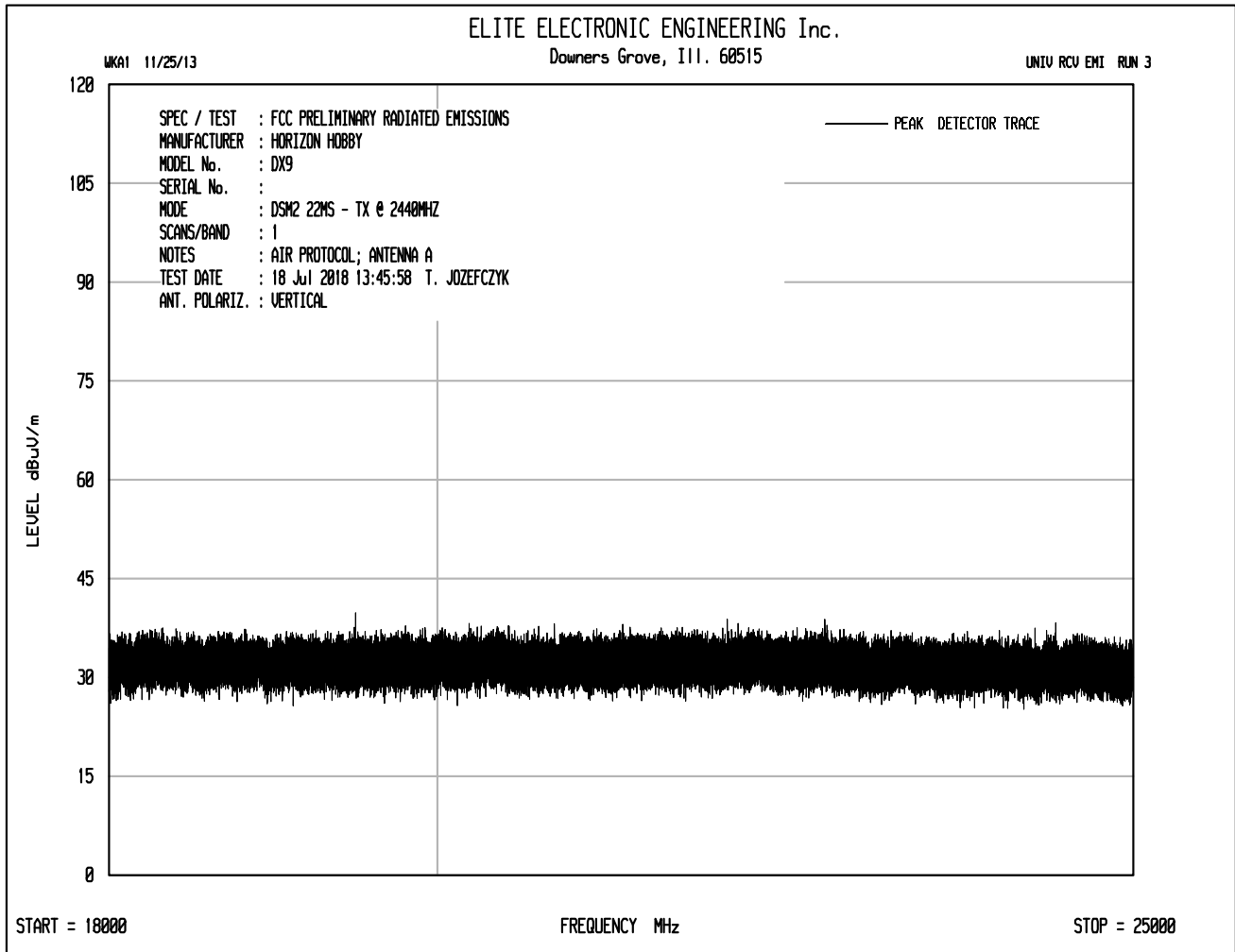


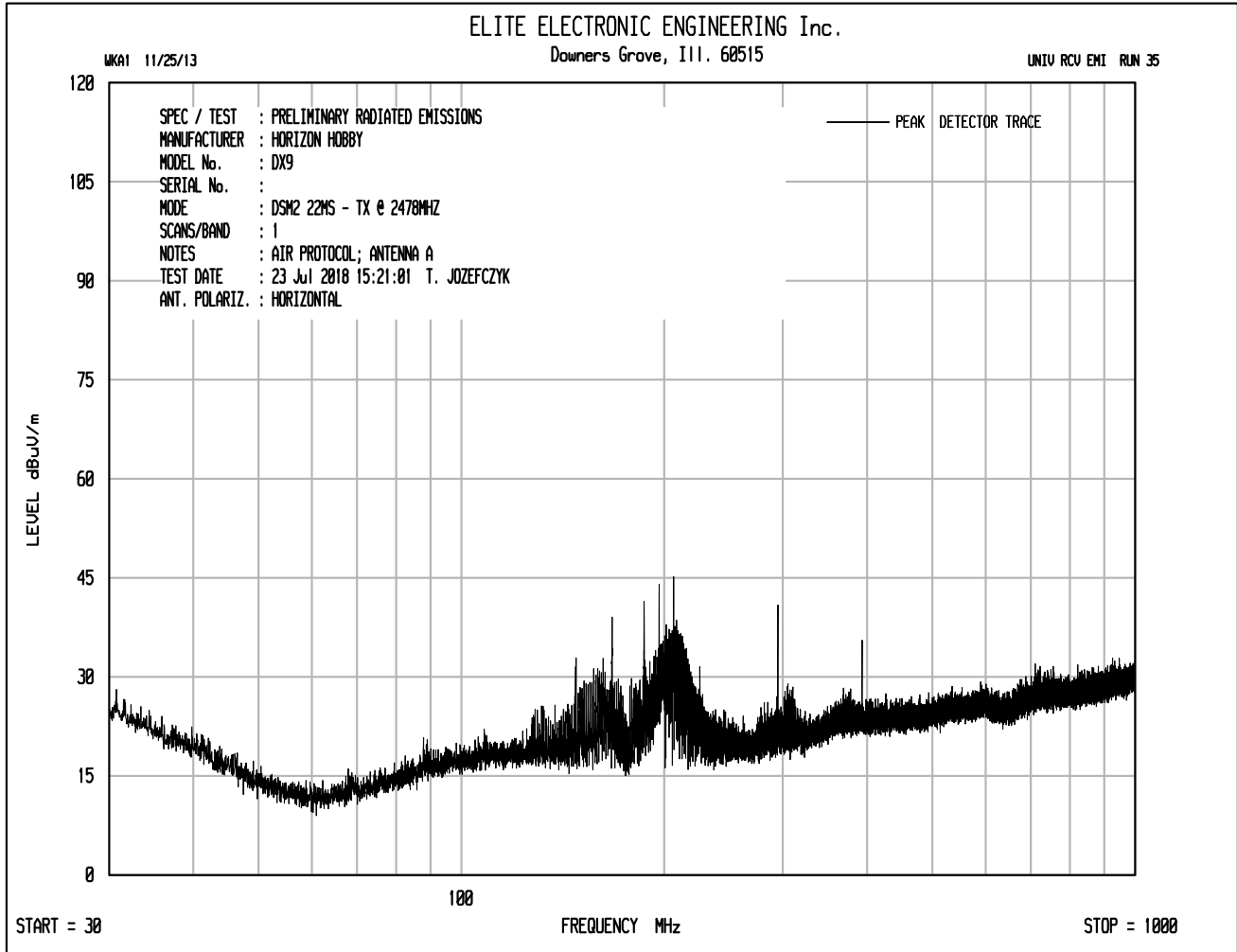


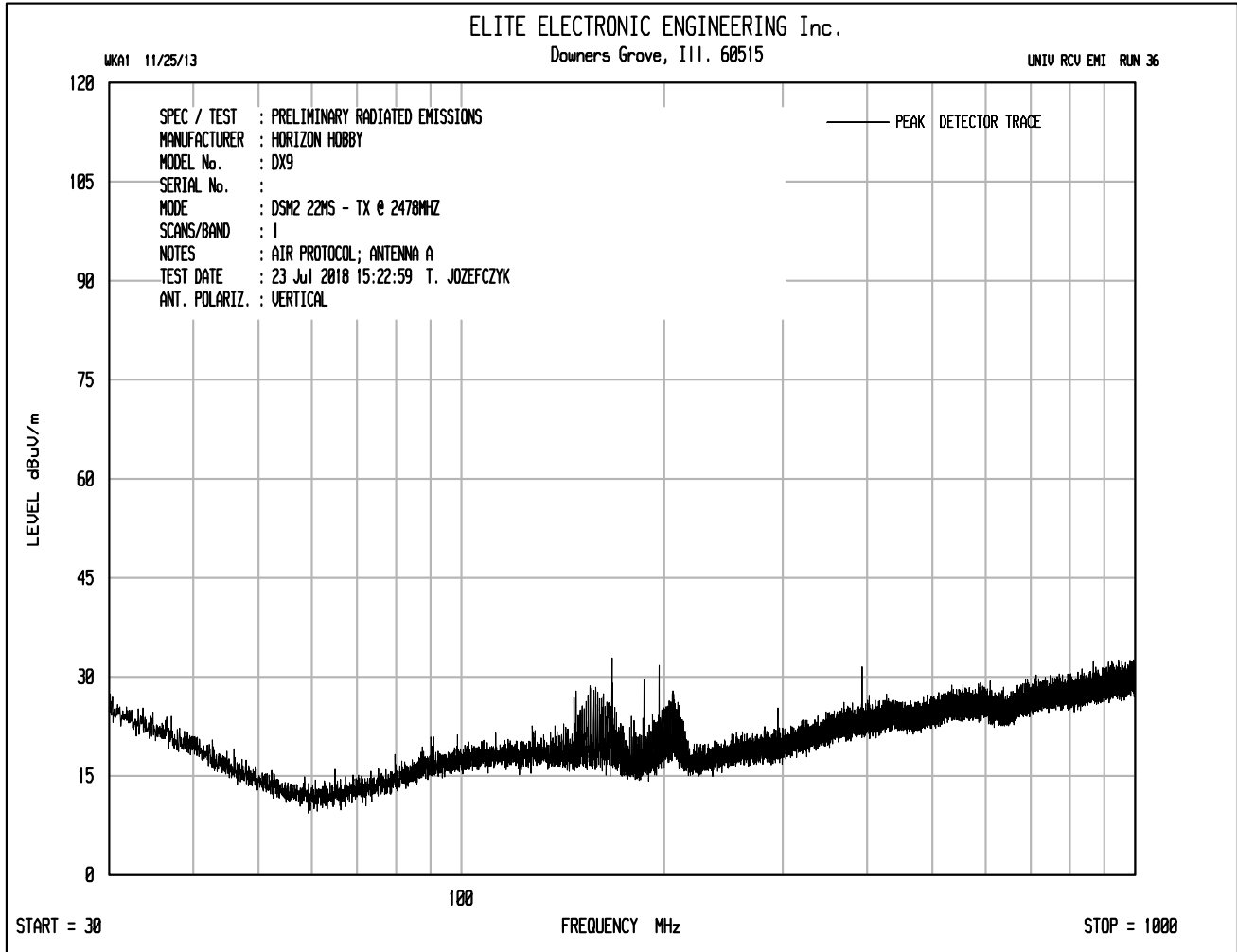


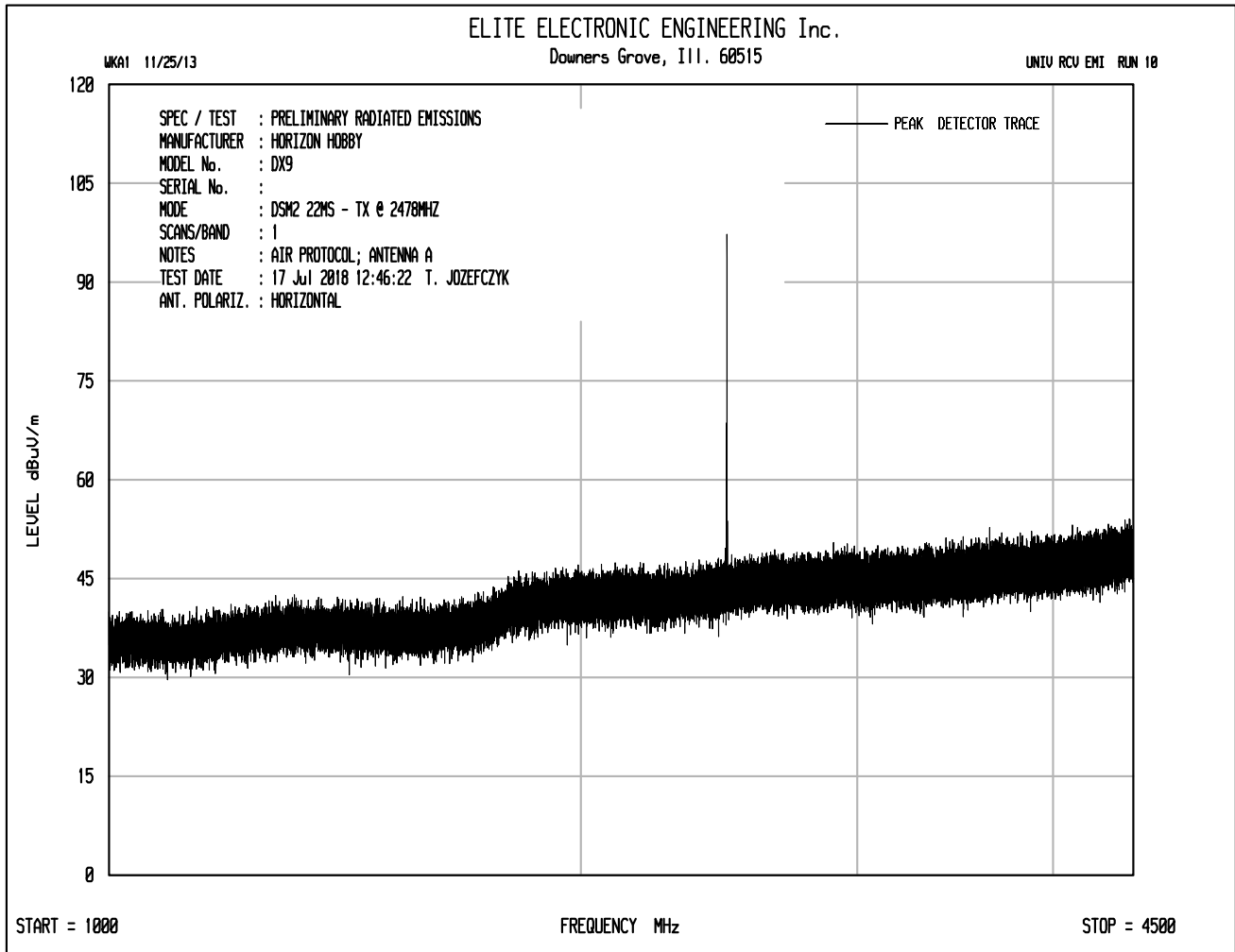


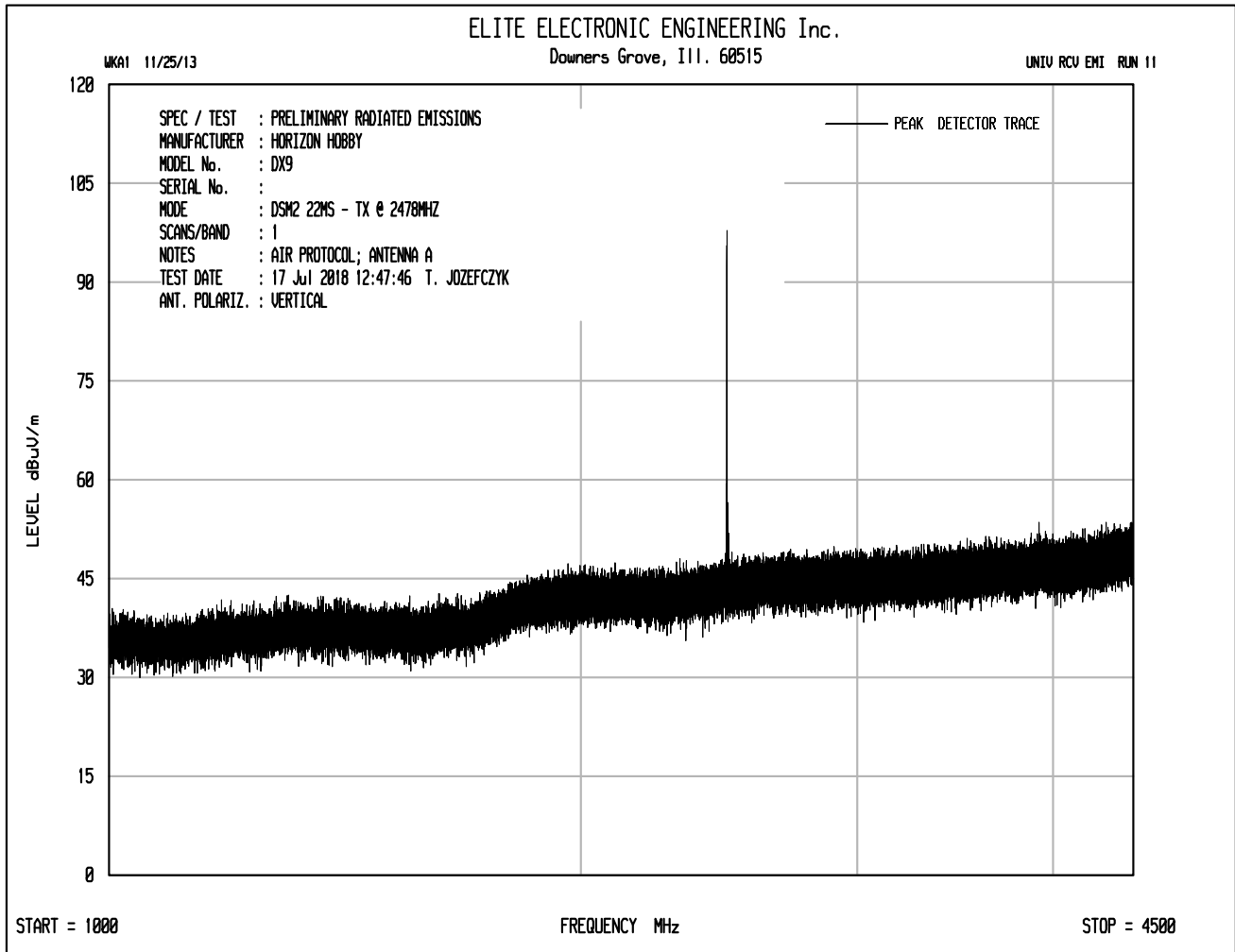


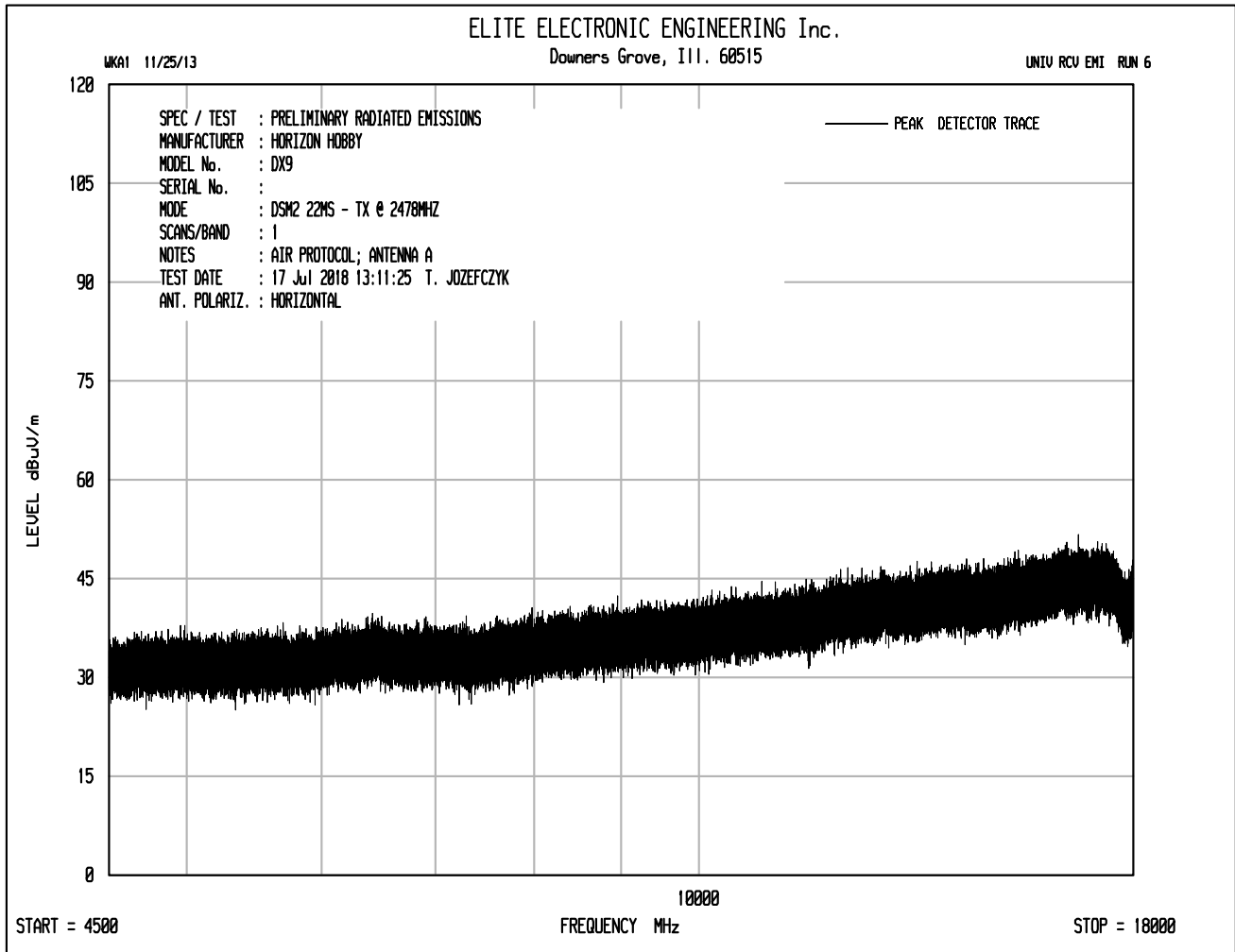


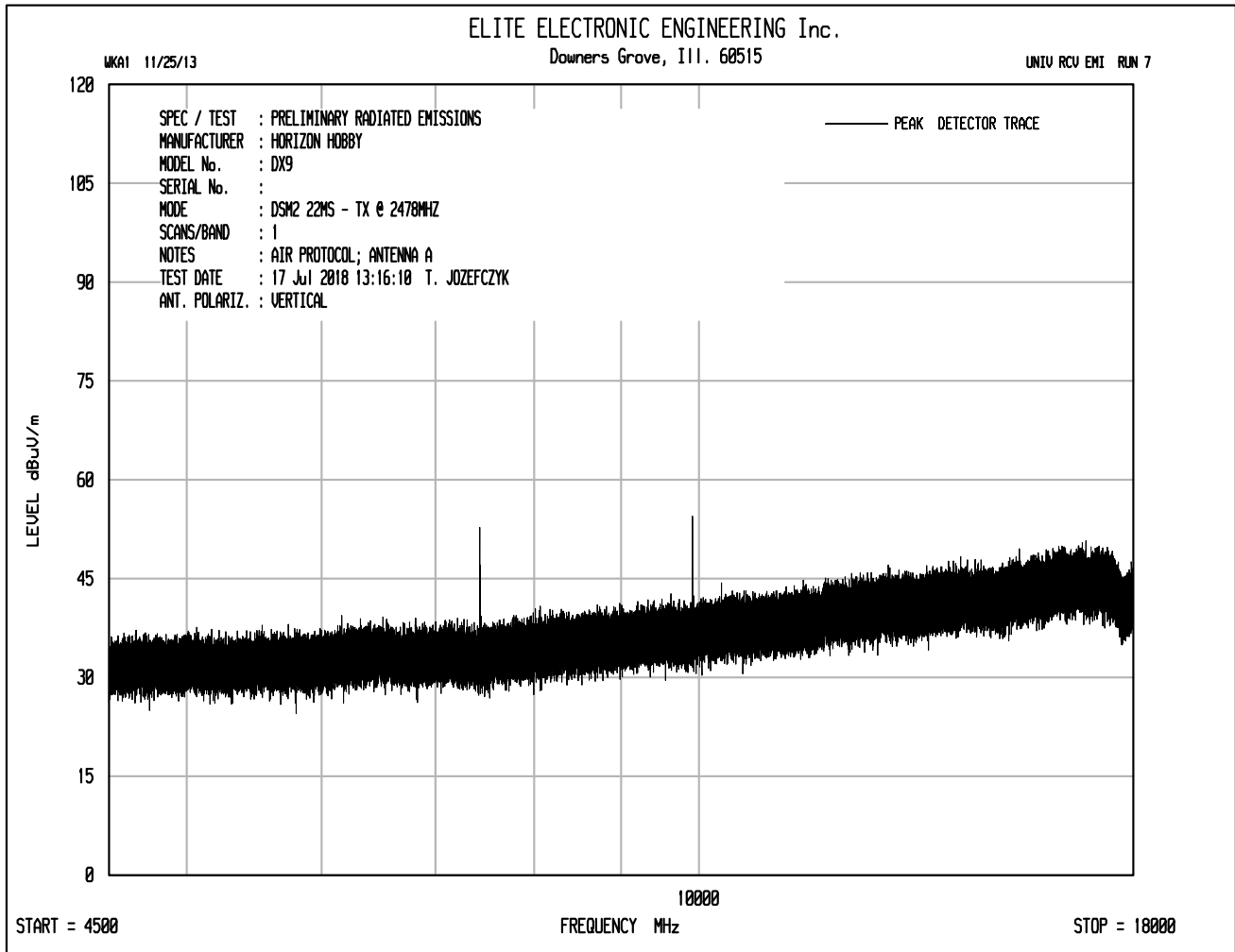


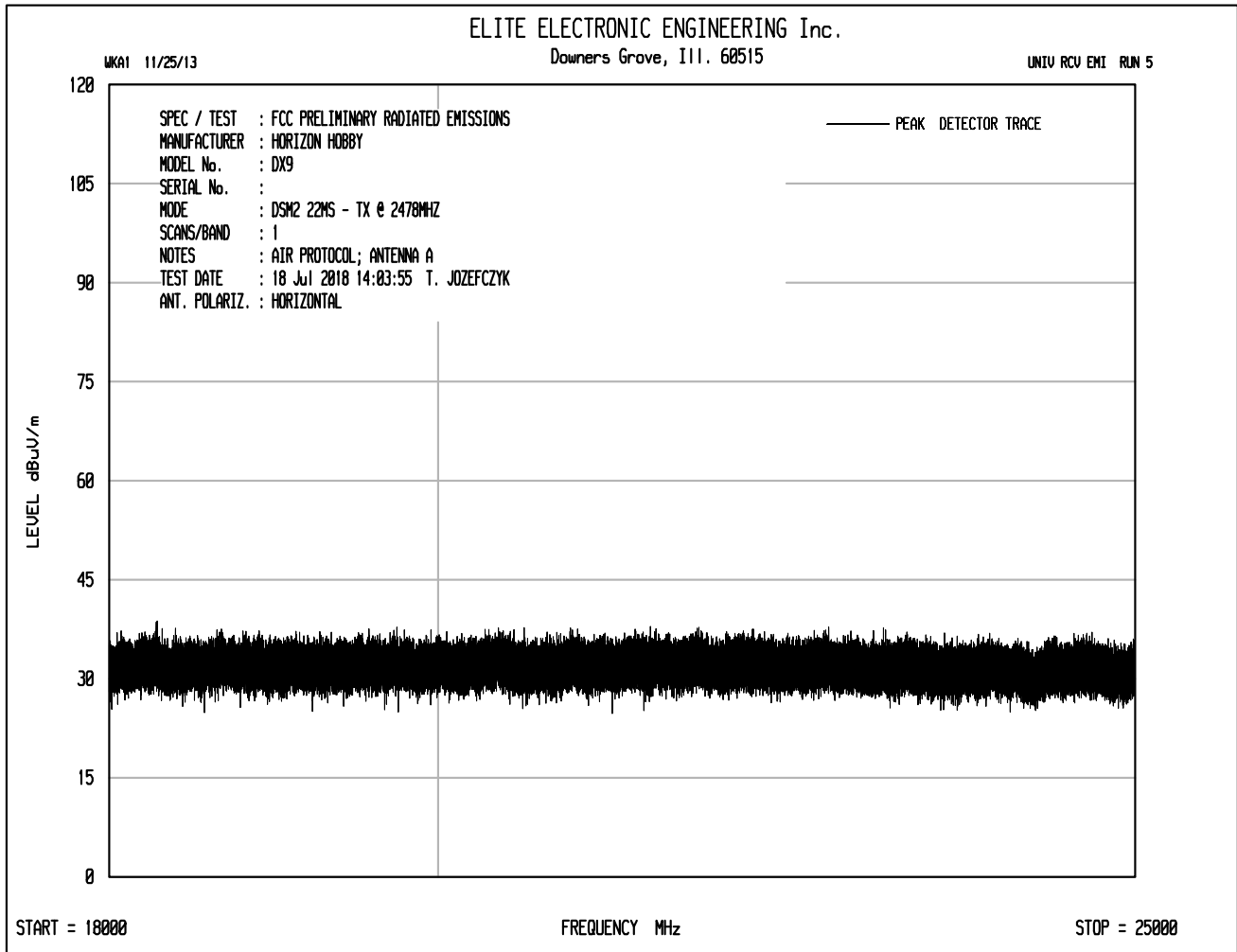


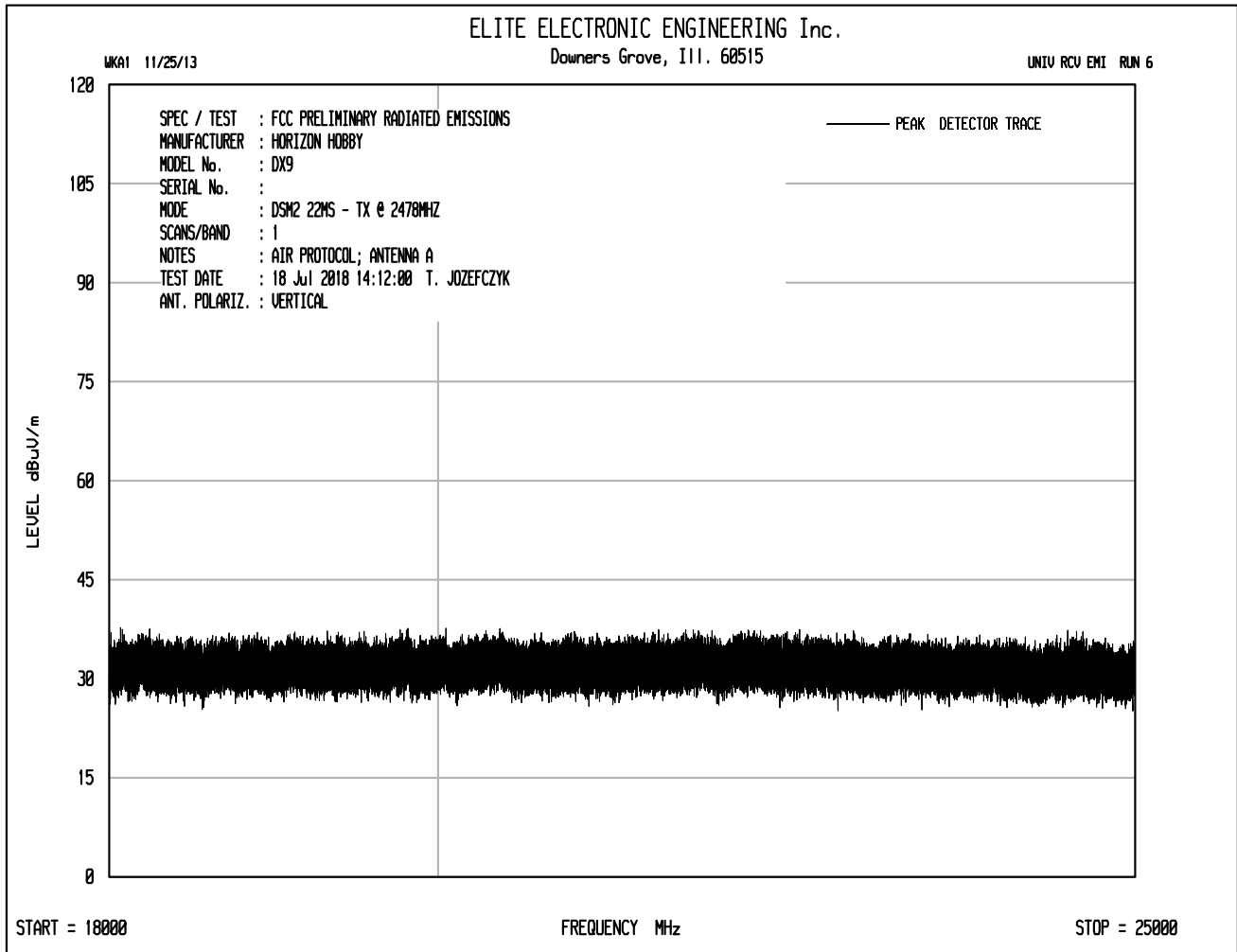


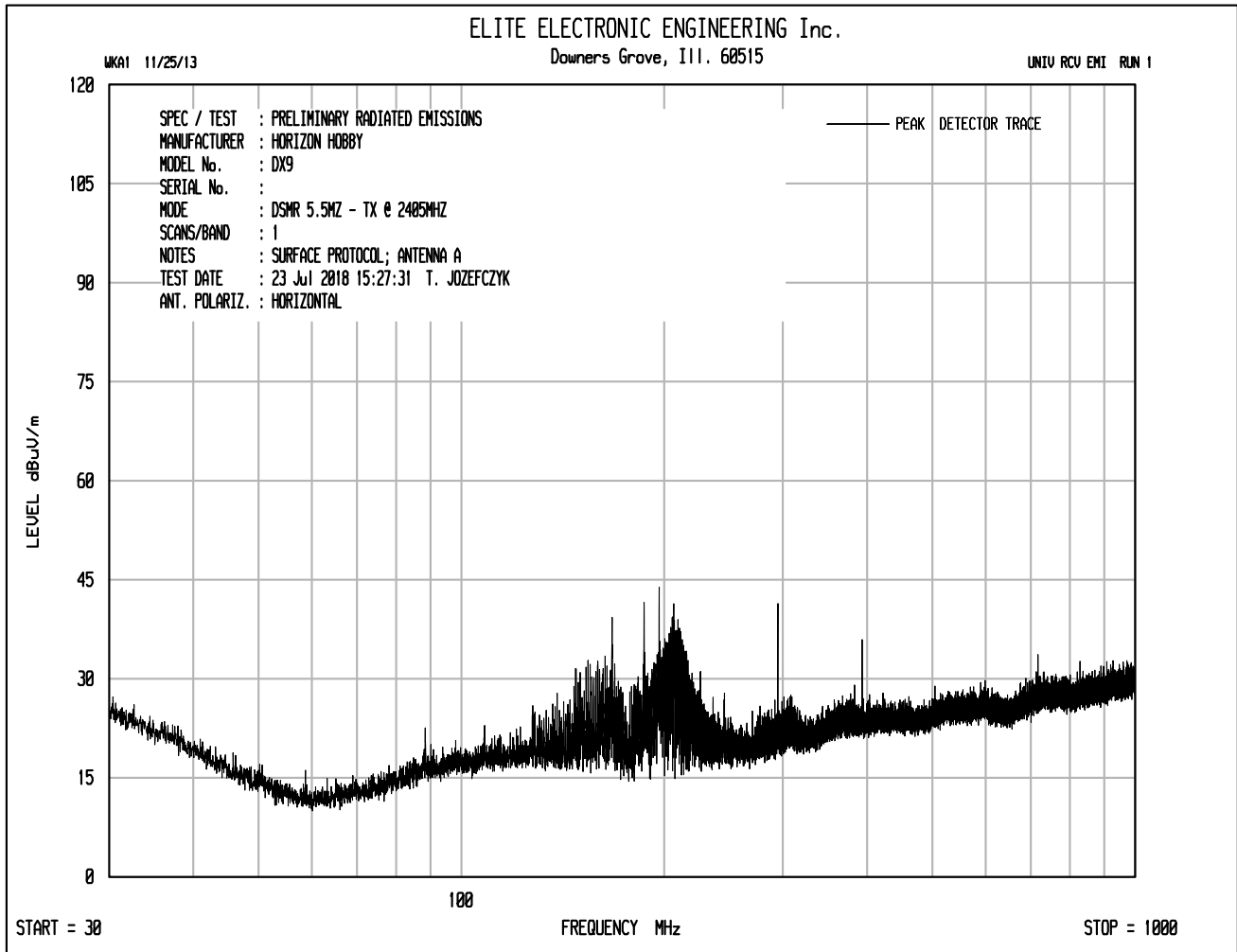


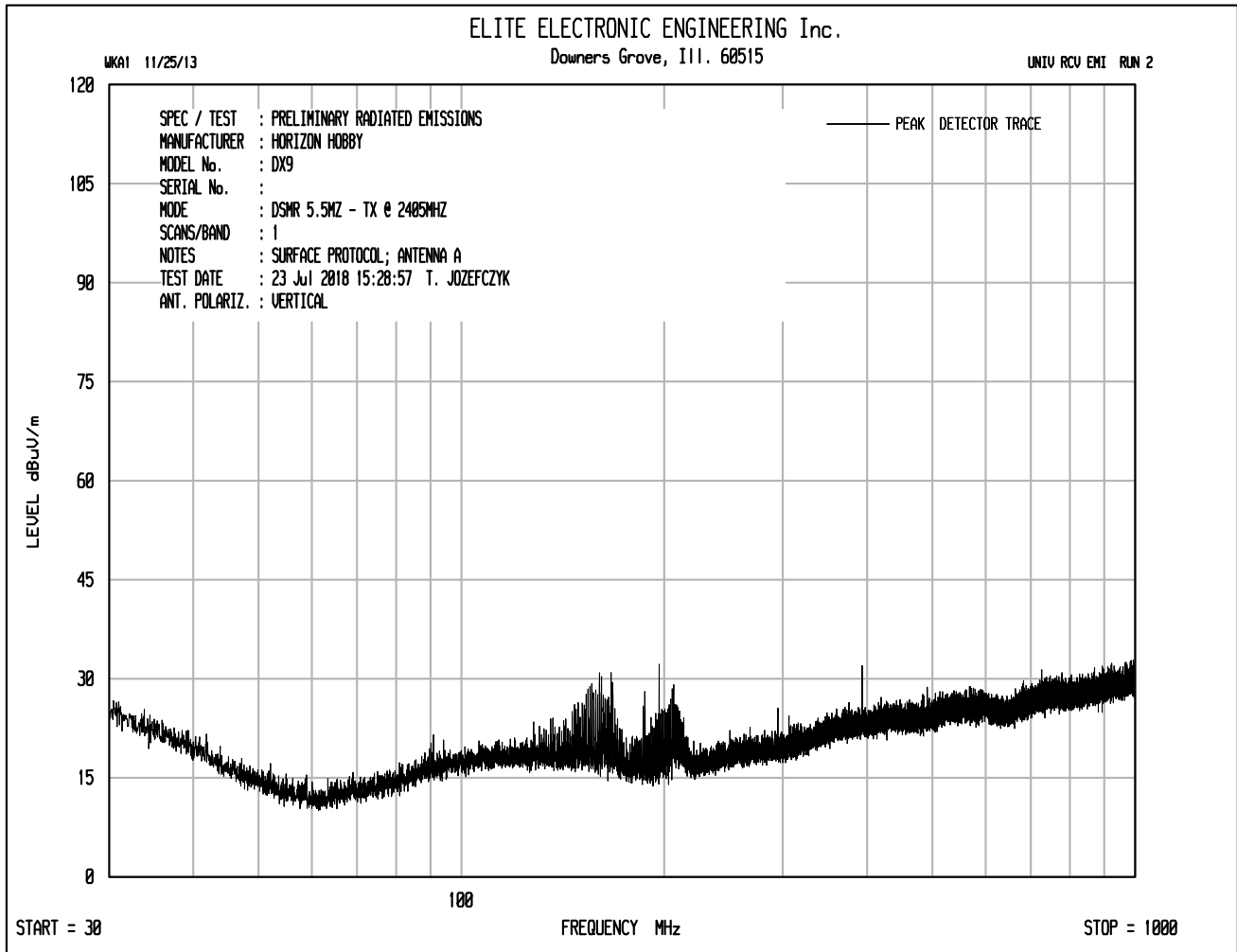


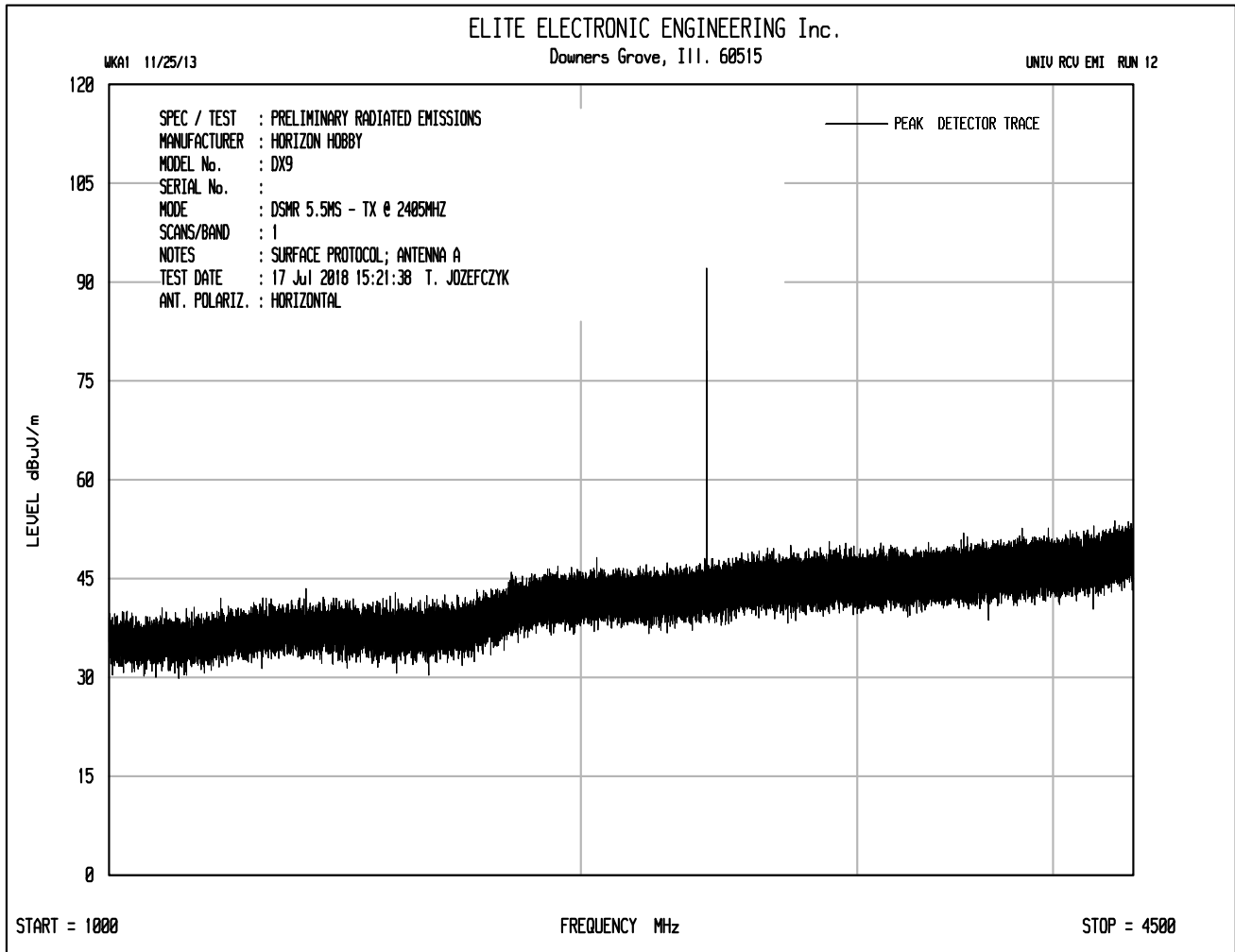


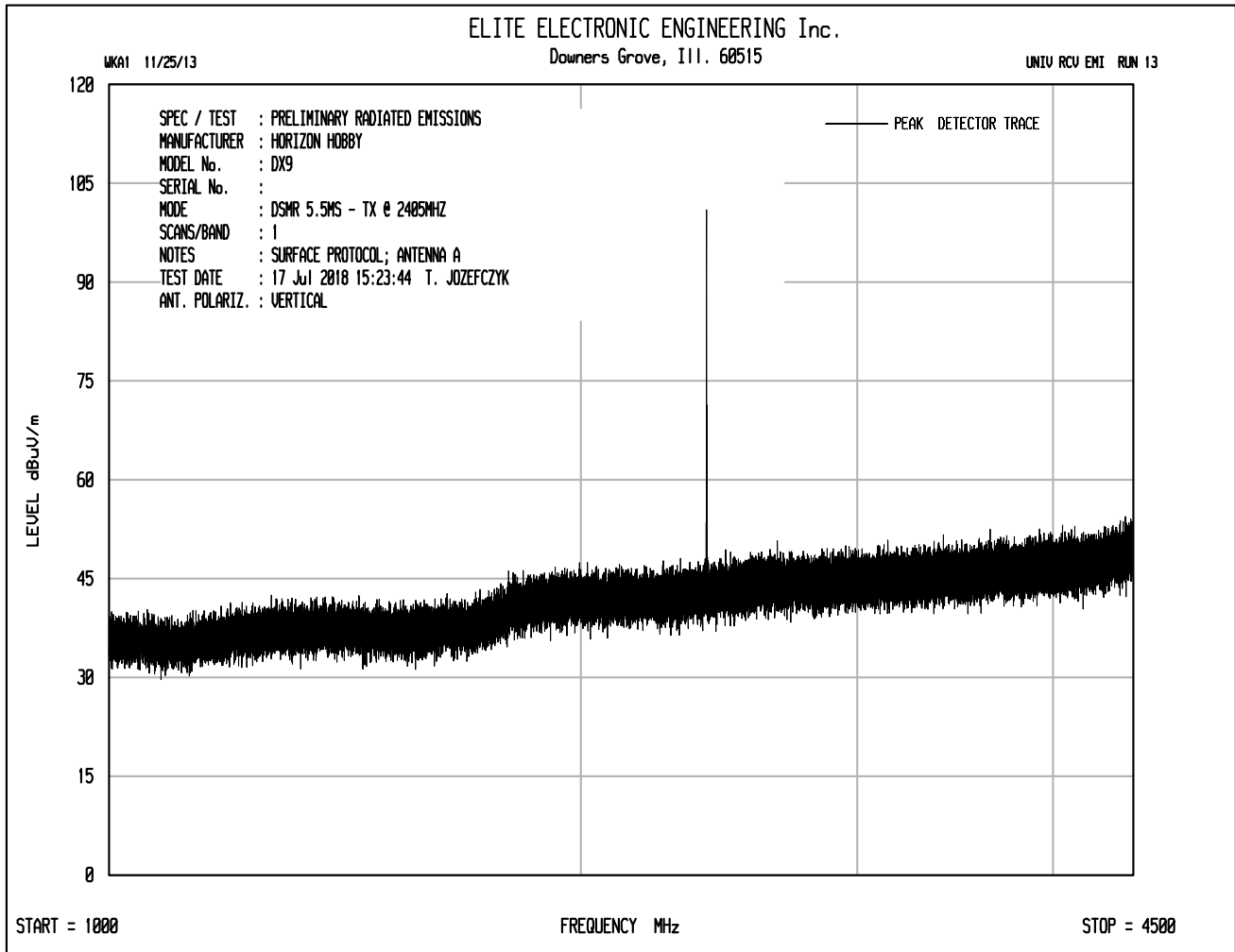


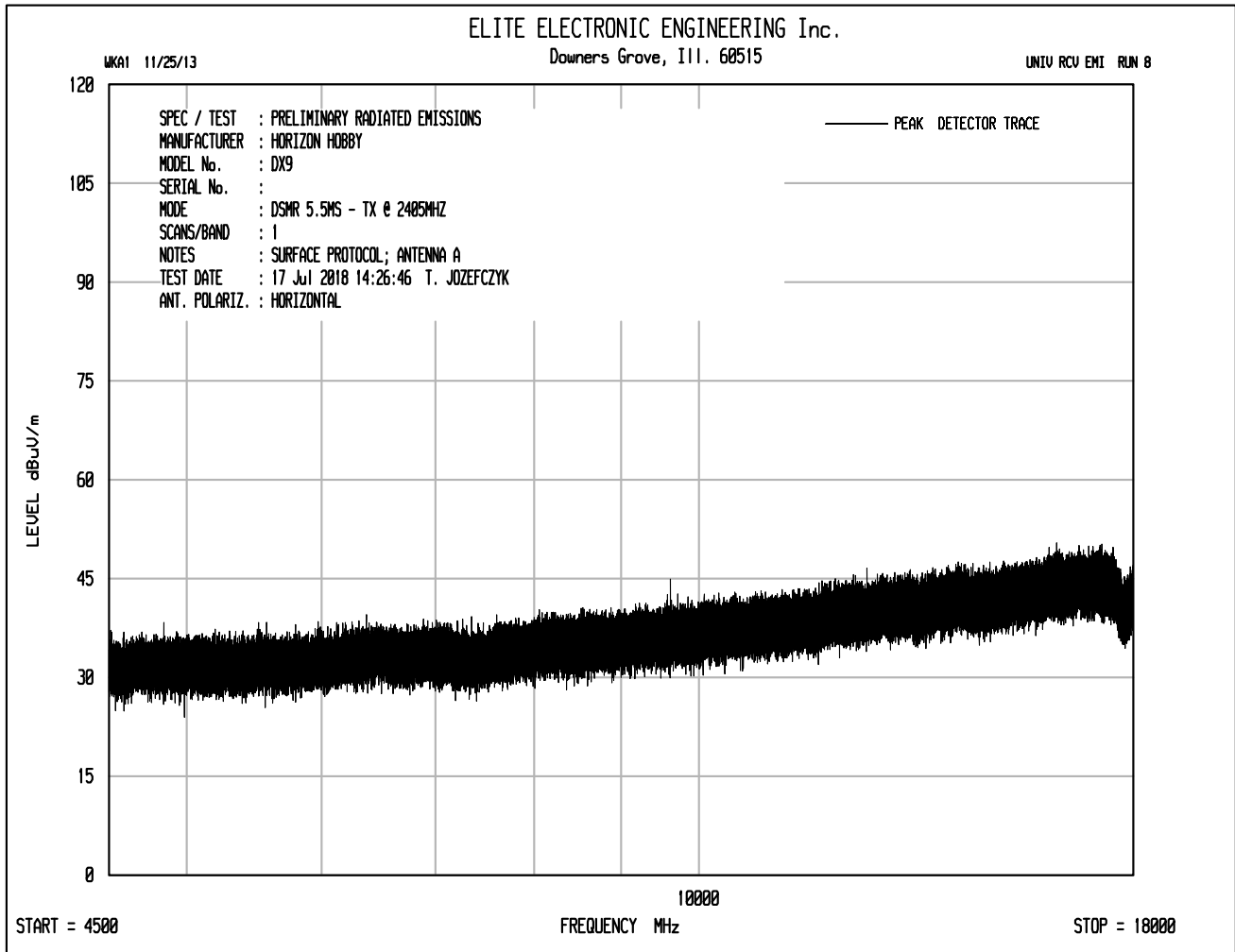


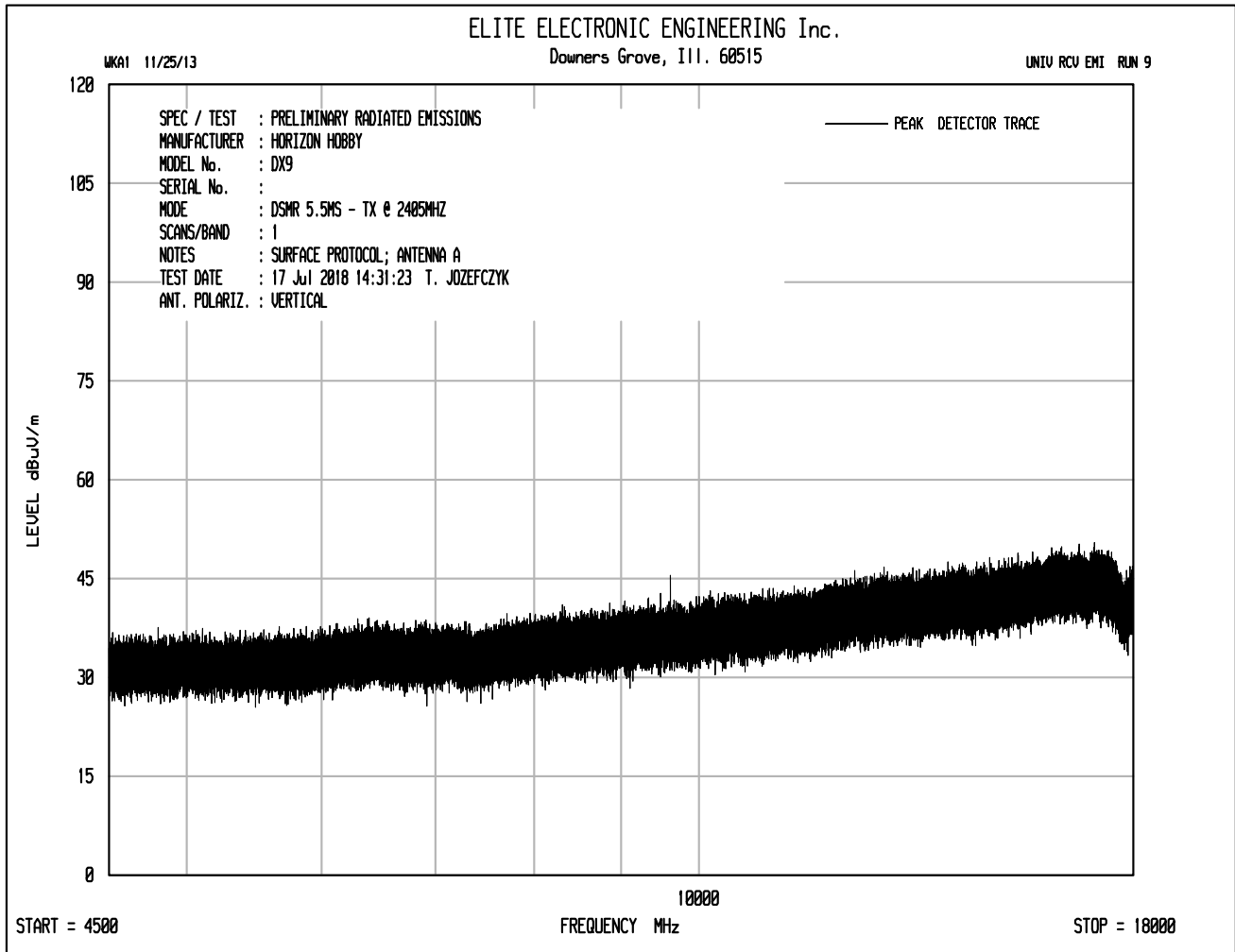


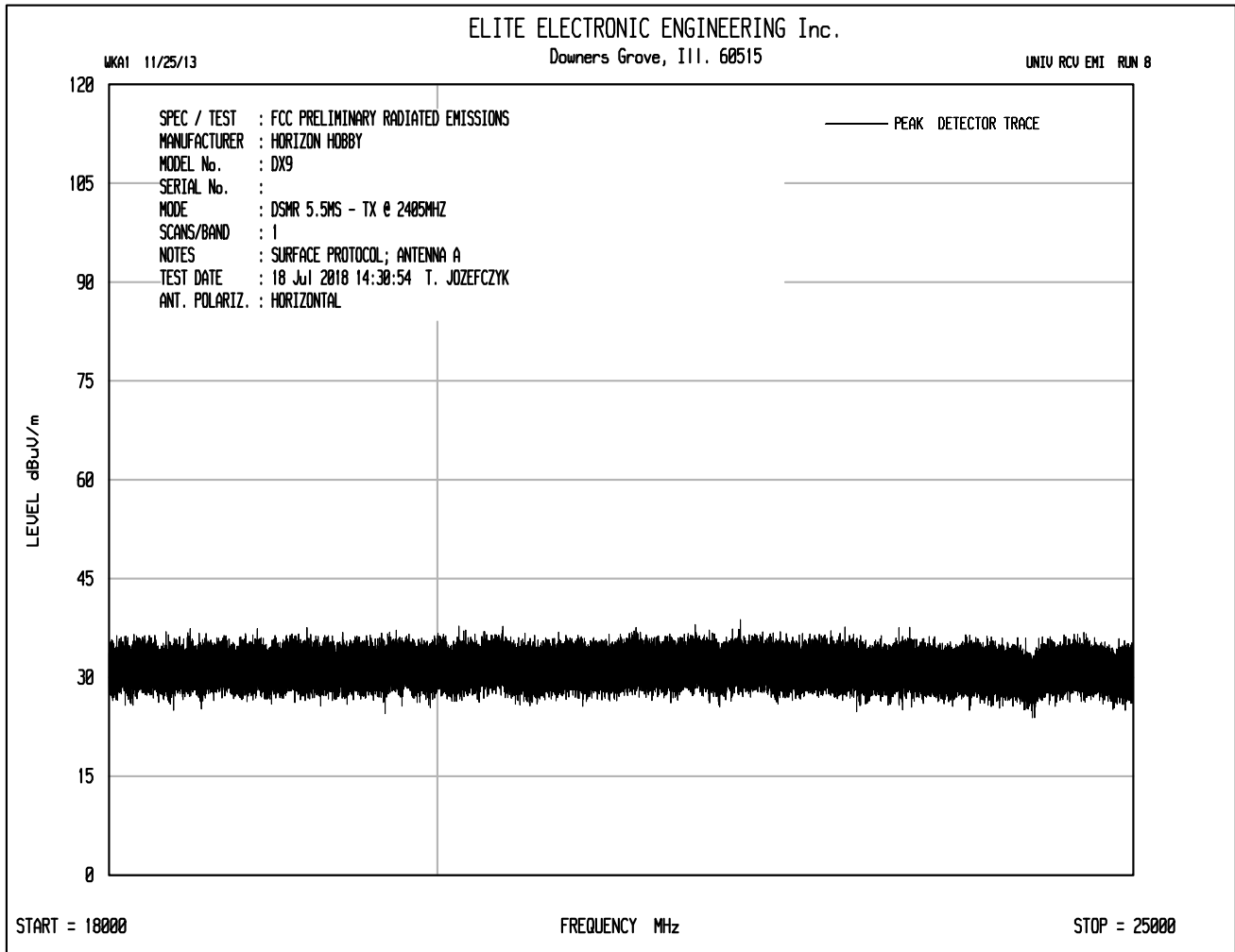


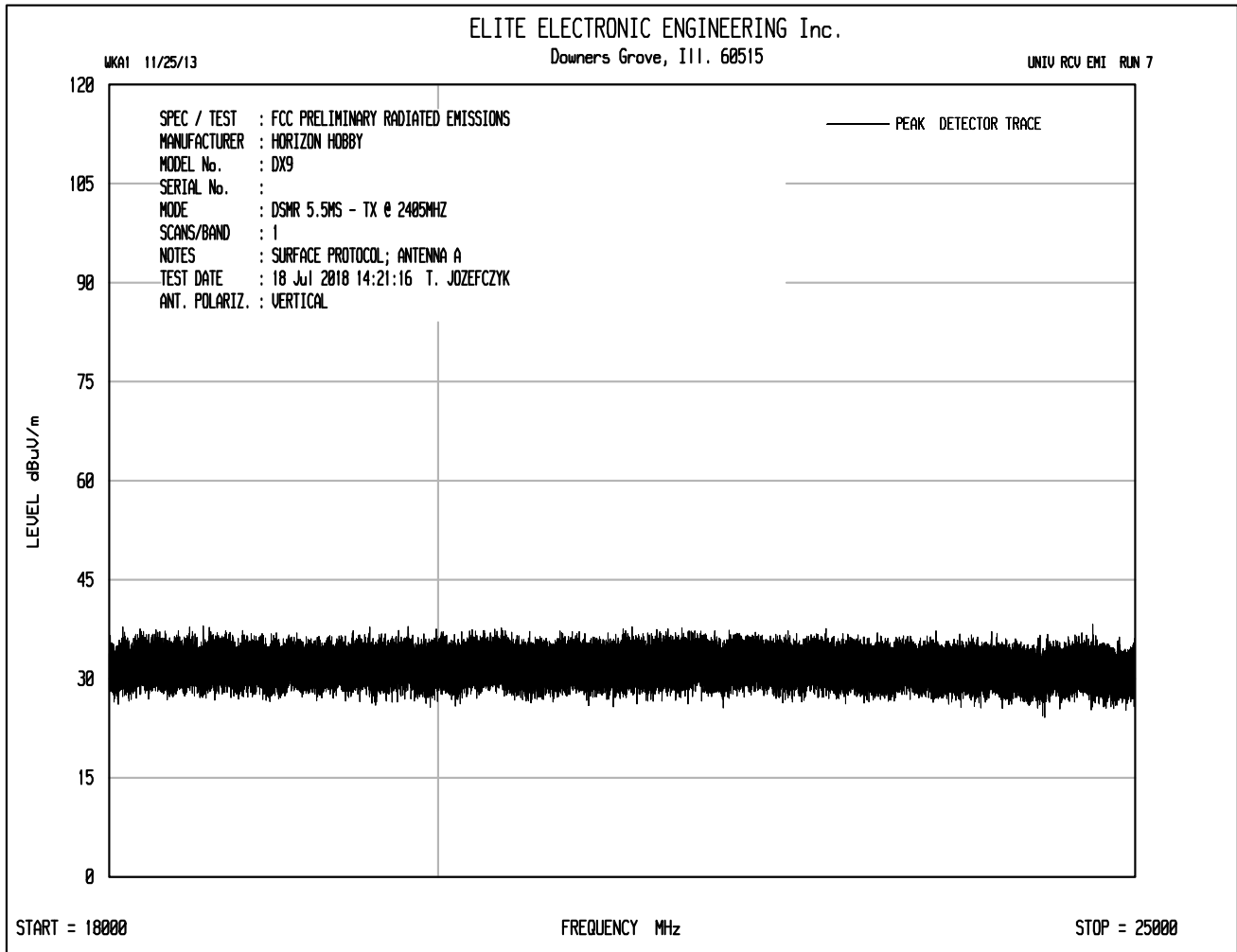


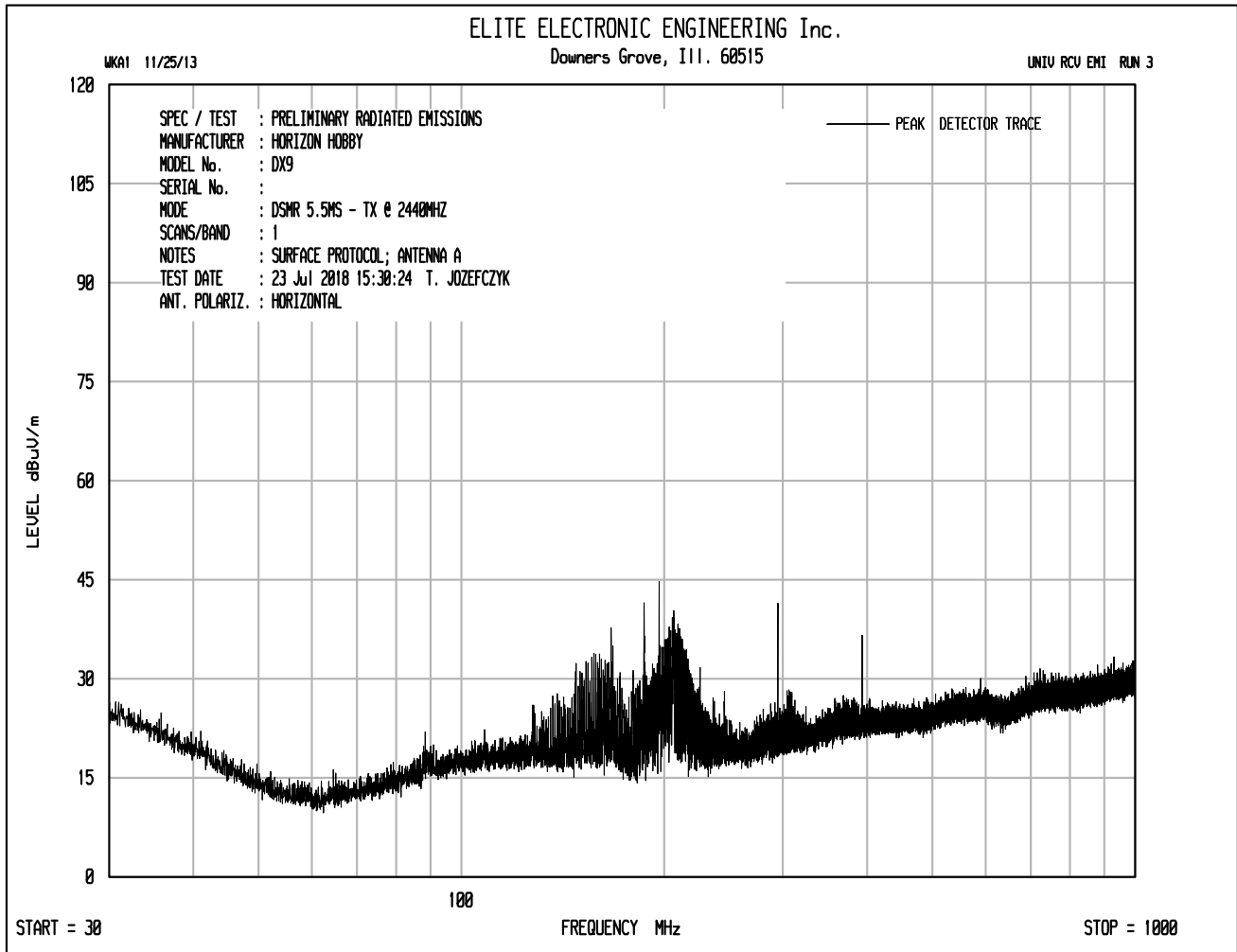


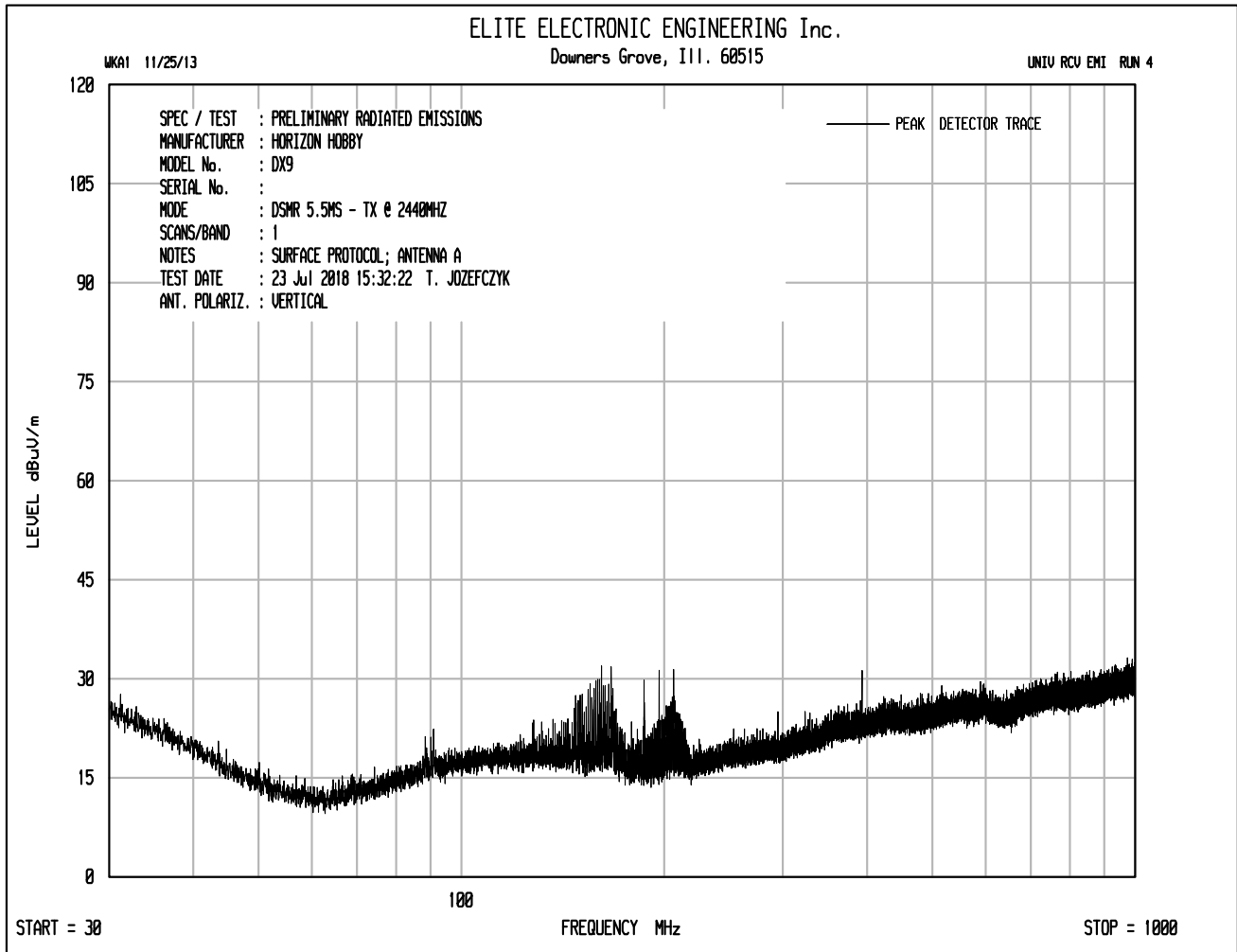


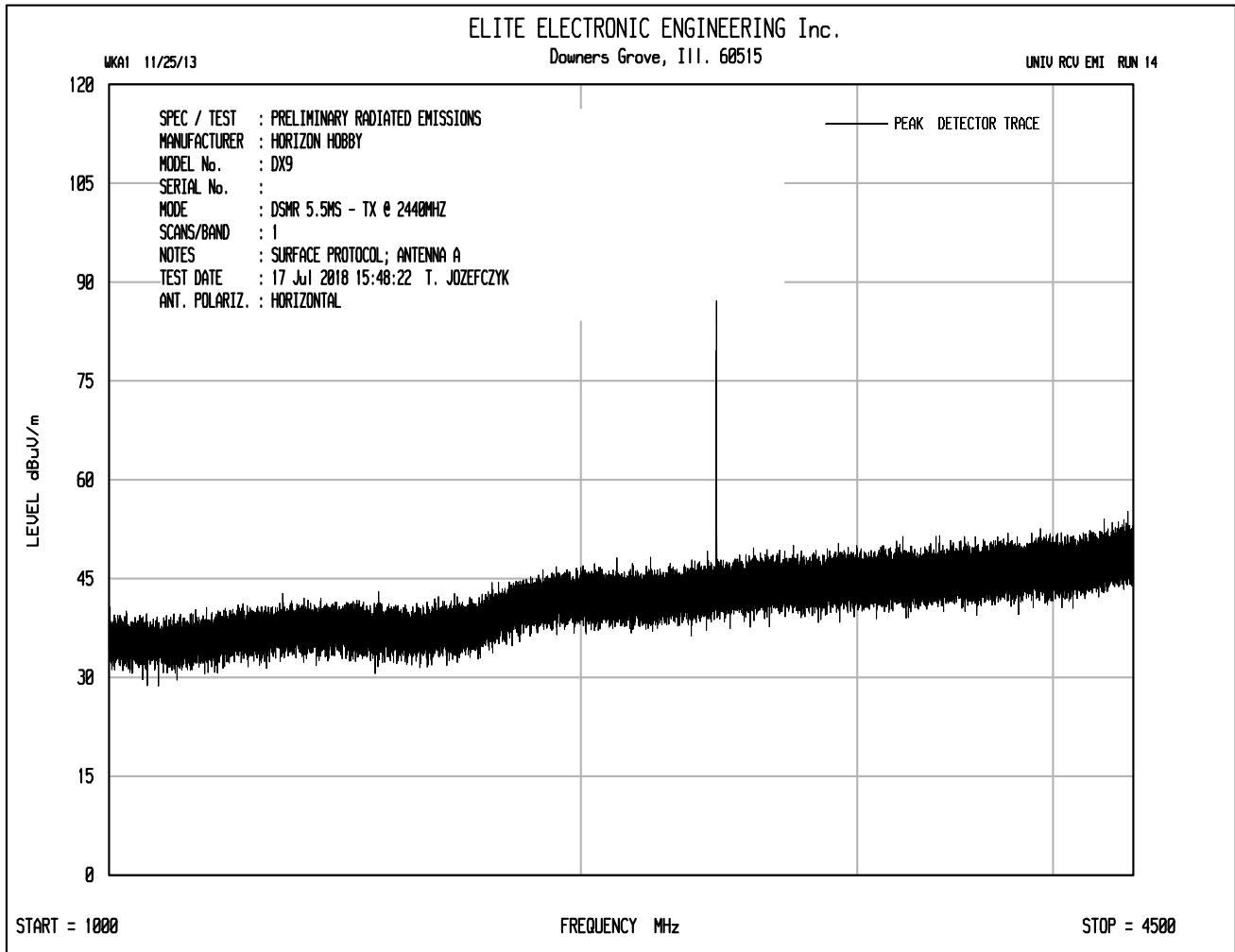


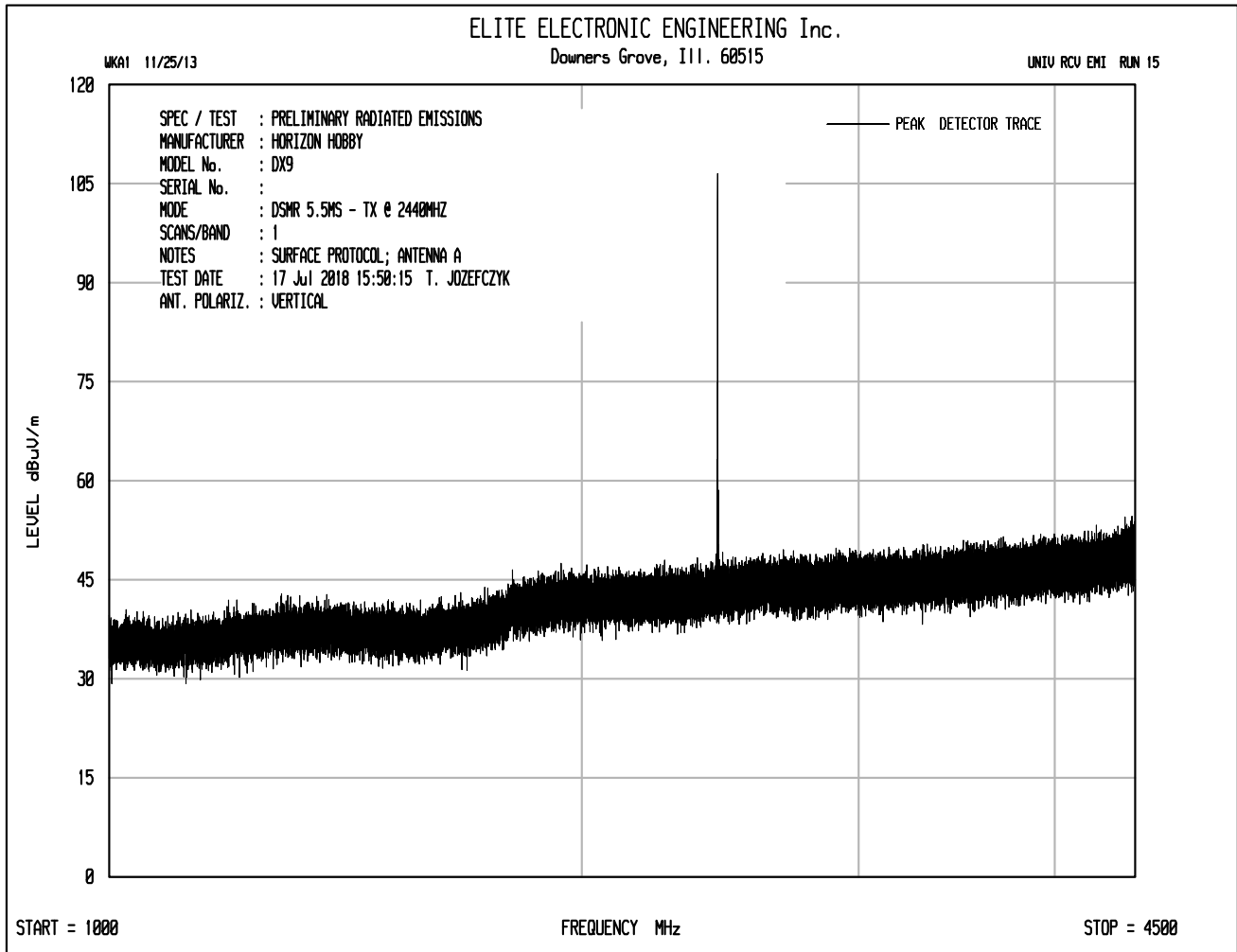


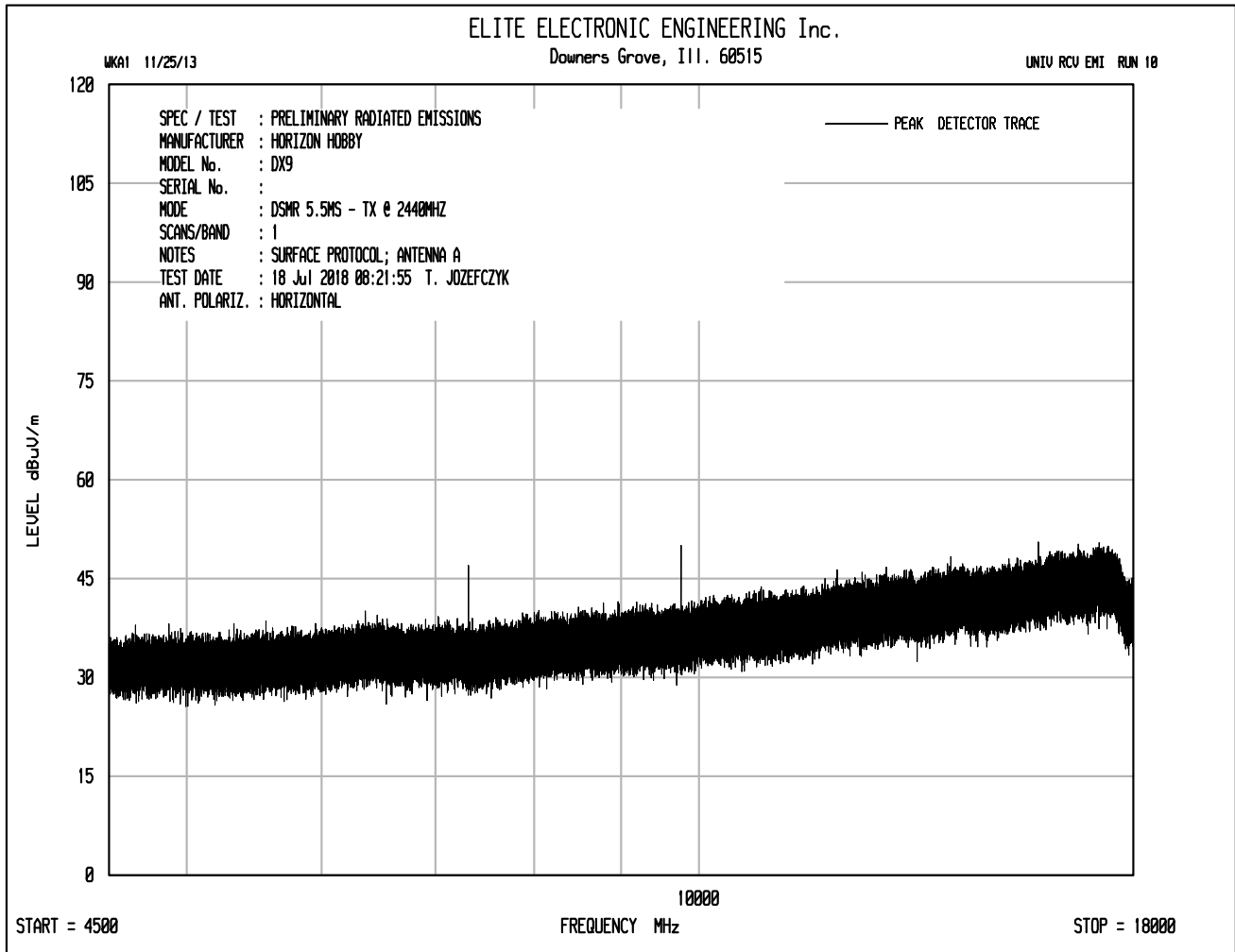


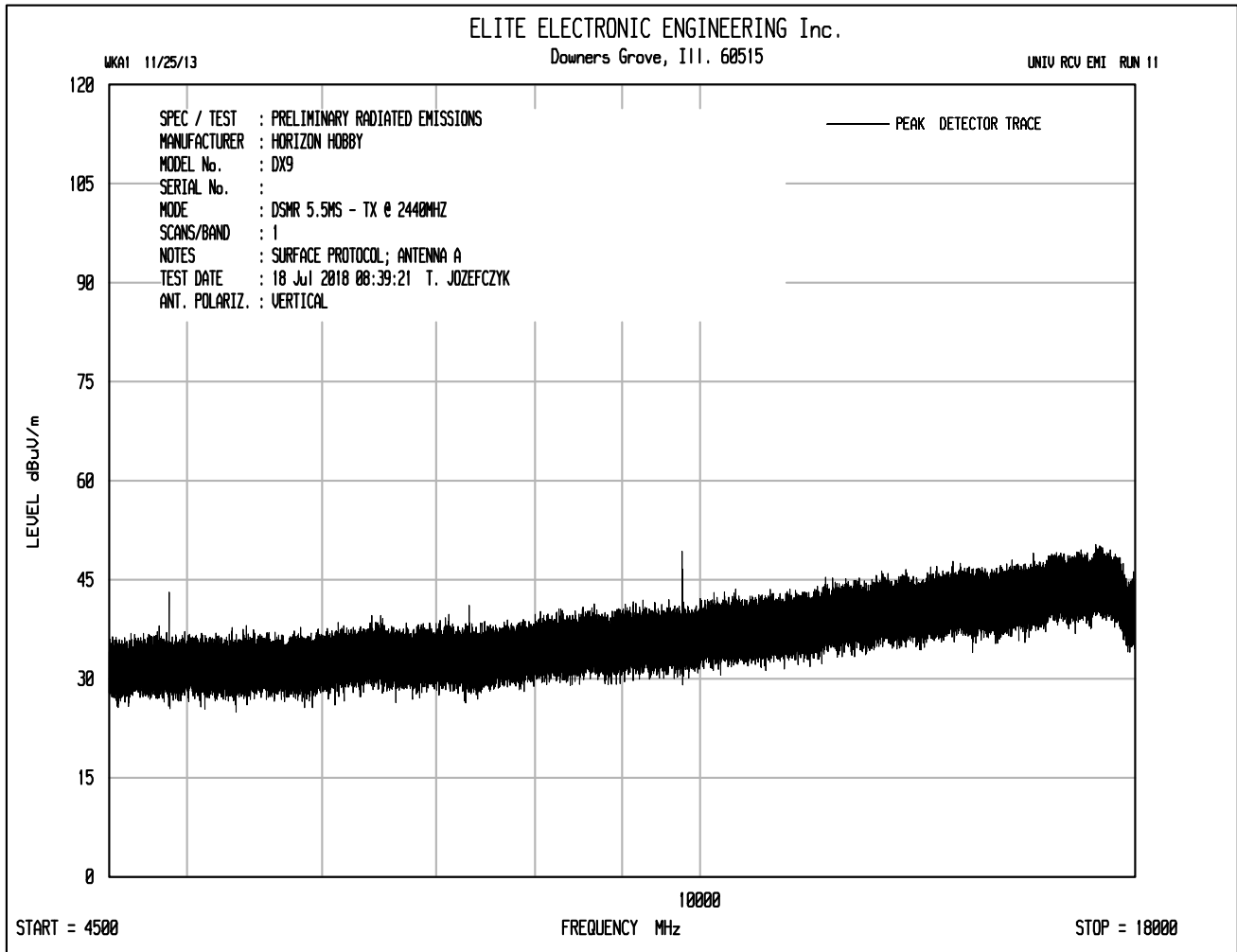


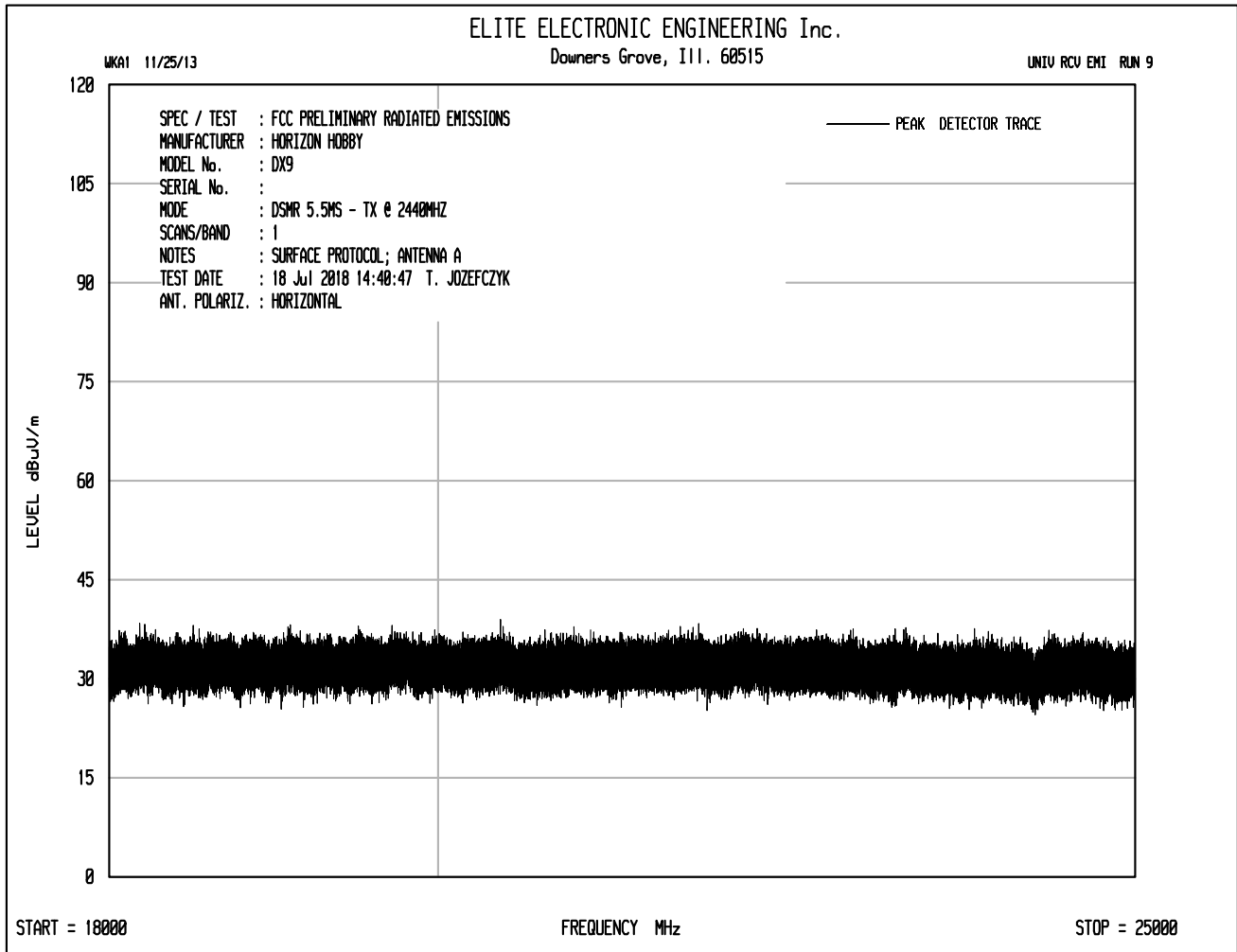


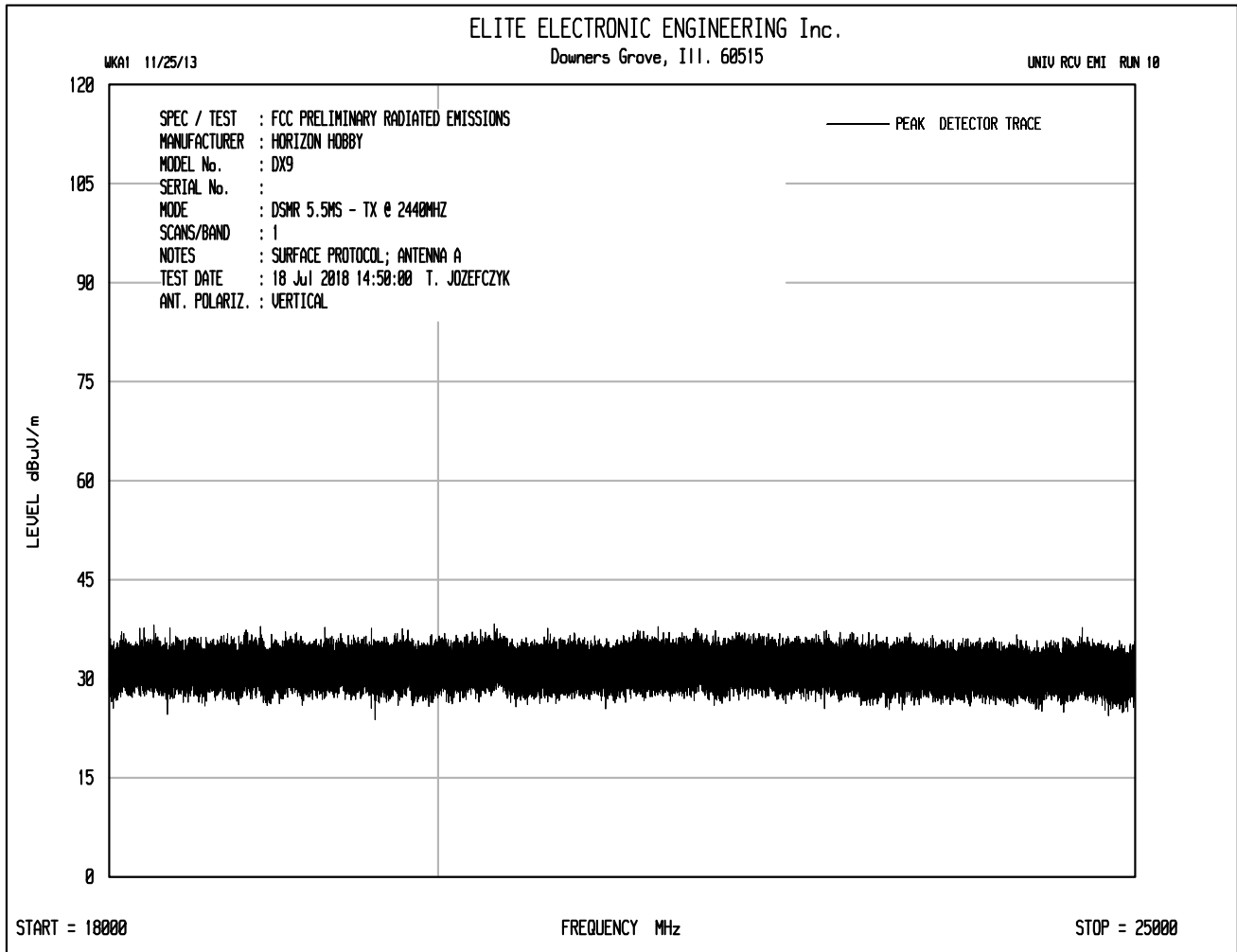


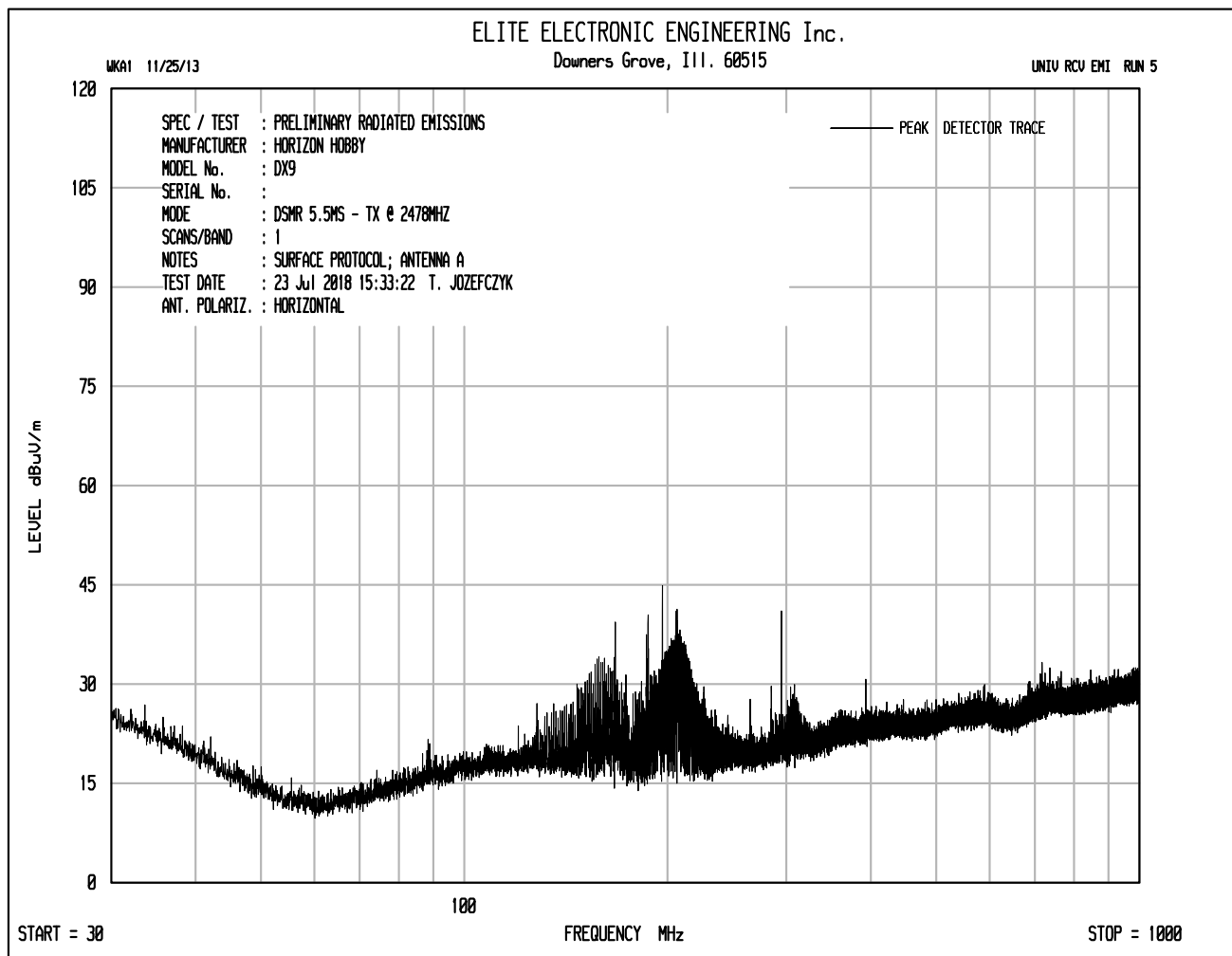


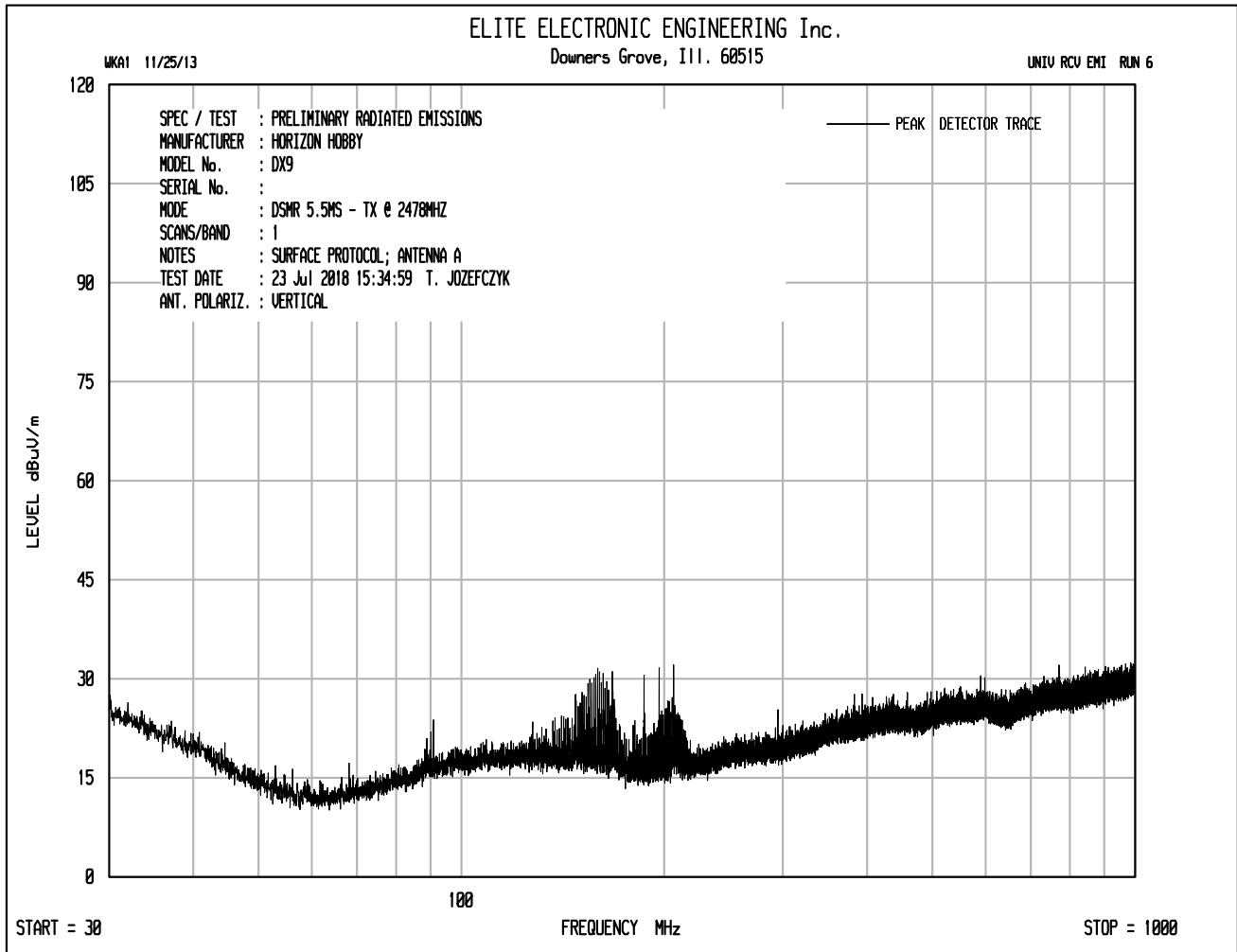


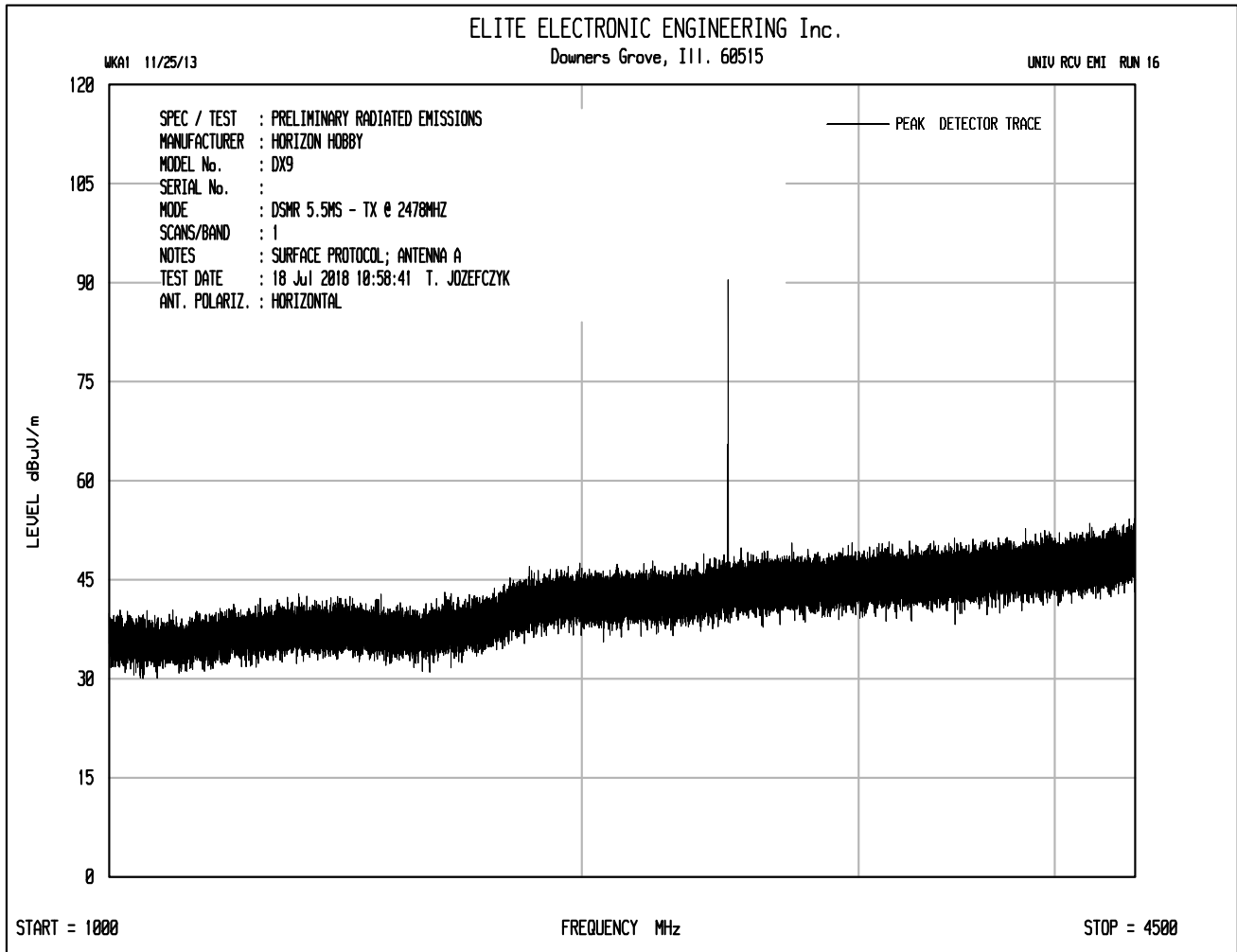


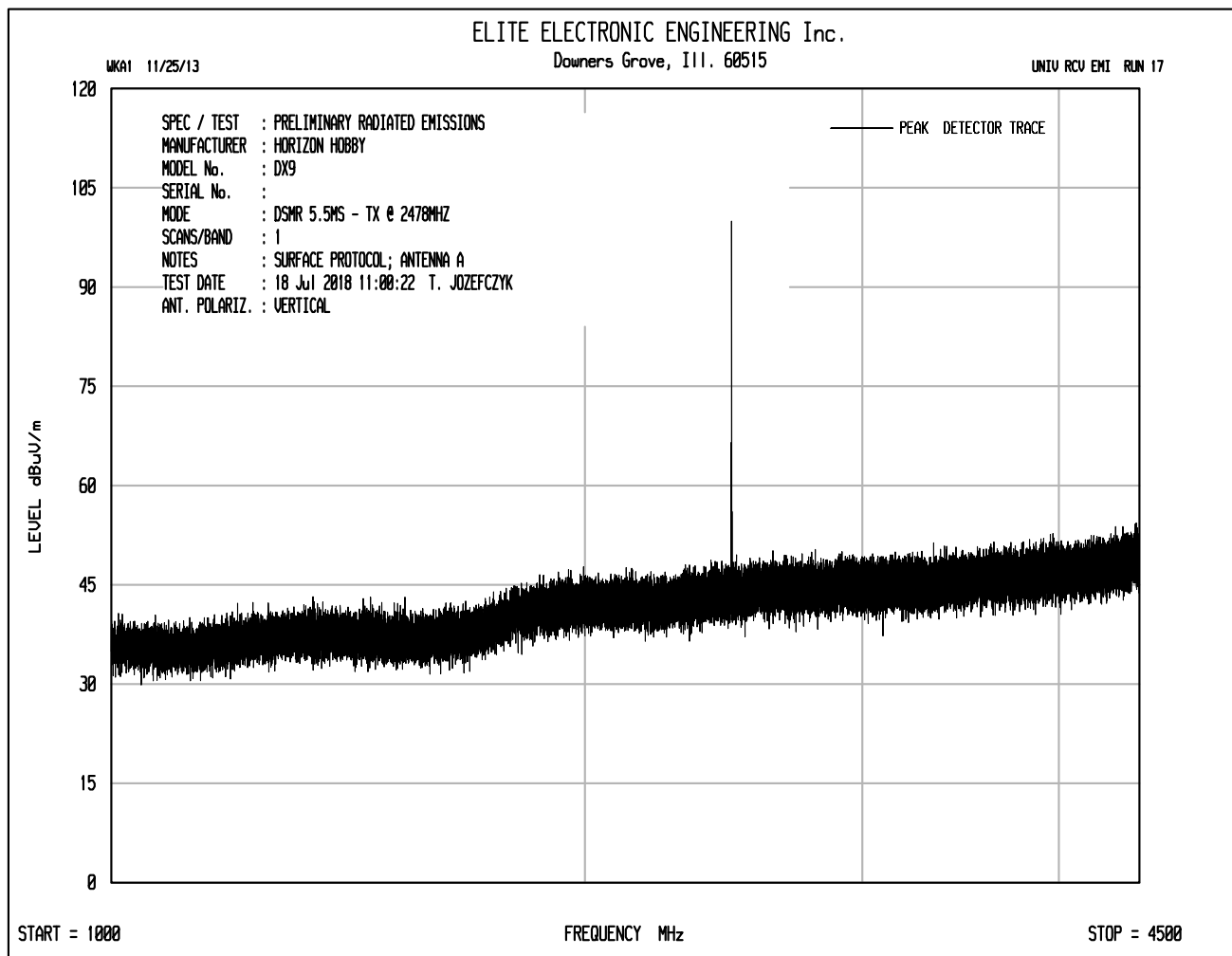


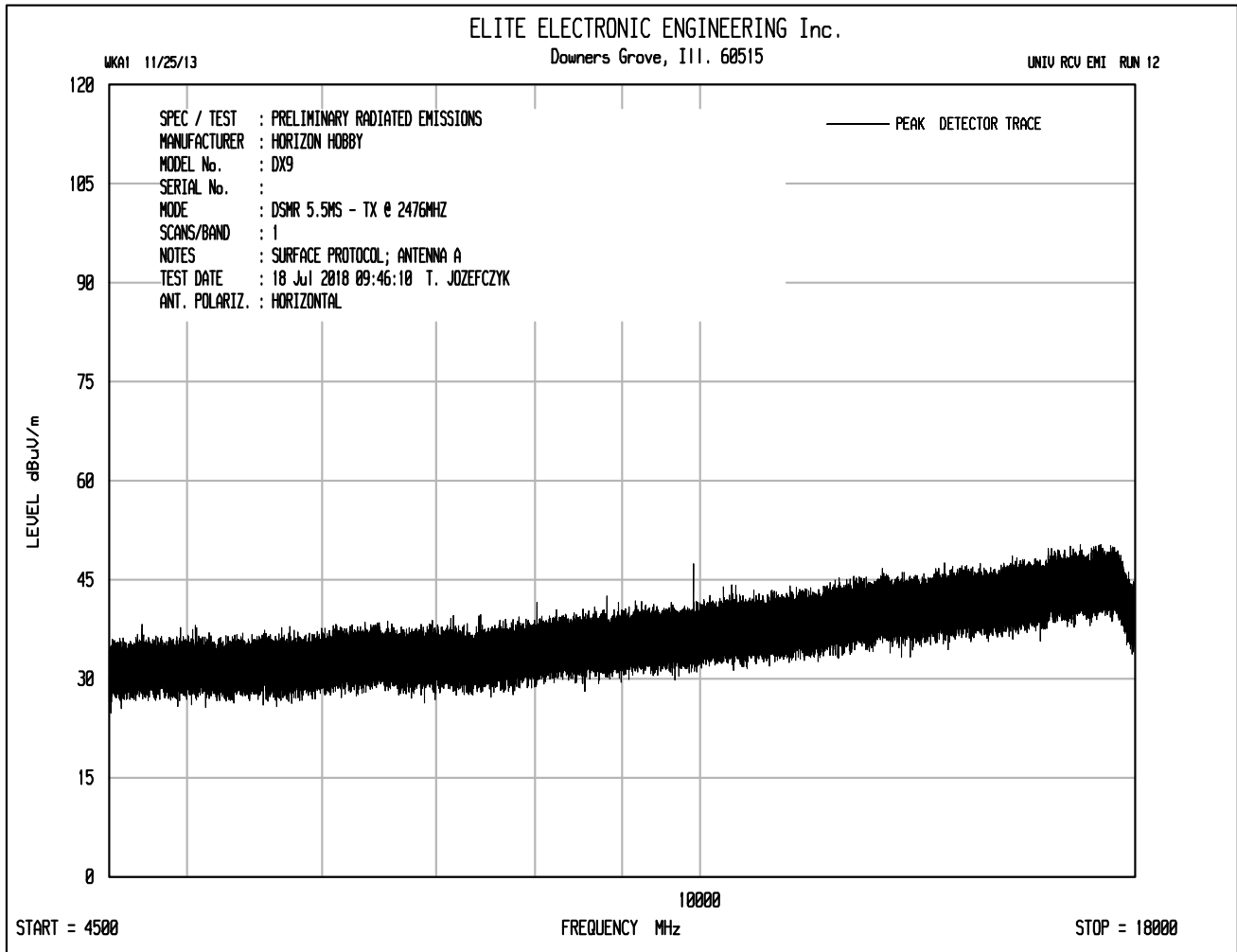


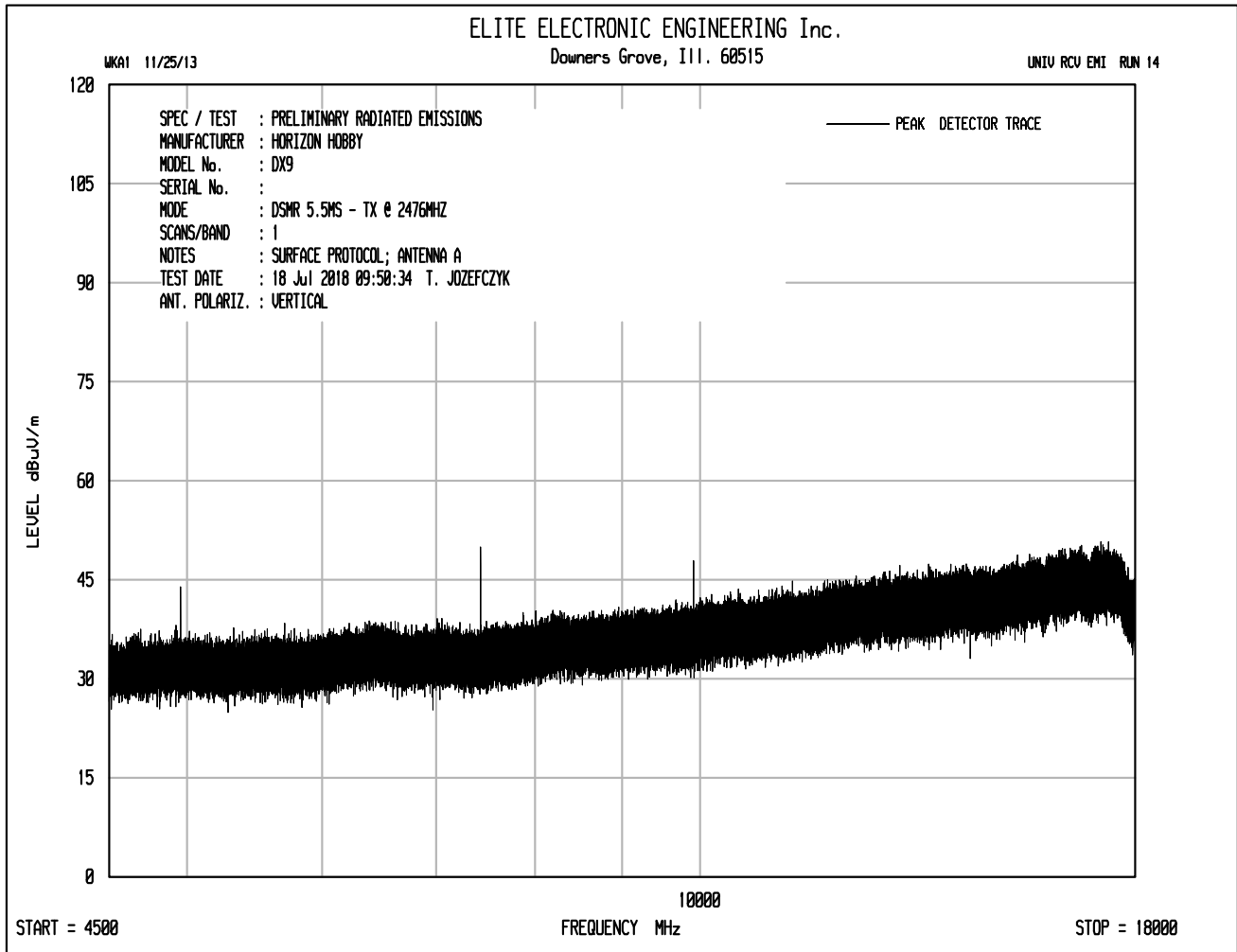


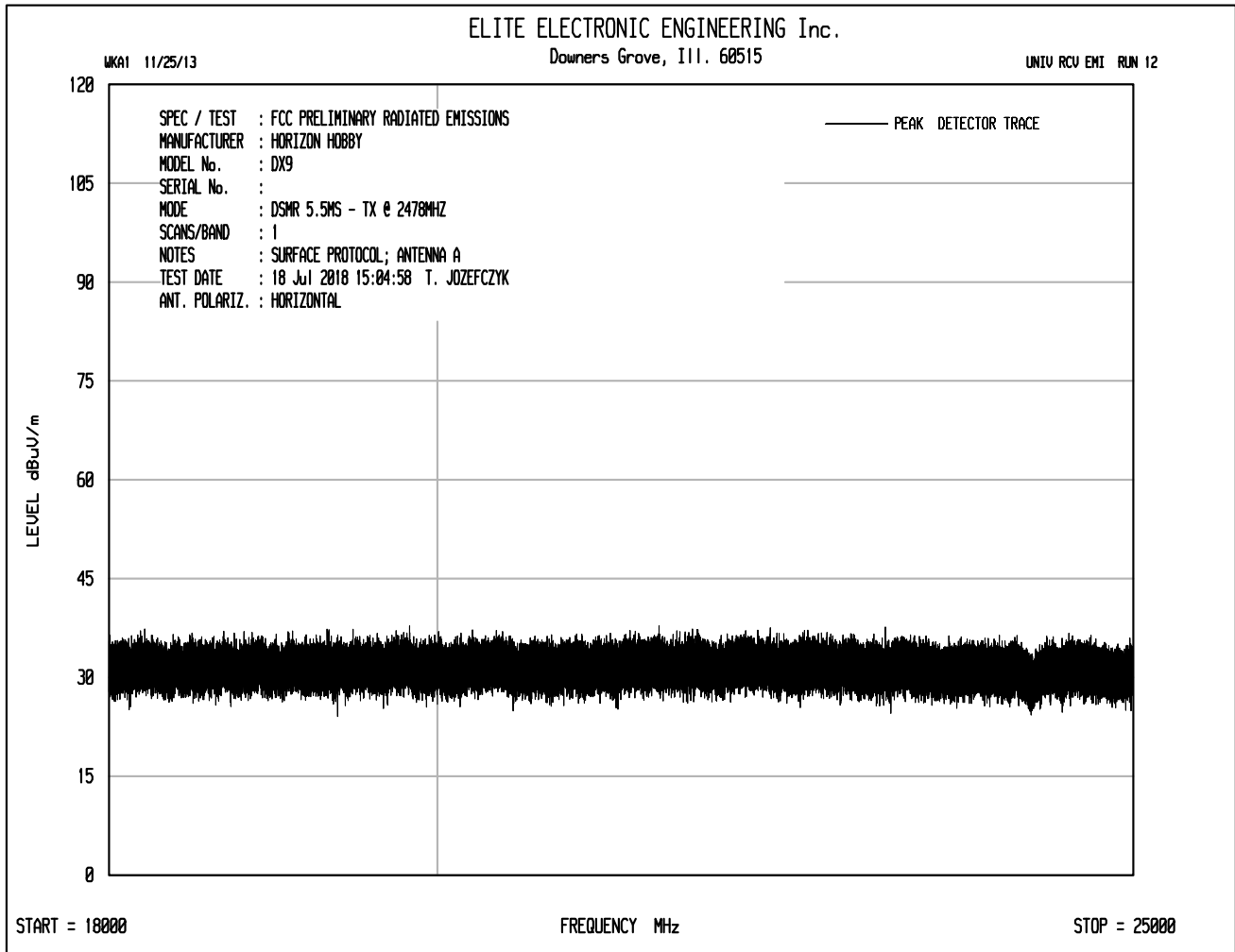


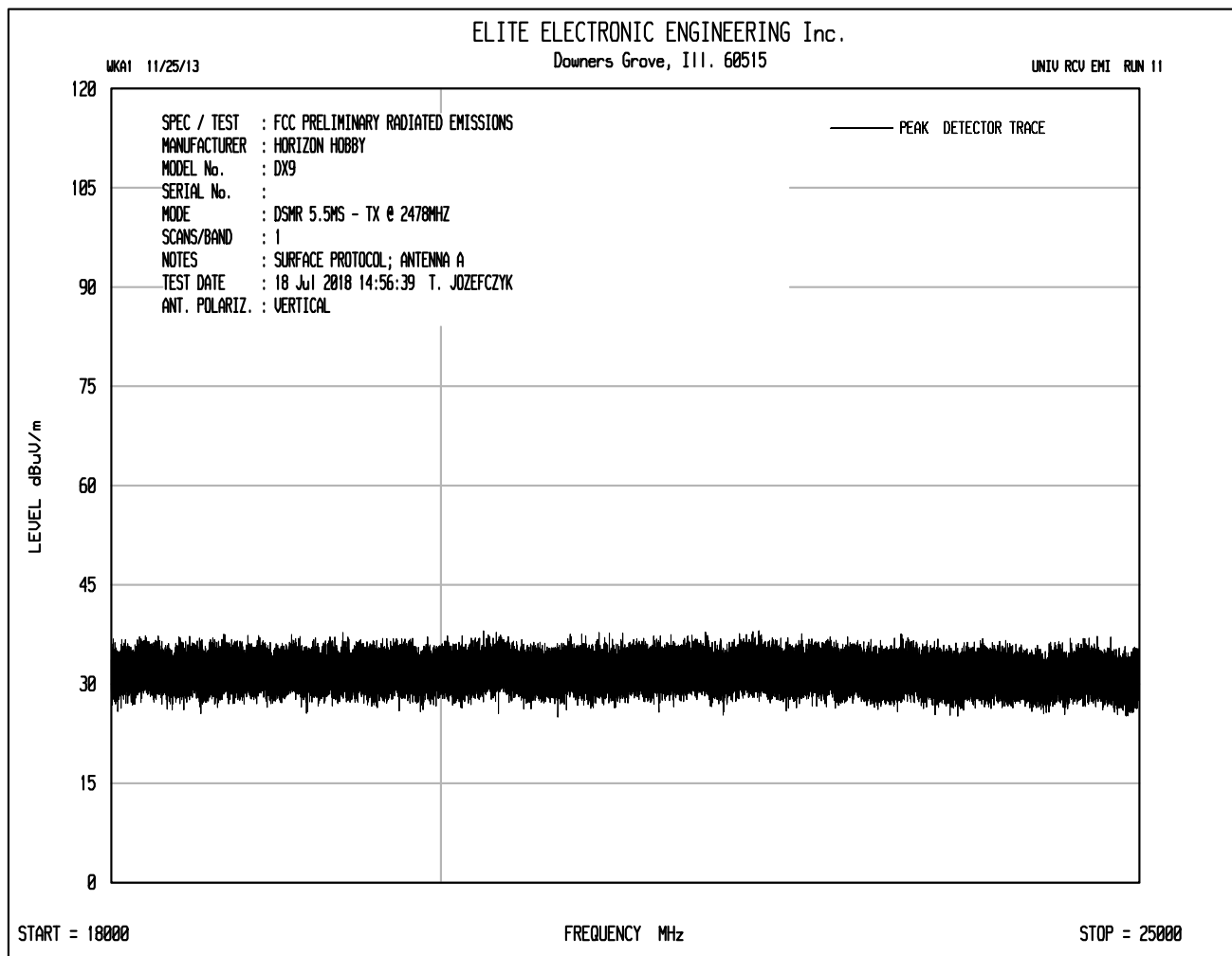












DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Non-Restricted Bands
MODE	DSM2 22ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
2402.00	H	75.9		4.3	32.2	0.0	112.3	413532.0		
2402.00	V	74.4		4.3	32.2	0.0	110.8	347543.5		
7206.00	H	56.4		6.9	35.6	-39.4	59.4	936.3	13077.0	-22.9
7206.00	V	59.9		6.9	35.6	-39.4	62.9	1399.2	13077.0	-19.4
9608.00	H	55.6		8.2	36.5	-39.3	61.0	1125.5	13077.0	-21.3
9608.00	V	59.8		8.2	36.5	-39.3	65.3	1833.8	13077.0	-17.1
14412.00	H	38.6	Ambient	9.6	39.4	-38.3	49.3	291.7	13077.0	-33.0
14412.00	V	38.8	Ambient	9.6	39.4	-38.3	49.4	296.1	13077.0	-32.9
16814.00	H	37.9	Ambient	10.9	42.1	-37.5	53.5	470.9	13077.0	-28.9
16814.00	V	38.0	Ambient	10.9	42.1	-37.5	53.6	477.4	13077.0	-28.8
21618.00	H	24.7	Ambient	2.2	40.6	-28.9	38.6	85.3	13077.0	-43.7
21618.00	V	23.8	Ambient	2.2	40.6	-28.9	37.8	77.2	13077.0	-44.6
24020.00	H	24.3	Ambient	2.2	40.6	-30.2	37.0	70.5	13077.0	-45.4
24020.00	V	24.5	Ambient	2.2	40.6	-30.2	37.1	71.7	13077.0	-45.2

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Restricted Bands
MODE	DSM2 22ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
4804.00	H	59.2		5.7	34.5	-39.3	60.1	1007.3	5000.0	-13.9
4804.00	V	60.2		5.7	34.5	-39.3	61.1	1132.9	5000.0	-12.9
12010.00	H	50.3	Ambient	8.6	38.5	-39.2	58.3	825.4	5000.0	-15.6
12010.00	V	50.2	Ambient	8.6	38.5	-39.2	58.2	816.0	5000.0	-15.7
19216.00	H	35.5	Ambient	2.2	40.4	-28.8	49.3	291.9	5000.0	-24.7
19216.00	V	38.1		2.2	40.4	-28.8	51.9	391.5	5000.0	-22.1

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Restricted Band Averages
MODE	DSM2 22ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBμV/m at 3m	Average Total μV/m at 3 m	Average Limit μV/m at 3 m	Margin (dB)
4804.00	H	38.7		5.7	34.5	-39.3	0.0	39.6	95.4	500.0	-14.4
4804.00	V	38.9		5.7	34.5	-39.3	0.0	39.8	97.7	500.0	-14.2
12010.00	H	35.3	Ambient	8.6	38.5	-39.2	0.0	43.2	145.3	500.0	-10.7
12010.00	V	35.3	Ambient	8.6	38.5	-39.2	0.0	43.3	145.9	500.0	-10.7
19216.00	H	20.9	Ambient	2.2	40.4	-28.8	0.0	34.7	54.4	500.0	-19.3
19216.00	V	21.6		2.2	40.4	-28.8	0.0	35.4	59.0	500.0	-18.6

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Non-Restricted Bands
MODE	DSM2 22ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
2440.00	H	75.6		4.3	32.4	0.0	112.3	411831.5		
2440.00	V	75.6		4.3	32.4	0.0	112.3	413256.4		
9760.00	H	62.4		8.2	36.7	-39.3	68.1	2534.9	13068.3	-14.2
9760.00	V	65.0		8.2	36.7	-39.3	70.7	3427.4	13068.3	-11.6
14640.00	H	38.7	Ambient	9.7	39.6	-38.2	49.7	306.6	13068.3	-32.6
14640.00	V	38.7	Ambient	9.7	39.6	-38.2	49.7	304.9	13068.3	-32.6
17080.00	H	39.1	Ambient	11.0	41.6	-37.6	54.1	504.9	13068.3	-28.3
17080.00	V	38.7	Ambient	11.0	41.6	-37.6	53.7	483.8	13068.3	-28.6
21960.00	H	25.6	Ambient	2.2	40.6	-29.4	39.0	88.8	13068.3	-43.4
21960.00	V	26.5	Ambient	2.2	40.6	-29.4	39.9	98.9	13068.3	-42.4
24400.00	H	26.3	Ambient	2.2	40.6	-30.4	38.7	86.6	13068.3	-43.6
24400.00	V	26.7	Ambient	2.2	40.6	-30.4	39.1	90.7	13068.3	-43.2

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Restricted Bands
MODE	DSM2 22ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
4880.00	H	55.4		5.7	34.4	-39.3	56.2	647.7	5000.0	-17.8
4880.00	V	57.0		5.7	34.4	-39.3	57.9	781.4	5000.0	-16.1
7320.00	H	63.2		6.9	35.6	-39.4	66.3	2073.2	5000.0	-7.6
7320.00	V	61.4		6.9	35.6	-39.4	64.5	1677.4	5000.0	-9.5
12200.00	H	49.4	Ambient	8.9	38.7	-39.1	58.0	791.0	5000.0	-16.0
12200.00	V	51.3		8.9	38.7	-39.1	59.8	977.6	5000.0	-14.2
19520.00	H	35.5	Ambient	2.2	40.4	-28.7	49.3	292.5	5000.0	-24.7
19520.00	V	36.4	Ambient	2.2	40.4	-28.7	50.3	327.4	5000.0	-23.7

**DATA PAGE**

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Restricted Band Averages
MODE	DSM2 22ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBμV/m at 3m	Average Total μV/m at 3 m	Average Limit μV/m at 3 m	Margin (dB)
4880.00	H	27.7		5.7	34.4	-39.3	0.0	28.6	26.8	500.0	-25.4
4880.00	V	38.2		5.7	34.4	-39.3	0.0	39.1	89.7	500.0	-14.9
7320.00	H	38.14		6.9	35.6	-39.4	0.0	41.2	115.4	500.0	-12.7
7320.00	V	38.2		6.9	35.6	-39.4	0.0	41.3	116.6	500.0	-12.6
12200.00	H	35.1	Ambient	8.9	38.7	-39.1	0.0	43.6	151.1	500.0	-10.4
12200.00	V	35.1		8.9	38.7	-39.1	0.0	43.6	151.1	500.0	-10.4
19520.00	H	20.7	Ambient	2.2	40.4	-28.7	0.0	34.6	53.7	500.0	-19.4
19520.00	V	20.7	Ambient	2.2	40.4	-28.7	0.0	34.5	53.2	500.0	-19.5

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Non-Restricted Bands
MODE	DSM2 22ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
2478.00	H	73.3		4.3	32.5	0.0	110.1	320288.2		
2478.00	V	76.4		4.3	32.5	0.0	113.2	459241.3		
9912.00	H	59.5		8.3	36.7	-39.2	65.3	1838.4	14522.5	-18.0
9912.00	V	67.2		8.3	36.7	-39.2	72.9	4435.6	14522.5	-10.3
14868.00	H	39.1		9.8	39.7	-38.2	50.4	332.7	14522.5	-32.8
14868.00	V	38.6		9.8	39.7	-38.2	49.9	313.0	14522.5	-33.3
17346.00	H	38.0		11.0	41.1	-37.7	52.3	411.4	14522.5	-31.0
17346.00	V	38.2		11.0	41.1	-37.7	52.5	420.9	14522.5	-30.8
24780.00	H	26.2	Ambient	2.2	40.6	-31.1	38.0	79.1	14522.5	-45.3
24780.00	V	27.6	Ambient	2.2	40.6	-31.1	39.4	93.3	14522.5	-43.8

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Restricted Bands
MODE	DSM2 22ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
4956.00	H	59.1		5.8	34.3	-39.3	59.8	982.3	5000.0	-14.1
4956.00	V	58.3		5.8	34.3	-39.3	59.1	902.1	5000.0	-14.9
7434.00	H	62.4		6.9	35.7	-39.4	65.5	1882.4	5000.0	-8.5
7434.00	V	64.2		6.9	35.7	-39.4	67.4	2334.6	5000.0	-6.6
12390.00	H	50.7		9.4	38.8	-39.0	59.8	981.1	5000.0	-14.1
12390.00	V	49.6		9.4	38.8	-39.0	58.7	860.4	5000.0	-15.3
19824.00	H	35.6	Ambient	2.2	40.4	-28.4	49.9	313.0	5000.0	-24.1
19824.00	V	36.2	Ambient	2.2	40.4	-28.4	50.5	333.5	5000.0	-23.5
22302.00	H	35.9	Ambient	2.2	40.6	-29.2	49.5	298.4	5000.0	-24.5
22302.00	V	35.7	Ambient	2.2	40.6	-29.2	49.3	291.2	5000.0	-24.7
2483.50	H	23.2		4.3	32.5	0.0	60.1	1007.8	5000.0	-13.9
2483.50	V	23.8		4.3	32.5	0.0	60.6	1077.4	5000.0	-13.3

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Restricted Band Averages
MODE	DSM2 22ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBμV/m at 3m	Average Total μV/m at 3 m	Average Limit μV/m at 3 m	Margin (dB)
4956.00	H	38.7		5.8	34.3	-39.3	0.0	39.5	94.4	500.0	-14.5
4956.00	V	38.7		5.8	34.3	-39.3	0.0	39.4	93.8	500.0	-14.5
7434.00	H	38.44		6.9	35.7	-39.4	0.0	41.6	119.9	500.0	-12.4
7434.00	V	38.4		6.9	35.7	-39.4	0.0	41.5	118.9	500.0	-12.5
12390.00	H	34.5		9.4	38.8	-39.0	0.0	43.6	151.8	500.0	-10.4
12390.00	V	34.6		9.4	38.8	-39.0	0.0	43.7	153.7	500.0	-10.2
19824.00	H	20.7	Ambient	2.2	40.4	-28.4	0.0	35.0	56.0	500.0	-19.0
19824.00	V	21.1	Ambient	2.2	40.4	-28.4	0.0	35.4	58.8	500.0	-18.6
22302.00	H	21.0	Ambient	2.2	40.6	-29.2	0.0	34.6	53.6	500.0	-19.4
22302.00	V	21.2	Ambient	2.2	40.6	-29.2	0.0	34.8	55.0	500.0	-19.2
2483.50	H	8.3		4.3	32.5	0.0	0.0	45.1	179.6	500.0	-8.9
2483.50	V	10.1		4.3	32.5	0.0	0.0	47.0	222.8	500.0	-7.0

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Non-Restricted Bands
MODE	DSMR 5.5ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
2405.00	H	75.3		4.3	32.2	0.0	111.7	386455.4		
2405.00	V	74.9		4.3	32.2	0.0	111.4	370339.0		
7215.00	H	59.1		6.9	35.6	-39.4	62.1	1270.3	12220.8	-19.7
7215.00	V	60.0		6.9	35.6	-39.4	63.0	1410.6	12220.8	-18.8
9620.00	H	40.3	Ambient	8.2	36.6	-39.3	45.8	194.4	12220.8	-36.0
9620.00	V	39.6	Ambient	8.2	36.6	-39.3	45.1	180.3	12220.8	-36.6
14430.00	H	38.4	Ambient	9.6	39.4	-38.3	49.0	283.3	12220.8	-32.7
14430.00	V	37.8	Ambient	9.6	39.4	-38.3	48.5	266.2	12220.8	-33.2
16835.00	H	38.3	Ambient	10.9	42.1	-37.5	53.9	492.8	12220.8	-27.9
16835.00	V	38.2	Ambient	10.9	42.1	-37.5	53.7	483.2	12220.8	-28.1
21645.00	H	25.6	Ambient	2.2	40.6	-28.9	39.5	94.2	12220.8	-42.3
21645.00	V	28.1		2.2	40.6	-28.9	42.0	126.4	12220.8	-39.7
24050.00	H	25.3	Ambient	2.2	40.6	-30.3	37.8	78.0	12220.8	-43.9
24050.00	V	26.2	Ambient	2.2	40.6	-30.3	38.8	86.8	12220.8	-43.0

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Restricted Bands
MODE	DSMR 5.5ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
4810.00	H	55.8		5.7	34.5	-39.3	56.7	687.1	5000.0	-17.2
4810.00	V	57.9		5.7	34.5	-39.3	58.8	873.0	5000.0	-15.2
12025.00	H	49.1	Ambient	8.6	38.5	-39.2	57.1	717.7	5000.0	-16.9
12025.00	V	50.3	Ambient	8.6	38.5	-39.2	58.3	826.9	5000.0	-15.6
19240.00	H	36.4	Ambient	2.2	40.4	-28.7	50.3	327.7	5000.0	-23.7
19240.00	V	35.5	Ambient	2.2	40.4	-28.7	49.3	292.8	5000.0	-24.6



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Restricted Band Averages
MODE	DSMR 5.5ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBμV/m at 3m	Average Total μV/m at 3 m	Average Limit μV/m at 3 m	Margin (dB)
4810.00	H	36.0		5.7	34.5	-39.3	0.0	36.9	69.9	500.0	-17.1
4810.00	V	36.1		5.7	34.5	-39.3	0.0	37.0	71.0	500.0	-16.9
12025.00	H	35.4	Ambient	8.6	38.5	-39.2	0.0	43.4	148.6	500.0	-10.5
12025.00	V	35.5	Ambient	8.6	38.5	-39.2	0.0	43.5	149.6	500.0	-10.5
19240.00	H	20.7	Ambient	2.2	40.4	-28.7	0.0	34.6	53.6	500.0	-19.4
19240.00	V	20.6	Ambient	2.2	40.4	-28.7	0.0	34.5	53.0	500.0	-19.5

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Non-Restricted Bands
MODE	DSMR 5.5ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
2440.00	H	74.3		4.3	32.4	0.0	111.0	353768.8		
2440.00	V	74.6		4.3	32.4	0.0	111.3	368739.4		
9760.00	H	62.4		8.2	36.7	-39.3	68.1	2532.0	11660.6	-13.3
9760.00	V	63.1		8.2	36.7	-39.3	68.8	2766.7	11660.6	-12.5
14640.00	H	38.3	Ambient	9.7	39.6	-38.2	49.4	294.2	11660.6	-32.0
14640.00	V	38.4	Ambient	9.7	39.6	-38.2	49.4	296.2	11660.6	-31.9
17080.00	H	38.1	Ambient	11.0	41.6	-37.6	53.1	449.5	11660.6	-28.3
17080.00	V	37.7	Ambient	11.0	41.6	-37.6	52.7	430.2	11660.6	-28.7
21960.00	H	25.4	Ambient	2.2	40.6	-29.4	38.8	87.4	11660.6	-42.5
21960.00	V	26.3	Ambient	2.2	40.6	-29.4	39.7	96.6	11660.6	-41.6
24400.00	H	26.6	Ambient	2.2	40.6	-30.4	39.0	88.9	11660.6	-42.4
24400.00	V	26.2	Ambient	2.2	40.6	-30.4	38.6	85.2	11660.6	-42.7

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Restricted Bands
MODE	DSMR 5.5ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
4880.00	H	58.0		5.7	34.4	-39.3	58.8	874.7	5000.0	-15.1
4880.00	V	60.2		5.7	34.4	-39.3	61.0	1124.3	5000.0	-13.0
7320.00	H	62.1		6.9	35.6	-39.4	65.2	1824.5	5000.0	-8.8
7320.00	V	61.2		6.9	35.6	-39.4	64.3	1646.8	5000.0	-9.6
12200.00	H	50.6	Ambient	8.9	38.7	-39.1	59.1	905.0	5000.0	-14.8
12200.00	V	50.7	Ambient	8.9	38.7	-39.1	59.2	910.2	5000.0	-14.8
19520.00	H	35.8	Ambient	2.2	40.4	-28.7	49.6	303.5	5000.0	-24.3
19520.00	V	35.4	Ambient	2.2	40.4	-28.7	49.3	291.8	5000.0	-24.7

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Restricted Band Averages
MODE	DSMR 5.5ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBμV/m at 3m	Average Total μV/m at 3 m	Average Limit μV/m at 3 m	Margin (dB)
4880.00	H	37.0		5.7	34.4	-39.3	0.0	37.9	78.1	500.0	-16.1
4880.00	V	37.2		5.7	34.4	-39.3	0.0	38.1	80.2	500.0	-15.9
7320.00	H	36.50		6.9	35.6	-39.4	0.0	39.6	95.5	500.0	-14.4
7320.00	V	36.2		6.9	35.6	-39.4	0.0	39.3	92.5	500.0	-14.7
12200.00	H	35.1	Ambient	8.9	38.7	-39.1	0.0	43.6	151.6	500.0	-10.4
12200.00	V	35.1	Ambient	8.9	38.7	-39.1	0.0	43.7	152.5	500.0	-10.3
19520.00	H	21.0	Ambient	2.2	40.4	-28.7	0.0	34.9	55.3	500.0	-19.1
19520.00	V	20.9	Ambient	2.2	40.4	-28.7	0.0	34.7	54.5	500.0	-19.2

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Non-Restricted Bands
MODE	DSMR 5.5ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
2478.00	H	77.8		4.3	32.5	0.0	114.6	535230.6		
2478.00	V	80.3		4.3	32.5	0.0	117.1	715386.8		
9912.00	H	60.9		8.3	36.7	-39.2	66.6	2145.1	22622.5	-20.5
9912.00	V	65.8		8.3	36.7	-39.2	71.5	3766.6	22622.5	-15.6
14868.00	H	38.9	Ambient	9.8	39.7	-38.2	50.2	323.6	22622.5	-36.9
14868.00	V	40.1	Ambient	9.8	39.7	-38.2	51.4	371.1	22622.5	-35.7
17346.00	H	39.4	Ambient	11.0	41.1	-37.7	53.7	482.8	22622.5	-33.4
17346.00	V	39.0	Ambient	11.0	41.1	-37.7	53.3	463.2	22622.5	-33.8
24780.00	H	25.9	Ambient	2.2	40.6	-31.1	37.6	76.2	22622.5	-49.5
24780.00	V	26.7	Ambient	2.2	40.6	-31.1	38.4	83.5	22622.5	-48.7

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Harmonics in Restricted Bands
MODE	DSMR 5.5ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
4956.00	H	57.4		5.8	34.3	-39.3	58.2	811.4	5000.0	-15.8
4956.00	V	57.5		5.8	34.3	-39.3	58.3	818.0	5000.0	-15.7
7434.00	H	58.3		6.9	35.7	-39.4	61.4	1174.1	5000.0	-12.6
7434.00	V	65.3		6.9	35.7	-39.4	68.4	2643.7	5000.0	-5.5
12390.00	H	50.5		9.4	38.8	-39.0	59.7	960.9	5000.0	-14.3
12390.00	V	52.7		9.4	38.8	-39.0	61.8	1236.5	5000.0	-12.1
19824.00	H	36.0	Ambient	2.2	40.4	-28.4	50.3	327.0	5000.0	-23.7
19824.00	V	35.8	Ambient	2.2	40.4	-28.4	50.1	318.5	5000.0	-23.9
22302.00	H	35.8	Ambient	2.2	40.6	-29.2	49.4	295.0	5000.0	-24.6
22302.00	V	36.7	Ambient	2.2	40.6	-29.2	50.2	324.9	5000.0	-23.7
2483.50	H	25.8		4.3	32.5	0.0	62.7	1357.9	5000.0	-11.3
2483.50	V	28.3		4.3	32.5	0.0	65.1	1794.2	5000.0	-8.9

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	FCC-15.247, RSS-247 Radiated Spurious Emissions – Restricted Band Averages
MODE	DSMR 5.5ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBμV/m at 3m	Average Total μV/m at 3 m	Average Limit μV/m at 3 m	Margin (dB)
4956.00	H	36.7		5.8	34.3	-39.3	0.0	37.5	75.0	500.0	-16.5
4956.00	V	36.8		5.8	34.3	-39.3	0.0	37.6	75.8	500.0	-16.4
7434.00	H	36.20		6.9	35.7	-39.4	0.0	39.3	92.6	500.0	-14.6
7434.00	V	37.0		6.9	35.7	-39.4	0.0	40.2	102.0	500.0	-13.8
12390.00	H	34.9		9.4	38.8	-39.0	0.0	44.1	159.7	500.0	-9.9
12390.00	V	35.0		9.4	38.8	-39.0	0.0	44.2	161.5	500.0	-9.8
19824.00	H	20.8	Ambient	2.2	40.4	-28.4	0.0	35.1	56.6	500.0	-18.9
19824.00	V	20.9	Ambient	2.2	40.4	-28.4	0.0	35.2	57.2	500.0	-18.8
22302.00	H	20.8	Ambient	2.2	40.6	-29.2	0.0	34.4	52.5	500.0	-19.6
22302.00	V	21.1	Ambient	2.2	40.6	-29.2	0.0	34.6	53.9	500.0	-19.4
2483.50	H	9.2		4.3	32.5	0.0	0.0	46.1	200.9	500.0	-7.9
2483.50	V	10.7		4.3	32.5	0.0	0.0	47.5	236.8	500.0	-6.5

DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSM2 22ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

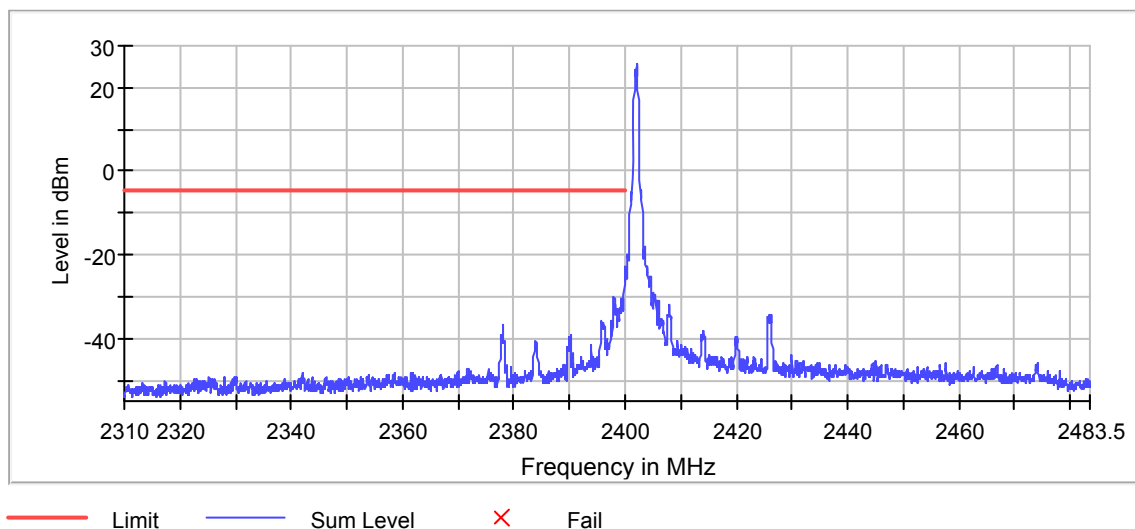
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2402.225000	25.6

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.975000	-23.4	18.9	-4.4	PASS
2399.925000	-23.6	19.2	-4.4	PASS
2399.875000	-26.7	22.2	-4.4	PASS
2399.825000	-27.1	22.6	-4.4	PASS
2399.775000	-29.4	24.9	-4.4	PASS
2399.725000	-29.4	25.0	-4.4	PASS
2399.675000	-29.6	25.1	-4.4	PASS
2397.975000	-30.2	25.8	-4.4	PASS
2399.475000	-30.3	25.9	-4.4	PASS
2398.025000	-30.5	26.0	-4.4	PASS
2399.425000	-30.6	26.2	-4.4	PASS
2399.175000	-30.7	26.3	-4.4	PASS
2399.225000	-30.9	26.5	-4.4	PASS
2397.925000	-31.3	26.9	-4.4	PASS
2398.225000	-31.7	27.3	-4.4	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSM2 11ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

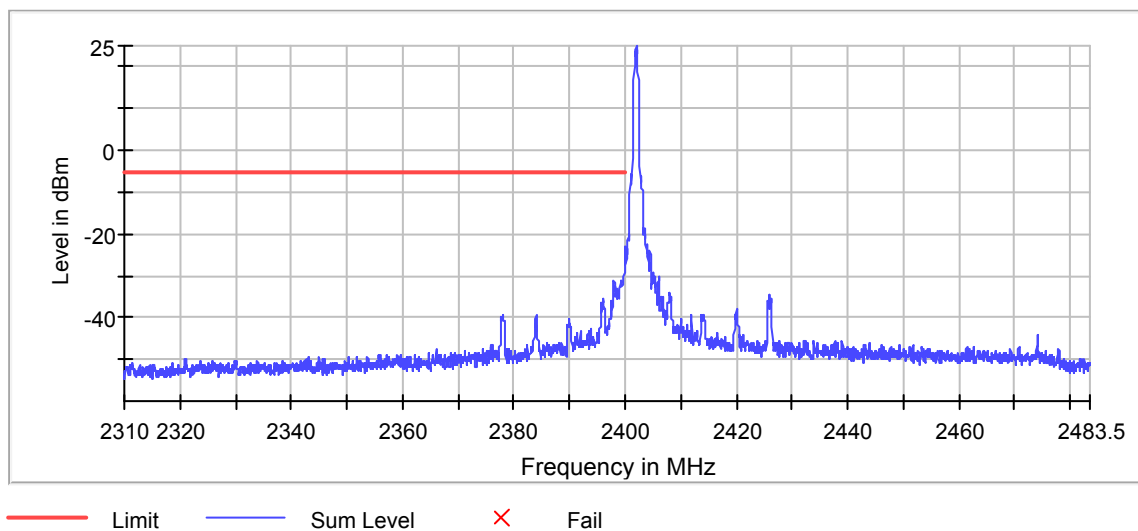
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2401.975000	24.9

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.975000	-23.0	18.0	-5.1	PASS
2399.925000	-24.0	19.0	-5.1	PASS
2399.875000	-25.9	20.8	-5.1	PASS
2399.825000	-29.1	24.0	-5.1	PASS
2399.575000	-30.0	24.9	-5.1	PASS
2399.625000	-30.0	24.9	-5.1	PASS
2399.725000	-30.1	25.0	-5.1	PASS
2399.775000	-30.1	25.0	-5.1	PASS
2399.675000	-30.4	25.4	-5.1	PASS
2399.225000	-31.3	26.2	-5.1	PASS
2397.975000	-31.4	26.3	-5.1	PASS
2399.275000	-31.6	26.5	-5.1	PASS
2397.925000	-31.6	26.5	-5.1	PASS
2399.175000	-31.7	26.6	-5.1	PASS
2399.125000	-31.7	26.6	-5.1	PASS



DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSMX 22ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

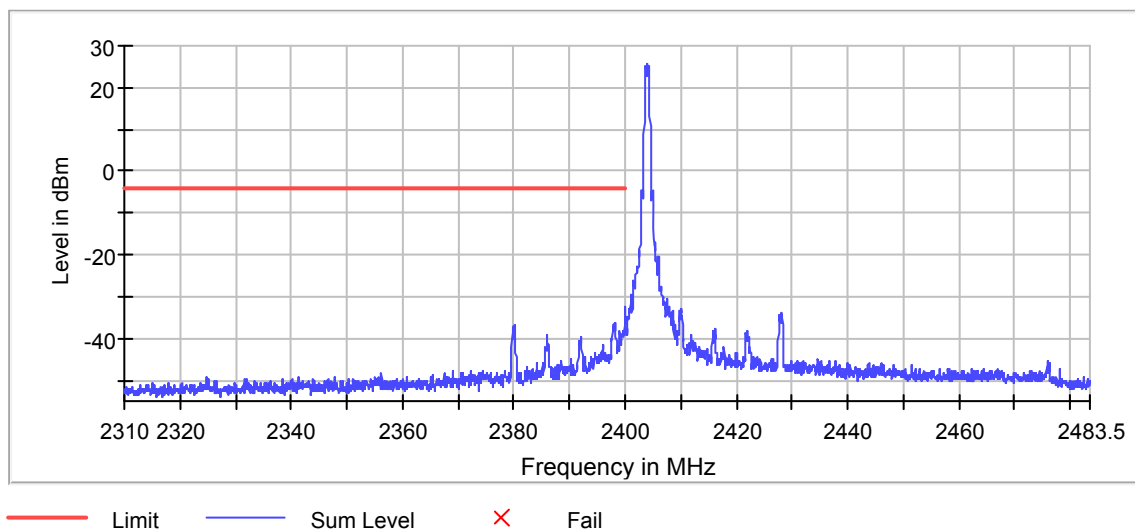
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2403.975000	25.9

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.975000	-33.0	28.9	-4.1	PASS
2399.925000	-33.2	29.0	-4.1	PASS
2399.875000	-33.7	29.5	-4.1	PASS
2398.025000	-36.1	31.9	-4.1	PASS
2398.225000	-36.2	32.1	-4.1	PASS
2398.175000	-36.4	32.3	-4.1	PASS
2380.025000	-36.5	32.4	-4.1	PASS
2399.825000	-36.5	32.4	-4.1	PASS
2397.975000	-36.6	32.4	-4.1	PASS
2397.925000	-37.0	32.9	-4.1	PASS
2379.975000	-37.0	32.9	-4.1	PASS
2397.725000	-37.4	33.3	-4.1	PASS
2398.075000	-37.4	33.3	-4.1	PASS
2380.075000	-37.7	33.6	-4.1	PASS
2397.775000	-37.7	33.6	-4.1	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSMX 11ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

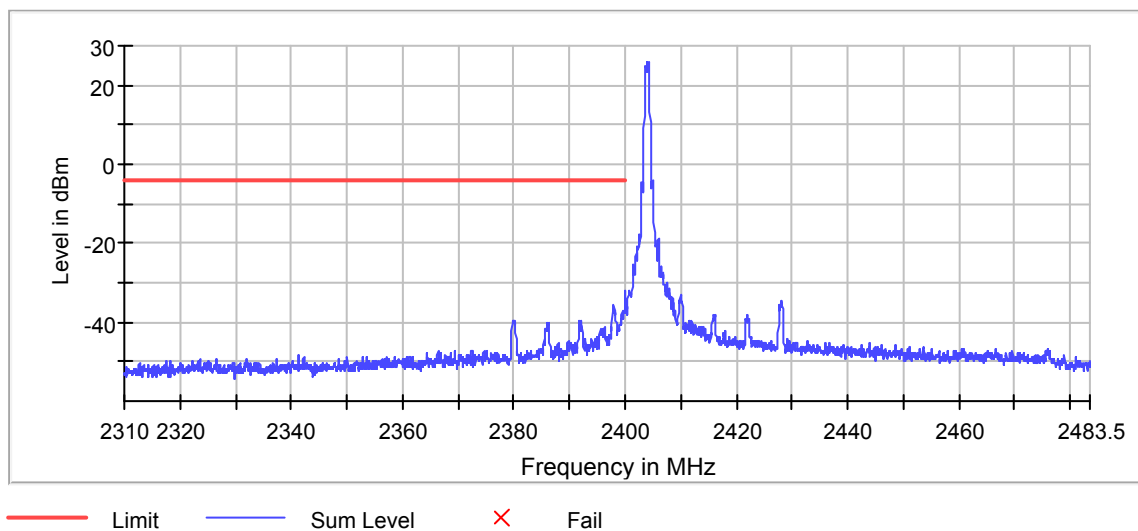
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2403.975000	26.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.975000	-32.7	28.8	-3.9	PASS
2399.925000	-33.1	29.2	-3.9	PASS
2399.875000	-35.7	31.8	-3.9	PASS
2397.975000	-35.8	31.9	-3.9	PASS
2397.925000	-36.0	32.1	-3.9	PASS
2397.725000	-36.7	32.8	-3.9	PASS
2399.475000	-36.9	33.0	-3.9	PASS
2398.025000	-37.0	33.2	-3.9	PASS
2397.675000	-37.2	33.4	-3.9	PASS
2397.775000	-37.3	33.4	-3.9	PASS
2398.075000	-37.3	33.4	-3.9	PASS
2397.825000	-37.3	33.5	-3.9	PASS
2399.525000	-37.5	33.7	-3.9	PASS
2399.825000	-37.6	33.7	-3.9	PASS
2398.175000	-37.6	33.8	-3.9	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSMR 11ms – 2405MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

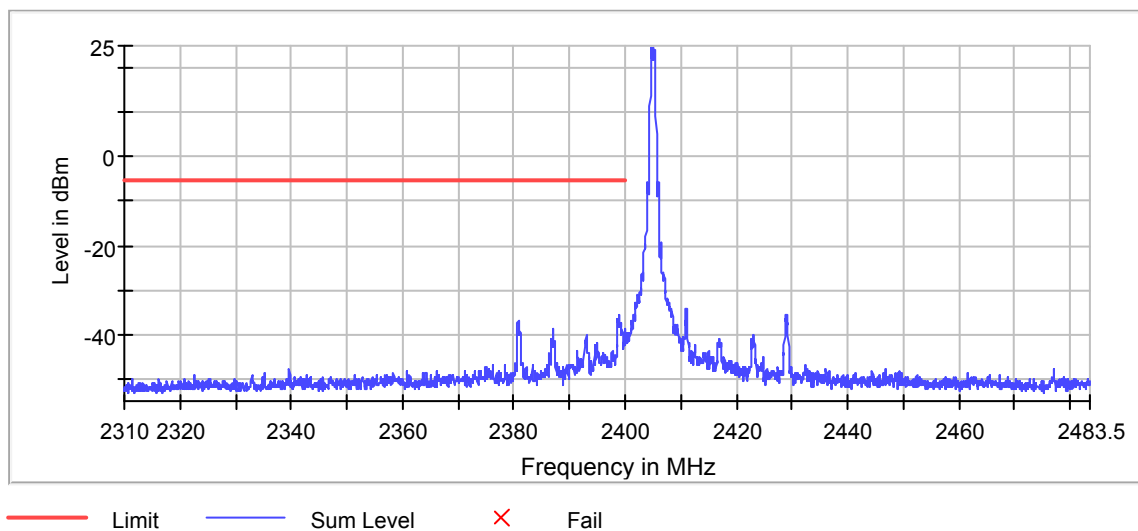
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2404.725000	24.6

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2398.975000	-35.6	30.1	-5.4	PASS
2398.925000	-36.1	30.7	-5.4	PASS
2399.025000	-36.2	30.7	-5.4	PASS
2398.675000	-36.6	31.2	-5.4	PASS
2380.775000	-36.7	31.3	-5.4	PASS
2398.725000	-37.0	31.6	-5.4	PASS
2398.875000	-37.1	31.7	-5.4	PASS
2380.975000	-37.1	31.7	-5.4	PASS
2380.725000	-37.4	32.0	-5.4	PASS
2380.675000	-37.4	32.0	-5.4	PASS
2399.075000	-37.5	32.0	-5.4	PASS
2399.225000	-37.6	32.1	-5.4	PASS
2380.825000	-37.7	32.3	-5.4	PASS
2398.775000	-37.8	32.4	-5.4	PASS
2399.175000	-37.8	32.4	-5.4	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSMR 5.5ms – 2405MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

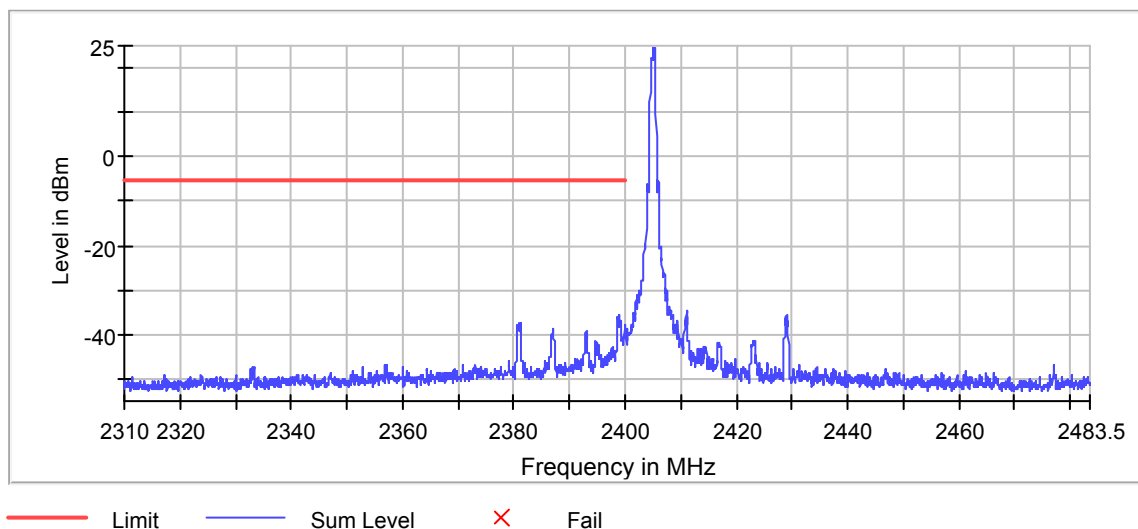
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2404.975000	24.6

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2398.975000	-35.5	30.2	-5.4	PASS
2399.025000	-35.6	30.2	-5.4	PASS
2398.925000	-36.1	30.7	-5.4	PASS
2398.725000	-36.1	30.8	-5.4	PASS
2399.175000	-36.9	31.5	-5.4	PASS
2398.675000	-37.0	31.6	-5.4	PASS
2399.075000	-37.0	31.6	-5.4	PASS
2399.225000	-37.1	31.8	-5.4	PASS
2399.125000	-37.1	31.8	-5.4	PASS
2381.025000	-37.2	31.9	-5.4	PASS
2380.975000	-37.3	31.9	-5.4	PASS
2398.875000	-37.3	32.0	-5.4	PASS
2381.275000	-37.3	32.0	-5.4	PASS
2398.775000	-37.4	32.1	-5.4	PASS
2381.075000	-37.5	32.1	-5.4	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSM2 16.5ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

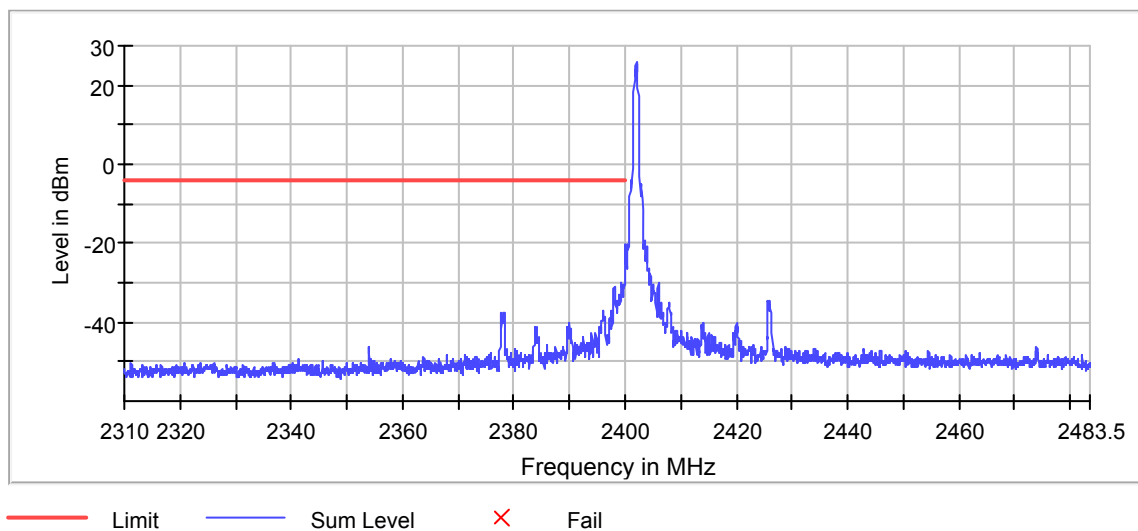
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2401.975000	26.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.975000	-22.9	18.9	-4.0	PASS
2399.925000	-23.9	19.9	-4.0	PASS
2399.875000	-27.3	23.3	-4.0	PASS
2399.275000	-29.8	25.8	-4.0	PASS
2399.325000	-29.9	25.9	-4.0	PASS
2399.675000	-30.4	26.3	-4.0	PASS
2399.725000	-30.4	26.4	-4.0	PASS
2399.825000	-30.7	26.7	-4.0	PASS
2399.425000	-30.9	26.9	-4.0	PASS
2399.225000	-30.9	26.9	-4.0	PASS
2399.475000	-31.0	26.9	-4.0	PASS
2399.375000	-31.0	27.0	-4.0	PASS
2398.025000	-31.3	27.2	-4.0	PASS
2397.975000	-31.6	27.6	-4.0	PASS
2399.775000	-31.7	27.7	-4.0	PASS



DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSM2 22ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

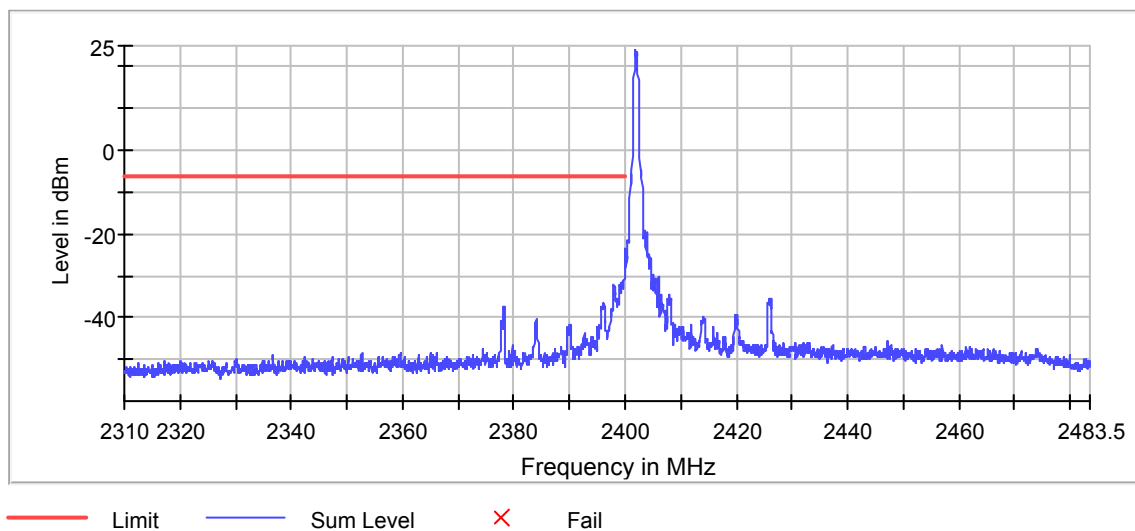
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2401.725000	24.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.975000	-23.4	17.4	-6.0	PASS
2399.925000	-23.9	17.9	-6.0	PASS
2399.875000	-25.8	19.9	-6.0	PASS
2399.825000	-30.5	24.5	-6.0	PASS
2399.725000	-31.0	25.0	-6.0	PASS
2399.775000	-31.1	25.1	-6.0	PASS
2399.525000	-31.1	25.1	-6.0	PASS
2399.475000	-31.3	25.3	-6.0	PASS
2399.325000	-31.9	25.9	-6.0	PASS
2399.375000	-32.2	26.2	-6.0	PASS
2397.975000	-32.2	26.2	-6.0	PASS
2399.425000	-32.3	26.3	-6.0	PASS
2399.575000	-32.3	26.3	-6.0	PASS
2397.925000	-32.4	26.4	-6.0	PASS
2399.075000	-32.4	26.4	-6.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSM2 11ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

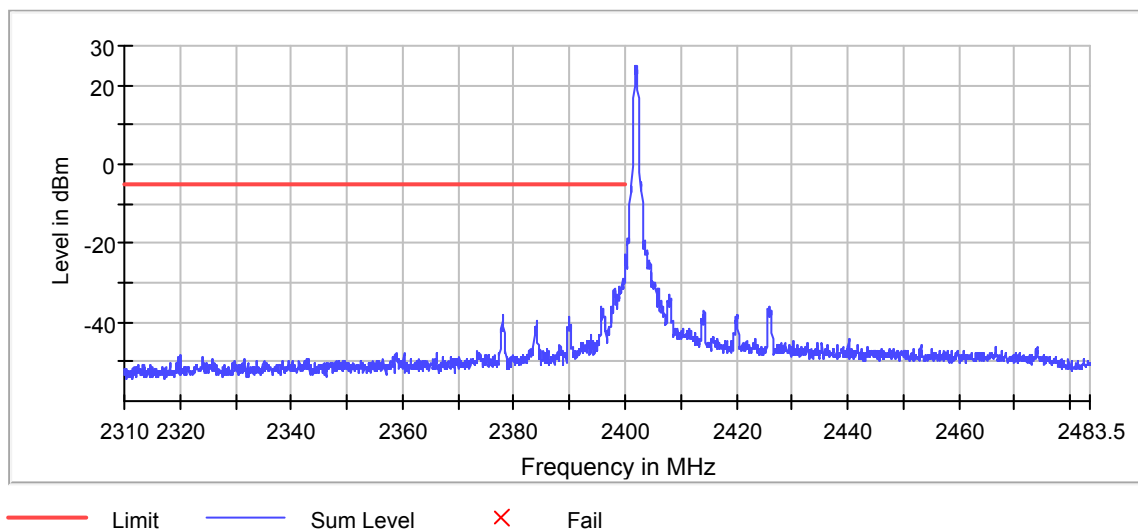
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2401.975000	25.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.975000	-23.7	18.7	-5.0	PASS
2399.925000	-24.2	19.2	-5.0	PASS
2399.875000	-26.4	21.4	-5.0	PASS
2399.525000	-29.1	24.1	-5.0	PASS
2399.475000	-29.2	24.2	-5.0	PASS
2399.825000	-29.9	24.9	-5.0	PASS
2399.775000	-30.4	25.4	-5.0	PASS
2399.575000	-30.6	25.6	-5.0	PASS
2399.025000	-31.1	26.1	-5.0	PASS
2399.675000	-31.1	26.2	-5.0	PASS
2399.625000	-31.3	26.3	-5.0	PASS
2398.975000	-31.3	26.4	-5.0	PASS
2399.725000	-31.7	26.7	-5.0	PASS
2399.175000	-31.7	26.7	-5.0	PASS
2399.425000	-31.7	26.7	-5.0	PASS



DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSMX 22ms – 2404MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

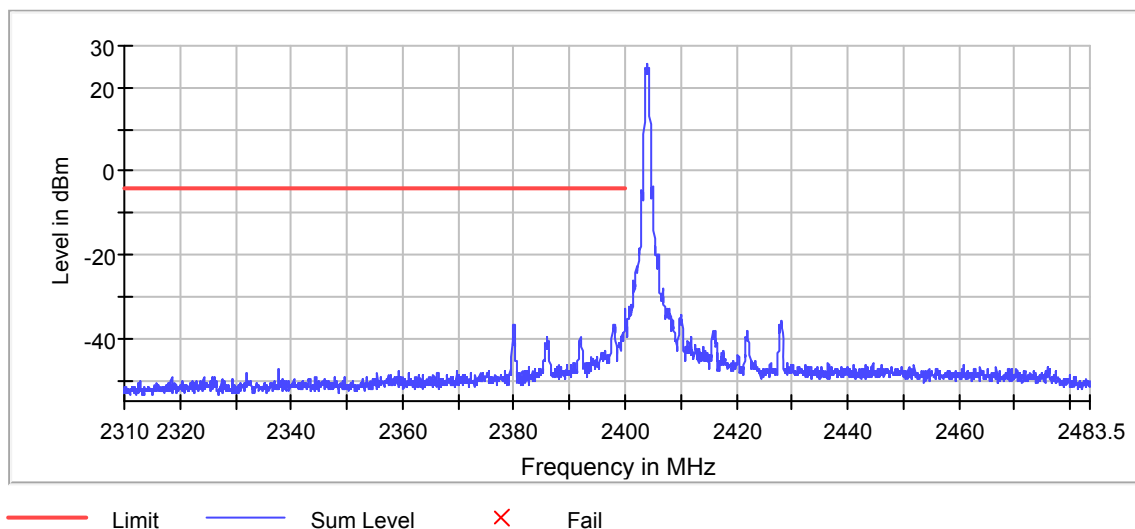
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2403.925000	25.7

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.975000	-33.0	28.6	-4.3	PASS
2399.925000	-33.3	29.0	-4.3	PASS
2399.875000	-35.5	31.2	-4.3	PASS
2379.975000	-36.5	32.2	-4.3	PASS
2398.025000	-36.6	32.3	-4.3	PASS
2397.975000	-36.7	32.4	-4.3	PASS
2380.025000	-36.7	32.4	-4.3	PASS
2379.925000	-36.9	32.6	-4.3	PASS
2398.175000	-37.2	32.9	-4.3	PASS
2397.925000	-37.3	33.0	-4.3	PASS
2397.725000	-37.5	33.2	-4.3	PASS
2398.075000	-37.5	33.2	-4.3	PASS
2397.775000	-37.9	33.6	-4.3	PASS
2398.225000	-38.1	33.7	-4.3	PASS
2397.825000	-38.2	33.8	-4.3	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSMX 11ms – 2404MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

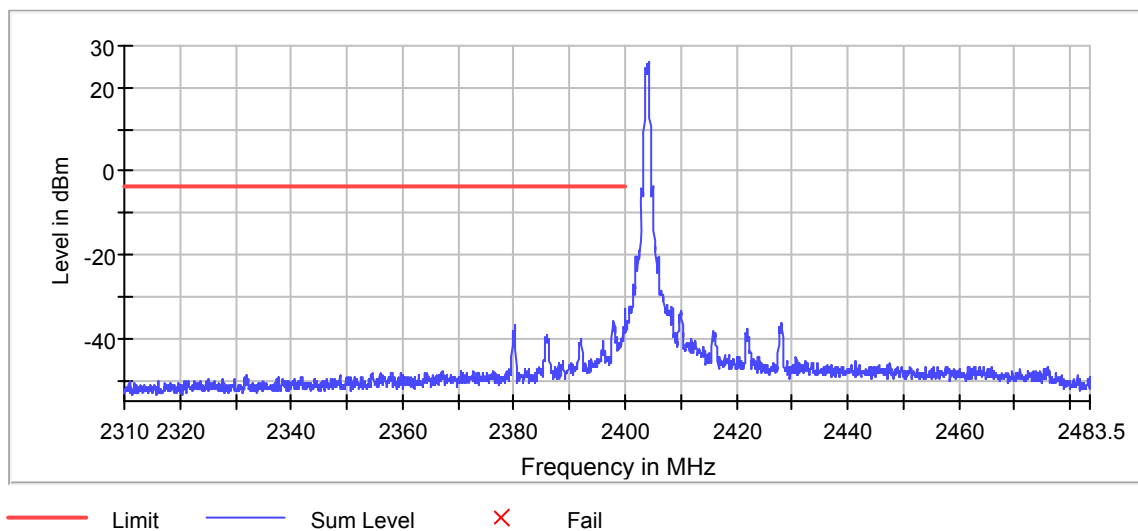
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2404.225000	26.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.975000	-32.7	28.8	-3.9	PASS
2399.925000	-33.3	29.4	-3.9	PASS
2397.975000	-35.6	31.7	-3.9	PASS
2397.925000	-35.7	31.8	-3.9	PASS
2397.725000	-36.4	32.5	-3.9	PASS
2399.875000	-36.4	32.6	-3.9	PASS
2397.675000	-36.7	32.8	-3.9	PASS
2380.175000	-36.9	33.0	-3.9	PASS
2380.225000	-37.0	33.1	-3.9	PASS
2398.025000	-37.1	33.2	-3.9	PASS
2399.775000	-37.3	33.5	-3.9	PASS
2398.225000	-37.3	33.5	-3.9	PASS
2398.075000	-37.6	33.7	-3.9	PASS
2399.725000	-37.6	33.8	-3.9	PASS
2397.775000	-37.7	33.9	-3.9	PASS



DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSMR 11ms – 2405MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

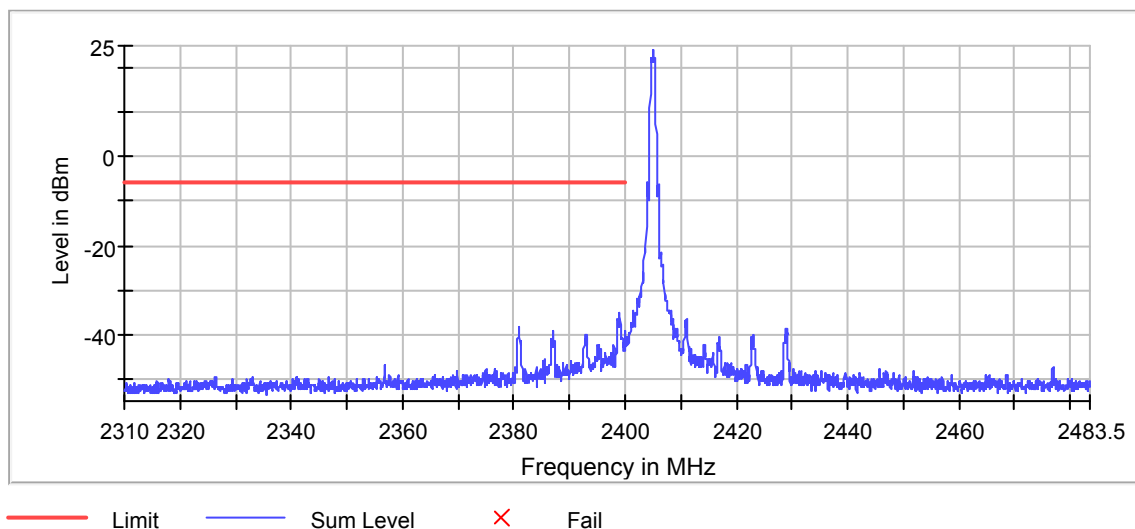
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2404.975000	24.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.025000	-35.3	29.4	-5.9	PASS
2398.975000	-35.6	29.7	-5.9	PASS
2399.075000	-35.9	30.0	-5.9	PASS
2398.675000	-36.2	30.3	-5.9	PASS
2398.725000	-36.5	30.6	-5.9	PASS
2398.925000	-36.8	30.9	-5.9	PASS
2398.775000	-37.6	31.7	-5.9	PASS
2399.125000	-37.8	31.9	-5.9	PASS
2398.825000	-38.0	32.1	-5.9	PASS
2380.875000	-38.3	32.4	-5.9	PASS
2380.975000	-38.4	32.5	-5.9	PASS
2398.875000	-38.4	32.5	-5.9	PASS
2380.925000	-38.4	32.5	-5.9	PASS
2381.025000	-38.6	32.7	-5.9	PASS
2398.625000	-39.0	33.1	-5.9	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSMR 5.5ms – 2405MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

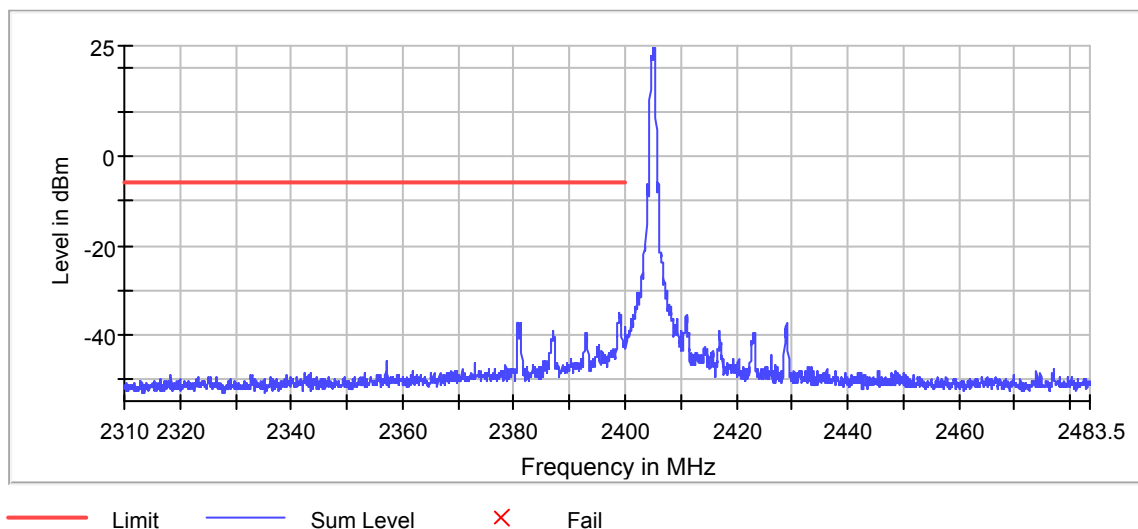
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2405.225000	24.5

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.025000	-35.2	29.7	-5.5	PASS
2399.175000	-35.4	29.9	-5.5	PASS
2398.975000	-35.4	29.9	-5.5	PASS
2399.075000	-35.6	30.1	-5.5	PASS
2398.925000	-35.8	30.2	-5.5	PASS
2399.225000	-35.8	30.3	-5.5	PASS
2398.875000	-36.3	30.8	-5.5	PASS
2398.825000	-37.0	31.5	-5.5	PASS
2398.775000	-37.2	31.6	-5.5	PASS
2381.225000	-37.3	31.8	-5.5	PASS
2381.175000	-37.3	31.8	-5.5	PASS
2380.775000	-37.4	31.9	-5.5	PASS
2398.725000	-37.5	32.0	-5.5	PASS
2380.725000	-37.5	32.0	-5.5	PASS
2380.925000	-37.9	32.4	-5.5	PASS



DATA PAGE

MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Conducted
MODE	DSM2 16.5ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

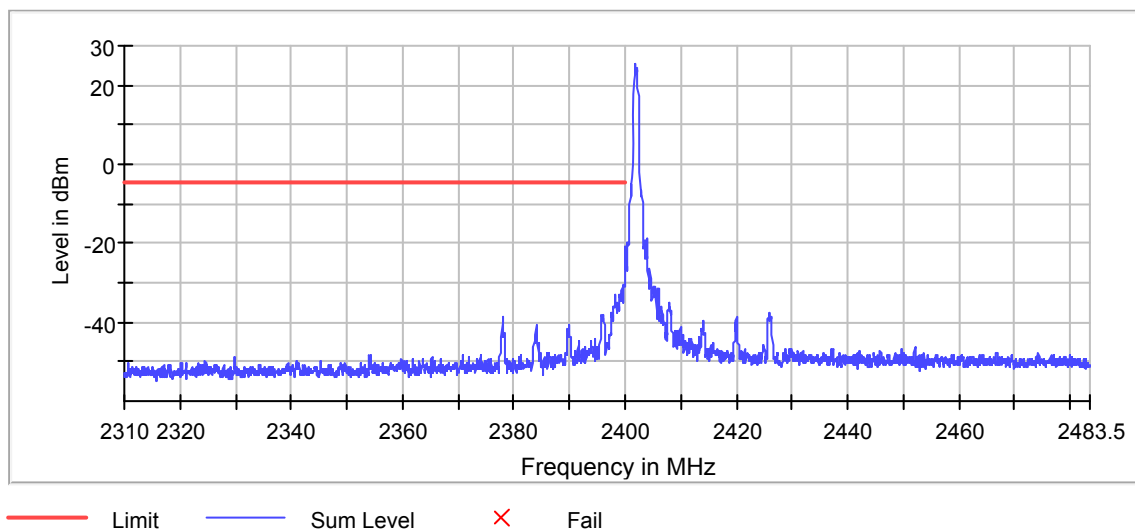
BAND EDGE COMPLIANCE - LOW

In-Band Peak

Frequency (MHz)	Level (dBm)
2401.725000	25.6

Measurements

Frequency (MHz)	Level (dBm)	Margin (dBm)	Limit (dBm)	Result
2399.975000	-23.1	18.7	-4.4	PASS
2399.925000	-24.0	19.6	-4.4	PASS
2399.875000	-26.9	22.5	-4.4	PASS
2399.775000	-30.5	26.1	-4.4	PASS
2399.475000	-30.9	26.5	-4.4	PASS
2399.825000	-31.0	26.6	-4.4	PASS
2399.725000	-31.1	26.7	-4.4	PASS
2399.425000	-31.8	27.4	-4.4	PASS
2399.525000	-31.9	27.5	-4.4	PASS
2399.275000	-32.9	28.5	-4.4	PASS
2399.025000	-33.1	28.7	-4.4	PASS
2398.225000	-33.2	28.8	-4.4	PASS
2398.175000	-33.3	28.9	-4.4	PASS
2398.975000	-33.3	28.9	-4.4	PASS
2399.225000	-33.5	29.1	-4.4	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Radiated
MODE	DSM2 22ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

BAND EDGE COMPLIANCE – RADIATED

PEAK

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
2483.50	H	23.2		4.3	32.5	0.0	60.1	1007.8	5000.0	-13.9
2483.50	V	23.8		4.3	32.5	0.0	60.6	1077.4	5000.0	-13.3

RESTRICTED BAND AVERAGE

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBμV/m at 3m	Average Total μV/m at 3 m	Average Limit μV/m at 3 m	Margin (dB)
2483.50	H	8.3		4.3	32.5	0.0	0.0	45.1	179.6	500.0	-8.9
2483.50	V	10.1		4.3	32.5	0.0	0.0	47.0	222.8	500.0	-7.0

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Band Edge Compliance - Radiated
MODE	DSMR 5.5ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

BAND EDGE COMPLIANCE – RADIATED

PEAK

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
2483.50	H	25.8		4.3	32.5	0.0	62.7	1357.9	5000.0	-11.3
2483.50	V	28.3		4.3	32.5	0.0	65.1	1794.2	5000.0	-8.9

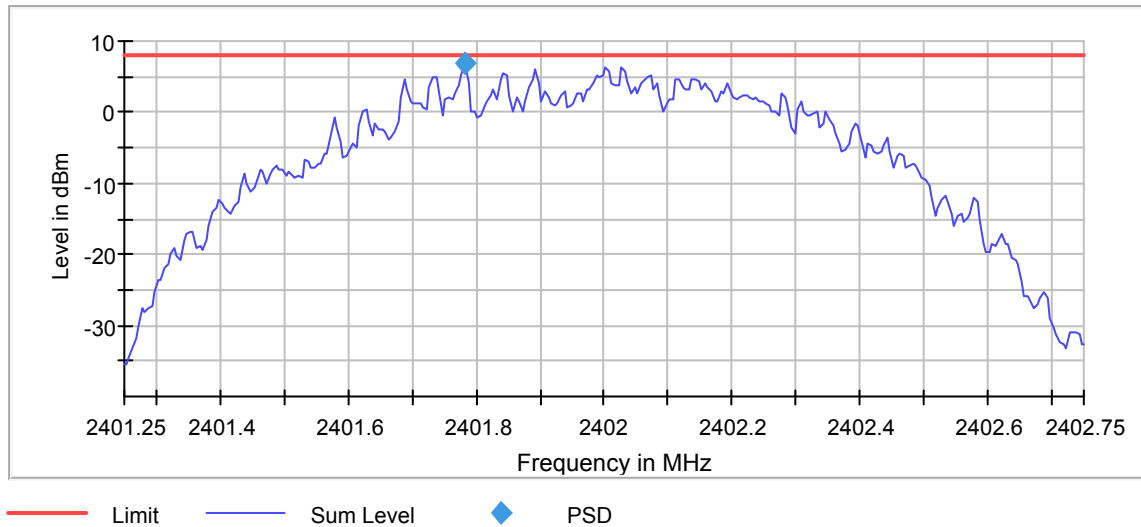
RESTRICTED BAND AVERAGE

Freq. MHz	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBμV/m at 3m	Average Total μV/m at 3 m	Average Limit μV/m at 3 m	Margin (dB)
2483.50	H	9.2		4.3	32.5	0.0	0.0	46.1	200.9	500.0	-7.9
2483.50	V	10.7		4.3	32.5	0.0	0.0	47.5	236.8	500.0	-6.5

DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 22ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

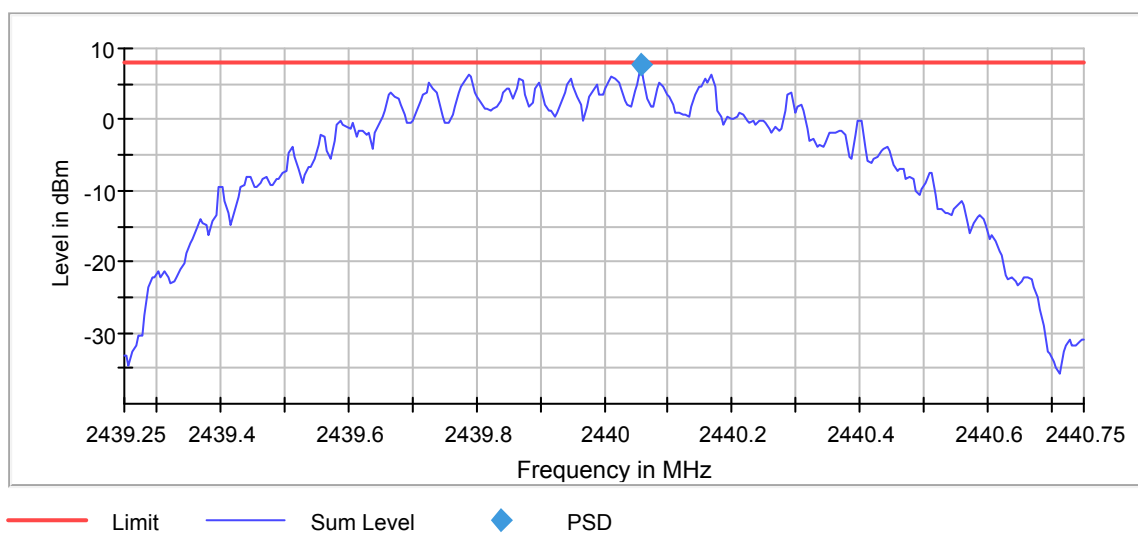
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.782500	6.973	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 22ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

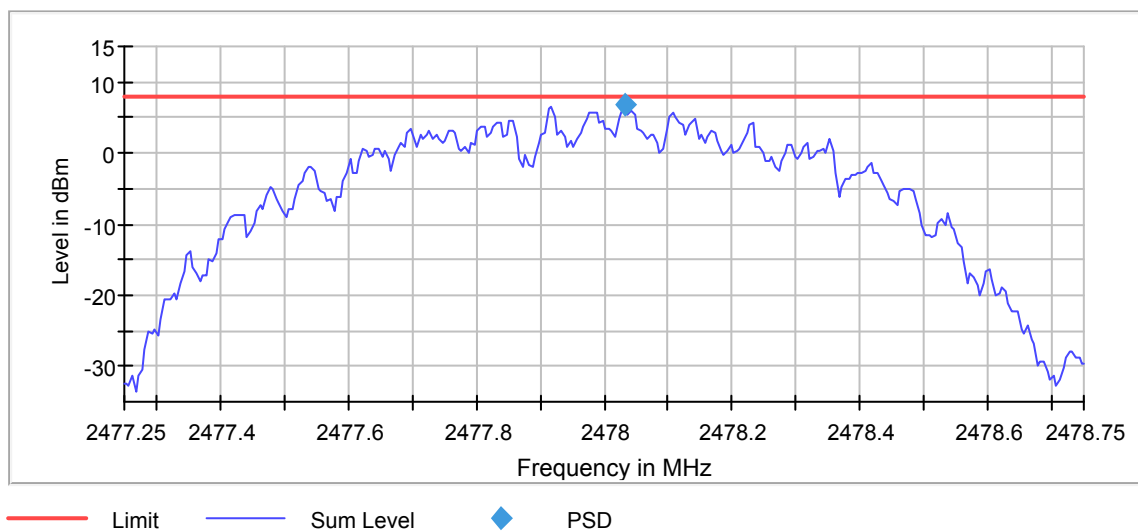
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.057500	7.666	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 22ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

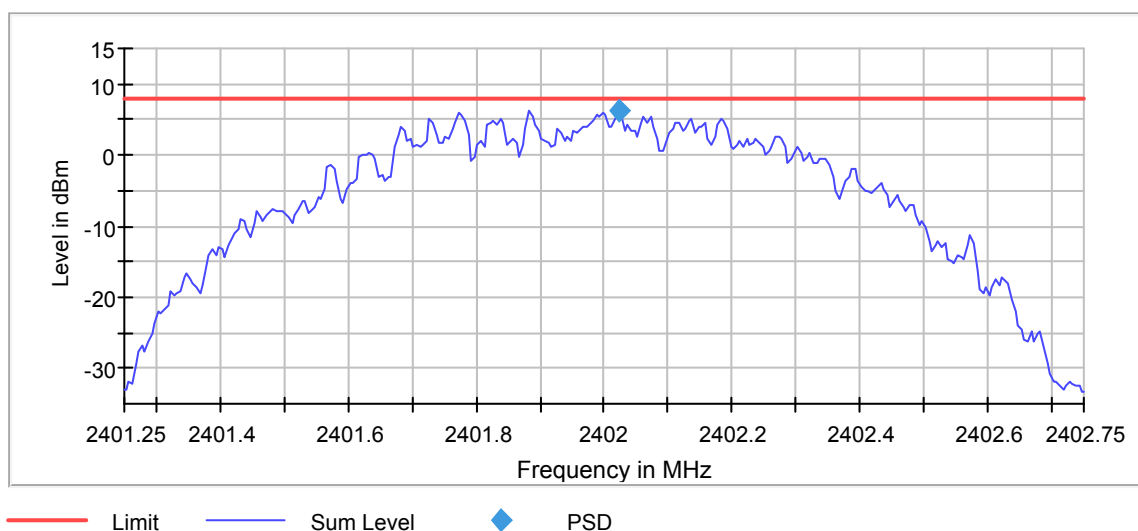
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2478.000000	2478.032500	6.684	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 11ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

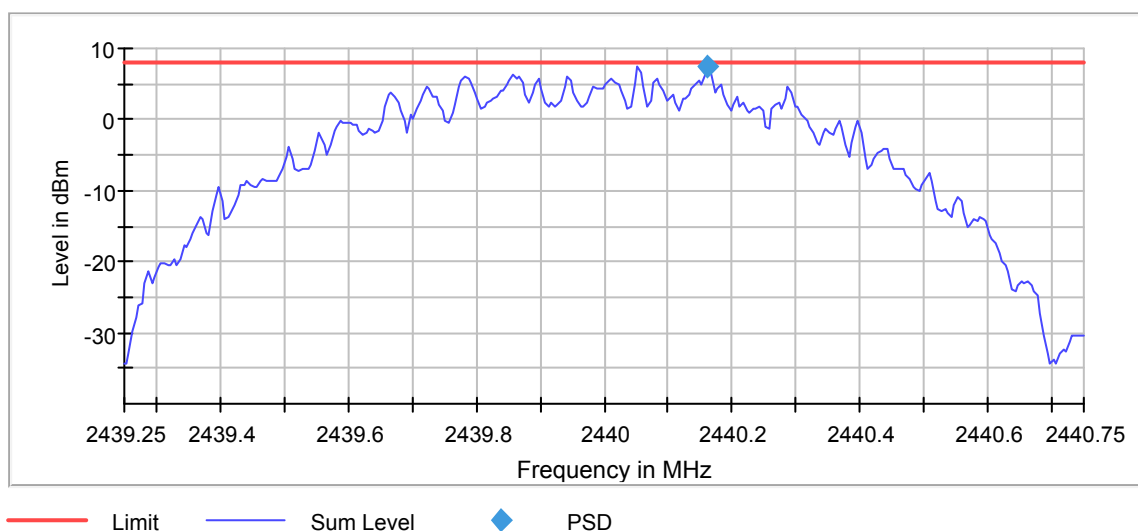
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2402.022500	6.247	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

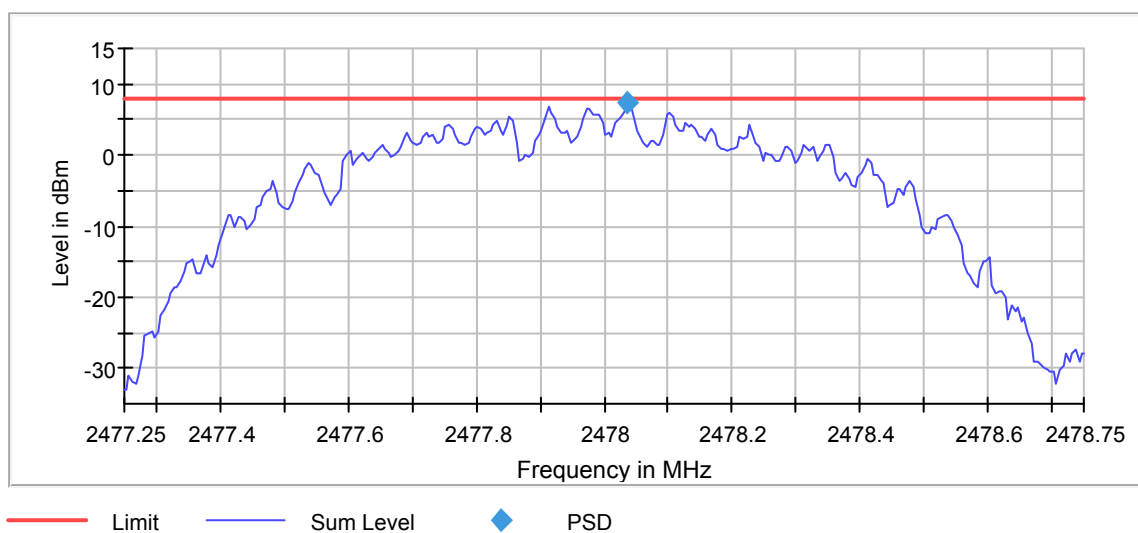
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.162500	7.516	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 11ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

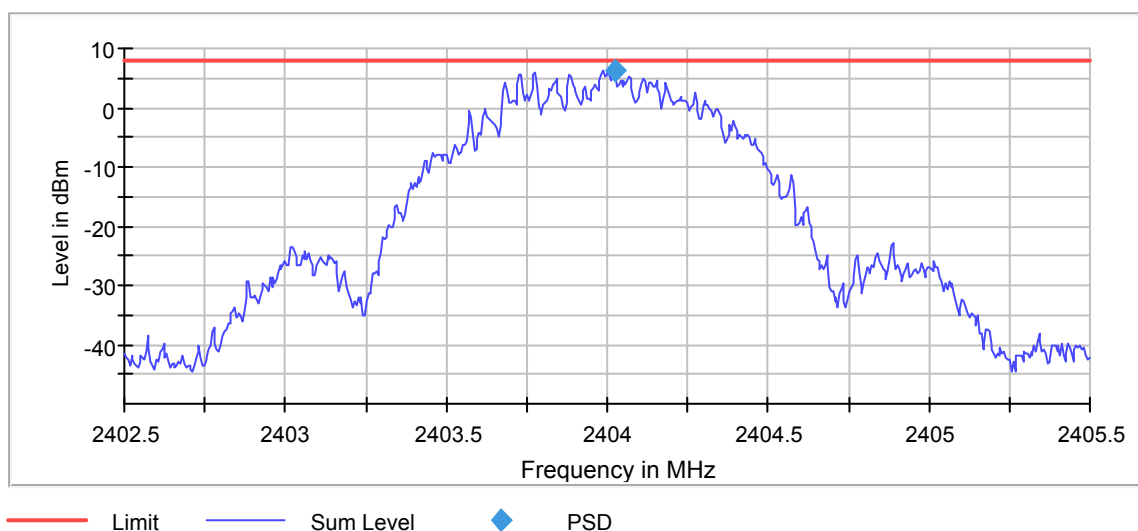
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2478.000000	2478.037500	7.376	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 22ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

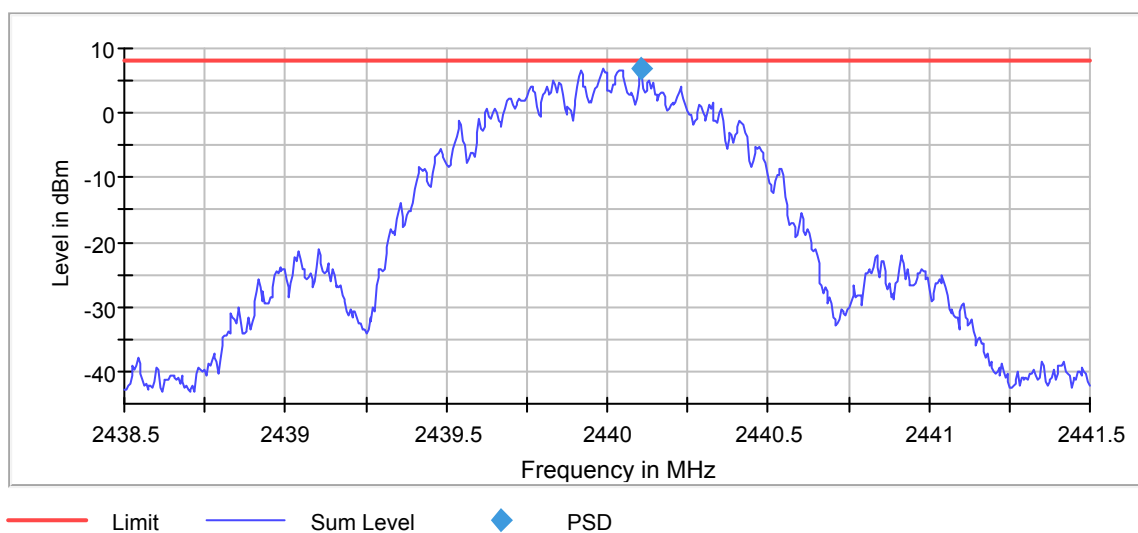
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2404.000000	2404.022500	6.398	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 22ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

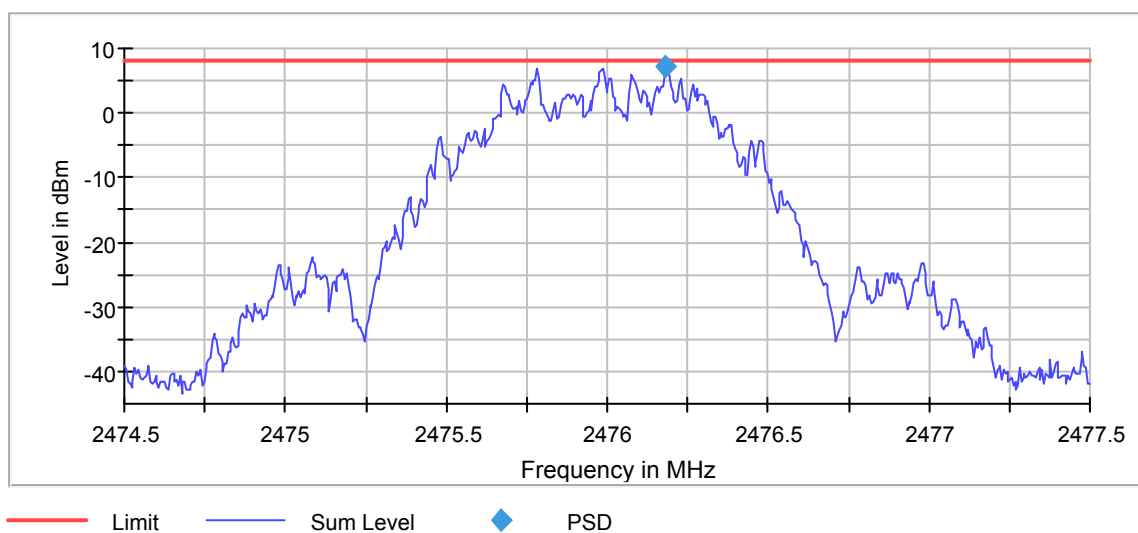
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.107500	6.951	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 22ms – 2476MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

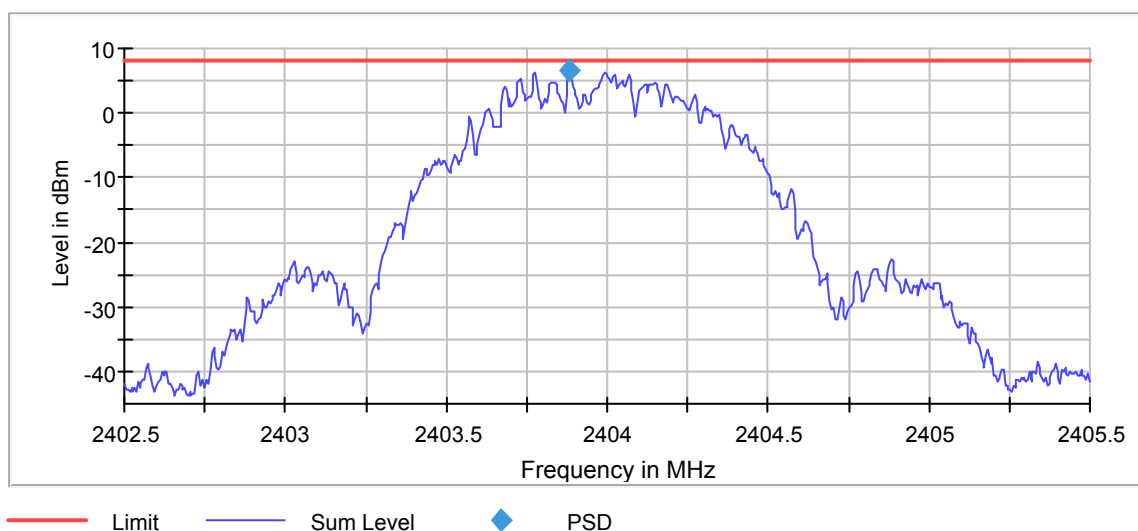
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2476.000000	2476.182500	7.257	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 11ms – 2404MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

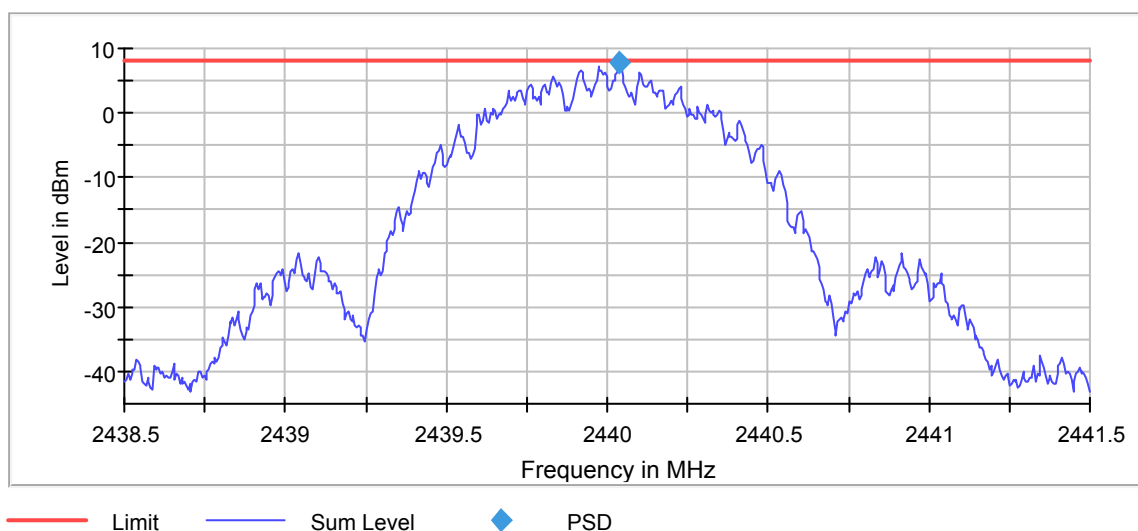
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2404.000000	2403.882500	6.600	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

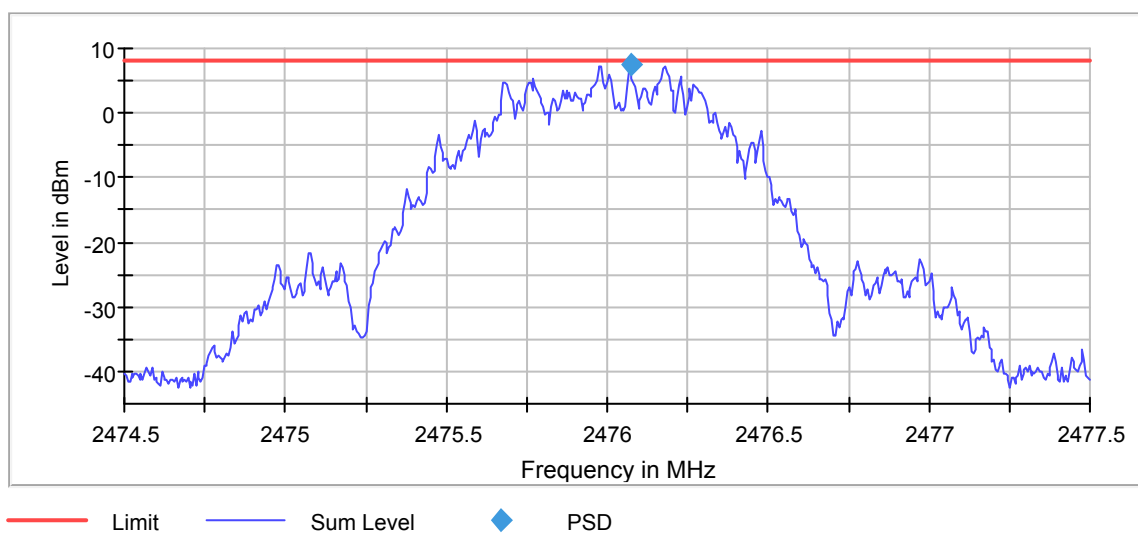
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.037500	7.717	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 11ms – 2476MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

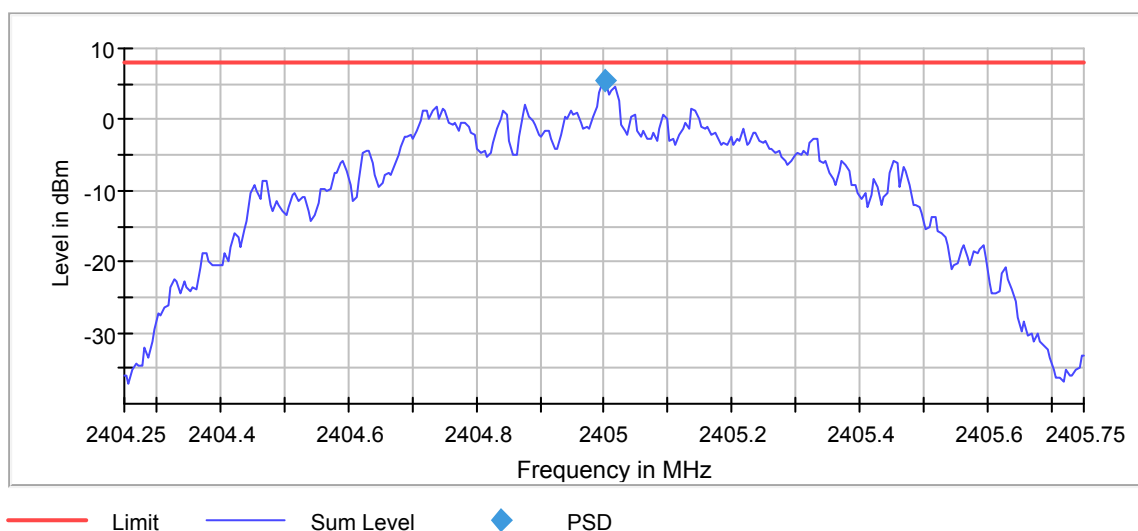
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2476.000000	2476.072500	7.510	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 11ms – 2405MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

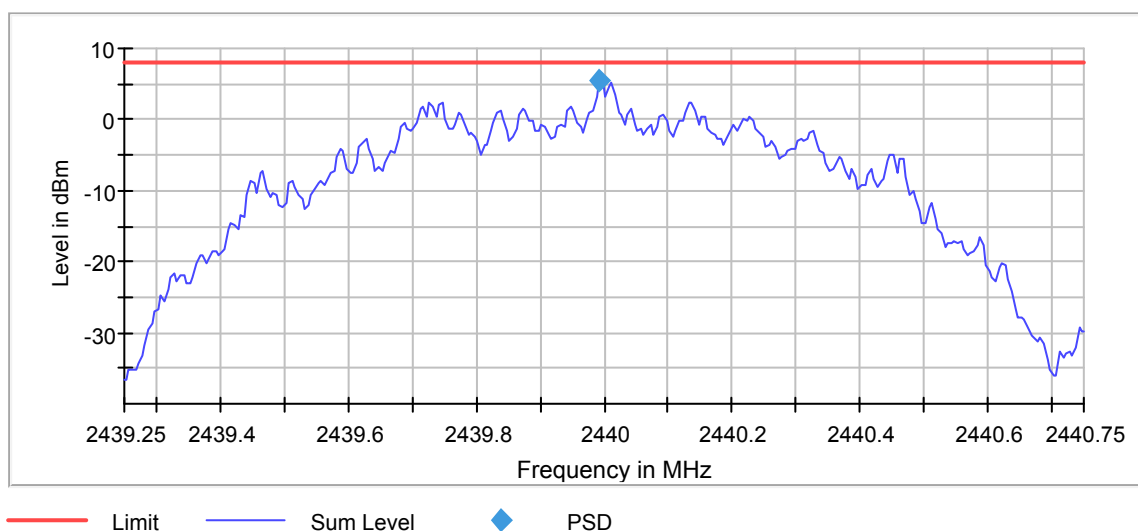
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2405.000000	2405.002500	5.616	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 11ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

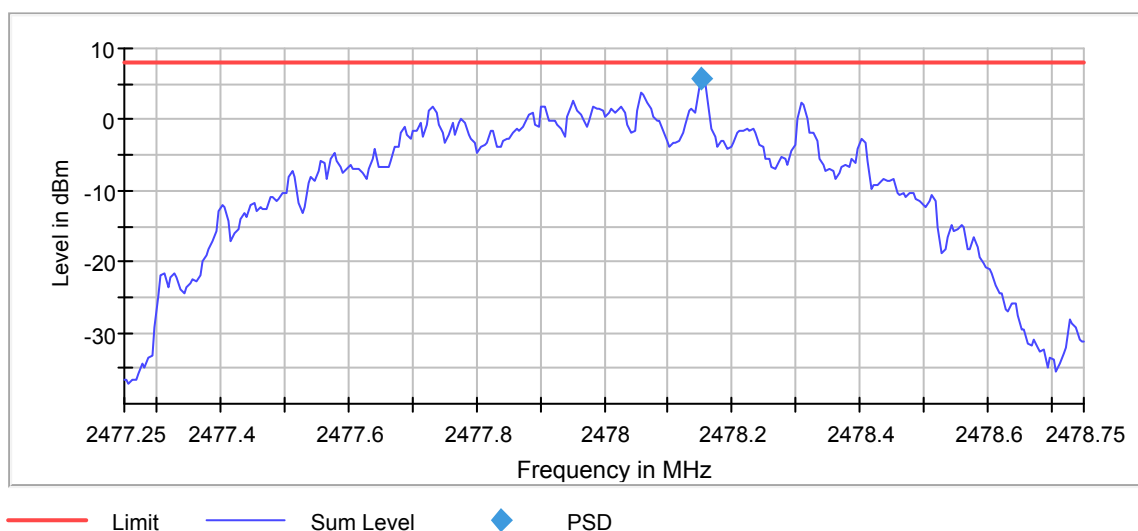
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2439.992500	5.350	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 11ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

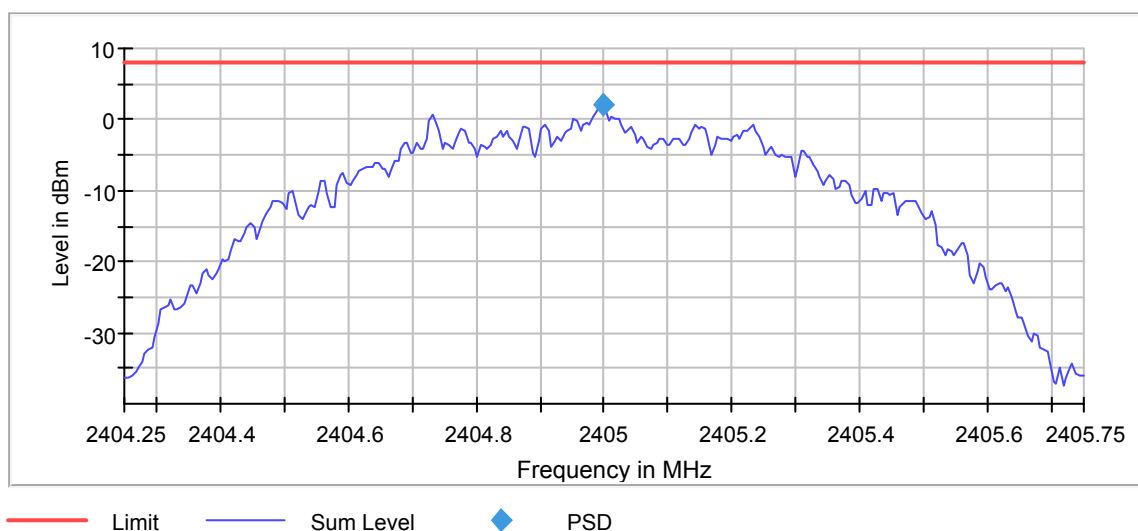
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2478.000000	2478.152500	5.801	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 5.5ms – 2405MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

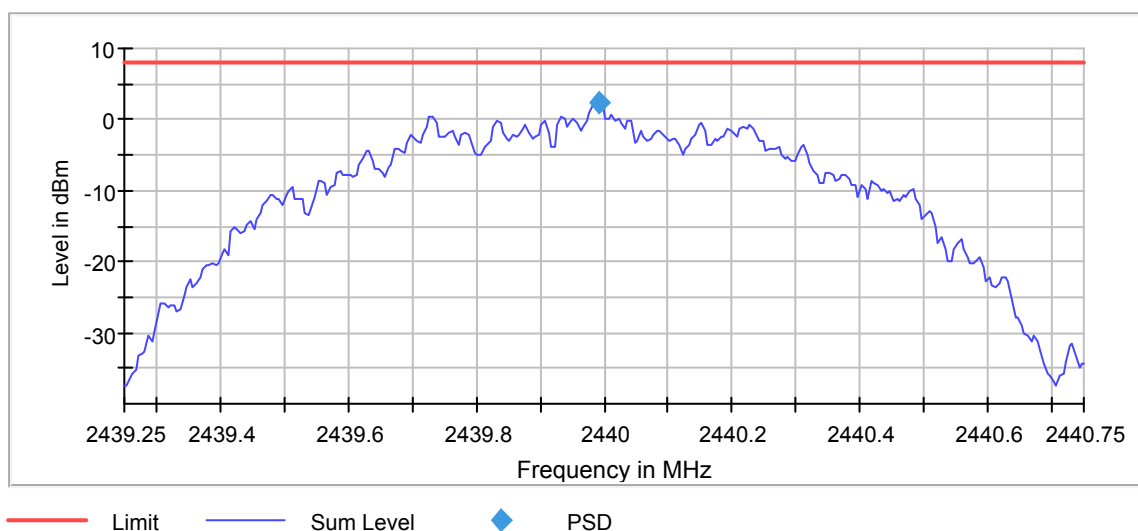
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2405.000000	2404.997500	2.060	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 5.5ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

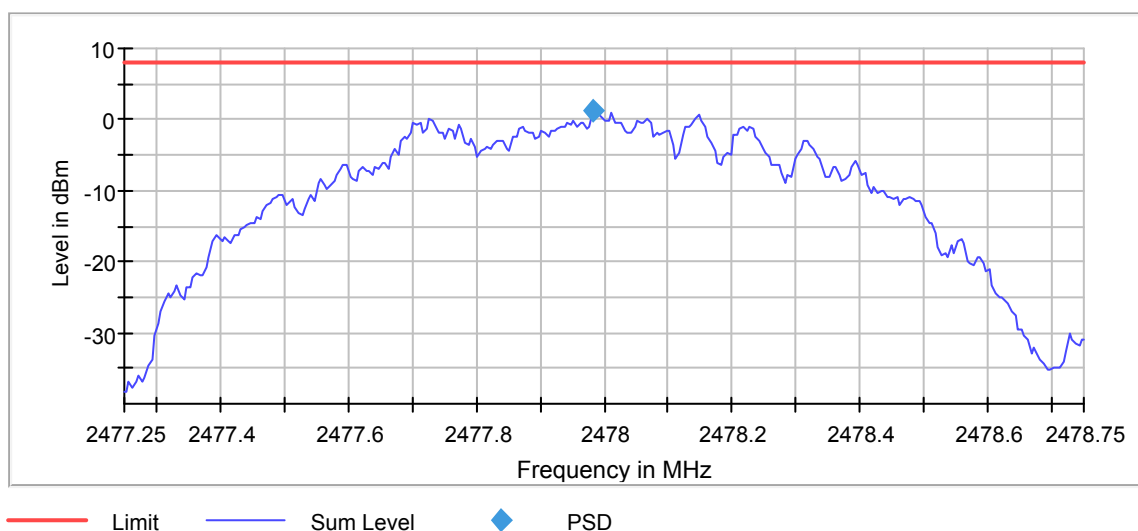
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2439.992500	2.246	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 5.5ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

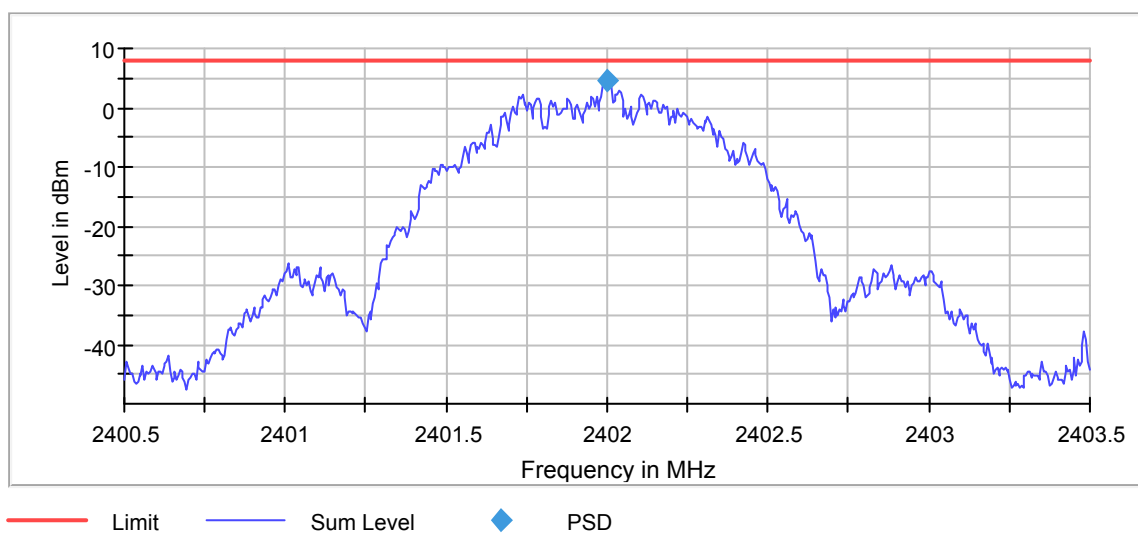
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2478.000000	2477.982500	1.281	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 16.5ms – 2402MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

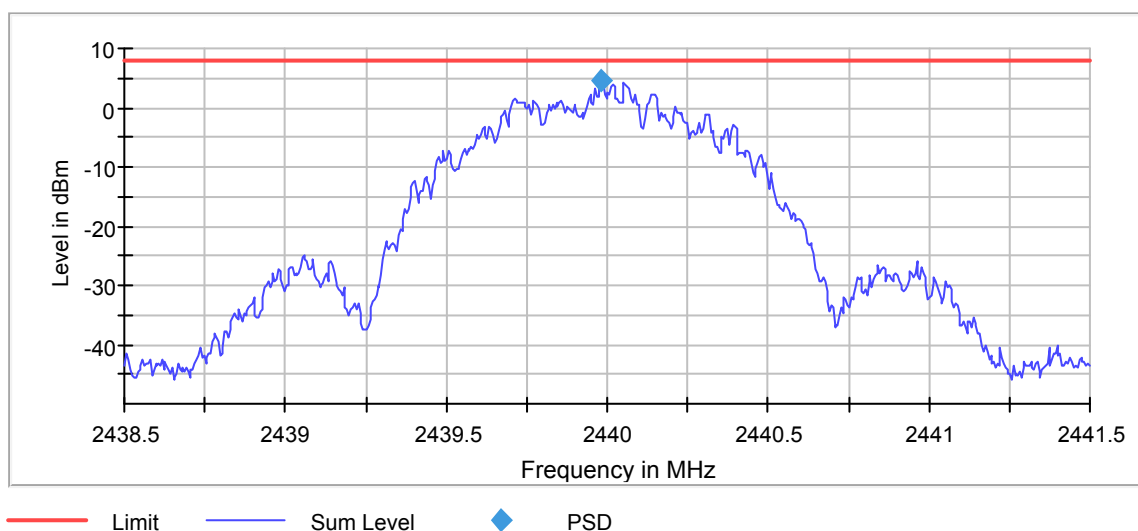
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.997500	4.704	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 16.5ms – 2440MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

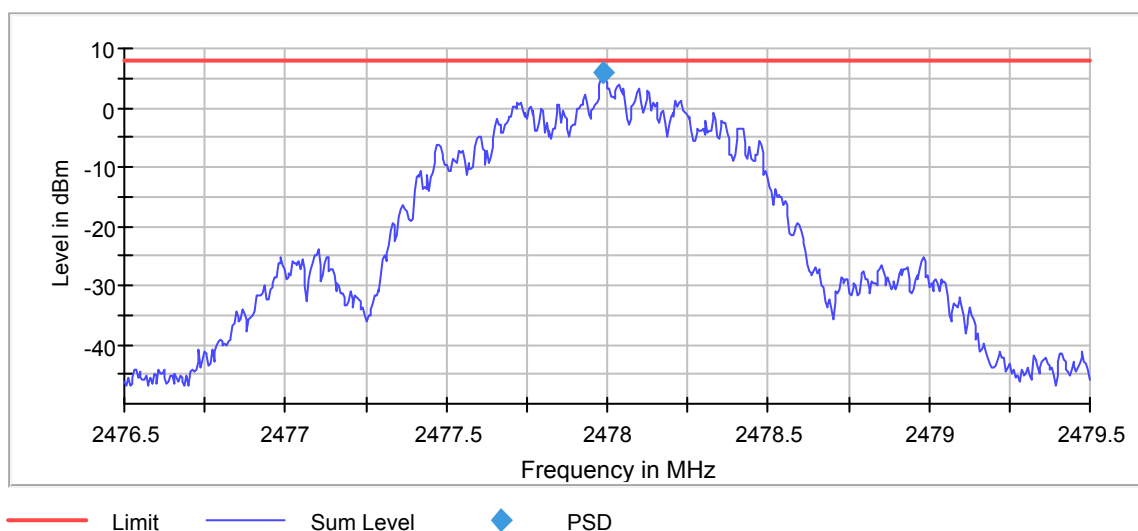
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2439.982500	4.698	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 16.5ms – 2478MHz, Antenna A
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

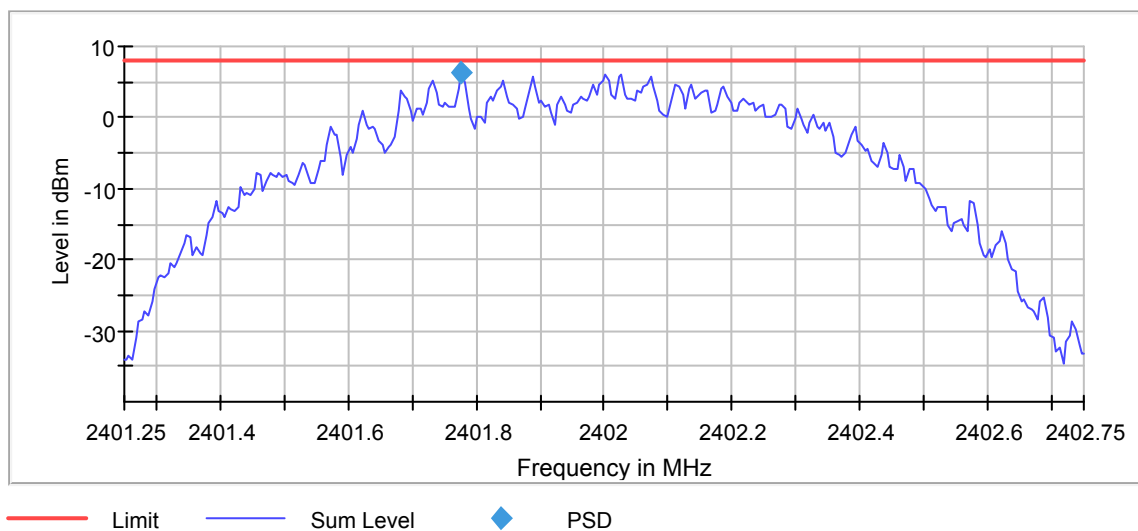
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2478.000000	2477.987500	5.779	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 22ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

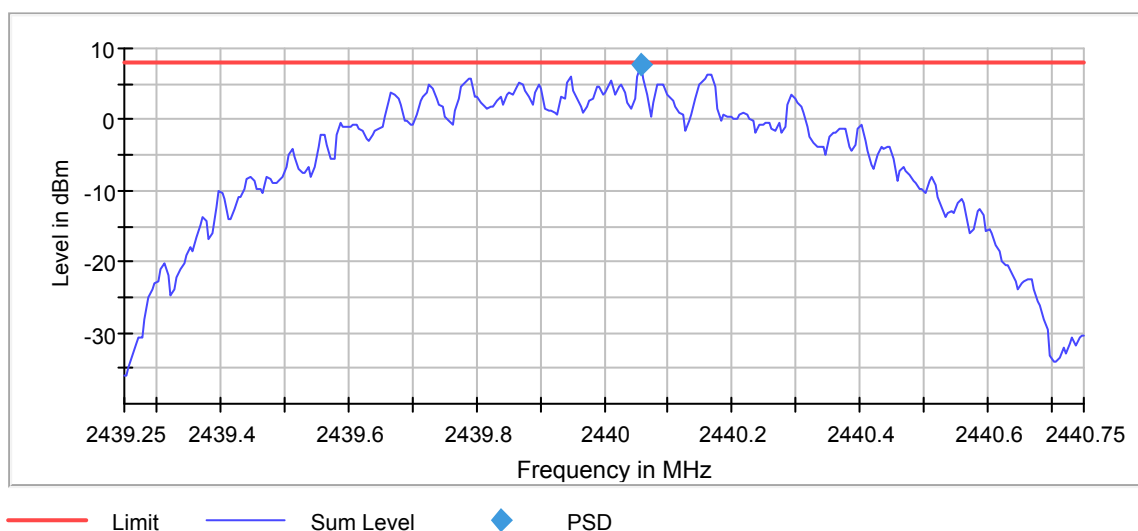
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.777500	6.321	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 22ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

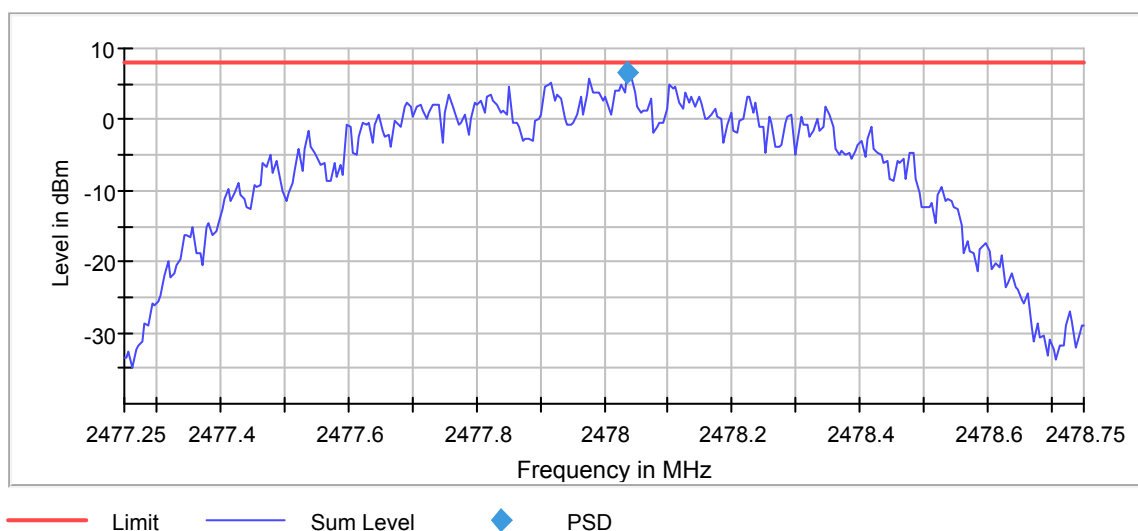
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.057500	7.615	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 22ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

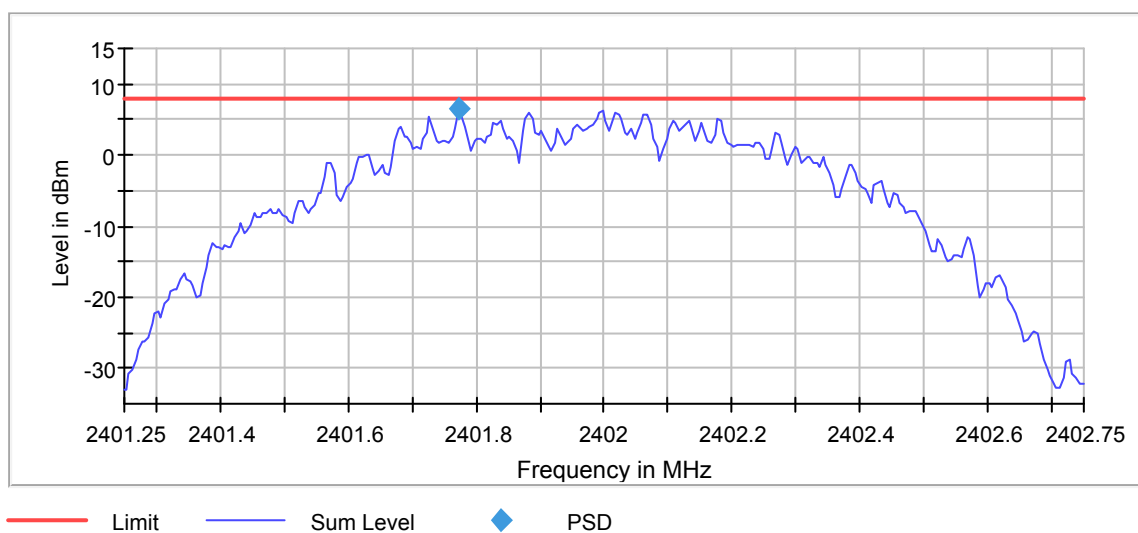
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2478.000000	2478.037500	6.644	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 11ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

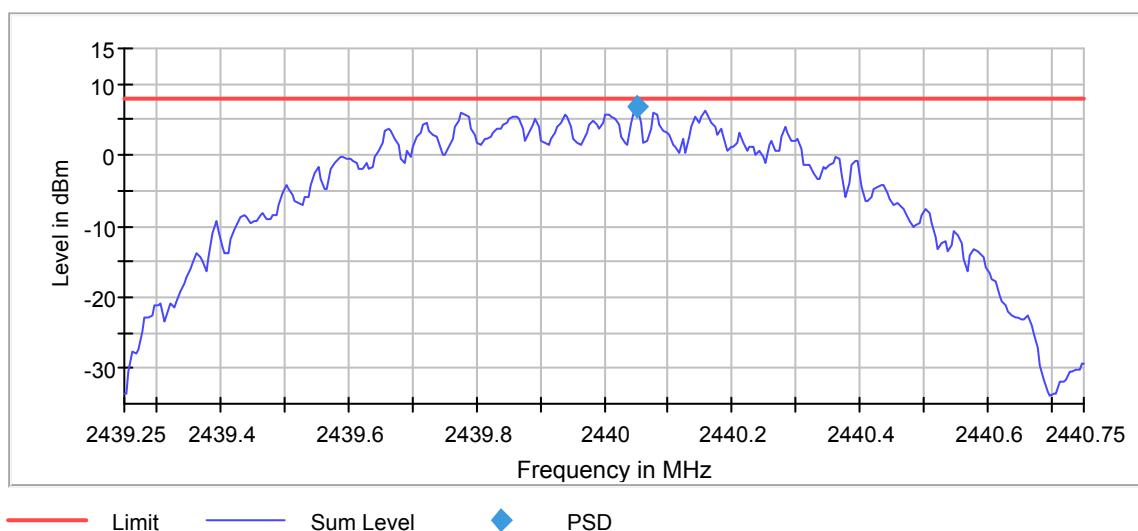
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.772500	6.521	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

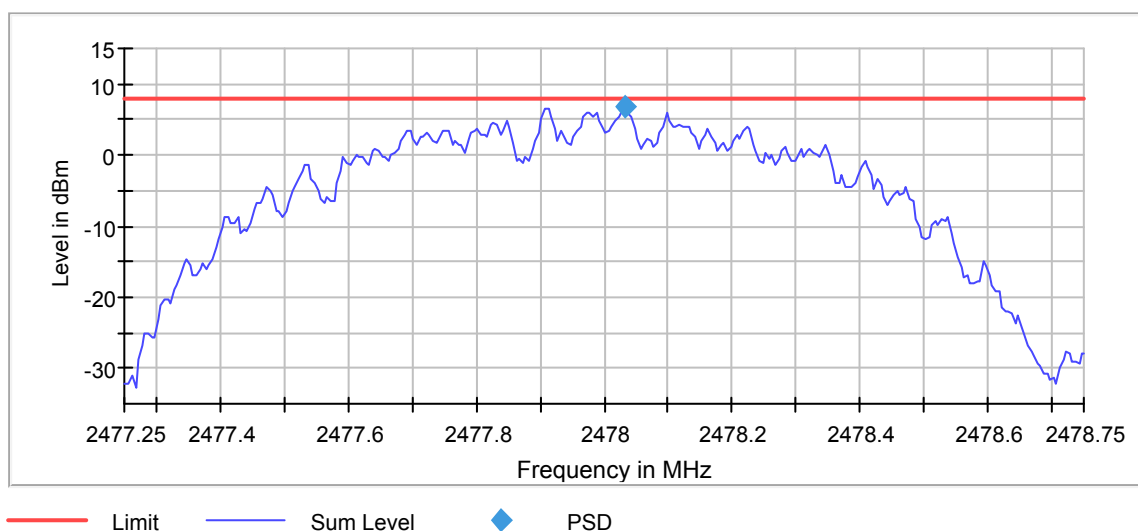
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.052500	6.901	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 11ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

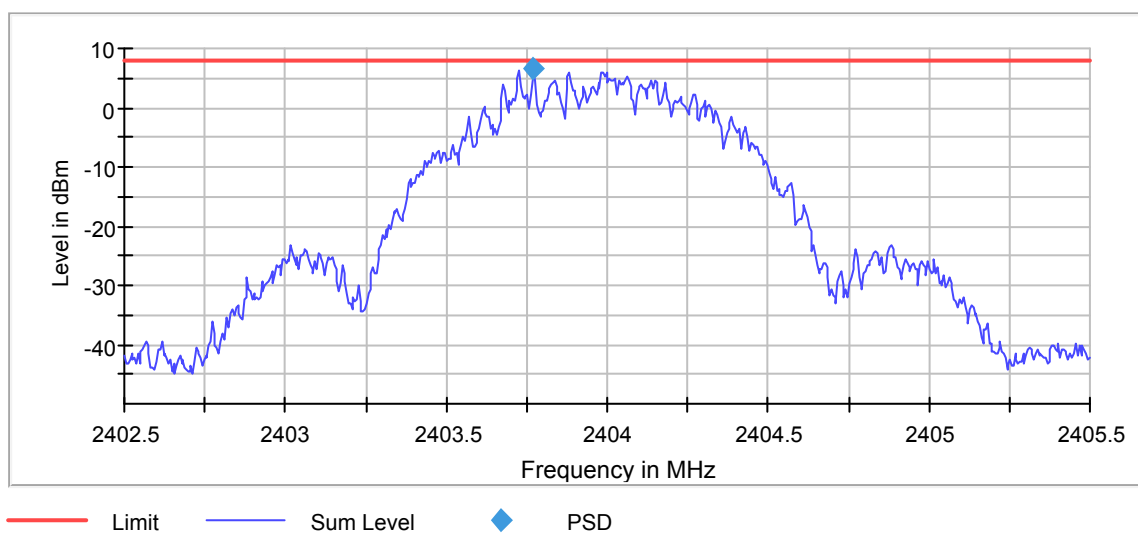
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2478.000000	2478.032500	6.884	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 22ms – 2404MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

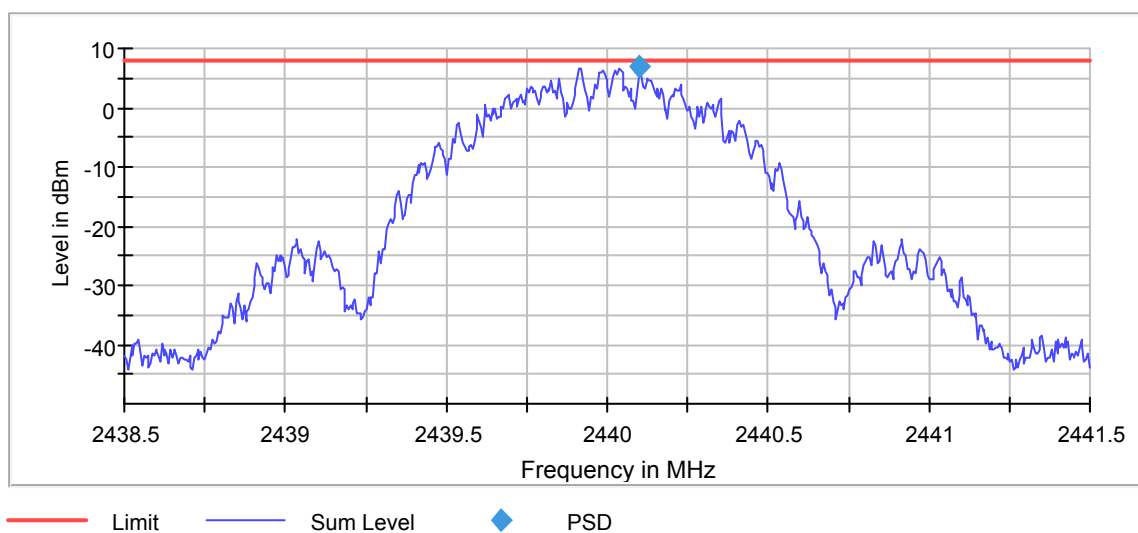
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2404.000000	2403.772500	6.650	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 22ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

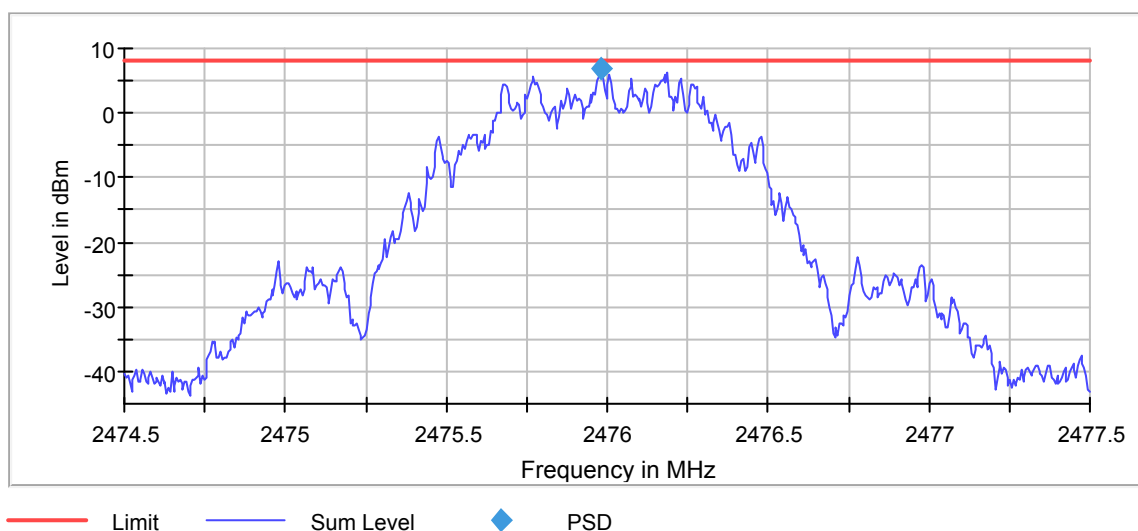
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.102500	6.932	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 22ms – 2476MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

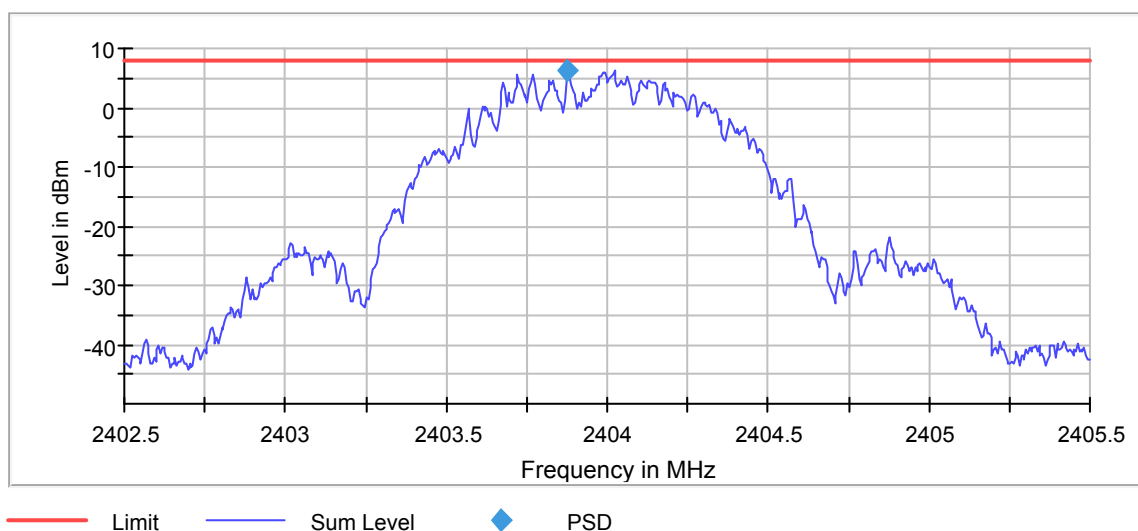
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2476.000000	2475.982500	7.047	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 11ms – 2404MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

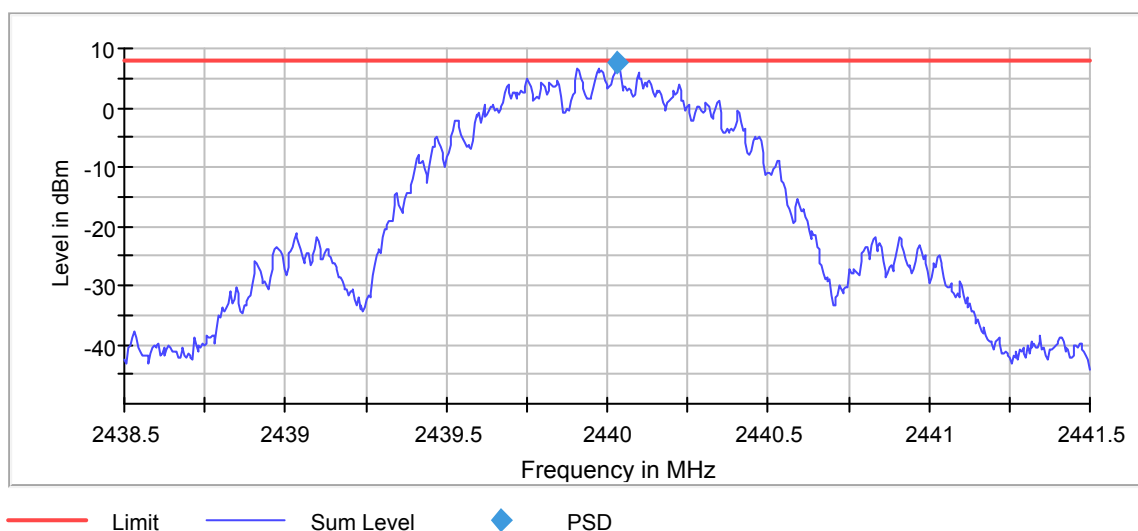
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2404.000000	2403.877500	6.225	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

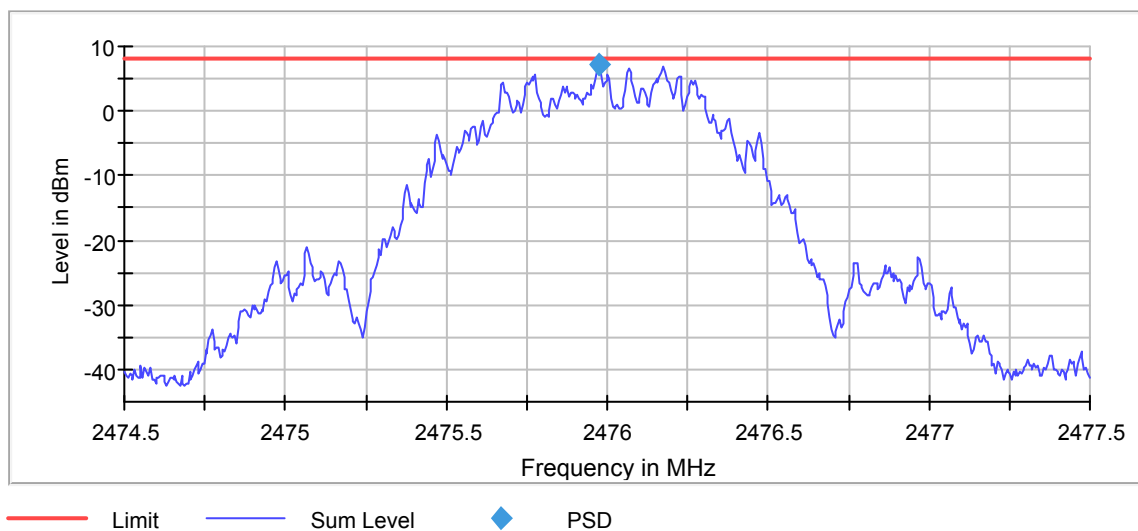
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.032500	7.657	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMX 11ms – 2476MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

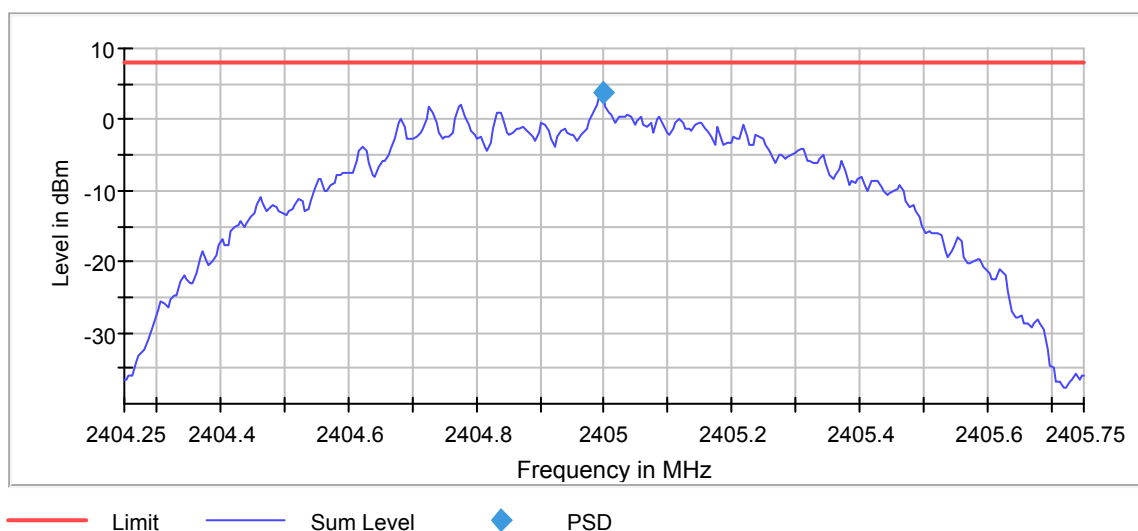
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2476.000000	2475.977500	7.247	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 11ms – 2405MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

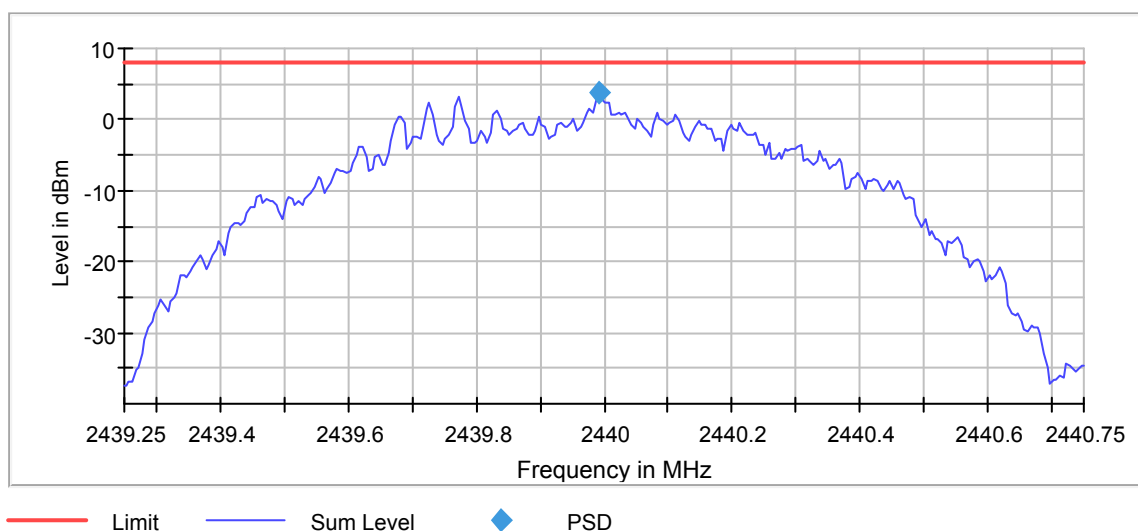
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2405.000000	2404.997500	3.646	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 11ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

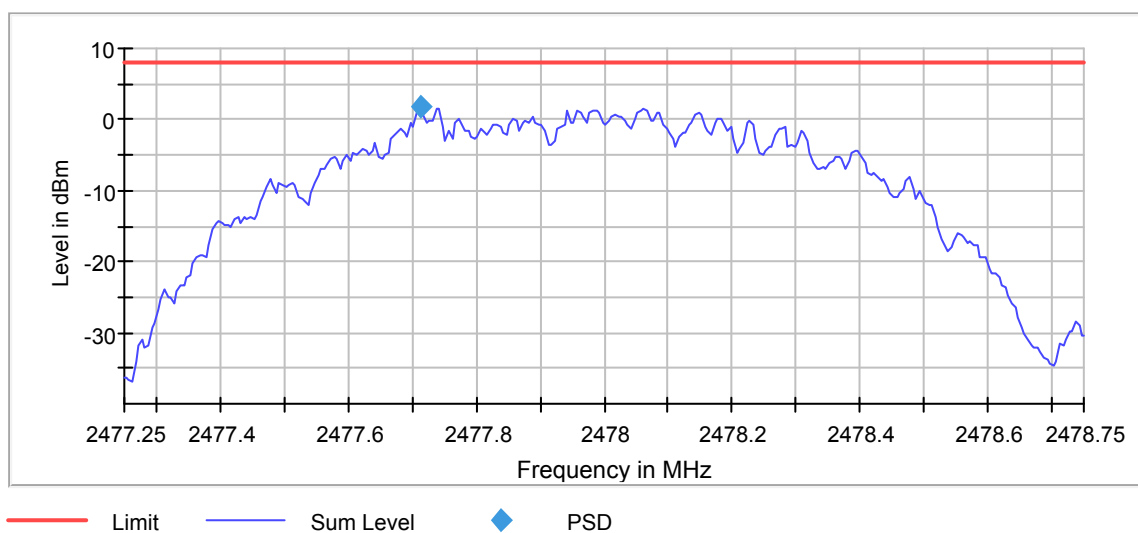
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2439.992500	3.859	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 11ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

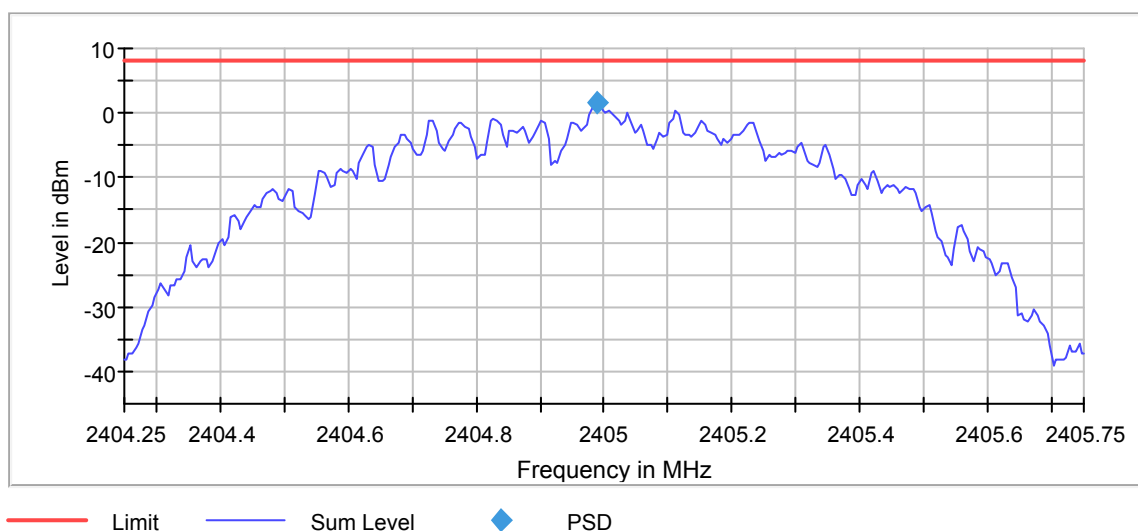
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2478.000000	2477.712500	1.784	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 5.5ms – 2405MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

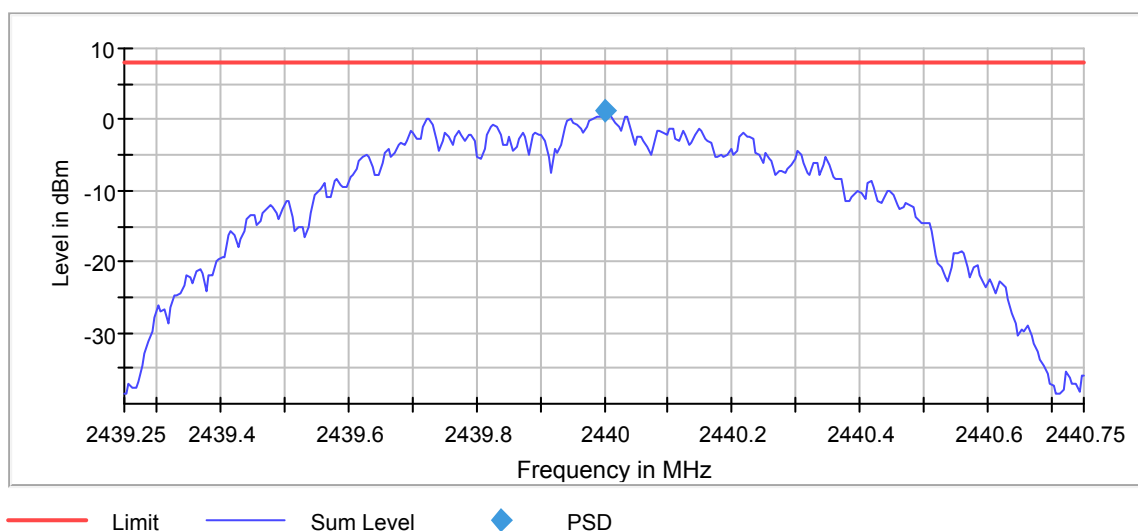
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2405.000000	2404.987500	1.548	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 5.5ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

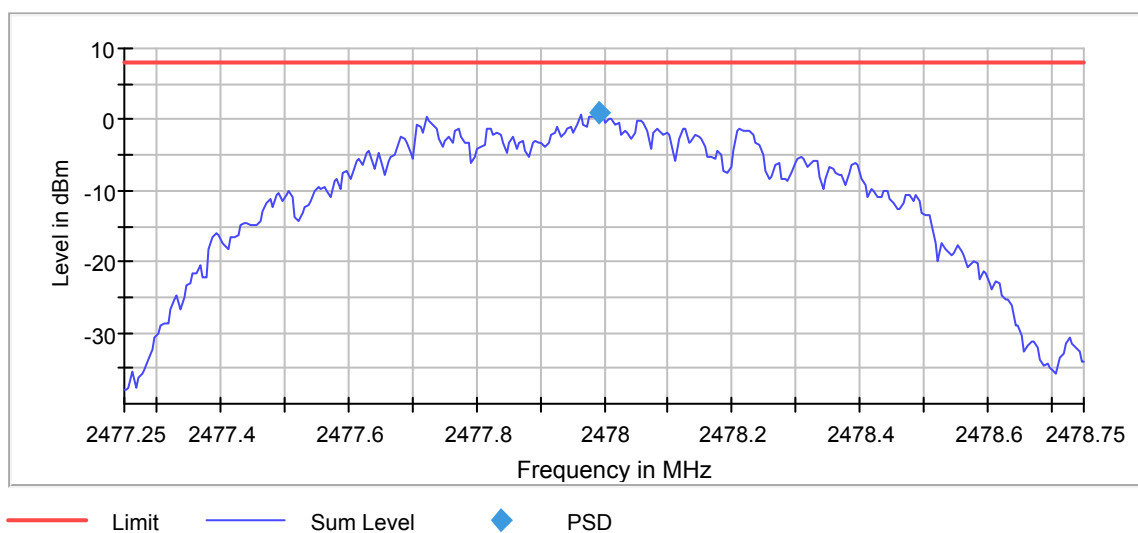
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.002500	1.307	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSMR 5.5ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

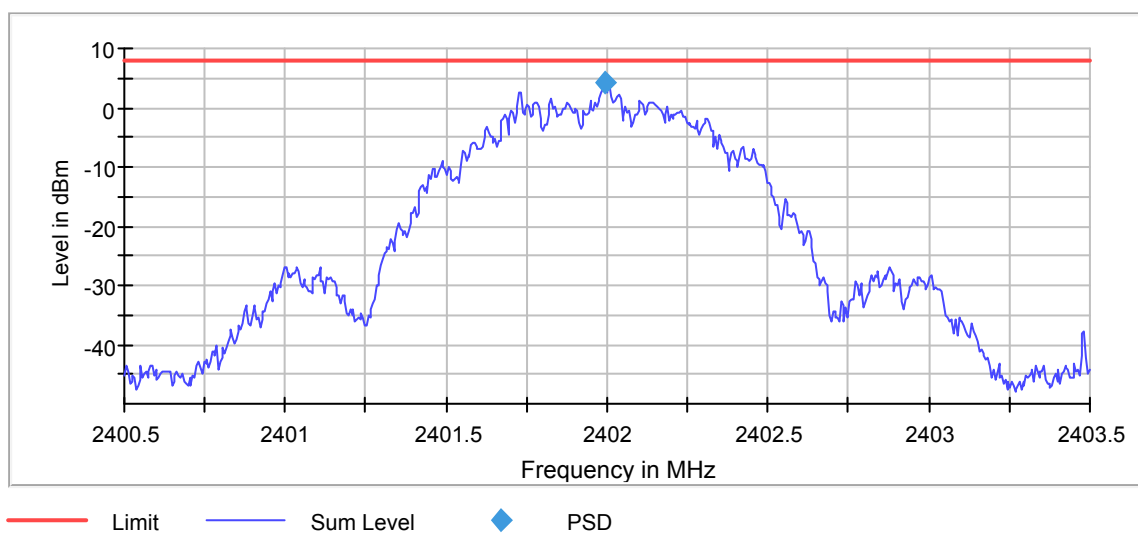
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2478.000000	2477.992500	1.028	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 16.5ms – 2402MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

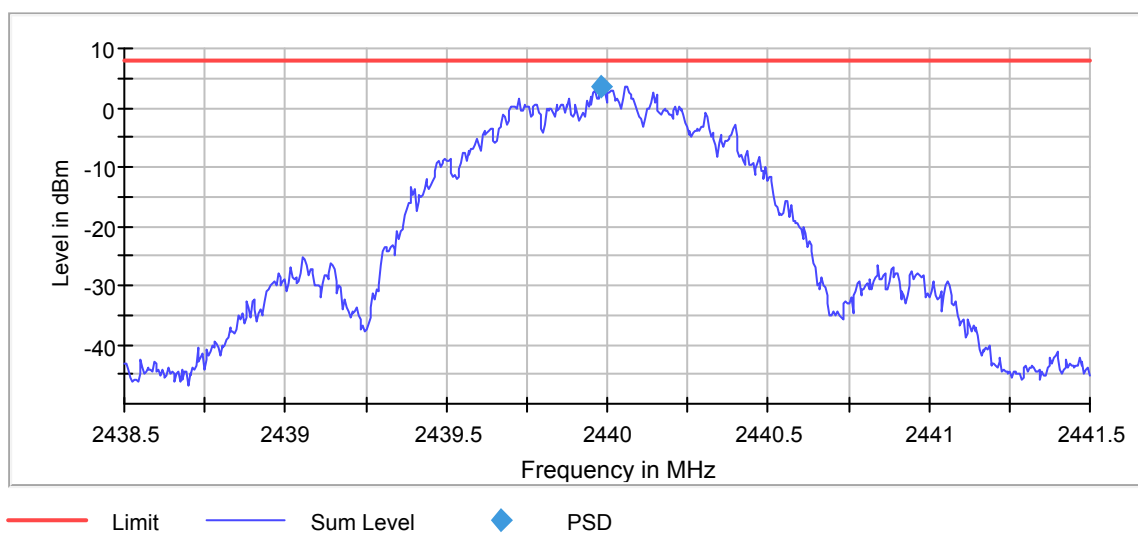
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.992500	4.319	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 16.5ms – 2440MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2439.982500	3.515	8.0	PASS



DATA PAGE	
MANUFACTURER	Horizon Hobby
EUT	Plano RF Module
MODEL NO.	Plano
TEST	Power Spectral Density
MODE	DSM2 16.5ms – 2478MHz, Antenna B
DATE TESTED	July 9, 2018
TEST PERFORMED BY	Tylar Jozefczyk
NOTES	

POWER SPECTRAL DENSITY

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2478.000000	2477.987500	4.974	8.0	PASS

