Measurement of RF Interference from an 802AWE Advanced Wireless Test Set Transceiver

For	Trilithic 9710 Park Davis Drive Indianapolis, IN 46235
P.O. Number	88027
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Test Personnel	Mark Longinotti
Specification	FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Section 15.247 for Digitally Modulated Intentional Radiators Operating within the band 2400-2483.5MHz FCC "Code of Federal Regulations" Title 47, Part 15, Subpart E, Section 15.407 for Intentional Radiators Operating within the 5GHz band FCC "Code of Federal Regulations" Title 47, Part15, Subpart 15B, Section 15.107 and 15.109 for Receivers Industry Canada RSS-247 Industry Canada RSS-GEN
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REVISION HISTORY

Revision	Date	Description
—	05/03/2016	Initial release

Measurement of RF Emissions from an 802AWE Advanced Wireless Test Set

1. INTRODUCTION

1.1 Scope of Tests

This document represents the results of the series of radio interference measurements performed on a Trilithic Advanced Wireless Test Set, Part No. 802AWE transceiver (hereinafter referred to as the EUT). The EUT contains a digitally modulated transceiver, FCC ID: XF6-RS9113DB. The transceiver was designed to transmit and receive in the 2400-2483.5 MHz and the 5GHz band using an Access Point Router 802.11n Antenna, Pulse Part Number: W3513. The gain of the W3513 antenna was 2.0dB in the 2400-2483.5MHz band and 2.0dB in the 5GHz band. The EUT was manufactured and submitted for testing by Trilithic located in Indianapolis, IN.

1.2 Purpose

This limited test series was performed to determine if the transceiver, FCC ID: XF6-RS9113DB when installed in the EUT, continues to comply with the following requirements:

- FCC "Code of Federal Regulations" Title 47, Part 15,Subpart C, Section 15.247 for Digitally Modulated Intentional Radiators Operating within the band 2400-2483.5MHz
- FCC "Code of Federal Regulations" Title 47, Part 15, Subpart E, Section 15.407 for Intentional Radiators Operating within the 5GHz band
- FCC “Code of Federal Regulations” Title 47, Part15,Subpart 15B, Section 15.107 and 15.109 for Receivers
- Industry Canada RSS-247
- Industry Canada RSS-GEN

Testing was performed in accordance with ANSI C63.10-2013.

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 Lab Code: 1786-01.

1.5 Laboratory Conditions

The temperature at the time of the test was 21C and the relative humidity was 19%.

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, Subparts B and C
- ANSI C63.10-2013, "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices"
- Federal Communications Commission Office of Engineering and Technology Laboratory Division, Guidance for Performing Compliance Measurements on Digital Transmission Systems Operating under

Section 15.247, January 7, 2016

- Industry Canada RSS-247, Issue 1,May 2015, “Spectrum Management and Telecommunications Radio Standards Specification, Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices”

- Industry Canada RSS-GEN, Issue 4, November 2014, “Spectrum Management and Telecommunications Radio Standards Specification, General Requirements for Compliance of Radio Apparatus”

3. EUT SETUP AND OPERATION

3.1 General Description

The EUT is a Trilithic Advanced Wireless Test Set transceiver, Part No. 802AWE. A block diagram of the EUT setup is shown as Figure 1 and Figure 2.

3.1.1 Power Input

The EUT is normally powered with 3.7VDC from 2 internal, rechargeable lithium ion batteries.

The EUT was submitted for testing with a battery charger, M/N: USB-TC-CE. The battery charger provided 5VDC to the EUT via a 1.95m long 2 wire power cable. The battery charger was powered with 115V, 60Hz AC power.

The EUT can transmit and receive while connected to the battery charger. However, per Trilithic personnel, the EUT would not be charging while in use. That would be considered an abnormal condition. Normally the EUT is used as a standalone unit running only on the internal batteries. For testing purposes, the EUT was connected to the charger.

3.1.2 Peripheral Equipment

The EUT was submitted for testing with no peripheral equipment.

3.1.3 Interconnect Cables

The following interconnect cables were submitted with the EUT:

Item	Description
Ethernet Cable	1.6m long Ethernet cable (unterminated)

Per Trilithic personnel, the EUT would not be connected to Ethernet while in use. That would be considered an abnormal condition. Normally the EUT is used as a standalone unit. For testing purposes, the Ethernet port of the EUT was loaded with an unterminated 1.6 m long Ethernet cable.

3.1.4 Grounding

The EUT was not grounded.

3.2 Software

For all tests the EUT had Firmware Version V16.02.01.107 loaded onto the device to provide correct load characteristics.

3.3 Operational Mode

The EUT was programmed to operate separately in each of the following modes:

FCC 15.247

- Transmit at 2412MHz (Channel 1), 802.11b, 11Mb/sec, power setting = 18

- Transmit at 2412MHz (Channel 1), 802.11g, 54Mb/sec, power setting = 13
- Transmit at 2412MHz (Channel 1), 802.11n, 65Mb/sec, power setting = 11
- Transmit at 2442MHz (Channel 7), 802.11b, 11Mb/sec, power setting = 18
- Transmit at 2442MHz (Channel 7), 802.11g, 54Mb/sec, power setting = 18
- Transmit at 2442MHz (Channel 7), 802.11n, 65Mb/sec, power setting = 18
- Transmit at 2462MHz (Channel 11), 802.11b, 11Mb/sec, power setting = 17
- Transmit at 2462MHz (Channel 11), 802.11g, 54Mb/sec, power setting = 12
- Transmit at 2462MHz (Channel 11), 802.11n, 72.2Mb/sec, power setting = 9
- Transmit at 2422MHz (Channel 3), 802.11n, MCS7 (40MHz bandwidth), power setting = 6
- Transmit at 2437MHz (Channel 6), 802.11n, MCS7 (40MHz bandwidth), power setting = 8
- Transmit at 2452MHz (Channel 9), 802.11n, MCS7 (40MHz bandwidth), power setting = 5

FCC 15.407

- Transmit at 5180MHz (Channel 36), 802.11a, 54Mb/sec, power setting = 12
- Transmit at 5180MHz (Channel 36), 802.11n, 65Mb/sec, power setting = 12
- Transmit at 5200MHz (Channel 40), 802.11a, 54Mb/sec, power setting = 12
- Transmit at 5200MHz (Channel 40), 802.11n, 65Mb/sec, power setting = 12
- Transmit at 5240MHz (Channel 48), 802.11a, 54Mb/sec, power setting = 12
- Transmit at 5240MHz (Channel 48), 802.11n, 65Mb/sec, power setting = 12
- Transmit at 5745MHz (Channel 149), 802.11a, 54Mb/sec, power setting = 12
- Transmit at 5745MHz (Channel 149), 802.11n, 65Mb/sec, power setting = 12
- Transmit at 5785MHz (Channel 157), 802.11a, 54Mb/sec, power setting = 12
- Transmit at 5785MHz (Channel 157), 802.11n, 65Mb/sec, power setting = 12
- Transmit at 5825MHz (Channel 165), 802.11a, 54Mb/sec, power setting = 12
- Transmit at 5825MHz (Channel 165), 802.11n, 65Mb/sec, power setting = 12

3.4 EUT Modifications

In order to meet the case spurious radiated emissions below 1GHz with the EUT transmitting while connected to the battery charger, M/N: USB-TC-CE, and with an Ethernet cable in the Ethernet port of the EUT, the following modifications were made:

1. Copper sprayed the inside of both the front and back of the plastic case.
2. Added a tubular ferrite bead (Laird part no. 28B0375-300) to WiFi antenna cable. Cable makes two loops thru bead.
3. Attached a thin metal film coated EMI lens (surface resistivity 14+\-4 ohms /square) w/conductive adhesive to LCD frame window.
4. Attached an 8-finger length piece of finger stock (Tech-Etch part no. 187W35 w/adhesive) to the inside front half of the case. Locate over the molded-in part number “2131587002” with the adhesive side nearest the LCD opening in the plastic.
5. Added a solder lug (Keystone Electronics part no. 4003) to the back side of the LCD assembly. Screwed down with one of the LCD Assy. mounting screws and soldered to the LCD PCB ground around one of the LCD frame tabs passing thru the PCB.
6. A Fair Rite ferrite bead, part no. 04311642819 was placed on the power cable between the EUT and the battery charger, at the EUT end of the cable.
7. A Fair Rite ferrite bead, part no. 0475164281, was placed on the power cable between the EUT and the battery charger, at the charger end of the cable.

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. All equipment was calibrated per the instruction manuals supplied by the manufacturer.

Conducted and radiated emission tests were performed with an EMI receiver utilizes the bandwidths and detectors specified by the FCC.

4.3 Calibration Traceability

Test equipment is maintained and calibrated on a regular basis with a calibration interval no 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.

The measurement uncertainty for these tests is presented below:

Conducted Emissions Measurements		
Combined Standard Uncertainty	1.06	-1.06
Expanded Uncertainty (95% confidence)	2.12	-2.12
Radiated Emissions Measurements		
Combined Standard Uncertainty	2.09	-2.09
Expanded Uncertainty (95% confidence)	4.19	-4.19

5. TEST PROCEDURES

5.1 Receiver

5.1.1 Requirements

Per the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart B, Section 15.101(b), receivers operating above 960MHz are exempt from complying with the technical provisions of part 15.

Per the Industry Canada RSS-Gen, only radiocommunication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements. All other receivers are exempted from any Industry Canada certification, testing, labeling and reporting requirements.

5.2 Transmitter

5.2.1 FCC Part 15, Subpart C, Section 247

5.2.1.1 Maximum Average Output Power

5.2.1.1.1 Requirements

Per section 15.247(b)(3), for systems using digital modulation the maximum peak 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).

5.2.1.1.2 Procedures

Method AVGSA-1

The output of the EUT was connected to the spectrum analyzer through 30 dB of attenuation.

a) Set span to at least 1.5 times the OBW.
b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
c) Set VBW ≥ 3 x RBW.
d) Number of points in sweep ≥ 2 x span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
e) Sweep time = auto.
f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum. The maximum meter reading was recorded.

5.2.1.1.3 Results

The tabular results are presented on pages 25 and 26 . Plots of the individual power measurements are shown on pages 27 through 38. The maximum average conducted output power from the transmitter was 0.059W (17.69 dBm) which is below the 1 Watt limit. The maximum EIRP from the transmitter was 0.093W (19.69 dBm) which is below the 4 Watt limit.

5.2.1.2 Radiated Spurious Emissions Measurements

5.2.1.2.1 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

5.2.1.2.2 Procedures

Radiated measurements were performed in a 32ft. x 20ft. x 14ft. high shielded enclosure. 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 26.5GHz was investigated using a peak detector function.

The final open field emission tests were then manually performed over the frequency range of 30MHz to 26.5GHz.

1) 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 EUT was placed on an 80cm high non-conductive stand. 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 EUT was placed on a 1.5m high non-conductive stand. 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 axis 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 re-measured 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. These readings must be no greater than the limits specified in 15.209(a).

5.2.1.2.3 Results

Transmit at 2412MHz (Ch. 1)

Preliminary radiated emissions plots are shown on pages 39 through 62. Final radiated emissions data are

presented on data pages 63 through 68. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Transmit at 2442MHz (Ch. 7)

Preliminary radiated emissions plots are shown on pages 69 through 92. Final radiated emissions data are presented on data pages 93 through 98. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Transmit at 2462MHz (Ch. 11)

Preliminary radiated emissions plots are shown on pages 99 through 122. Final radiated emissions data are presented on data pages 123 through 128. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Transmit at 2422MHz (Ch. 3), 40MHz bandwidth

Preliminary radiated emissions plots are shown on pages 129 through 136. Final radiated emissions data are presented on data pages 137 and 138. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Transmit at 2437MHz (Ch. 6), 40MHz bandwidth

Preliminary radiated emissions plots are shown on pages 139 through 146. Final radiated emissions data are presented on data pages 147 and 148. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Transmit at 2452MHz (Ch. 9), 40MHz bandwidth

Preliminary radiated emissions plots are shown on pages 149 through 156. Final radiated emissions data are presented on data pages 157 and 158. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Photographs of the test configuration which yielded the highest, or worst case, radiated emission levels are shown on Figures 3 through 5.

5.2.1.3 High Band Edge Compliance

5.2.1.3.1 Requirements

Per section 15.247(d), the radiated emissions which fall in the restricted band beginning at 2483.5 MHz must meet the general limits of 15.209(a).

5.2.1.3.2 Procedures

1) The EUT was set to transmit continuously at the channel closest to the high band-edge.
2) A double ridged waveguide was placed 3 meters away from the EUT. The antenna was connected to the input of a spectrum analyzer.
3) The center frequency of the analyzer was set to the high band edge (2483.5MHz)
4) The resolution bandwidth was set to 1MHz.
5) To ensure that the maximum or worst case emission level was measured, the following steps were taken:

    a. The EUT was rotated so that all of its sides were exposed to the receiving antenna.
    b. Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
    c. The measuring antenna was raised and lowered from 1 to 4 meters for each antenna

polarization to maximize the readings.

6) The highest measured peak reading was recorded.
7) The highest measured average reading was recorded.

5.2.1.3.3 Results

Pages 159 through 166 show the band-edge compliance results. As can be seen from the data, the radiated emissions at the high end band edge are within the general limits.

5.2.2 FCC Part 15, Subpart E, Section 407

5.2.2.1 Average Output Power

5.2.2.1.1 Requirements

Per section 15.407(a)(1)(i), the maximum conducted output power over the frequency band of operation shall not exceed 1.0W (30dBm) provided the maximum antenna gain does not exceed 6dBi. Since the limit allows for a 6dBi antenna gain, the maximum EIRP can be increased by 6dB to 4 Watt (36dBm).

Per section 15.407(3), the maximum conducted output power over the frequency band of operation shall not exceed 1.0W (30dBm) provided the maximum antenna gain does not exceed 6dBi. Since the limit allows for a 6dBi antenna gain, the maximum EIRP can be increased by 6dB to 4 Watt (36dBm).

5.2.2.1.2 Procedures

Method AVGSA-1

The output of the EUT was connected to the spectrum analyzer through 30 dB of attenuation.

a) Set span to at least 1.5 times the OBW.
b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
c) Set VBW ≥ 3 x RBW.
d) Number of points in sweep ≥ 2 x span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
e) Sweep time = auto.
f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
i) Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum. The maximum meter reading was recorded.

5.2.2.1.3 Results

The tabular results are presented on pages 168 and 169. Plots of the individual power measurements are shown on pages 170 through 181. The maximum average conducted output power from the transmitter was 0.0114W (10.57 dBm) which is below the 1 Watt limit. The maximum EIRP from the transmitter was 0.0181W (12.57 dBm) which is below the 4 Watt limit.

5.2.2.2 Radiated Spurious Emissions Measurements

5.2.2.2.1 Requirements

Per 15.407(b)(6), unwanted emissions below 1GHz must comply with the general field strength limits set forth in §15.209. In addition, per §15.407(b)(7), 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 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

5.2.2.2.2 Procedures

Radiated measurements were performed in a 32ft. x 20ft. x 14ft. high shielded enclosure. 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.

Radiated Emissions 30MHz to 1GHz:

Since a quasi-peak detector requires a long integration times, it is not practical to automatically sweep through the quasi-peak levels. Therefore, radiated emissions from the EUT were first scanned using a peak detector and automatically plotted. The frequencies where significant emission levels were noted were then re-measured using the quasi-peak detector.

The EUT was placed on an 80cm high non-conductive stand. The broadband measuring antenna was positioned at a 3 meter distance from the EUT. The frequency range from 30MHz to 1GHz was investigated using a peak detector function with the bilog antenna at several heights, horizontal and vertical polarization, and with several different orientations of the EUT with respect to the antenna. The maximum levels for each antenna polarization were plotted. The resultant field strength (FS) is a summation in decibels (dB) of the receiver meter reading (MTR), the antenna correction factor (AF), and the cable loss factor (CF). If an external pre-amplifier is used, the total is reduced by its gain (-PA). If a distance correction (DC) is required, it is added to the total.

Formula 1: FS (dBuV/m) = MTR (dBuV) + AF (dB/m) + CF (dB) + (- PA (dB)) + DC (dB)

To convert the Field Strength dBuV/m term to uV/m, the dBuV/m is first divided by 20. The Base 10 AntiLog is taken of this quotient. The result is the Field Strength value in uV/m terms.

Formula 2: FS (uV/m) = AntiLog [(FS (dBuV/m))/20]

Final radiated emissions were performed on all significant broadband and narrowband emissions found in the preliminary sweeps using the following methods:

1) Measurements from 30MHz to 1GHz were made using a quasi-peak detector and a broadband bilog antenna.

2) To ensure that maximum or worst case, emission levels were measured, the following steps were taken:

   a) The EUT was rotated so that all of its sides were exposed to the receiving antenna.

   b) Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.

   c) The measuring antenna was raised and lowered from 1 to 4 meters for each antenna polarization to maximize the readings.

Radiated Emissions in Restricted Bands 1GHz to 40GHz:
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 1GHz to 40GHz was investigated using a peak detector function.

The final open field emission tests were then manually performed over the frequency range of 1GHz to 40GHz.

1) For all emissions in the restricted bands, the following procedure was used:

   a) The field strengths of all emissions above 1 GHz were measured using a double-ridged waveguide antenna. The EUT was placed on a 1.5m high non-conductive stand. 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.

   b) 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 axis to ensure the maximum readings were recorded for the EUT.

   c) 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).

   d) 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. These readings must be no greater than the limits specified in 15.209(a).

5.2.2.2.3 Results

Transmit at 5180MHz (Ch. 36)

Preliminary radiated emissions plots are shown on pages 182 through 201. Final radiated emissions data are presented on data pages 202 through 207. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Transmit at 5200MHz (Ch. 40)

Preliminary radiated emissions plots are shown on pages 208 through 227. Final radiated emissions data are presented on data pages 228 through 233. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Transmit at 5240MHz (Ch. 48)

Preliminary radiated emissions plots are shown on pages 234 through 253. Final radiated emissions data are presented on data pages 254 through 259. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Transmit at 5745MHz (Ch. 149)

Preliminary radiated emissions plots are shown on pages 260 through 279. Final radiated emissions data are presented on data pages 280 through 285. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Transmit at 5785MHz (Ch. 157)

Preliminary radiated emissions plots are shown on pages 286 through 305. Final radiated emissions data are presented on data pages 306 through 311. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Transmit at 5825MHz (Ch. 165)

Preliminary radiated emissions plots are shown on pages 312 through 331. Final radiated emissions data are presented on data pages 332 through 337. As can be seen from the data, all emissions measured from the EUT were within the specification limits.

Photographs of the test configuration which yielded the highest, or worst case, radiated emission levels are shown on Figures 3 through 6.

5.2.2.3 Low Band Edge Compliance

5.2.2.3.1 Requirements

Per section 15.407(b)(7), the radiated emissions which fall in the restricted band ending at 5150MHz must meet the general limits of 15.209(a).

5.2.2.3.2 Procedures

6) The EUT was set to transmit continuously at the channel closest to the low band-edge.
7) A double ridged waveguide was placed 3 meters away from the EUT. The antenna was connected to the input of a spectrum analyzer.
8) The center frequency of the analyzer was set to the low band edge (5150MHz)
9) The resolution bandwidth was set to 1MHz.
10) To ensure that the maximum or worst case emission level was measured, the following steps were taken:

    d. The EUT was rotated so that all of its sides were exposed to the receiving antenna.
    e. Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
    f. The measuring antenna was raised and lowered from 1 to 4 meters for each antenna polarization to maximize the readings.

8) The highest measured peak reading was recorded.
9) The highest measured average reading was recorded.

5.2.2.3.3 Results

Pages 338 through 341 show the band-edge compliance results. As can be seen from the data, the radiated emissions at the low end band edge are within the general limits.

6. CONCLUSIONS

It was determined, with a limited series of emissions tests, that the digital modulation transceiver, FCC ID: XF6-RS9113DB when installed in the Trilithic Advanced Wireless Test Set, Part No. 802AWE, continues to fully meet the conducted and radiated emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart B, Sections 15.107 and 15.109 for receivers, the conducted and radiated emissions of the FCC “Code of Federal Regulations” Title 47, Part 15, Subpart C, Sections 15.207 and 15.247 for Intentional Radiators Operating within the 2400-2483.5 MHz, and the conducted and radiated emissions requirements of the FCC “Code of Federal Regulations” Title 47, Part 15, Subpart C, Sections 15.207 and 15.407 for Intentional Radiators Operating within the 5GHz band, when tested per ANSI C63.4-2014 when the modification listed in section 3.4 were installed.

It was also determined, with a limited series of emissions tests, that the digital modulation transceiver, FCC ID: XF6-RS9113DB when installed in the Trilithic Advanced Wireless Test Set, Part No. 802AWE, continues to fully meet the conducted and radiated RF emission requirements of the Industry Canada Radio Standards Specification, RSS-Gen, Section 8.8 and Section 7.1.2 for receivers and the Industry Canada Radio Standards Specification RSS-Gen Section 8.8 and RSS-247 for transmitters operating in the 2400MHz-2483.5MHz band and the 5GHz band, w when tested per ANSI C63.4-2014 when the modification listed in section 3.4 were installed.

7. 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.

8. ENDORSEMENT DISCLAIMER

This report must not be used to claim product certification, approval, or endorsement by A2LA, 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	3/2/2016	3/2/2017
APW4	PREAMPLIFIER	PLANAR	PE2-36-2D540G-5R0-10	PL3043/0651	26.5GHZ-40GHZ	3/2/2016	3/2/2017
APW9	PREAMPLIFIER	PLANAR	PE2-35-120-5R0-10-120-SFF	PL8527	1-20GHz	3/2/2016	3/2/2017
CDY0	WORKSTATION	ELITE	WORKSTATION		WINDOWS 7	N/A	
GRE0	SIGNAL GENERATOR	AGILENT TECHNOLOGIES	E4438C	MY42083127	250KHZ-6GHZ	2/25/2016	2/25/2017
NHG0	STANDARD GAIN HORN ANTENNA	NARDA	638	---	18-26.5GHZ	NOTE 1	
NHH1	STANDARD GAIN HORN ANTENNA	NARDA	V637	---	26.5-40GHZ	NOTE 1	
NTA2	BILOG ANTENNA	TESEQ	6112D	28040	25-1000MHz	10/27/2015	10/27/2016
NWQ2	DOUBLE RIDGED WAVEGUIDE ANTENNA	ETS LINDGREN	3117	66659	1GHZ-18GHZ	3/2/2016	3/2/2018
RAKG	RF SECTION	HEWLETT PACKARD	85462A	3549A00284	0.009-6500MHZ	2/22/2016	2/22/2017
RAKH	RF FILTER SECTION	HEWLETT PACKARD	85460A	3448A00324	---	2/22/2016	2/22/2017
RBB0	EMI TEST RECEIVER 20HZ TO 40 GHZ.	ROHDE & SCHWARZ	ESIB40	100250	20 HZ TO 40GHZ	2/16/2016	2/16/2017
RBD1	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESU40	100009	20Hz-40GHz	2/10/2016	2/10/2017
RBE1	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESU26	100096	20Hz-26GHz	2/25/2016	2/25/2017
SES0	24VDC POWER SUPPLY	P-TRANS	FS-32024-1M	001	18-27VDC	NOTE 1	
T1EJ	10DB 25W ATTENUATOR	WEINSCHEL	46-10-34	CD6790	DC-18GHZ	6/10/2015	6/10/2016
T2DG	20DB, 25W ATTENUATOR	WEINSCHEL	46-20-34	BN1038	DC-18GHZ	1/5/2016	1/5/2018
XOA2	WAVE-TO-COAX ADAPTER	HEWLETT PACKARD	R281B	01138	26.5-65GHZ	NOTE 1	
XOB2	ADAPTER	HEWLETT PACKARD	K281C,012	09407	18-26.5GHZ	NOTE 1	
XPQ4	HIGH PASS FILTER	K&L MICROWAVE	11SH10-4800/X20000-O/O	1	4.8-20GHZ	9/22/2015	9/22/2016
XPQ5	FILTER	K&L MICROWAVE	11SH10-9000/U2000-O/O	1	5000-5800 MHZ	9/22/2015	9/22/2016

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.

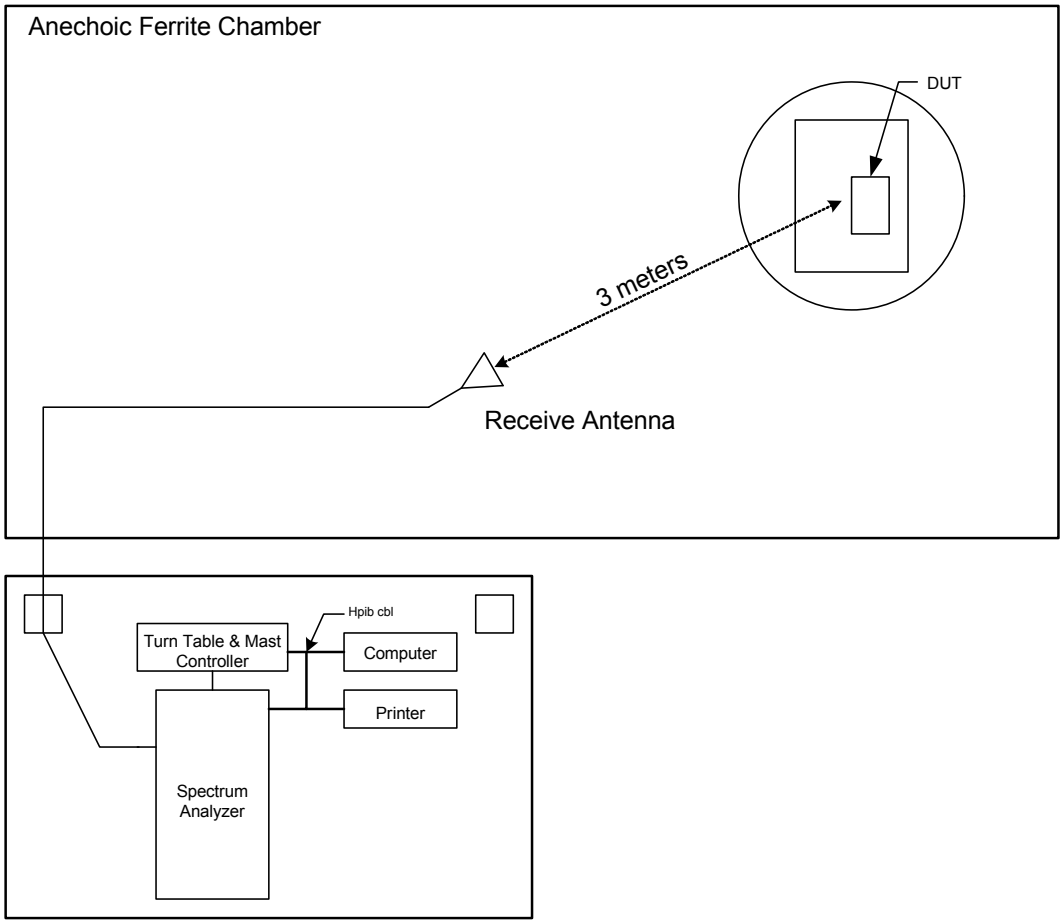


FIGURE 1 BLOCKDIAGRAM OF TEST SETUP

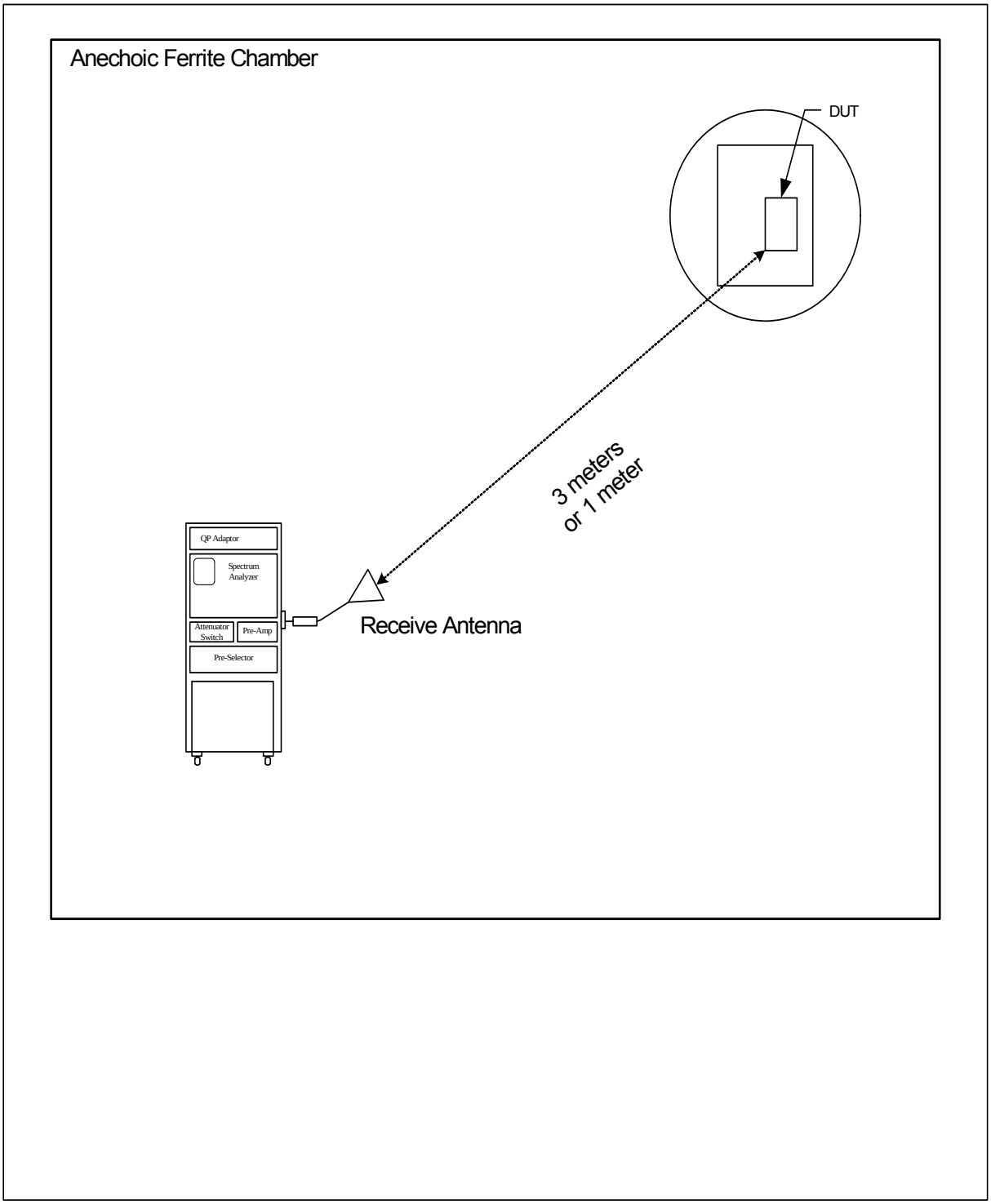


Figure 2: BLOCK DIAGRAM OF TEST SETUP FOR RADIATED EMISSIONS ABOVE 18GHZ

Figure 3

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

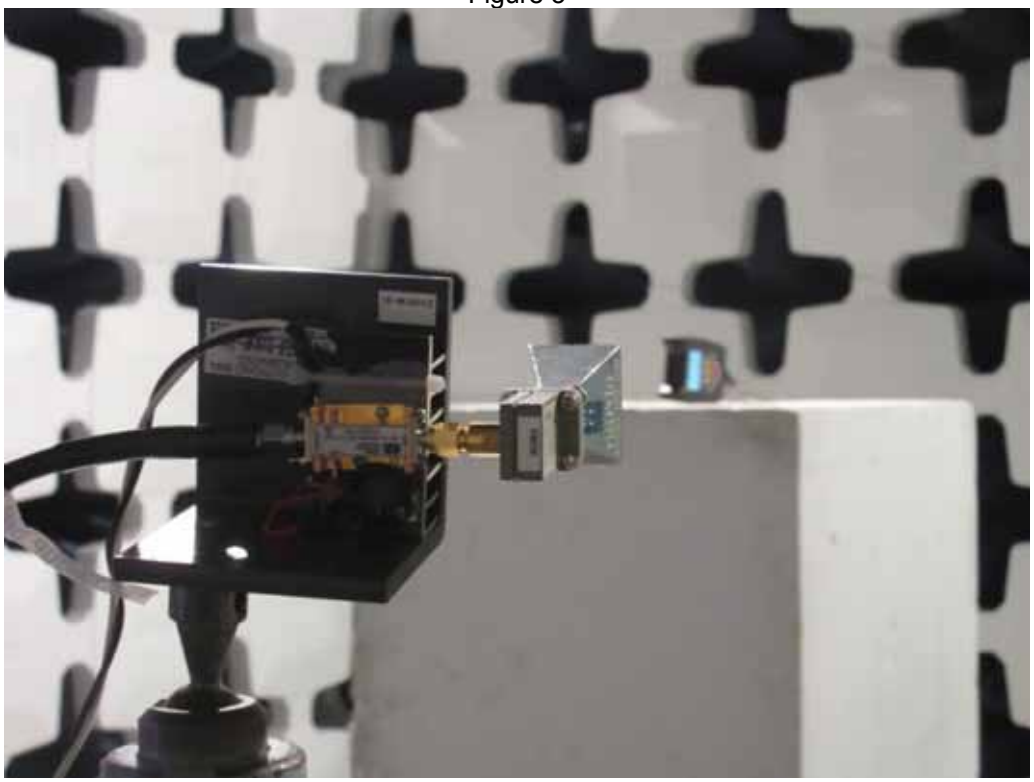
Test Setup for Radiated Emissions – 30MHz to 1GHz, Vertical Polarization

Figure 4

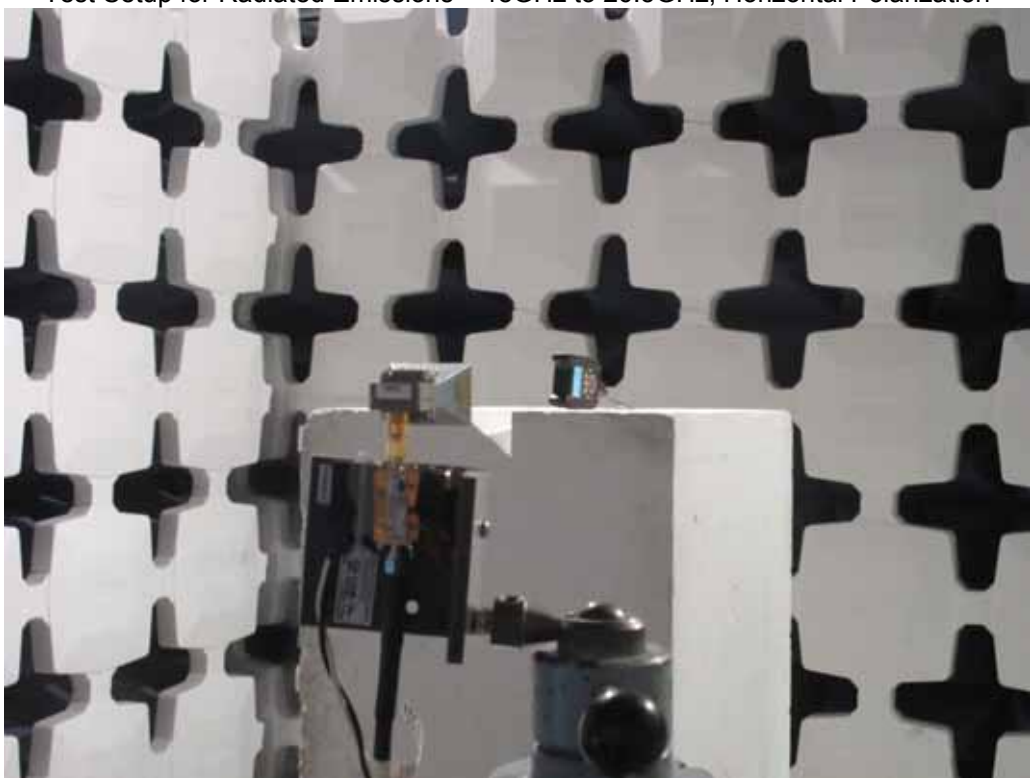
Test Setup for Radiated Emissions – 1GHz to 18GHz, Horizontal Polarization

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

Figure 5



Test Setup for Radiated Emissions – 18GHz to 26.5GHz, Horizontal Polarization



Test Setup for Radiated Emissions – 18GHz to 26.5GHz, Vertical Polarization

Figure 6

Test Setup for Radiated Emissions – 26.5GHz to 40GHz, Horizontal Polarization

Test Setup for Radiated Emissions – 26.5GHz to 40GHz, Vertical Polarization

FCC 15.247 DATA

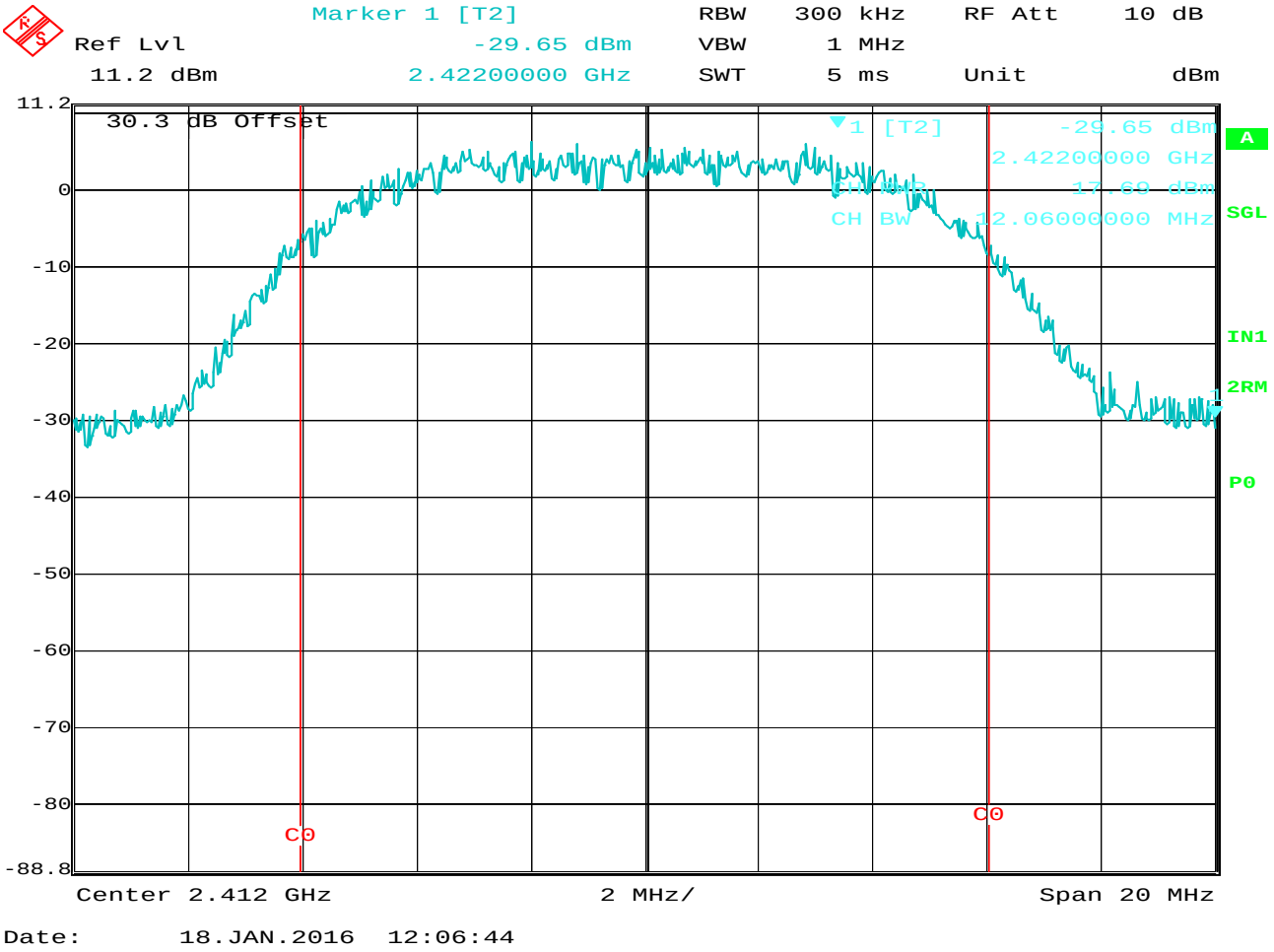
Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Maximum Conducted Average Output Power
Mode : See Below
Notes : Antenna Port Conducted Emissions Test

Frequency MHz	Channel No.	802.11 protocol	Data Rate Mb/sec	Bandwidth MHz	Power Setting	Maximum Conducted Average Output Power Reading dBm	Maximum Conducted Average Output Power Limit dBm
2412	1	b	11	20	18	17.69	30.0
2412	1	g	54	20	13	12.17	30.0
2412	1	n	65	20	11	10.45	30.0
2442	7	b	11	20	18	17.69	30.0
2442	7	g	54	20	18	17.09	30.0
2442	7	n	65	20	18	17.34	30.0
2462	11	b	11	20	17	16.1	30.0
2462	11	g	54	20	12	10.76	30.0
2462	11	n	65	20	9	7.38	30.0
2422	3	n	MCS7	40	6	5.22	30.0
2437	6	n	MCS7	40	8	7.09	30.0
2452	9	n	MCS7	40	5	2.72	30.0

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : EIRP
Mode : See Below
Notes :

Frequency MHz	Channel No.	802.11 protocol	Data Rate Mb/sec	Bandwidth MHz	Power Setting	Average Power Reading dBm	Antenna Gain dB	Average EIRP dBm	Average EIRP Limit dBm
2412	1	b	11	20	18	17.69	2.0	19.7	36.0
2412	1	g	54	20	13	12.17	2.0	14.2	36.0
2412	1	n	65	20	11	10.45	2.0	12.5	36.0
2442	7	b	11	20	18	17.69	2.0	19.7	36.0
2442	7	g	54	20	18	17.09	2.0	19.1	36.0
2442	7	n	65	20	18	17.34	2.0	12.5	36.0
2462	11	b	11	20	17	16.1	2.0	18.1	36.0
2462	11	g	54	20	12	10.76	2.0	12.8	36.0
2462	11	n	65	20	9	7.38	2.0	9.4	36.0
2422	3	n	MCS7	40	6	5.22	2.0	7.2	36.0
2437	6	n	MCS7	40	8	7.09	2.0	9.1	36.0
2452	9	n	MCS7	40	5	2.72	2.0	4.7	36.0

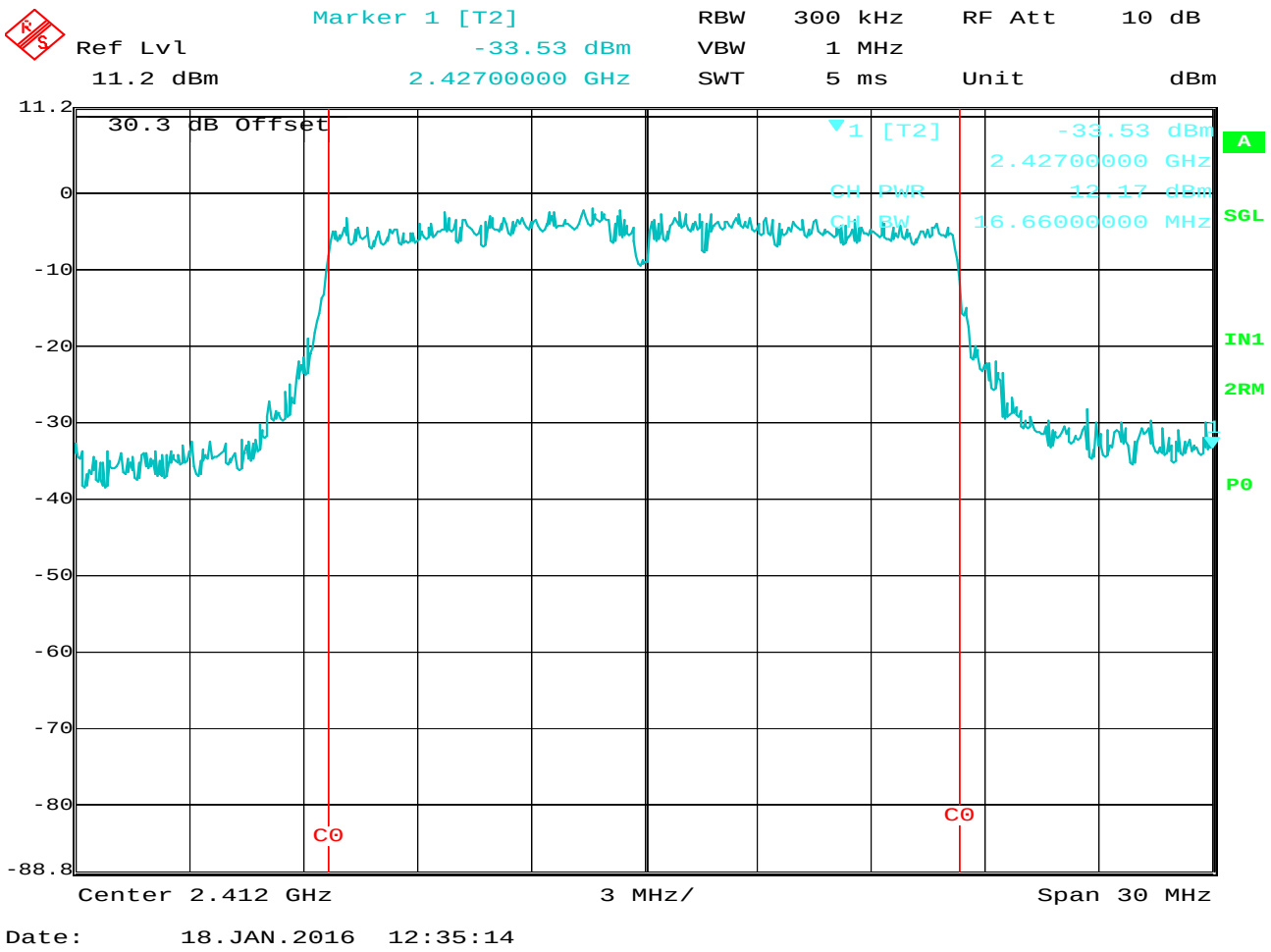
Average EIRP (dBm) = Average Power Reading (dBm) + Antenna Gain (dB)



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2412MHz (Ch. 1), 802.11b, 11Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 18
	:	Average Output Power = 17.69dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

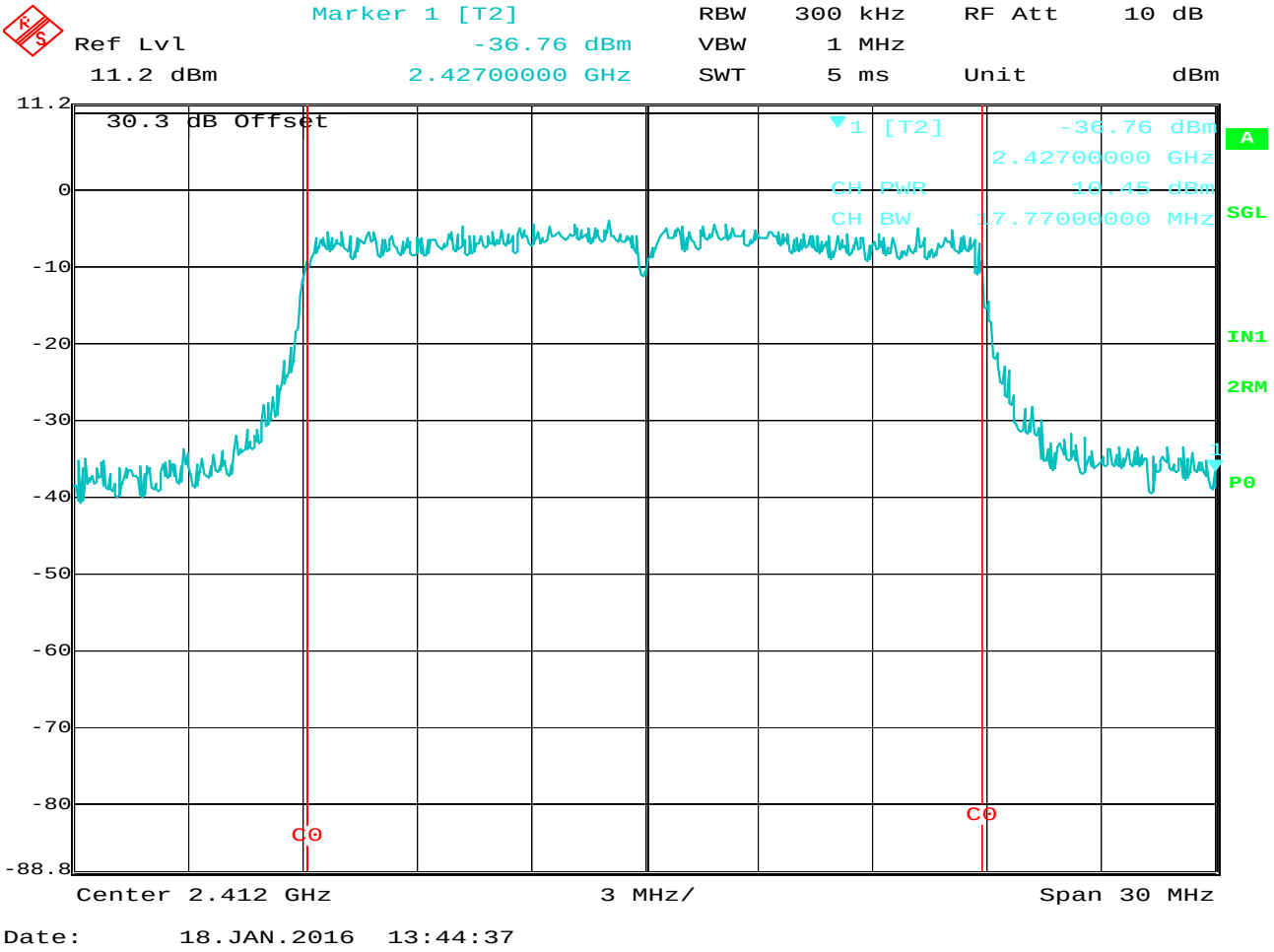
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2412MHz (Ch. 1), 802.11g, 54Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 13
	:	Average Output Power = 12.17dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

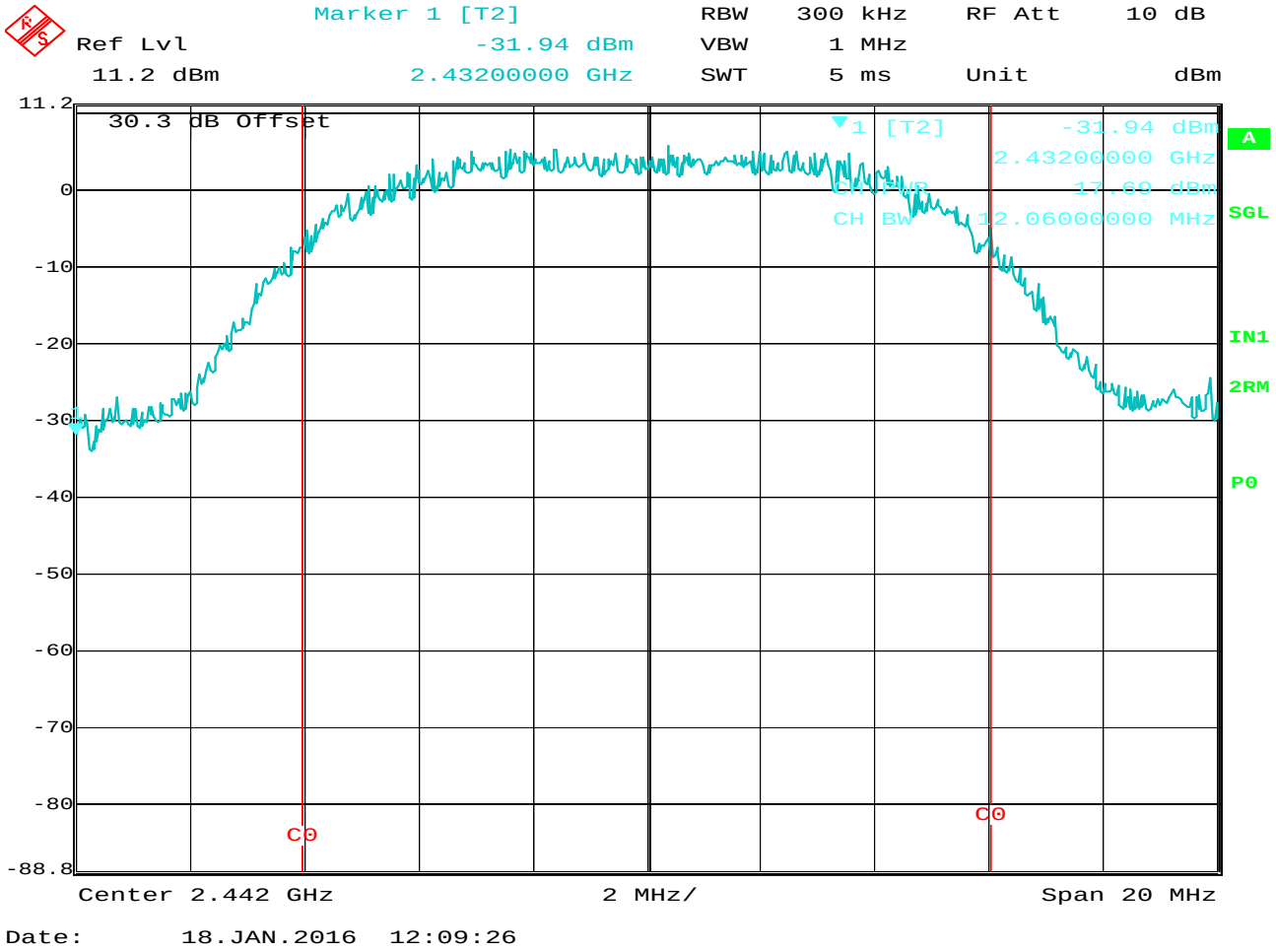
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2412MHz (Ch. 1), 802.11n, 65Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 11
	:	Average Output Power = 10.45dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

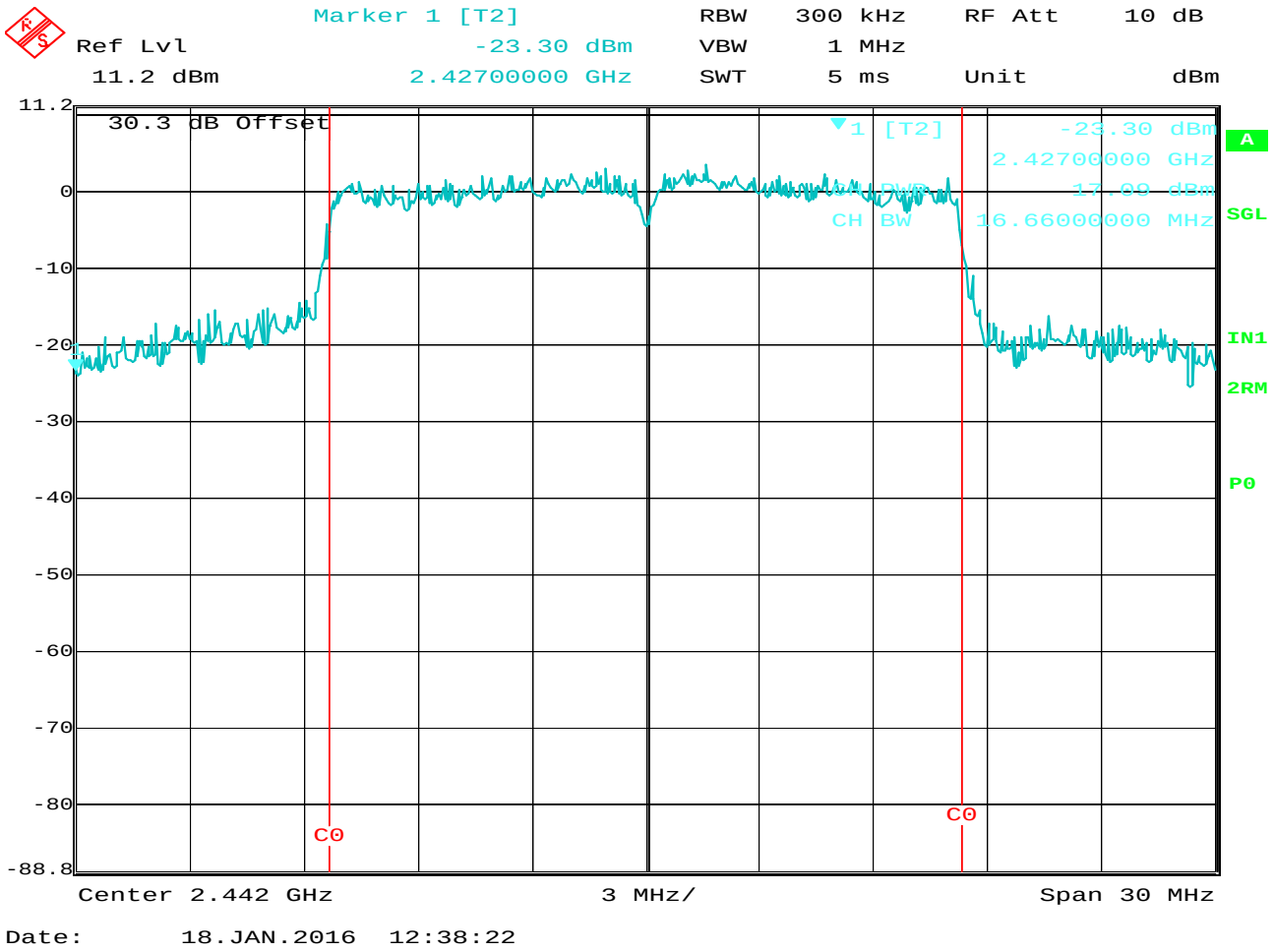
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2442MHz (Ch. 7), 802.11b, 11Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 18
	:	Average Output Power = 17.69dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

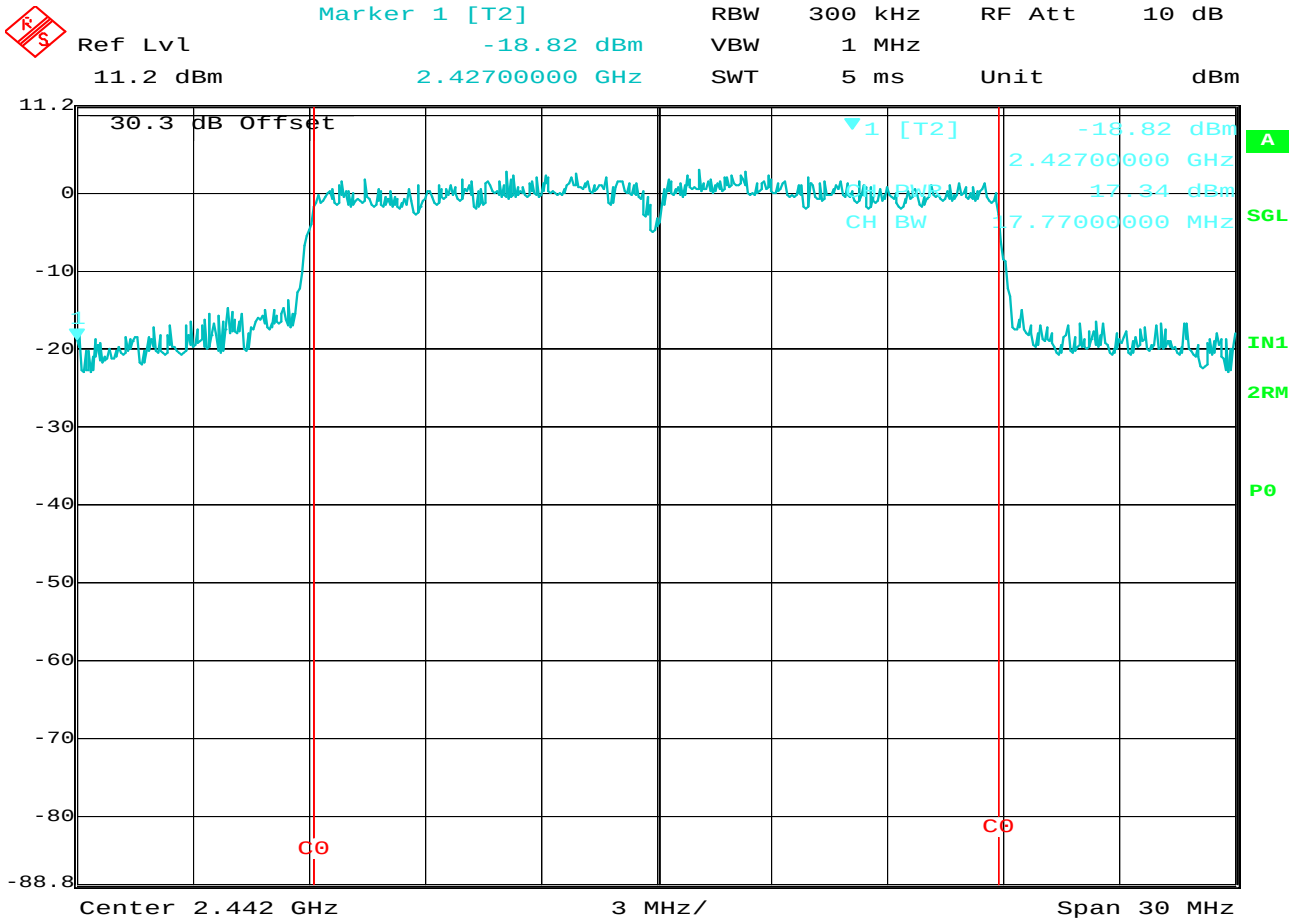
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2442MHz (Ch. 7), 802.11g, 54Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 18
	:	Average Output Power = 17.09dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

NOTES

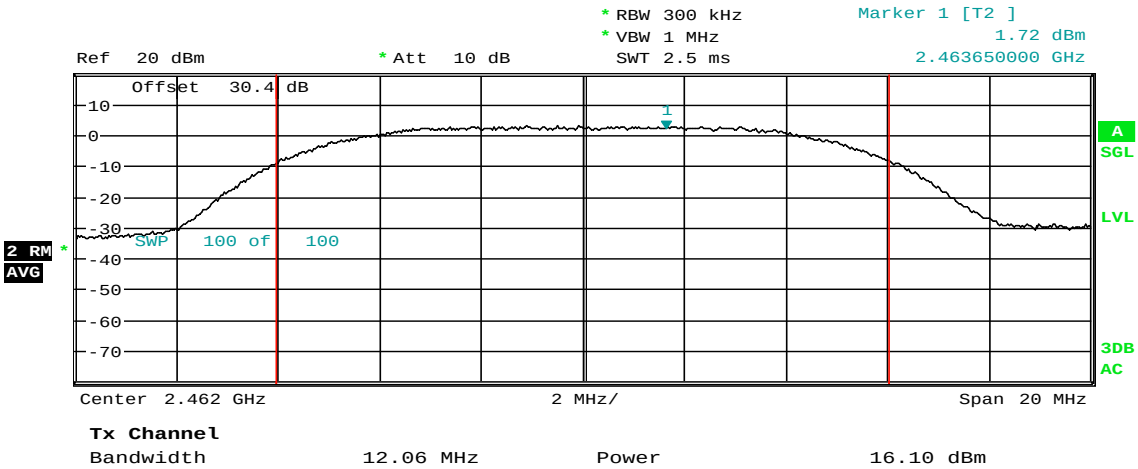


Date: 18.JAN.2016 13:47:45

FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2442MHz (Ch. 7), 802.11n, 65Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 18
	:	Average Output Power = 17.34dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

NOTES

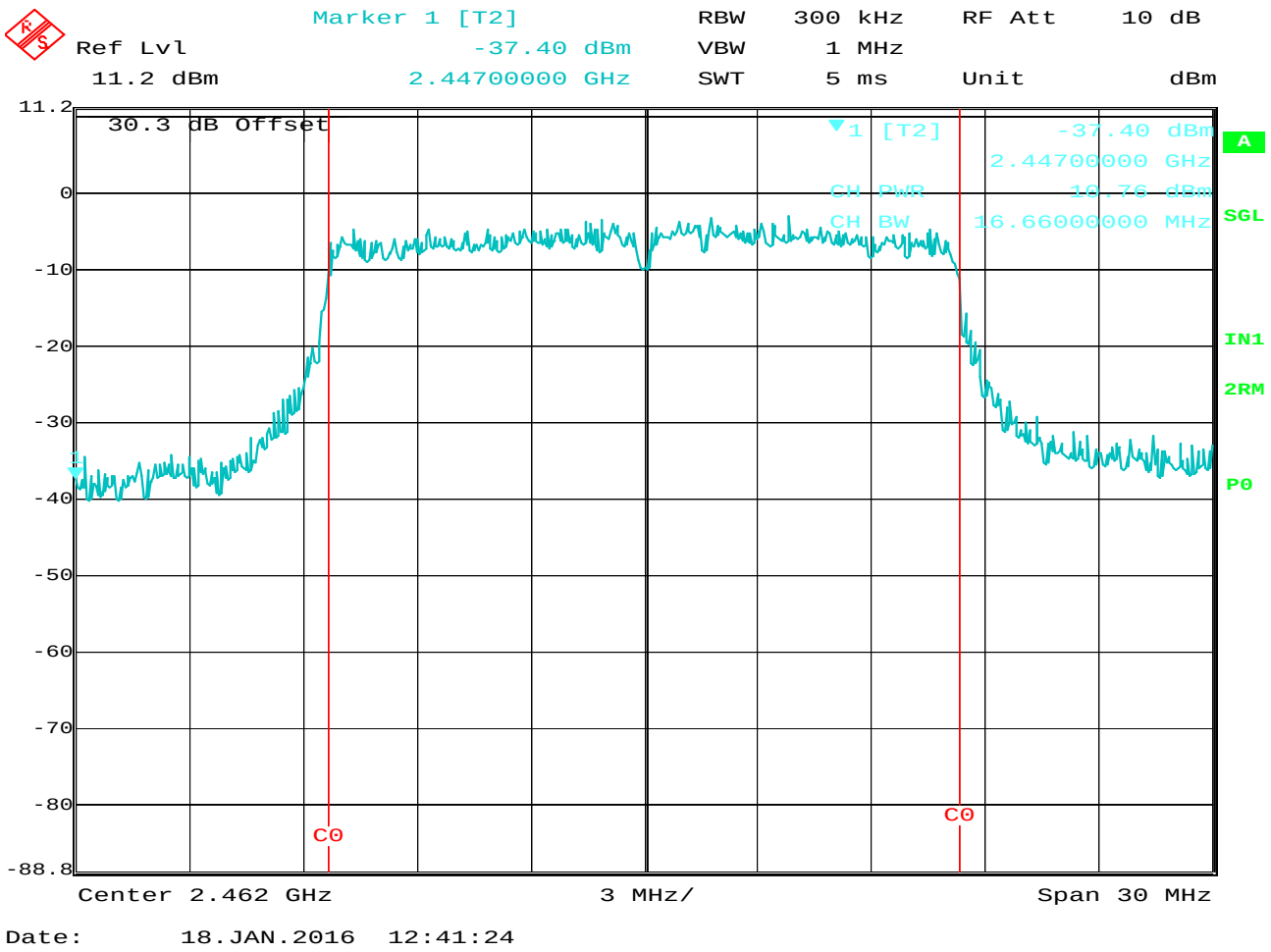


Date: 19.APR.2003 22:27:40

FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2462MHz (Ch. 11), 802.11b, 11Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 17
	:	Average Output Power = 16.10dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

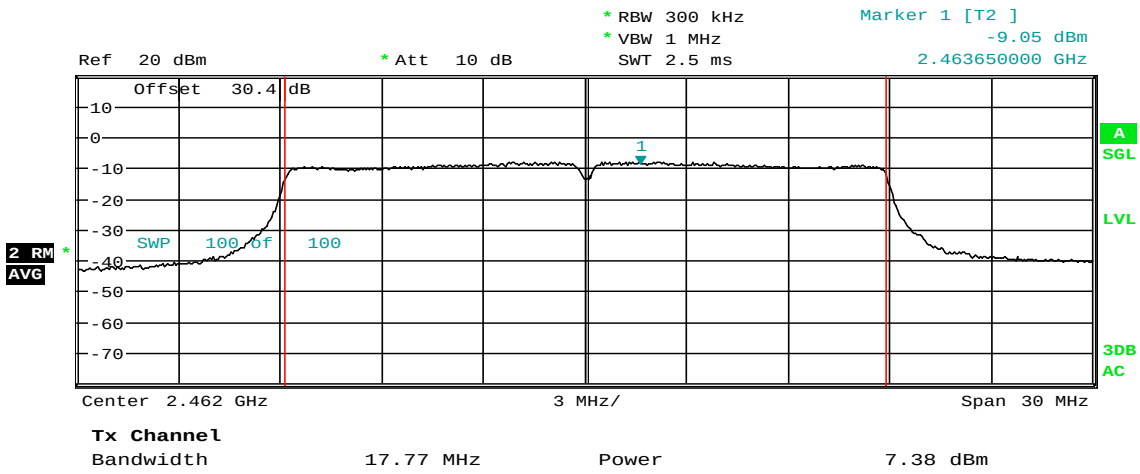
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2462MHz (Ch. 11), 802.11g, 54Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 10.76dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

NOTES

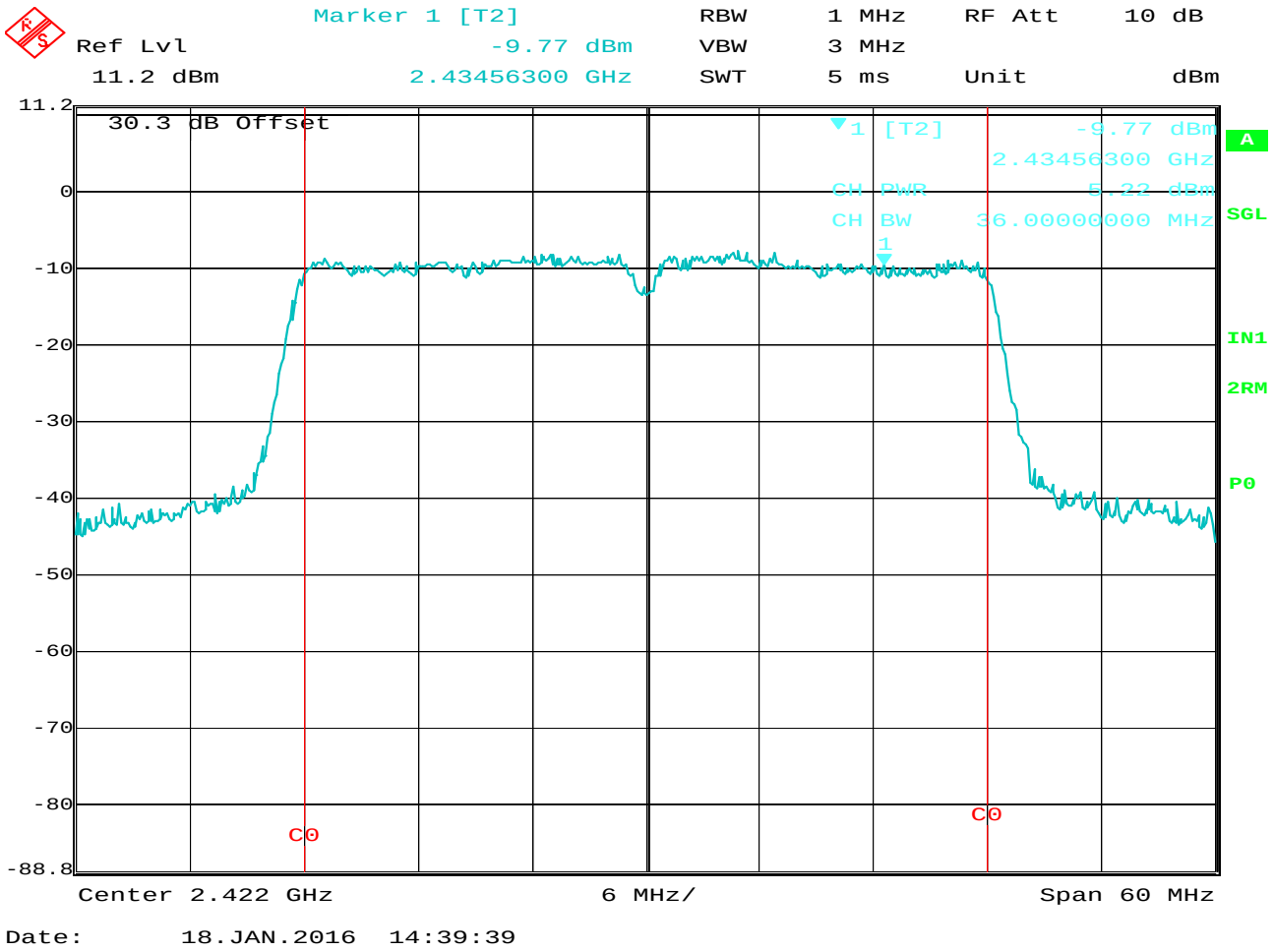


Date: 19.APR.2003 22:36:21

FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2462MHz (Ch. 11), 802.11n, 65Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 9
	:	Average Output Power = 7.38dBm
EQUIPMENT USED	:	RBE1, T2DG, T1EJ

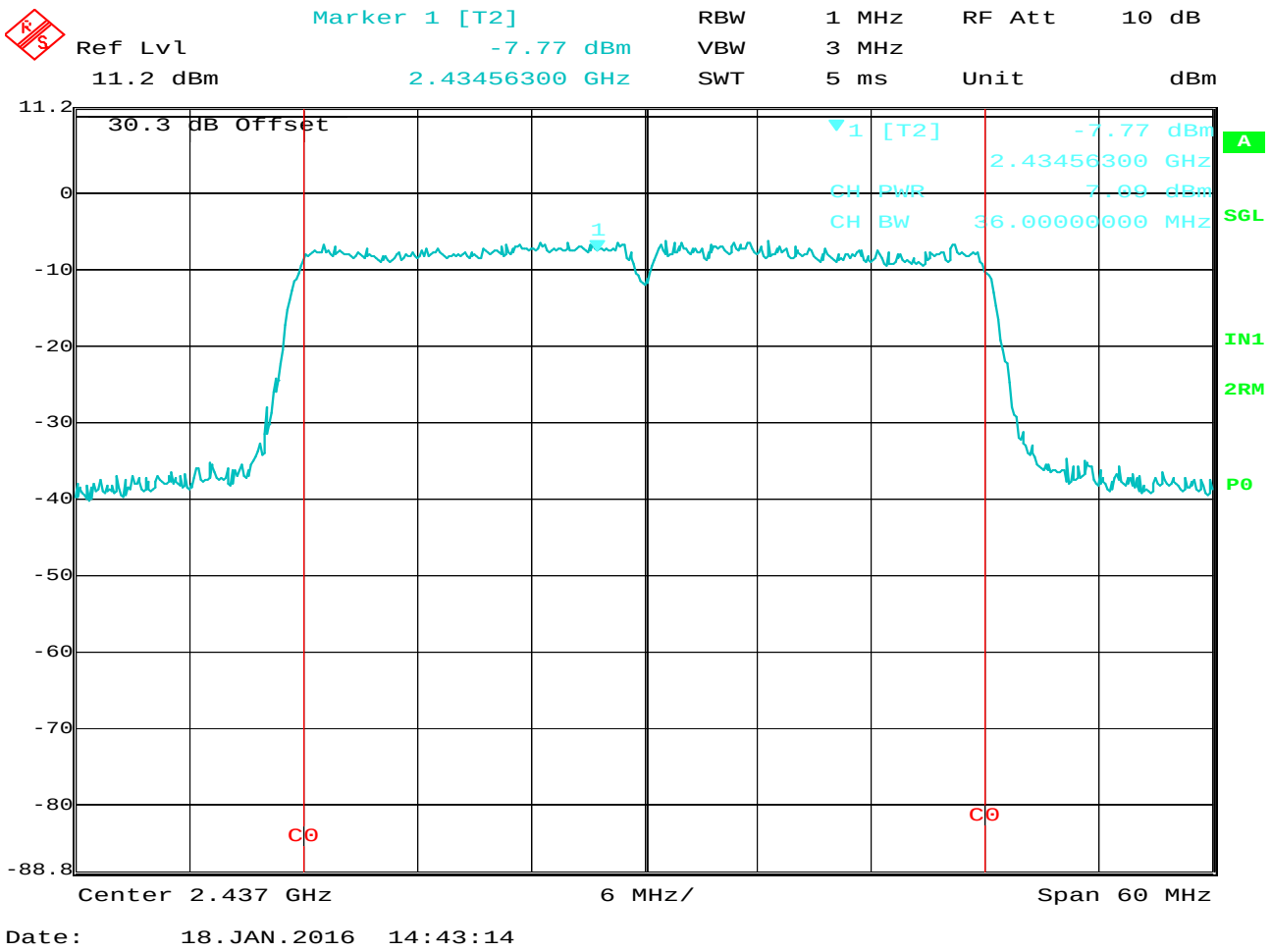
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2422MHz (Ch. 2), 802.11n, MCS7 (40MHz BW)
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 6
	:	Average Output Power = 5.22dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

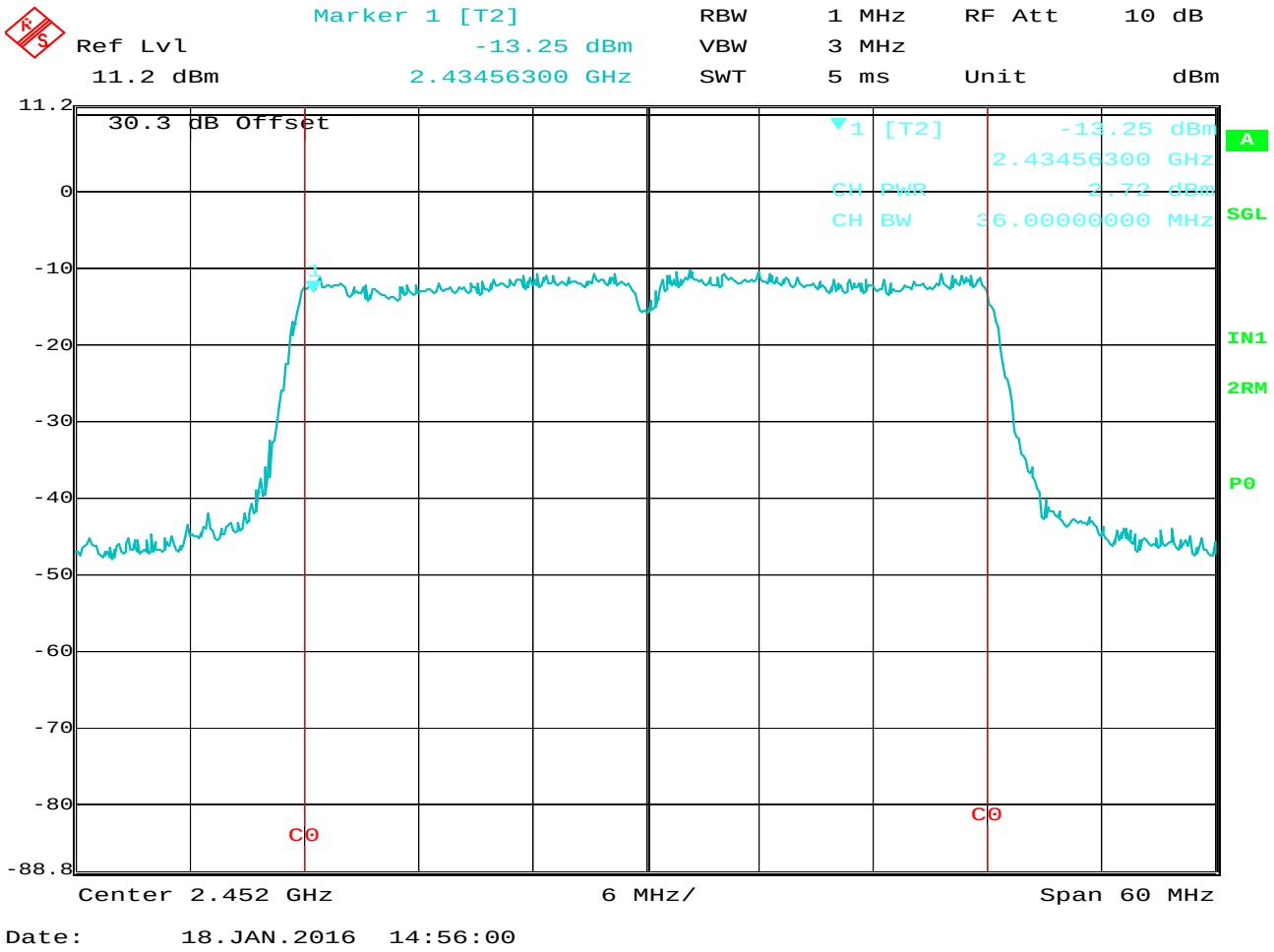
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2437MHz (Ch. 6), 802.11n, MCS7 (40MHz BW)
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 8
	:	Average Output Power = 7.09dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

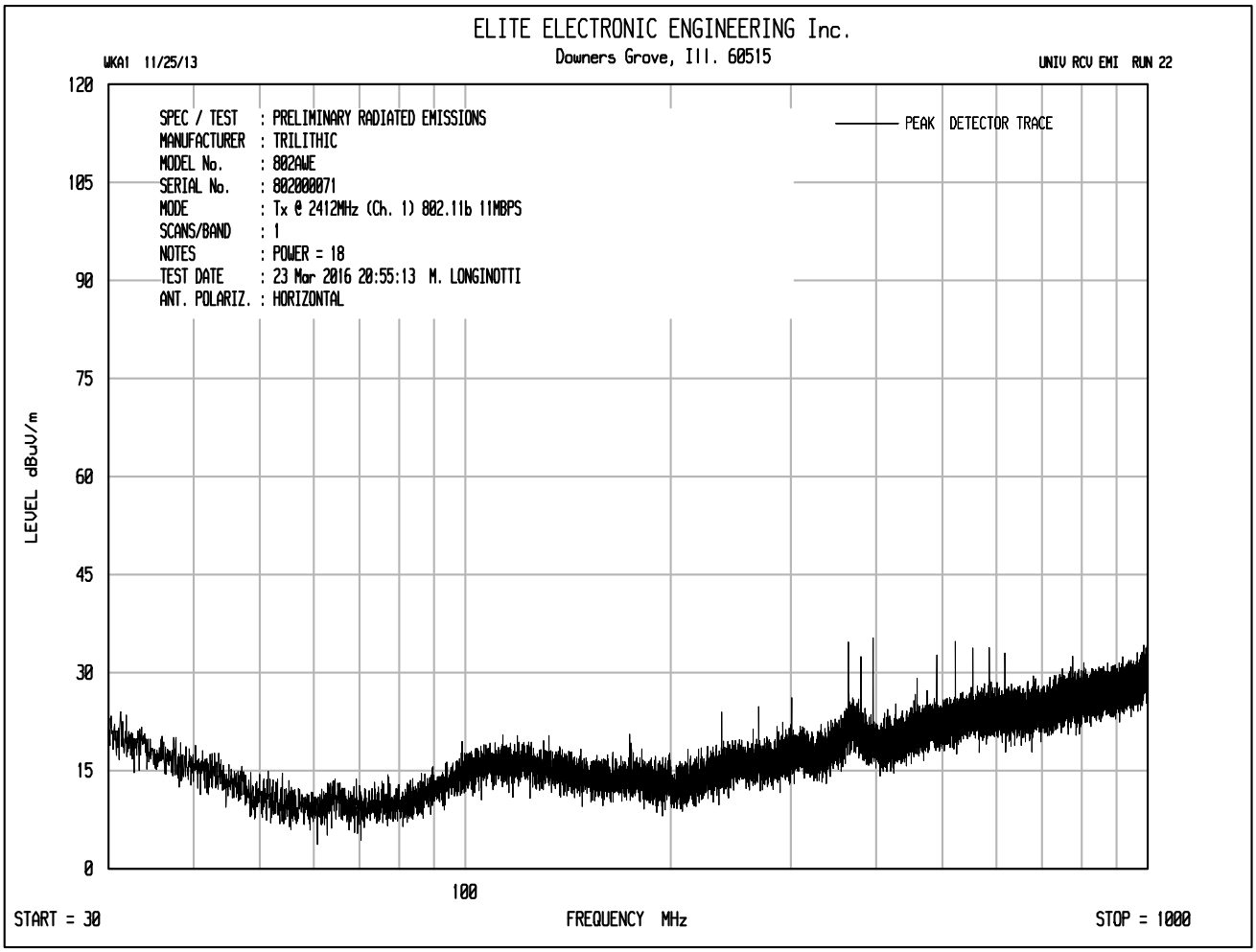
NOTES

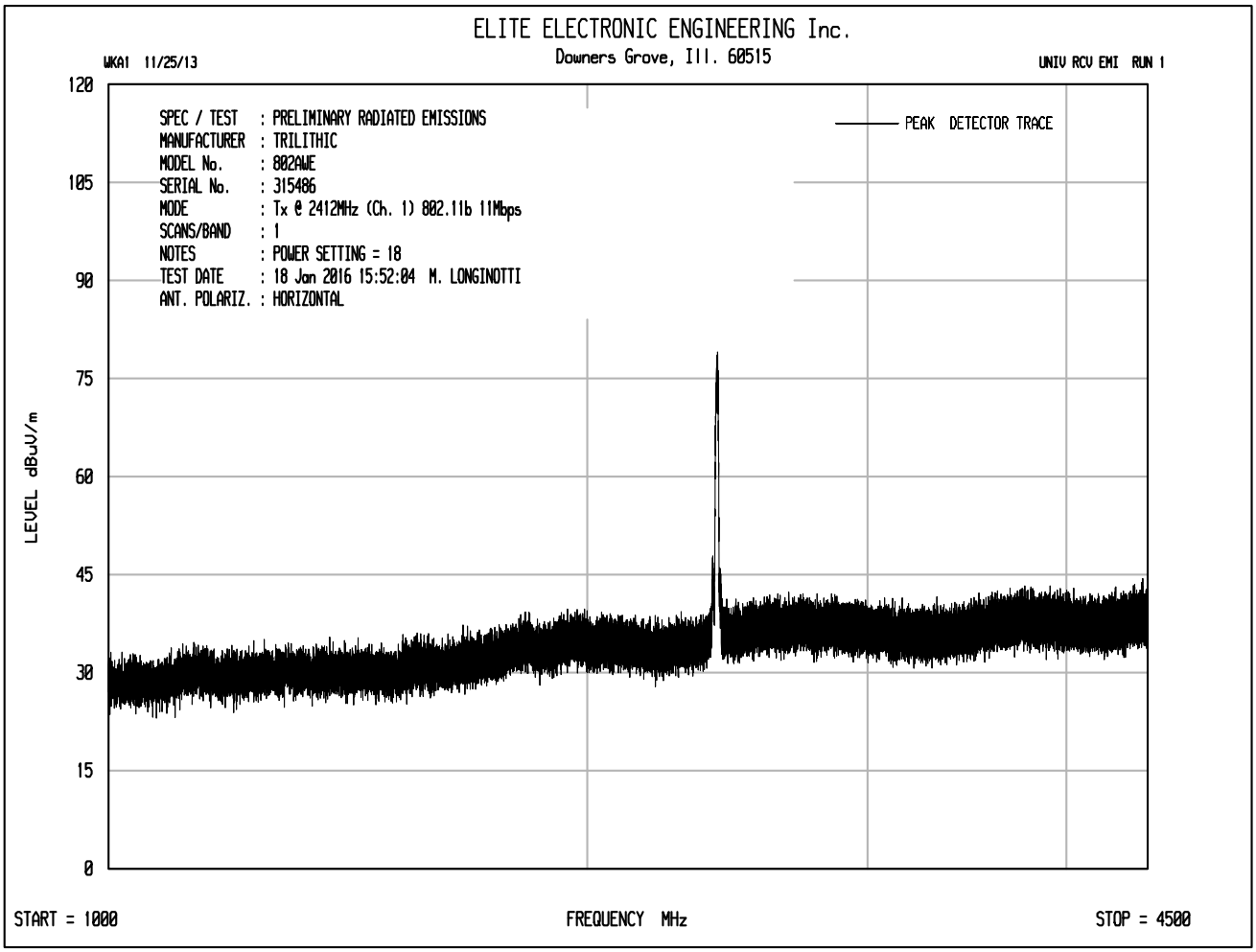


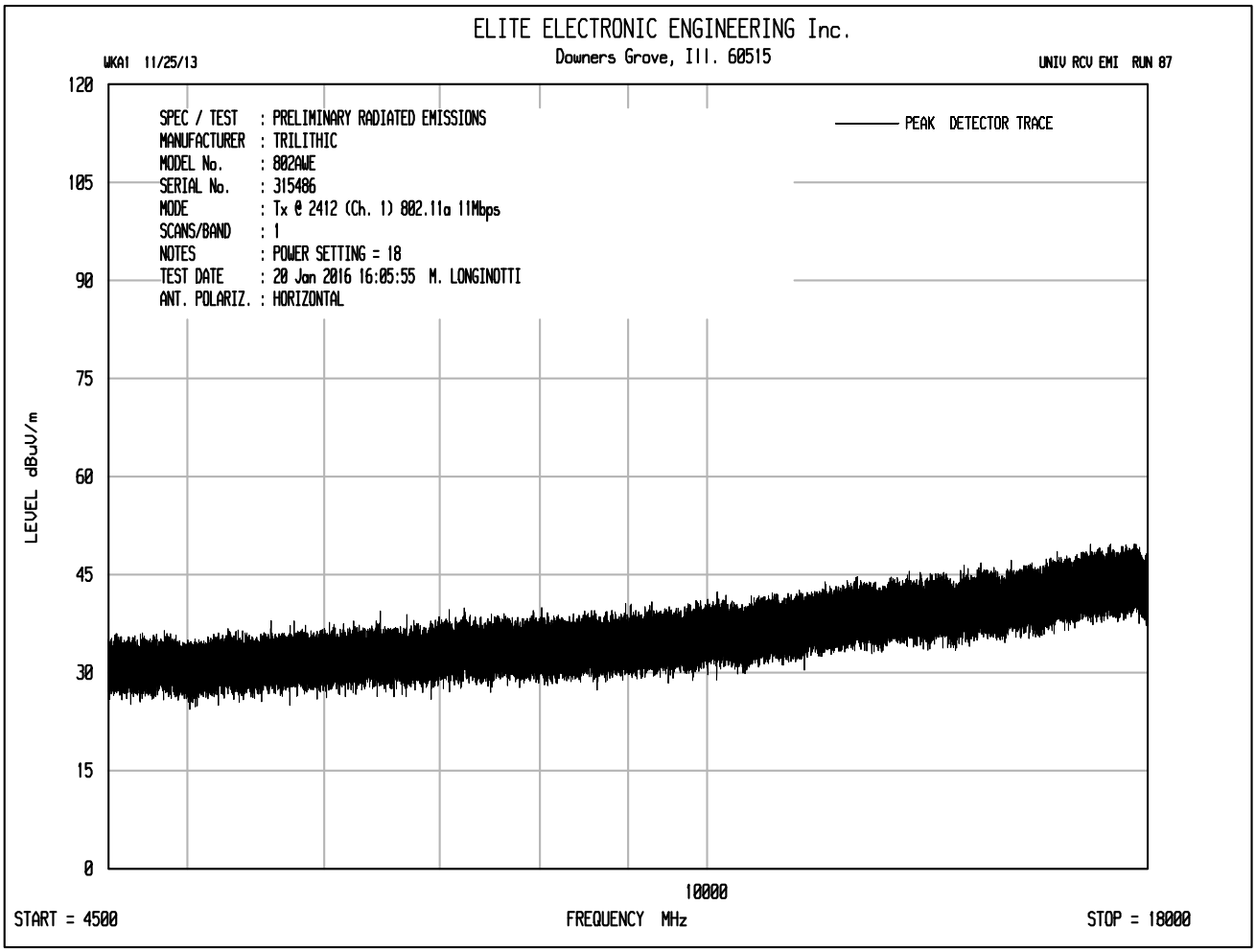
FCC 15.247 Conducted Average Output Power

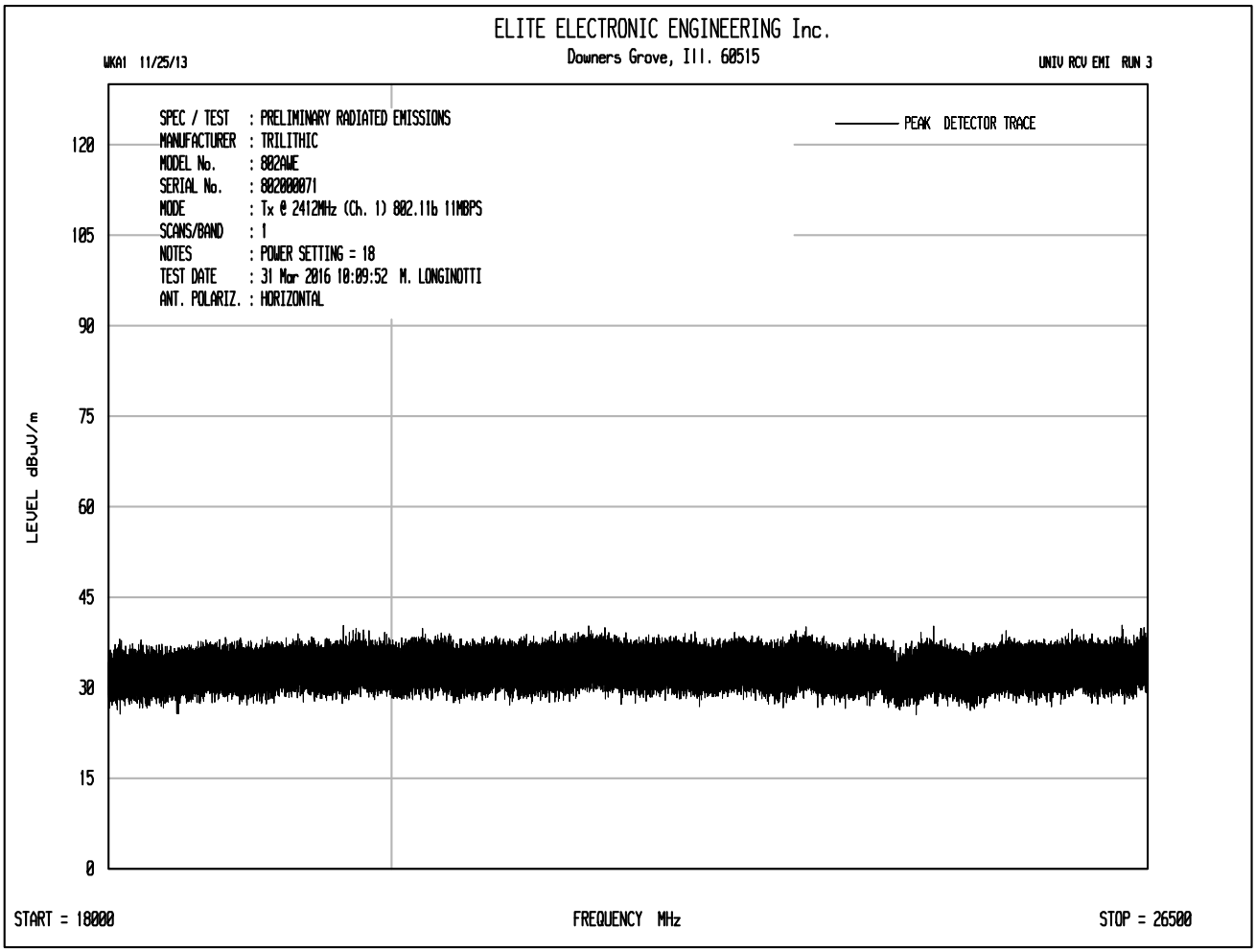
MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 2452MHz (Ch. 9), 802.11n, MCS7 (40MHz BW)
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 5
	:	Average Output Power = 2.72dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

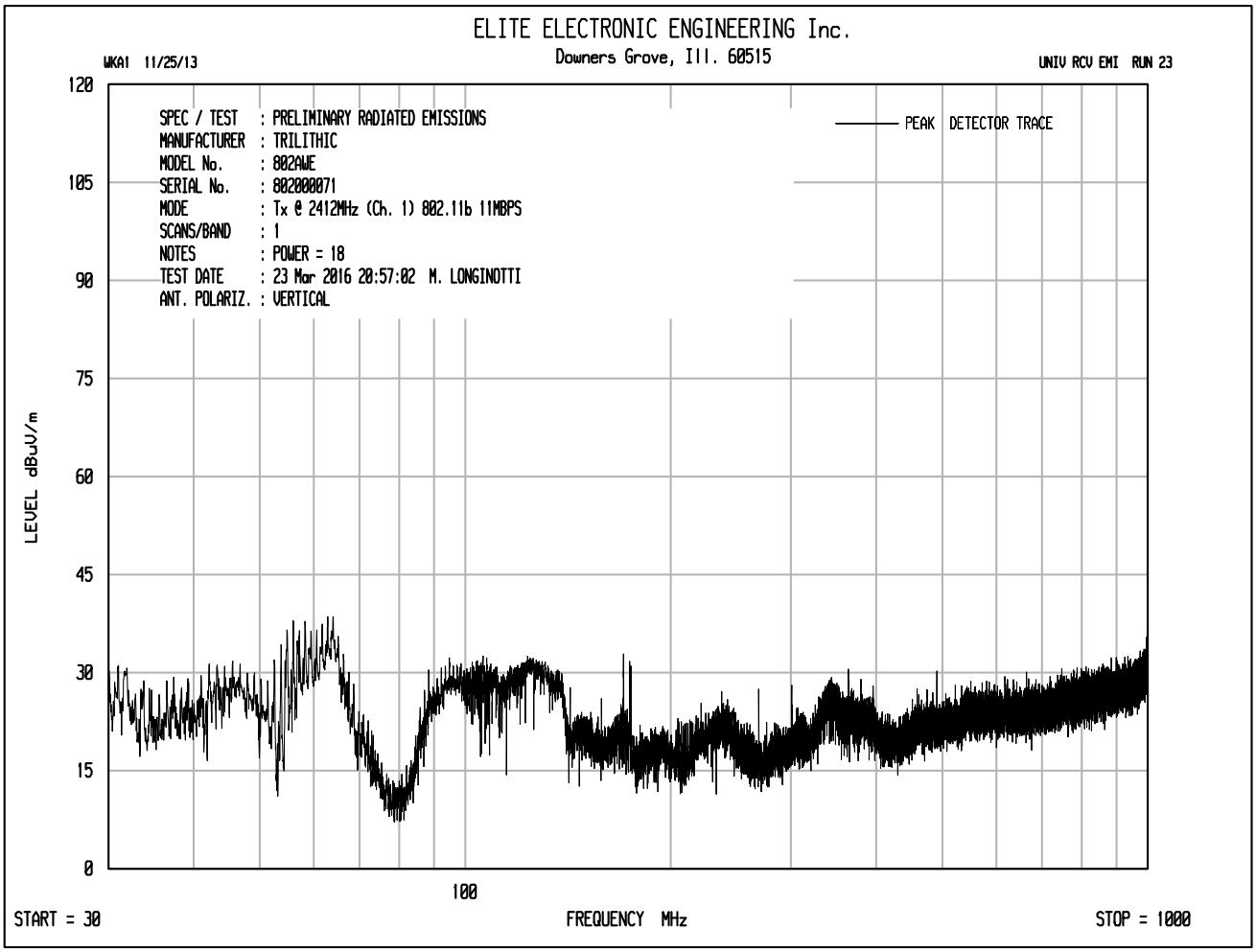
NOTES

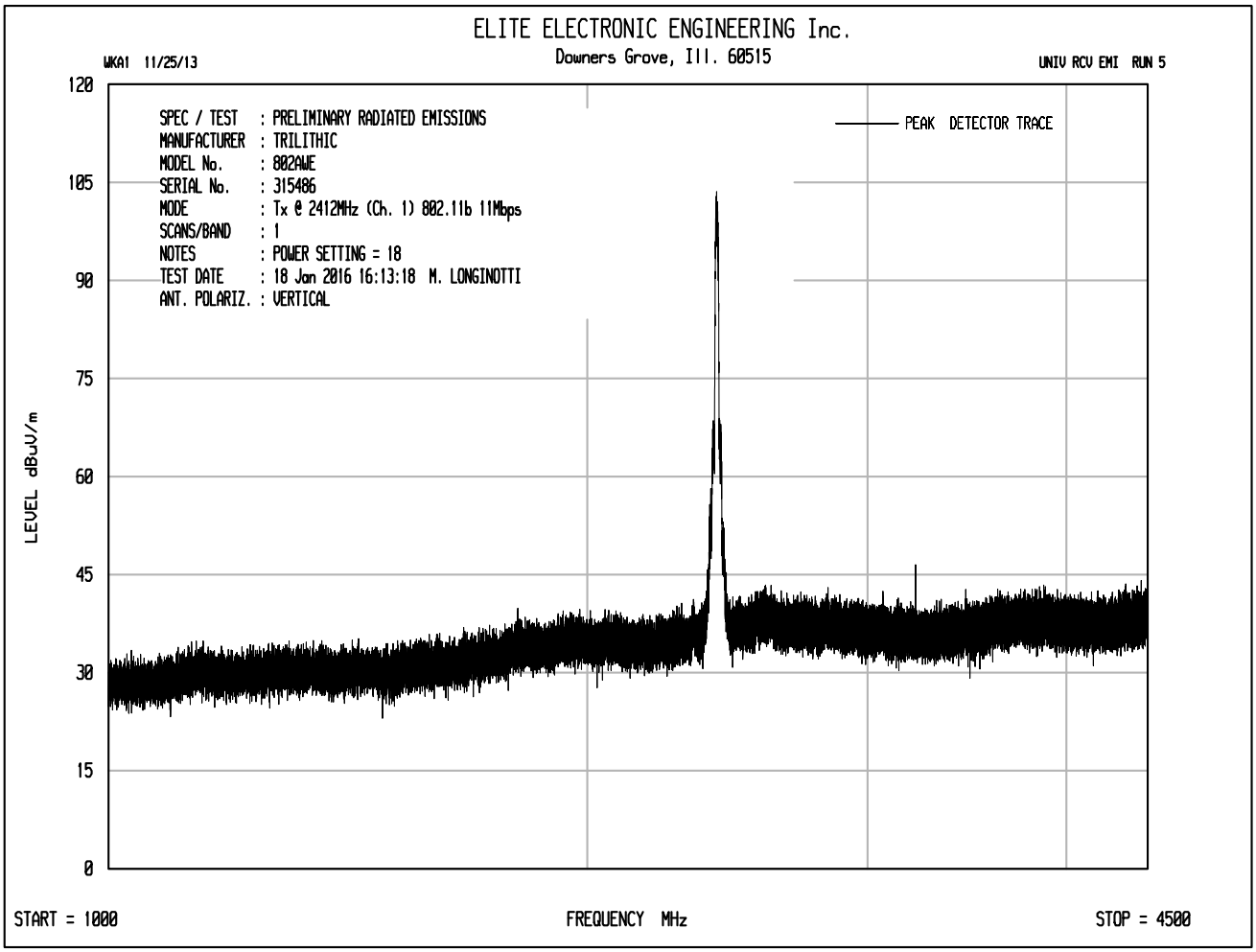

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 22
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch. 1) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER = 18
TEST DATE : 23 Mar 2016 20:55:13 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

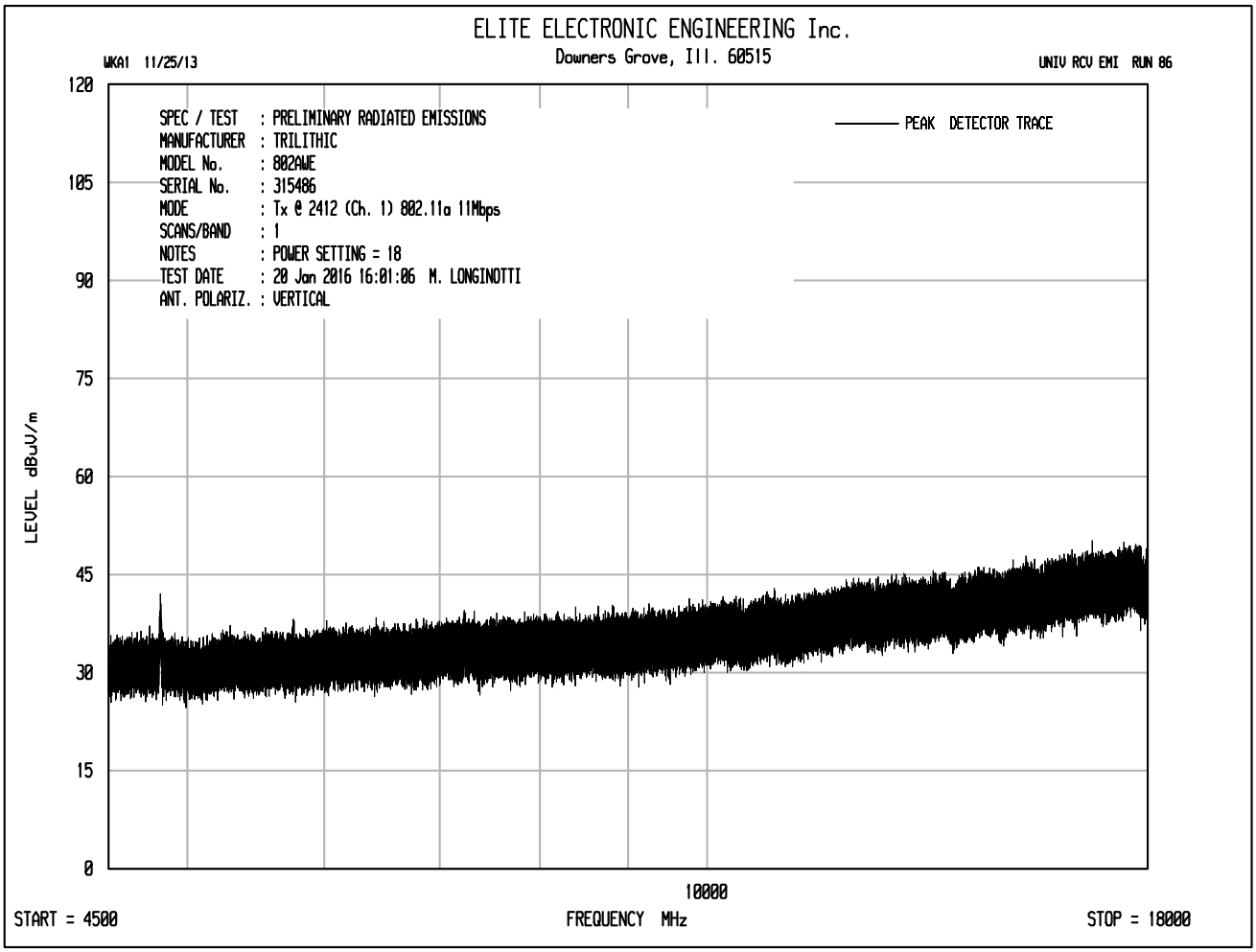

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 1
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412MHz (Ch. 1) 802.11b 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 18 Jan 2016 15:52:04 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

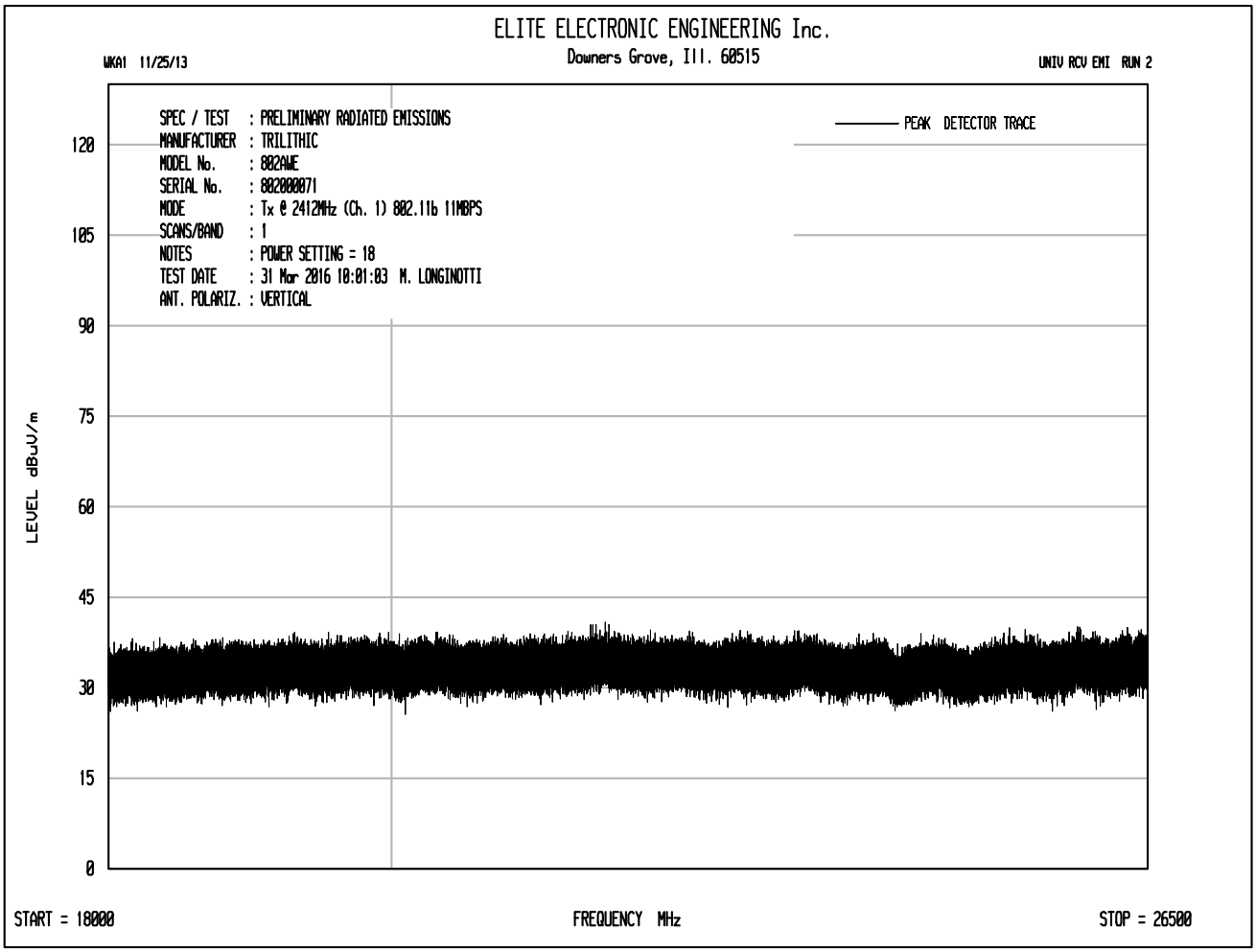

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 87
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412 (Ch. 1) 802.11a 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 20 Jan 2016 16:05:55 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

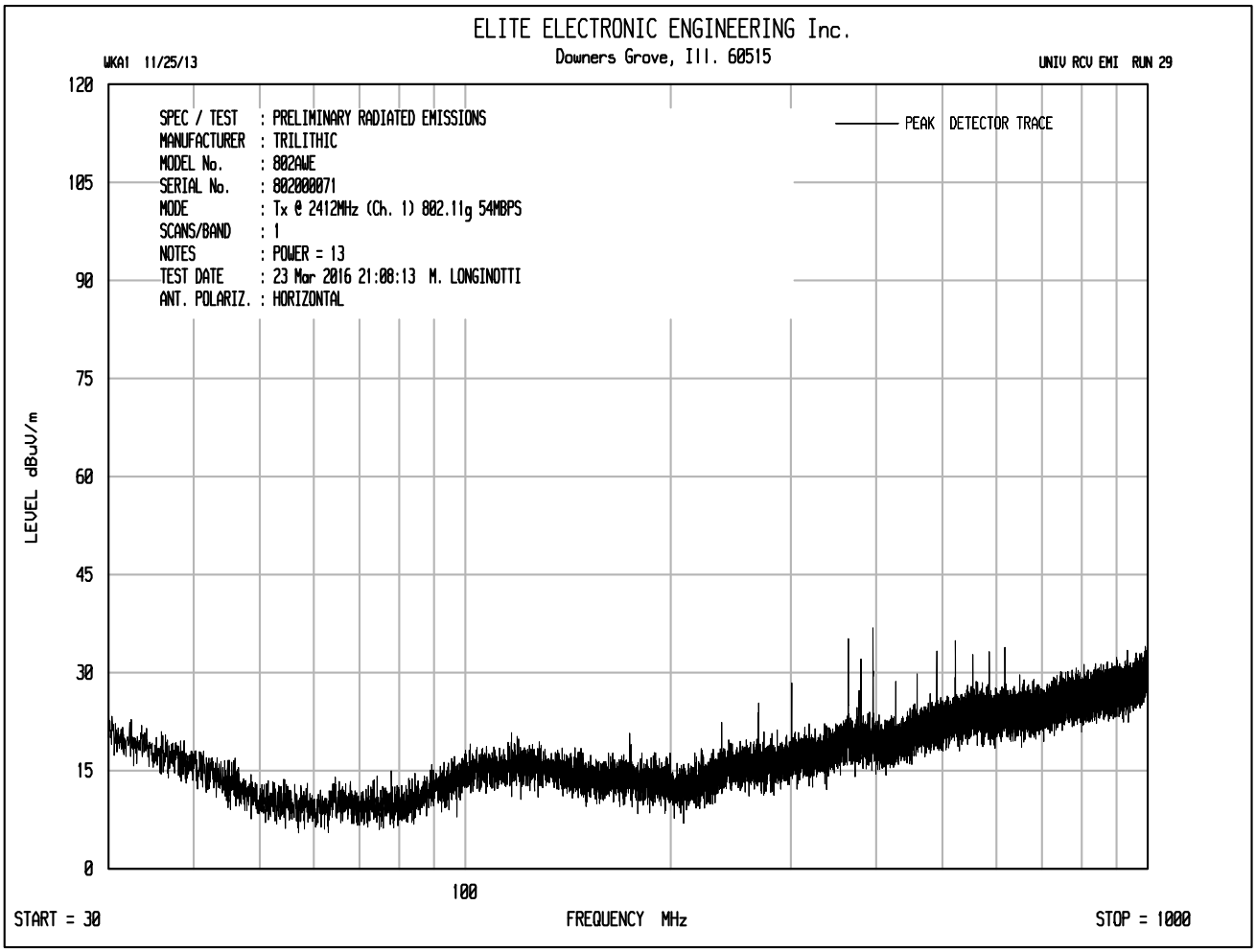

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 3
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch. 1) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 31 Mar 2016 10:09:52 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

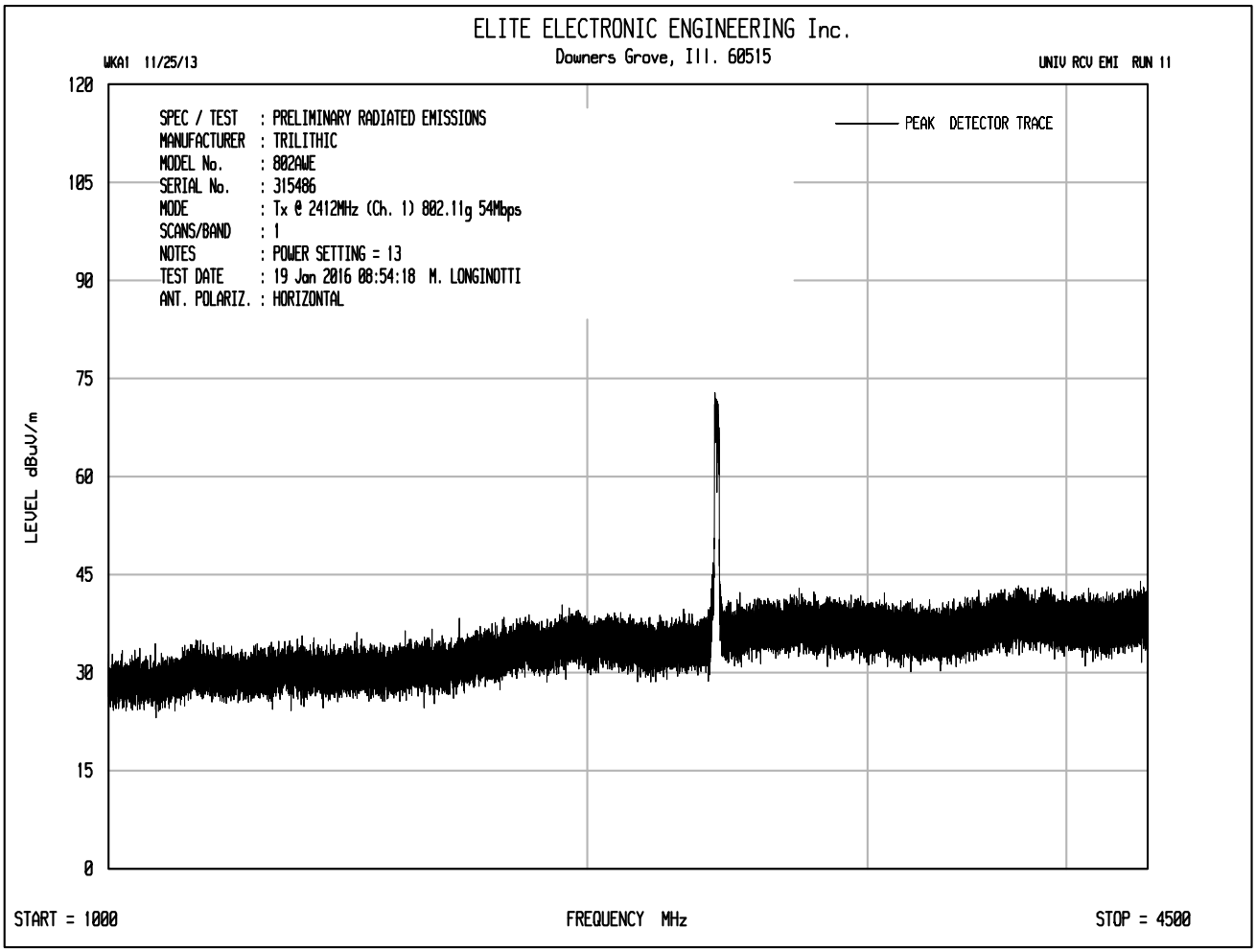

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 23
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch. 1) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER = 18
TEST DATE : 23 Mar 2016 20:57:02 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

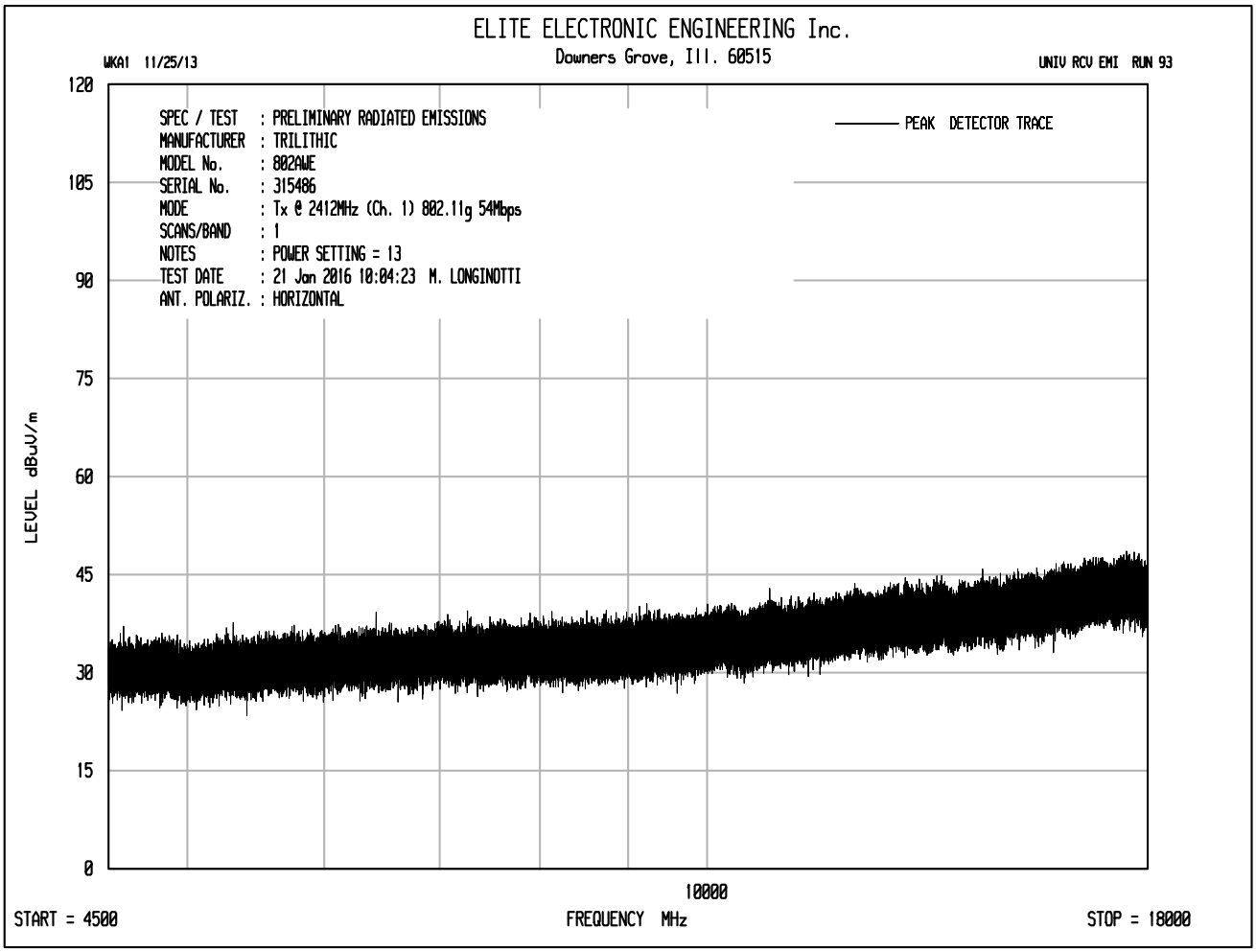

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 5
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412MHz (Ch. 1) 802.11b 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 18 Jan 2016 16:13:18 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

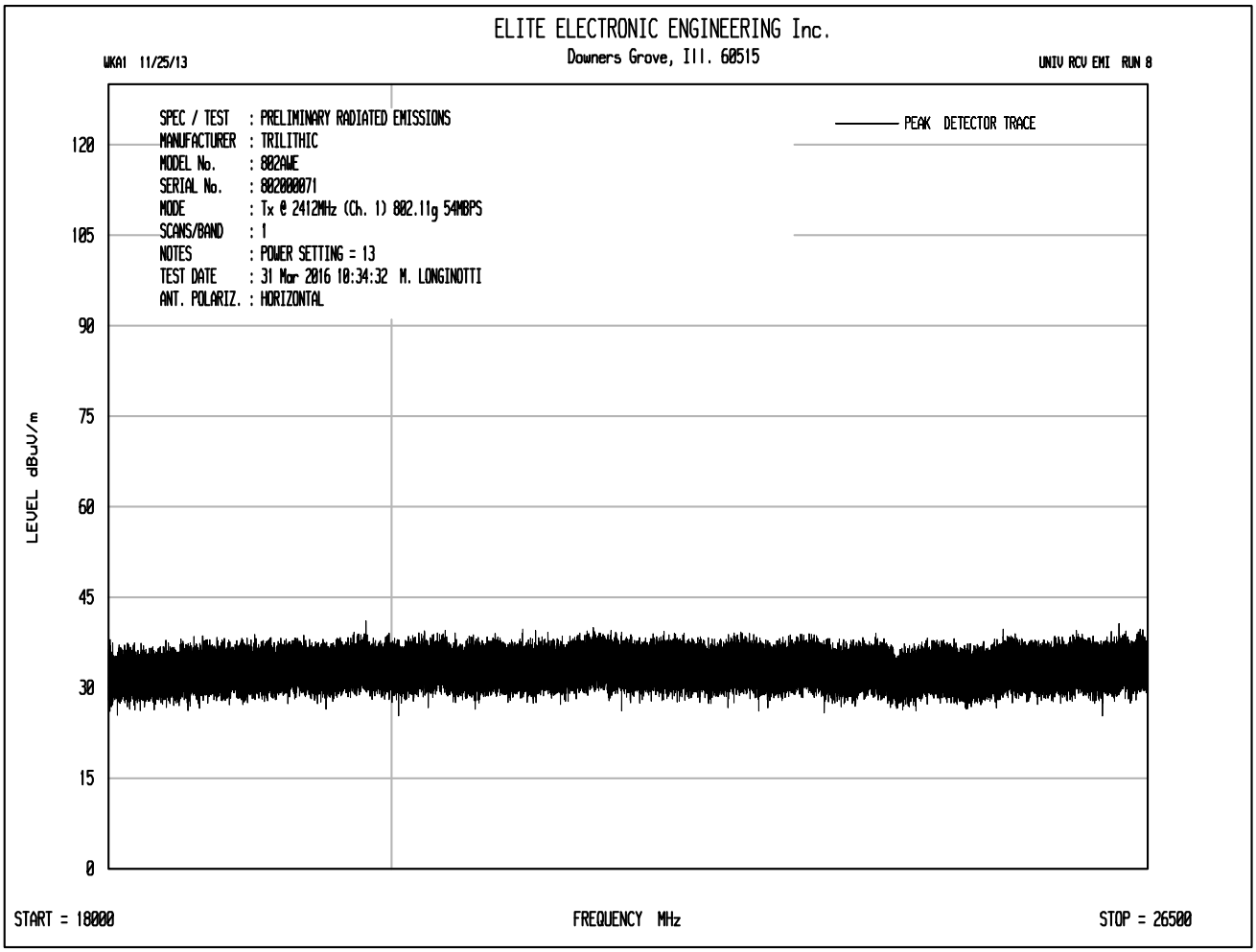

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 86
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412 (Ch. 1) 802.11a 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 20 Jan 2016 16:01:06 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

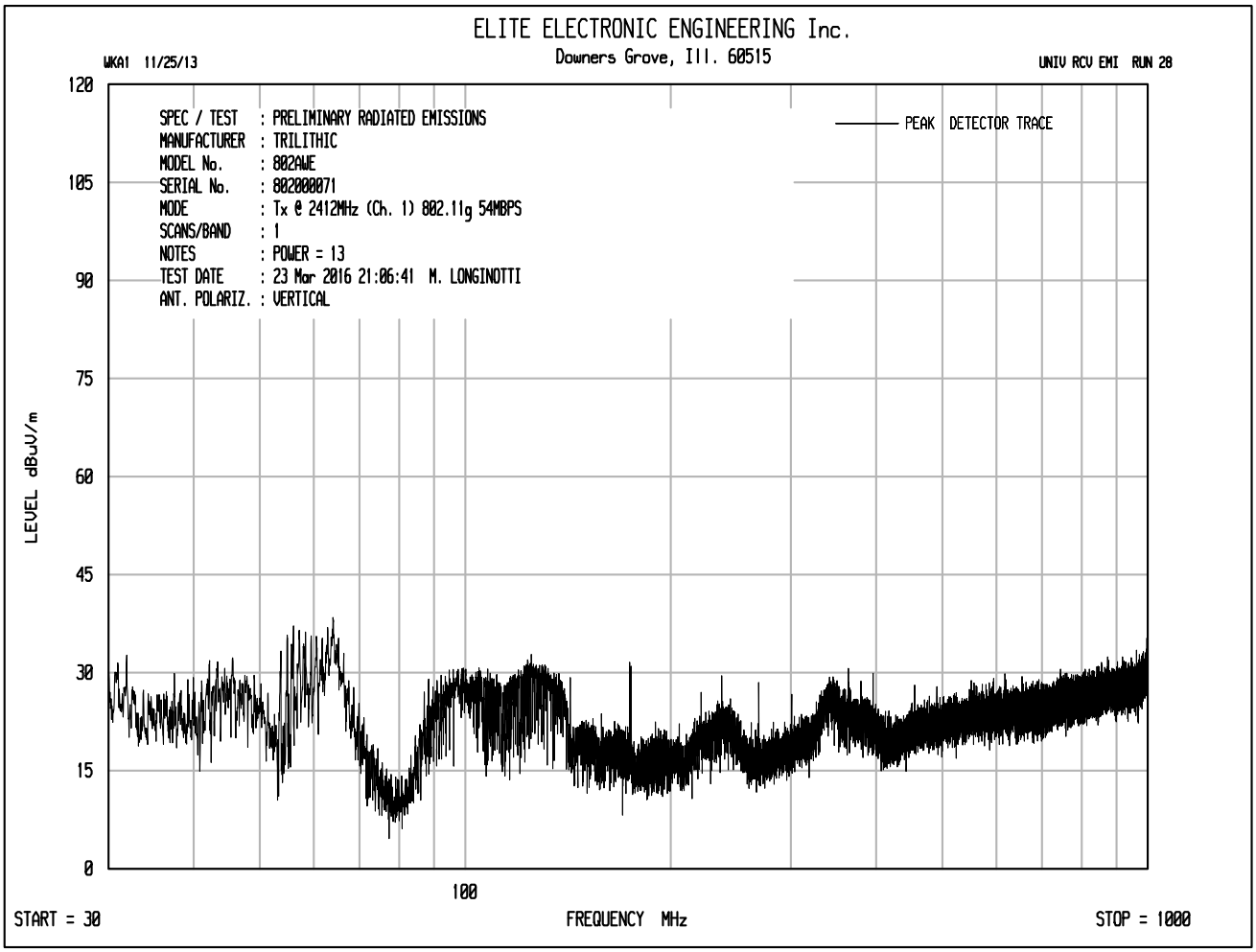

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 2
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch. 1) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 31 Mar 2016 10:01:03 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

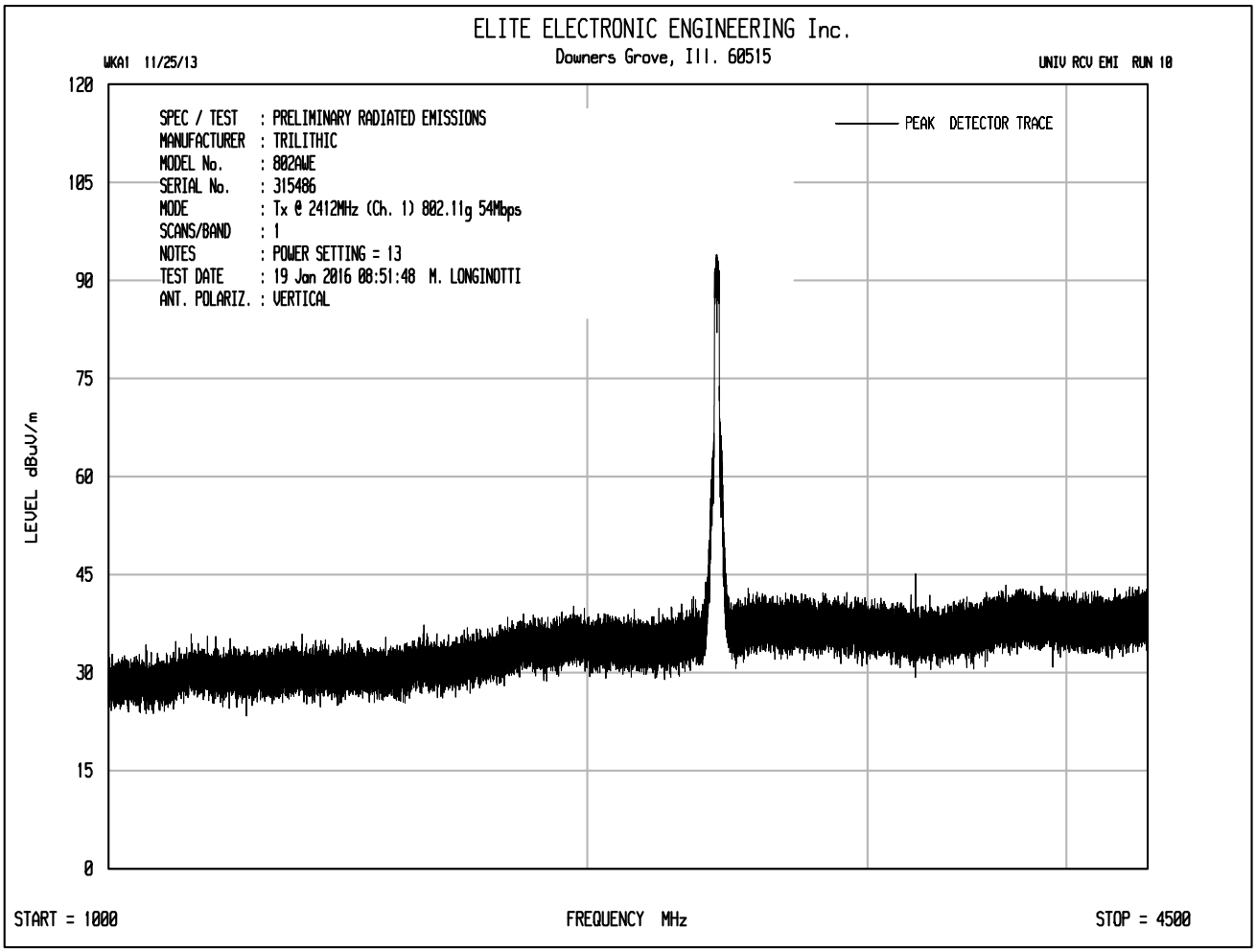

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 29
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch. 1) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER = 13
TEST DATE : 23 Mar 2016 21:08:13 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

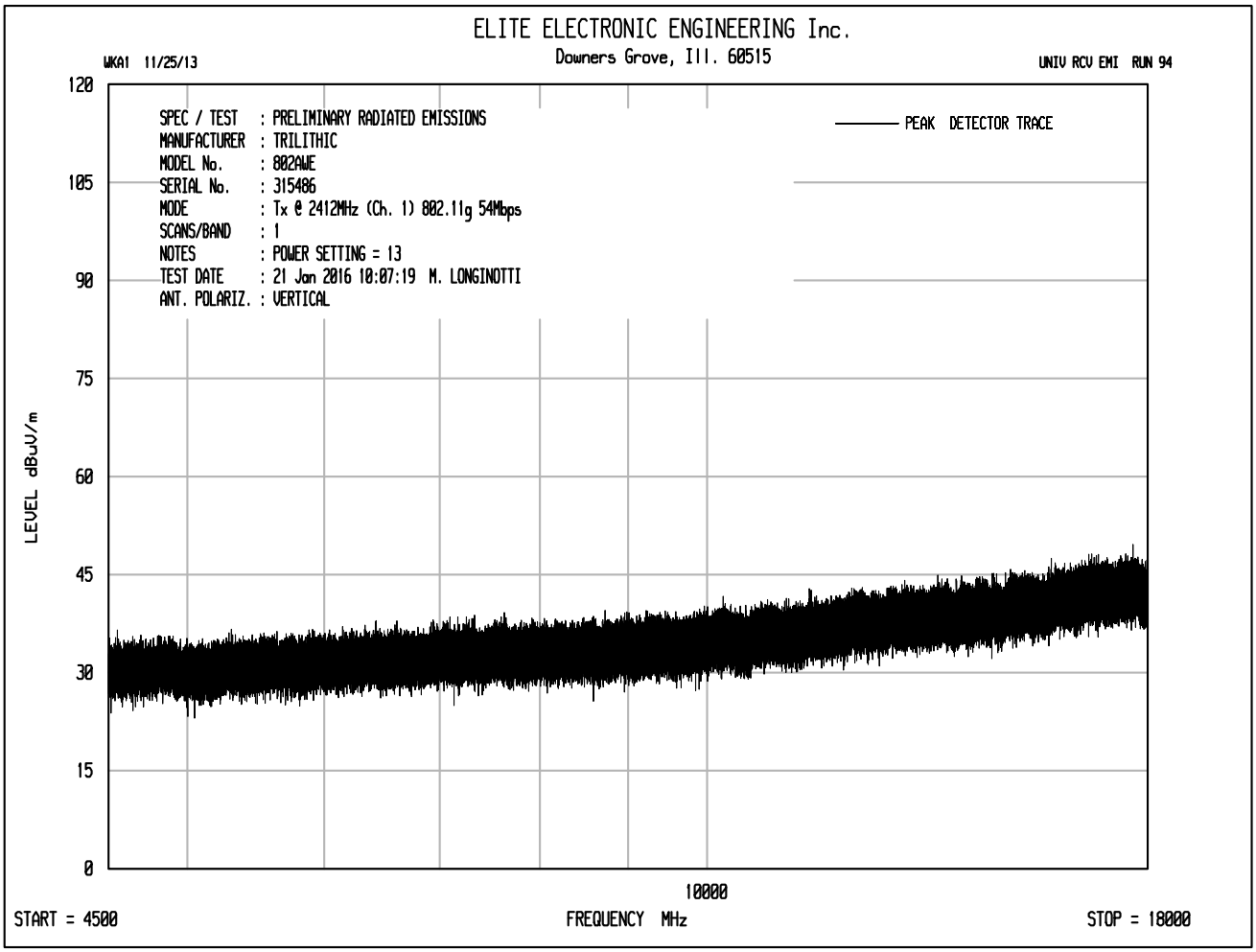

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 11
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412MHz (Ch. 1) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 13
TEST DATE : 19 Jan 2016 08:54:18 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

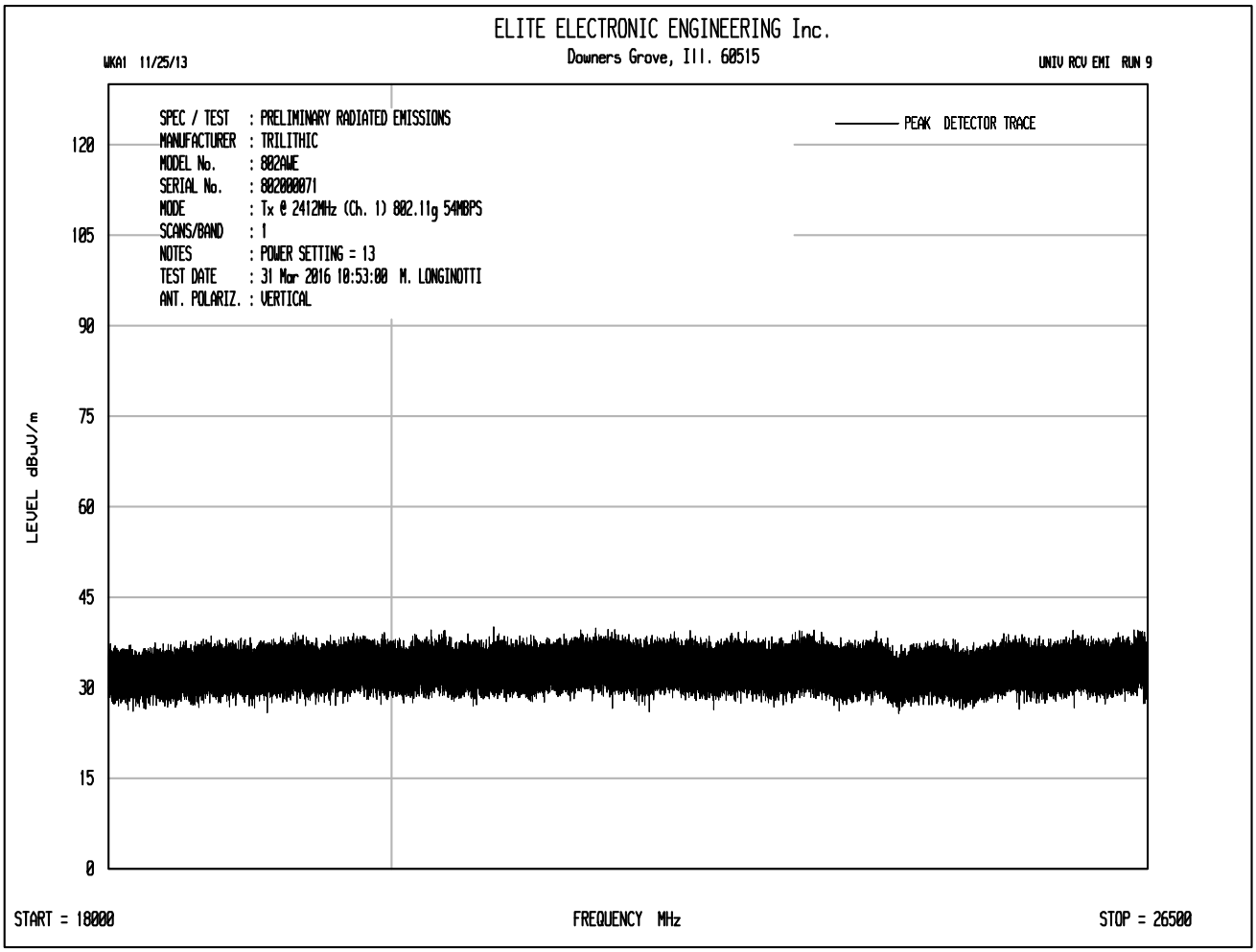

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 93
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412MHz (Ch. 1) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 13
TEST DATE : 21 Jan 2016 10:04:23 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

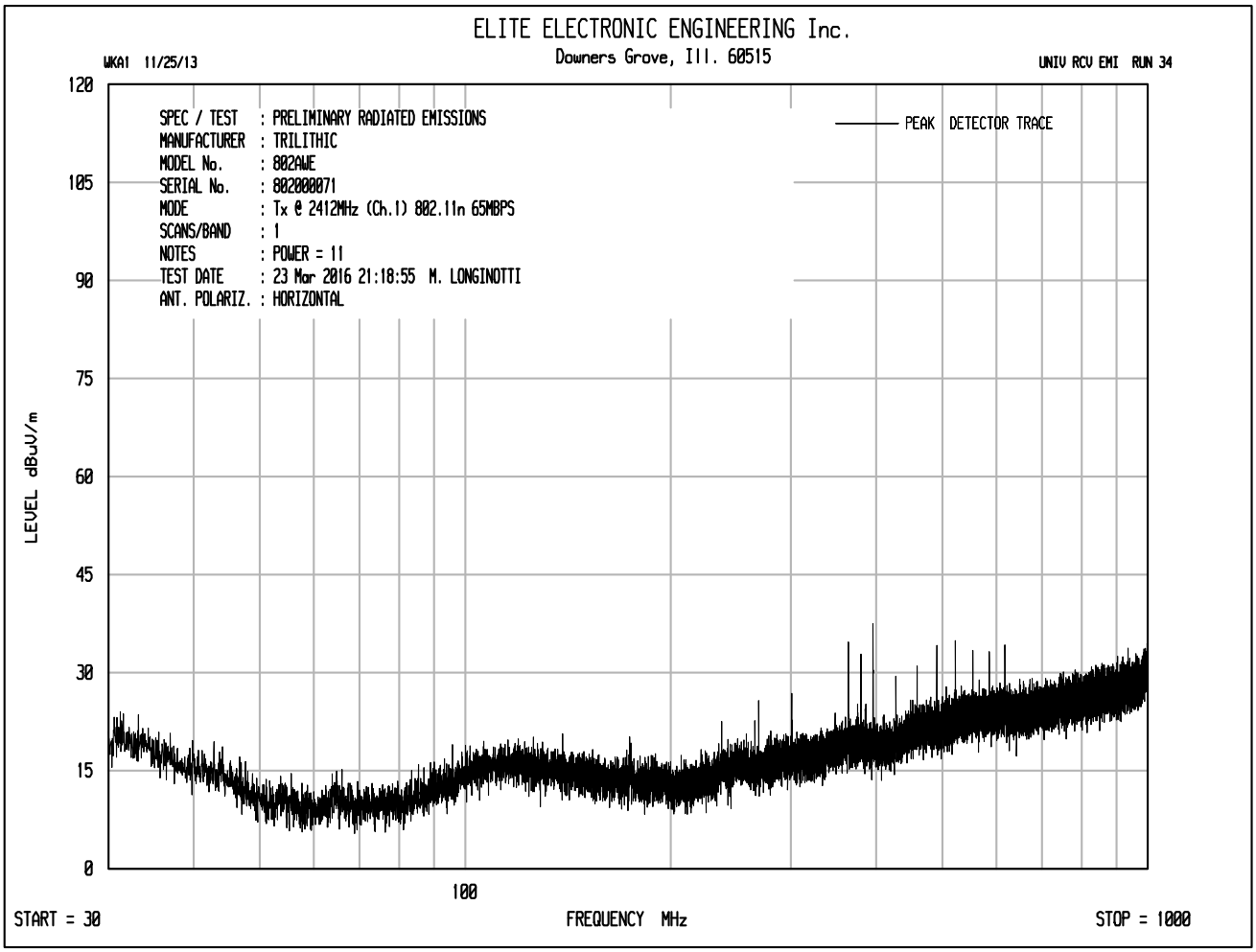

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 8
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch. 1) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 13
TEST DATE : 31 Mar 2016 10:34:32 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

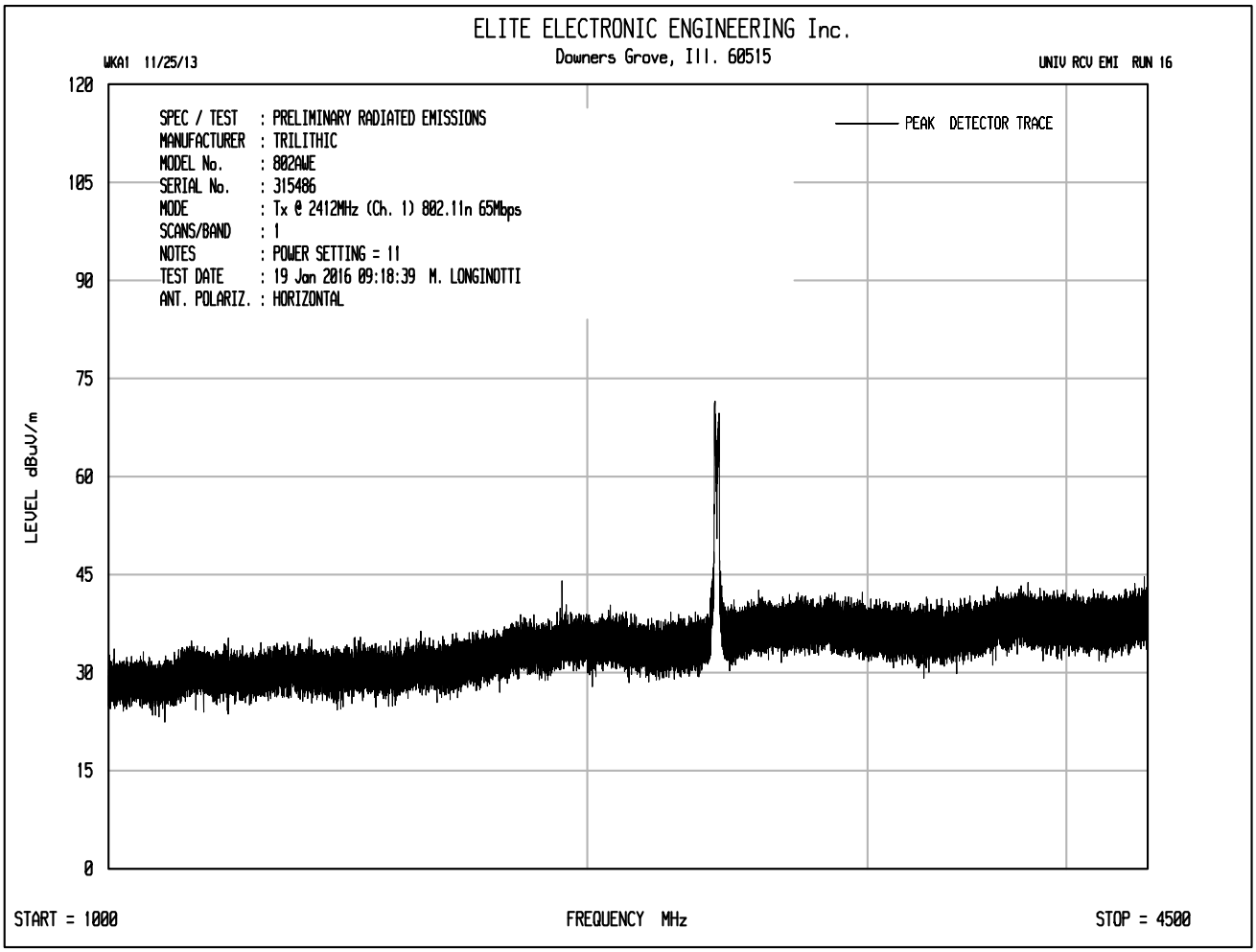

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 20
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch. 1) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER = 13
TEST DATE : 23 Mar 2016 21:06:41 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

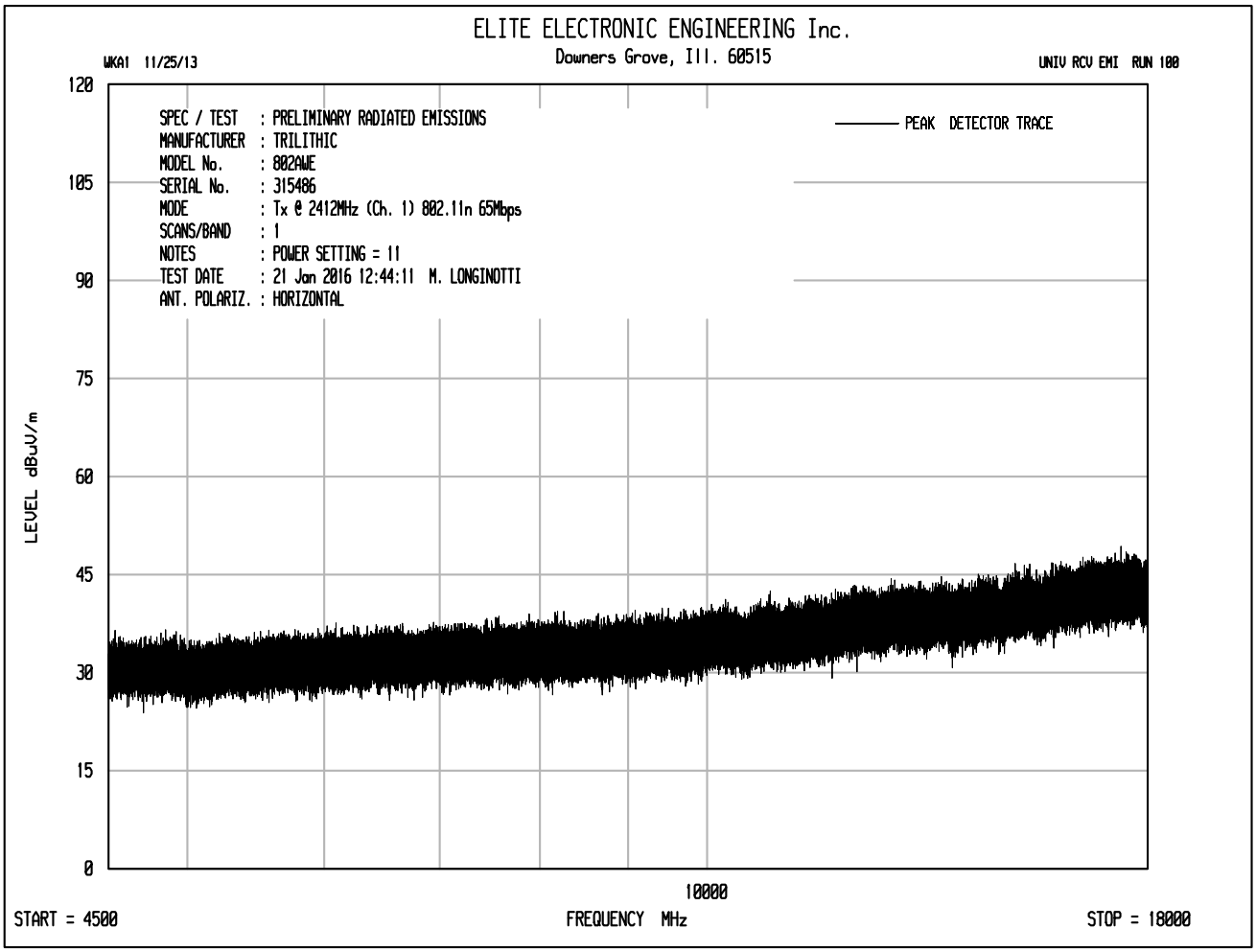

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 10
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412MHz (Ch. 1) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 13
TEST DATE : 19 Jan 2016 08:51:48 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

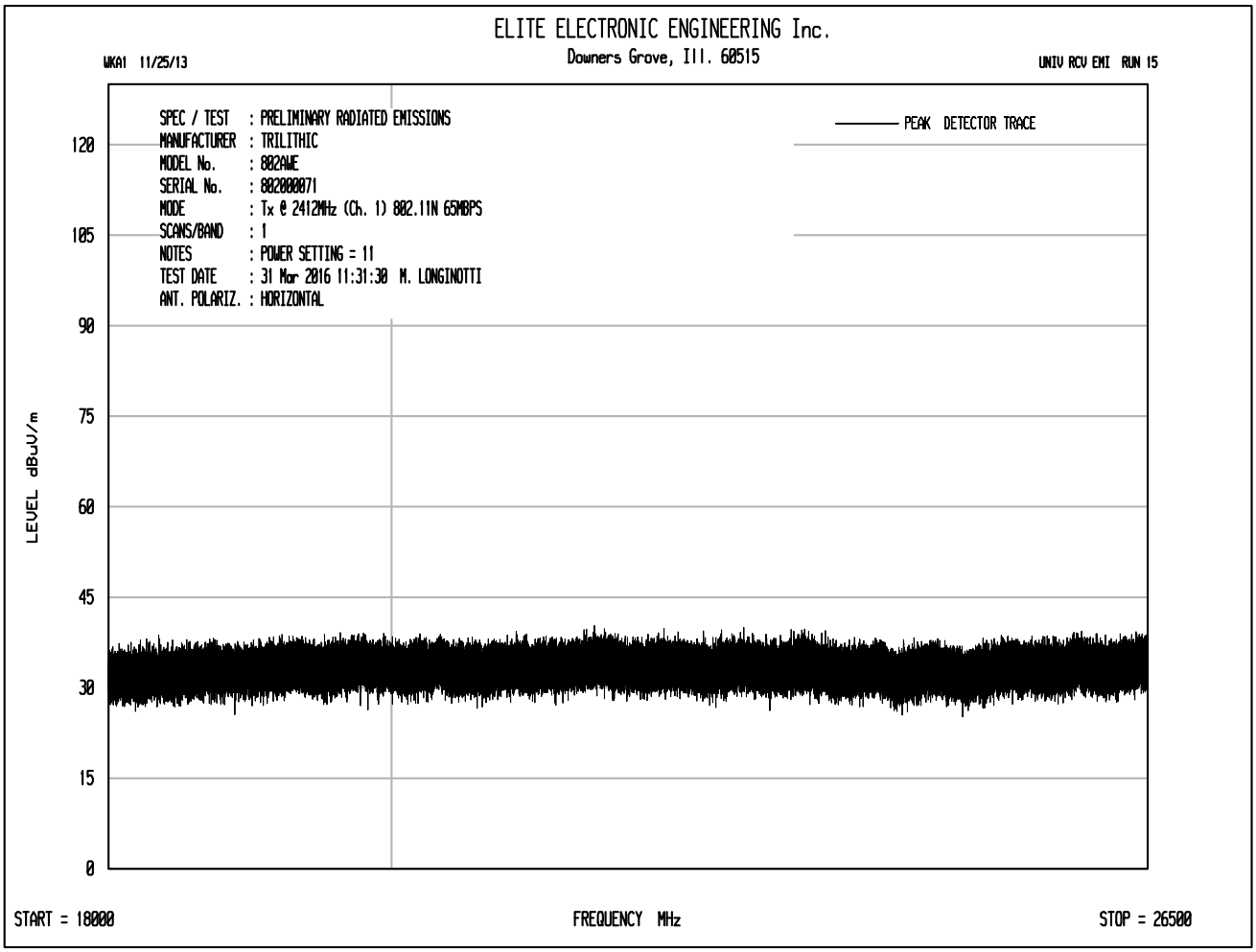

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 94
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412MHz (Ch. 1) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 13
TEST DATE : 21 Jan 2016 10:07:19 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

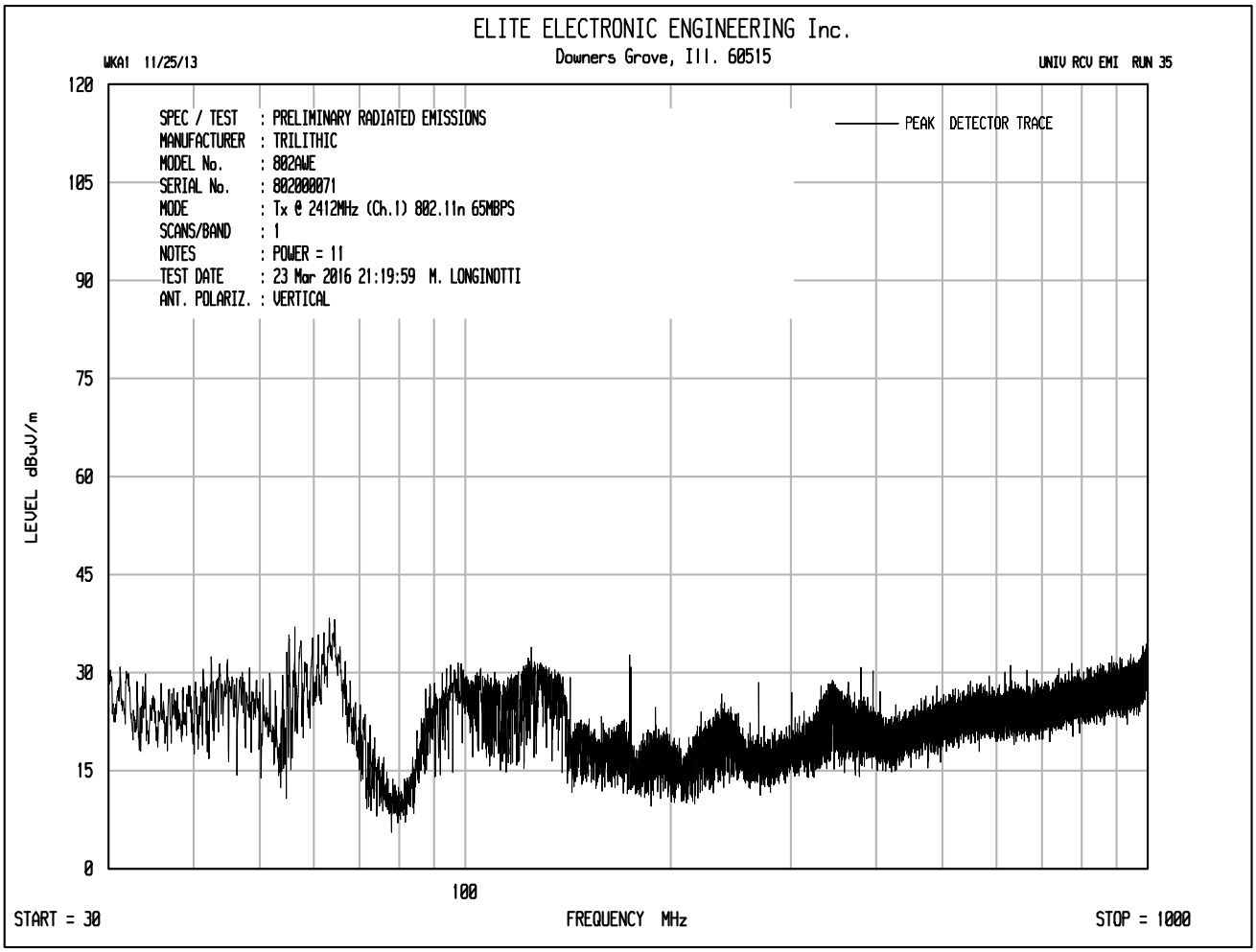

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 9
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch. 1) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 13
TEST DATE : 31 Mar 2016 10:53:00 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

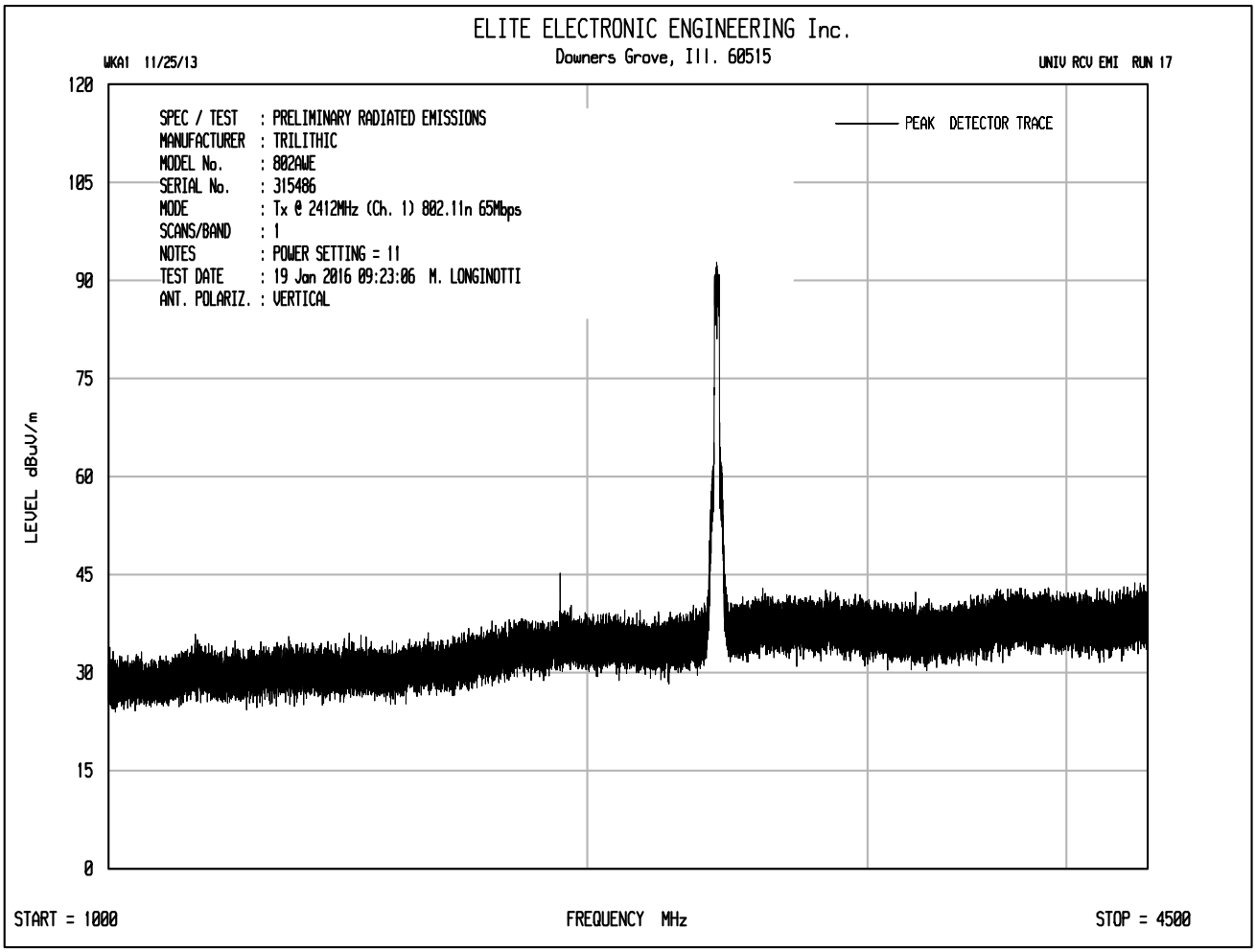

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 34
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch.1) 802.11n 65MBPS
SCANS/BAND : 1
NOTES : POWER = 11
TEST DATE : 23 Mar 2016 21:18:55 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

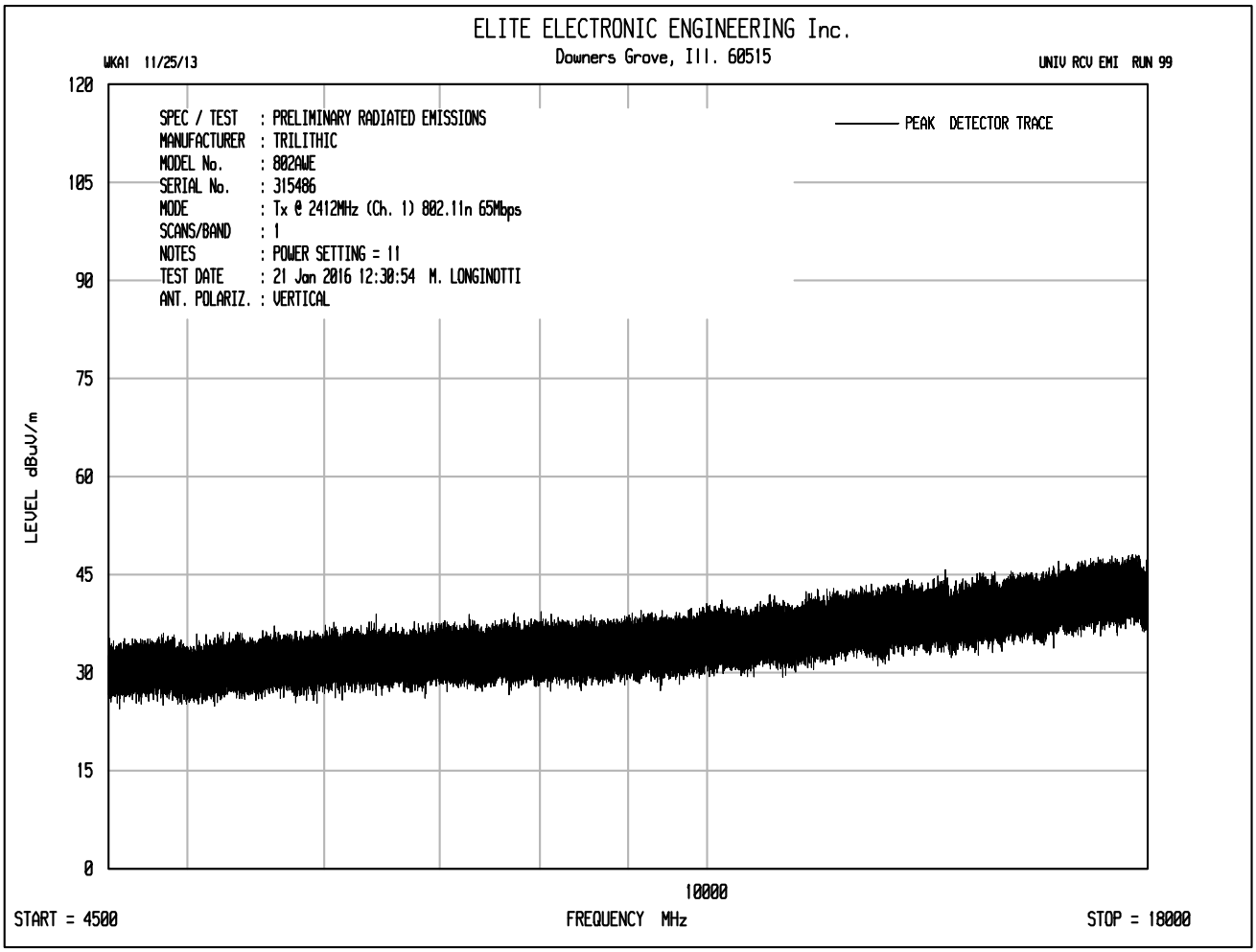

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 16
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412MHz (Ch. 1) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 11
TEST DATE : 19 Jan 2016 09:18:39 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

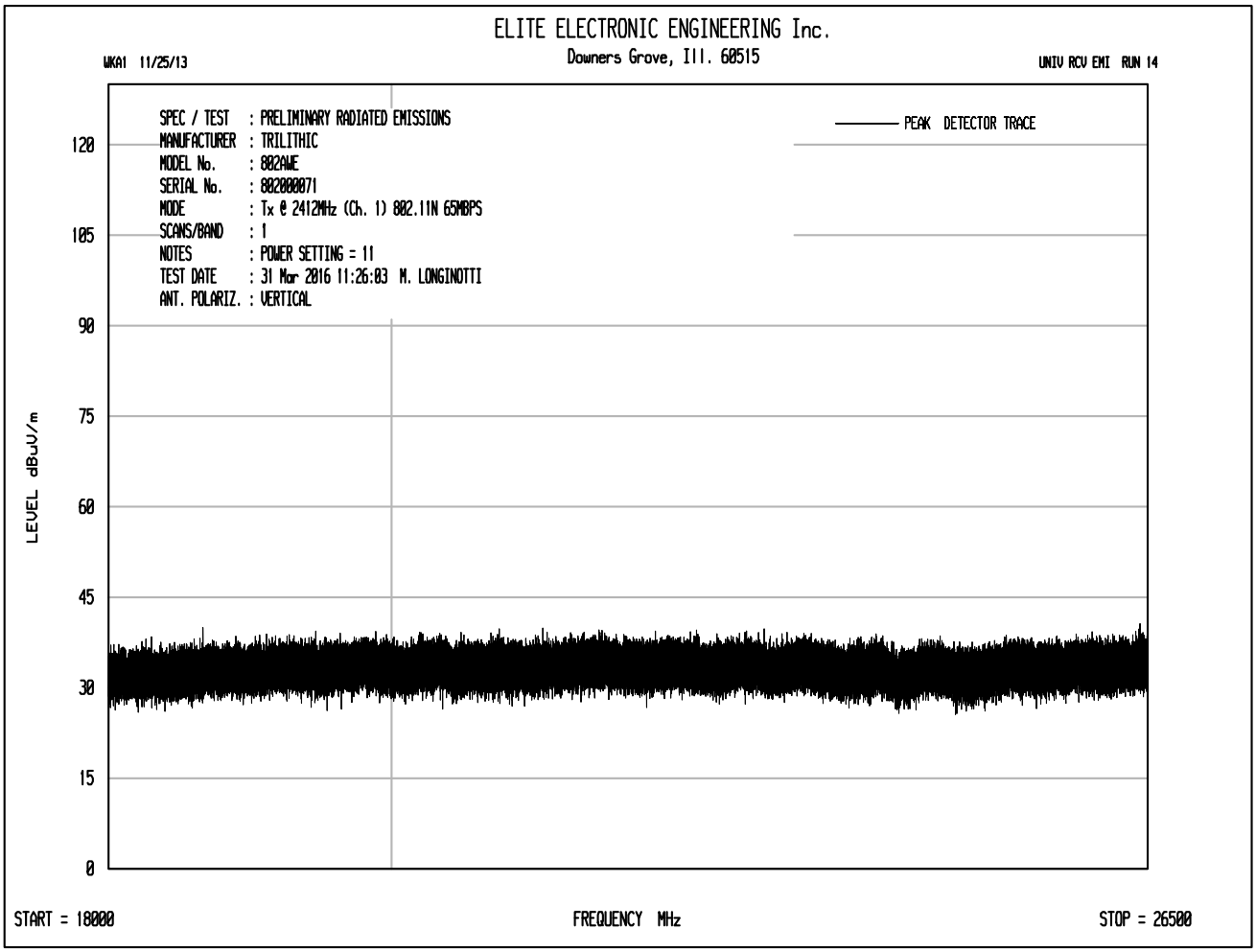

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 100
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412MHz (Ch. 1) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 11
TEST DATE : 21 Jan 2016 12:44:11 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 15
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch. 1) 802.11N 65MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 11
TEST DATE : 31 Mar 2016 11:31:30 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 35
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch.1) 802.11n 65MBPS
SCANS/BAND : 1
NOTES : POWER = 11
TEST DATE : 23 Mar 2016 21:19:59 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 17
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412MHz (Ch. 1) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 11
TEST DATE : 19 Jan 2016 09:23:06 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 99
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2412MHz (Ch. 1) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 11
TEST DATE : 21 Jan 2016 12:30:54 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 14
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2412MHz (Ch. 1) 802.11N 65MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 11
TEST DATE : 31 Mar 2016 11:26:03 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2412MHz, 802.11b 11Mb/sec, power setting = 18
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4824.00	H	51.2		4.8	34.2	-39.3	50.9	352.2	5000.0	-23.0
4824.00	V	55.2		4.8	34.2	-39.3	54.9	558.2	5000.0	-19.0
12060.00	H	47.6	Ambient	8.0	39.1	-39.1	55.6	603.3	5000.0	-18.4
12060.00	V	47.6	Ambient	8.0	39.1	-39.1	55.6	603.3	5000.0	-18.4
14472.00	H	47.1	Ambient	8.7	39.6	-38.3	57.1	719.3	5000.0	-16.8
14472.00	V	46.8	Ambient	8.7	39.6	-38.3	56.8	694.9	5000.0	-17.1
19296.00	H	37.0	Ambient	2.2	40.4	-28.3	51.3	366.7	5000.0	-22.7
19296.00	V	37.4	Ambient	2.2	40.4	-28.3	51.7	384.0	5000.0	-22.3

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2412MHz, 802.11b 11Mb/sec, power setting = 18
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4824.00	H	39.0		4.8	34.2	-39.3	38.7	86.5	500.0	-15.2
4824.00	V	43.1		4.8	34.2	-39.3	42.8	138.6	500.0	-11.1
12060.00	H	34.9	Ambient	8.0	39.1	-39.1	42.9	139.8	500.0	-11.1
12060.00	V	34.9	Ambient	8.0	39.1	-39.1	42.9	139.8	500.0	-11.1
14472.00	H	34.4	Ambient	8.7	39.6	-38.3	44.4	166.7	500.0	-9.5
14472.00	V	34.4	Ambient	8.7	39.6	-38.3	44.4	166.7	500.0	-9.5
19296.00	H	23.9	Ambient	2.2	40.4	-28.3	38.2	81.2	500.0	-15.8
19296.00	V	24.0	Ambient	2.2	40.4	-28.3	38.3	82.1	500.0	-15.7

Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2412MHz, 802.11g 54 Mb/sec, power setting = 13
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4824.00	H	48.5	Ambient	4.8	34.2	-39.3	48.2	258.1	5000.0	-25.7
4824.00	V	49.6	Ambient	4.8	34.2	-39.3	49.3	293.0	5000.0	-24.6
12060.00	H	47.1	Ambient	8.0	39.1	-39.1	55.1	569.6	5000.0	-18.9
12060.00	V	47.6	Ambient	8.0	39.1	-39.1	55.6	603.3	5000.0	-18.4
14472.00	H	46.7	Ambient	8.7	39.6	-38.3	56.7	687.0	5000.0	-17.2
14472.00	V	46.6	Ambient	8.7	39.6	-38.3	56.6	679.1	5000.0	-17.3
19296.00	H	37.0	Ambient	2.2	40.4	-28.3	51.3	366.7	5000.0	-22.7
19296.00	V	36.9	Ambient	2.2	40.4	-28.3	51.2	362.5	5000.0	-22.8

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2412MHz, 802.11g 54 Mb/sec, power setting = 13
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4824.00	H	35.9	Ambient	4.8	34.2	-39.3	35.6	60.5	500.0	-18.3
4824.00	V	37.5	Ambient	4.8	34.2	-39.3	37.2	72.7	500.0	-16.7
12060.00	H	34.6	Ambient	8.0	39.1	-39.1	42.6	135.1	500.0	-11.4
12060.00	V	34.6	Ambient	8.0	39.1	-39.1	42.6	135.1	500.0	-11.4
14472.00	H	34.4	Ambient	8.7	39.6	-38.3	44.4	166.7	500.0	-9.5
14472.00	V	34.4	Ambient	8.7	39.6	-38.3	44.4	166.7	500.0	-9.5
19296.00	H	24.4	Ambient	2.2	40.4	-28.3	38.7	86.0	500.0	-15.3
19296.00	V	24.2	Ambient	2.2	40.4	-28.3	38.5	84.0	500.0	-15.5

Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2412MHz, 802.11n 65 Mb/sec, power setting = 11
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4824.00	H	45.6	Ambient	4.8	34.2	-39.3	45.3	184.8	5000.0	-28.6
4824.00	V	46.1	Ambient	4.8	34.2	-39.3	45.8	195.8	5000.0	-28.1
12060.00	H	43.8	Ambient	8.0	39.1	-39.1	51.8	389.5	5000.0	-22.2
12060.00	V	44.1	Ambient	8.0	39.1	-39.1	52.1	403.2	5000.0	-21.9
14472.00	H	44.0	Ambient	8.7	39.6	-38.3	54.0	503.4	5000.0	-19.9
14472.00	V	43.7	Ambient	8.7	39.6	-38.3	53.7	486.3	5000.0	-20.2
19296.00	H	36.9	Ambient	2.2	40.4	-28.3	51.2	362.5	5000.0	-22.8
19296.00	V	36.2	Ambient	2.2	40.4	-28.3	50.5	334.5	5000.0	-23.5

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

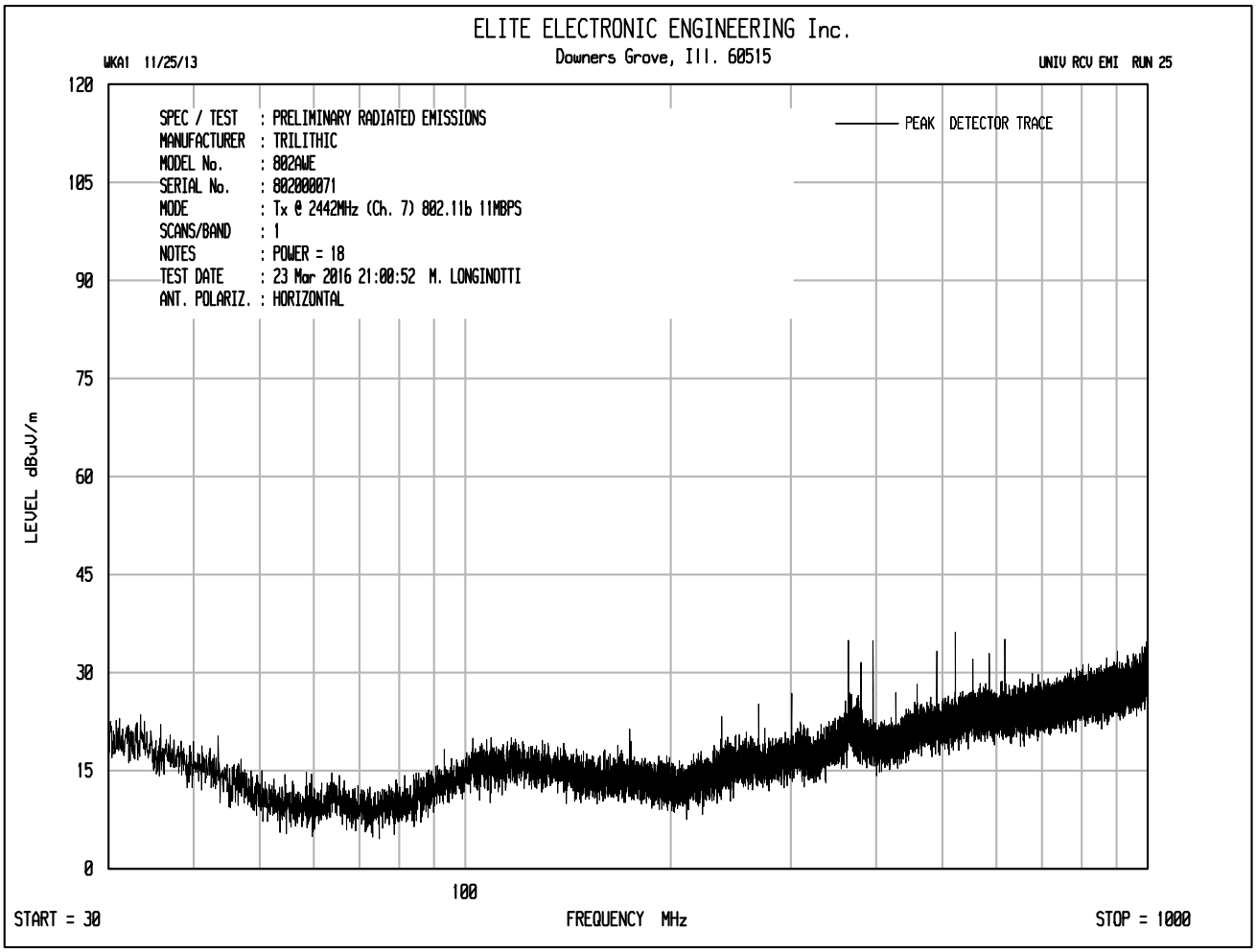
Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

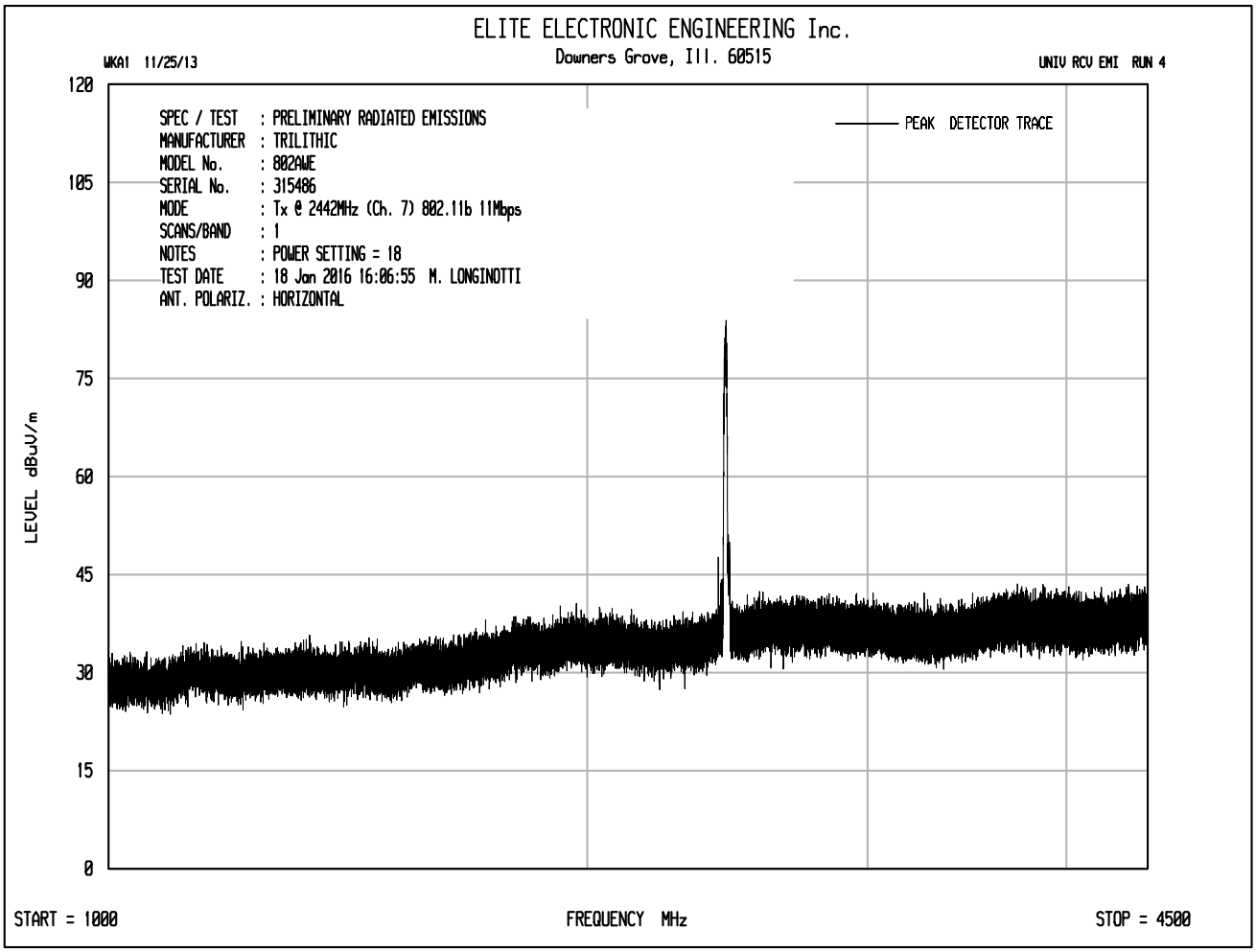
Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2412MHz, 802.11n 65 Mb/sec, power setting = 11
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

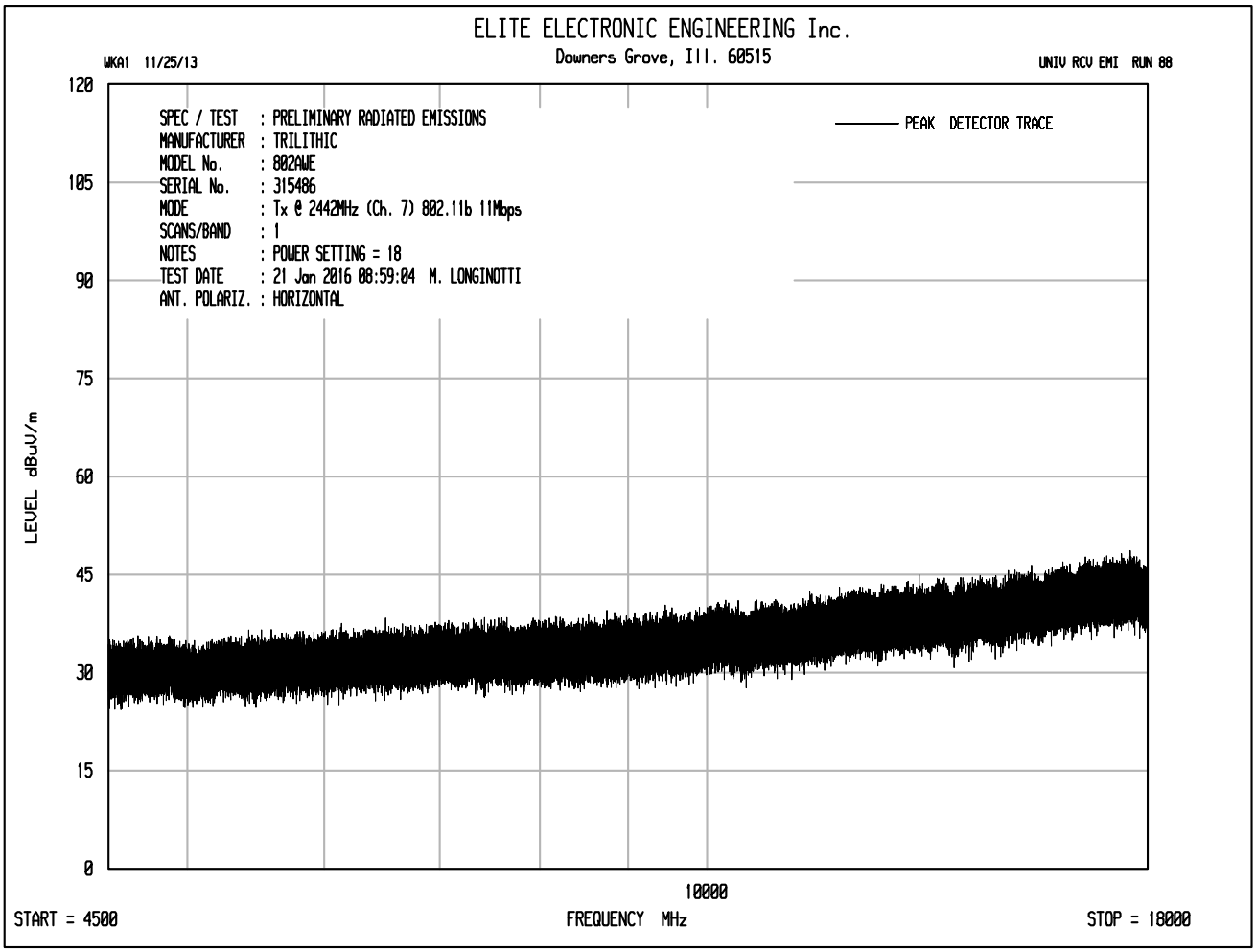
Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4824.00	H	32.2	Ambient	4.8	34.2	-39.3	31.9	39.5	500.0	-22.0
4824.00	V	33.0	Ambient	4.8	34.2	-39.3	32.7	43.3	500.0	-21.2
12060.00	H	31.7	Ambient	8.0	39.1	-39.1	39.7	96.7	500.0	-14.3
12060.00	V	31.7	Ambient	8.0	39.1	-39.1	39.7	96.7	500.0	-14.3
14472.00	H	31.4	Ambient	8.7	39.6	-38.3	41.4	118.0	500.0	-12.5
14472.00	V	31.3	Ambient	8.7	39.6	-38.3	41.3	116.7	500.0	-12.6
19296.00	H	23.9	Ambient	2.2	40.4	-28.3	38.2	81.2	500.0	-15.8
19296.00	V	23.4	Ambient	2.2	40.4	-28.3	37.7	76.6	500.0	-16.3

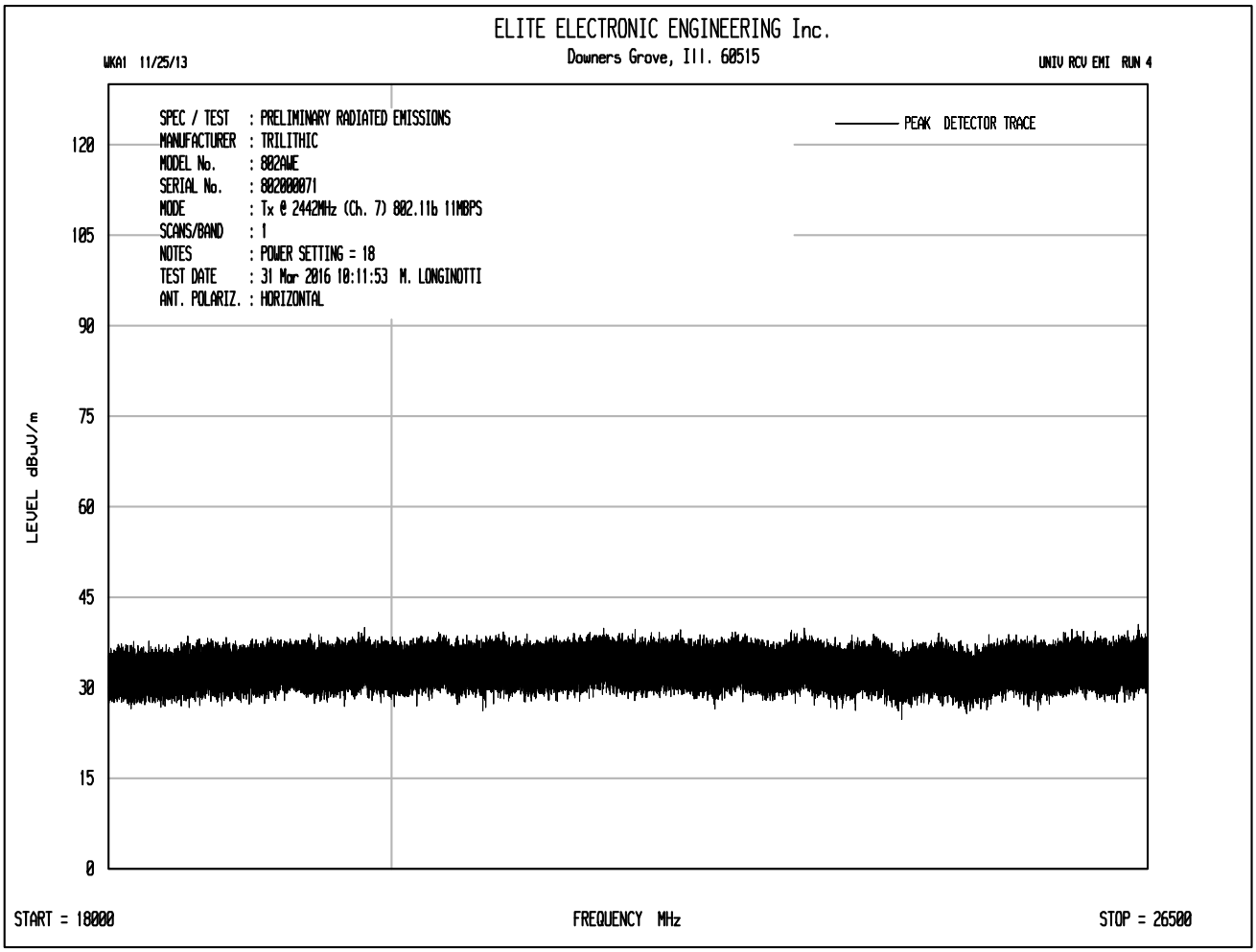
Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

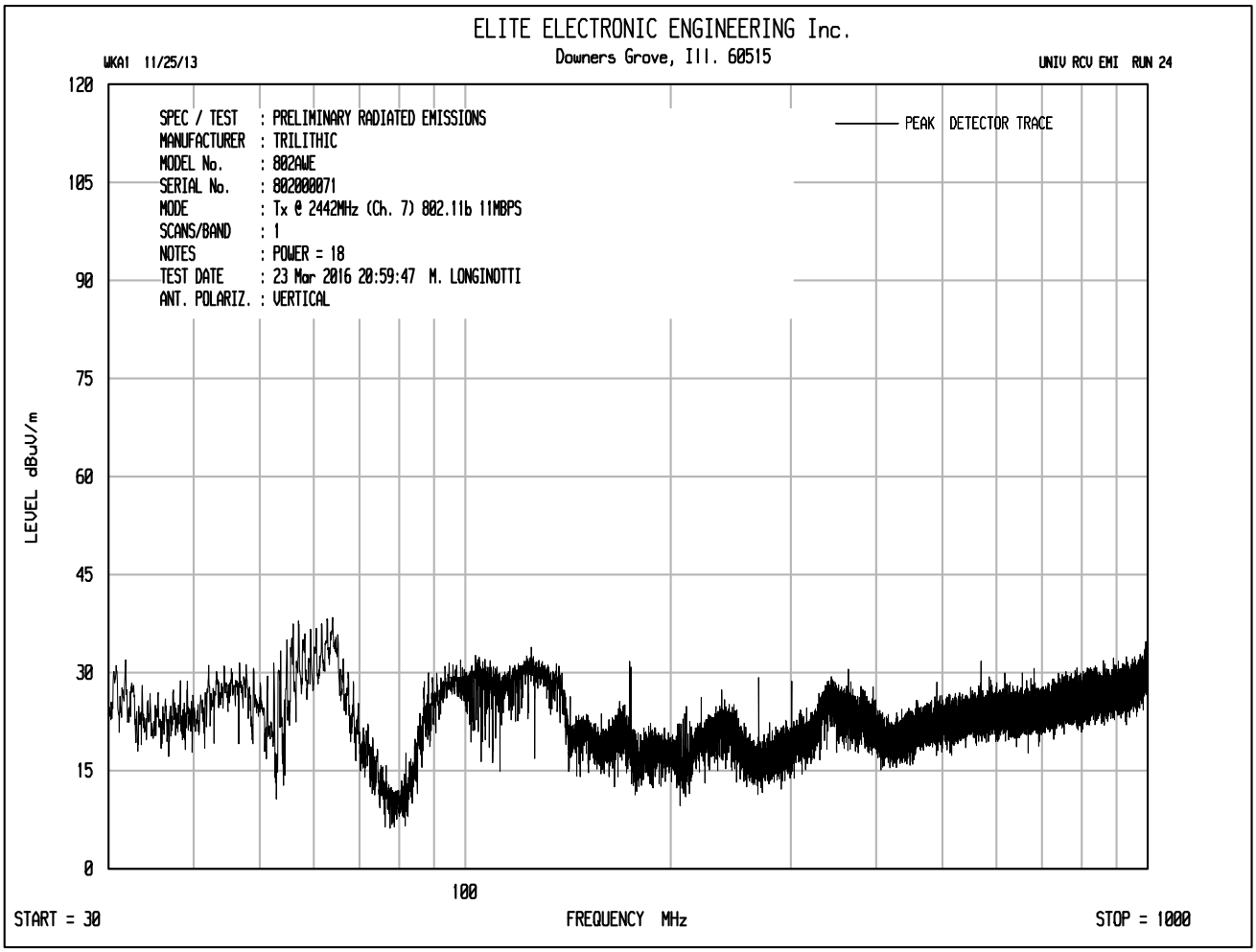
Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

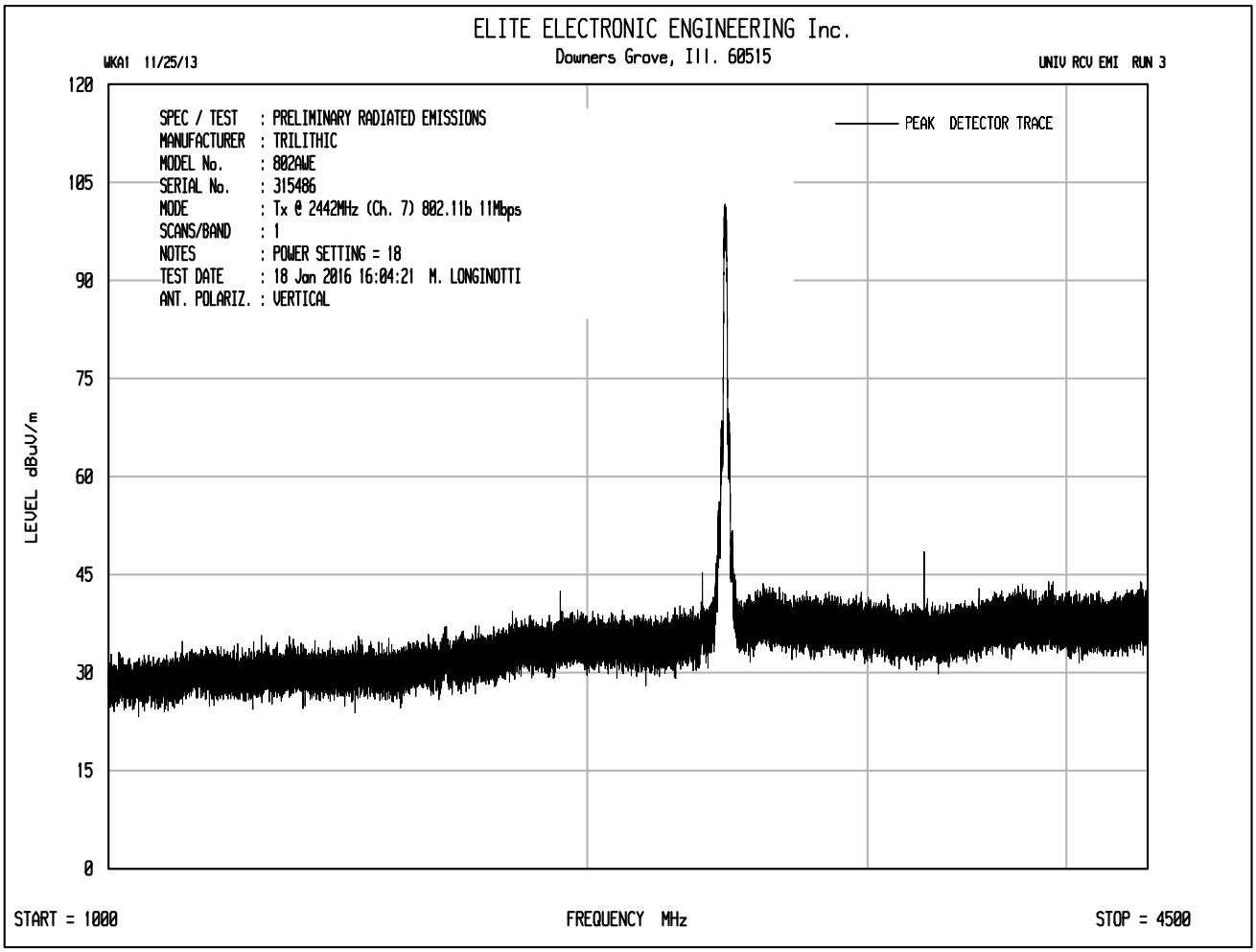

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 25
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER = 18
TEST DATE : 23 Mar 2016 21:00:52 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

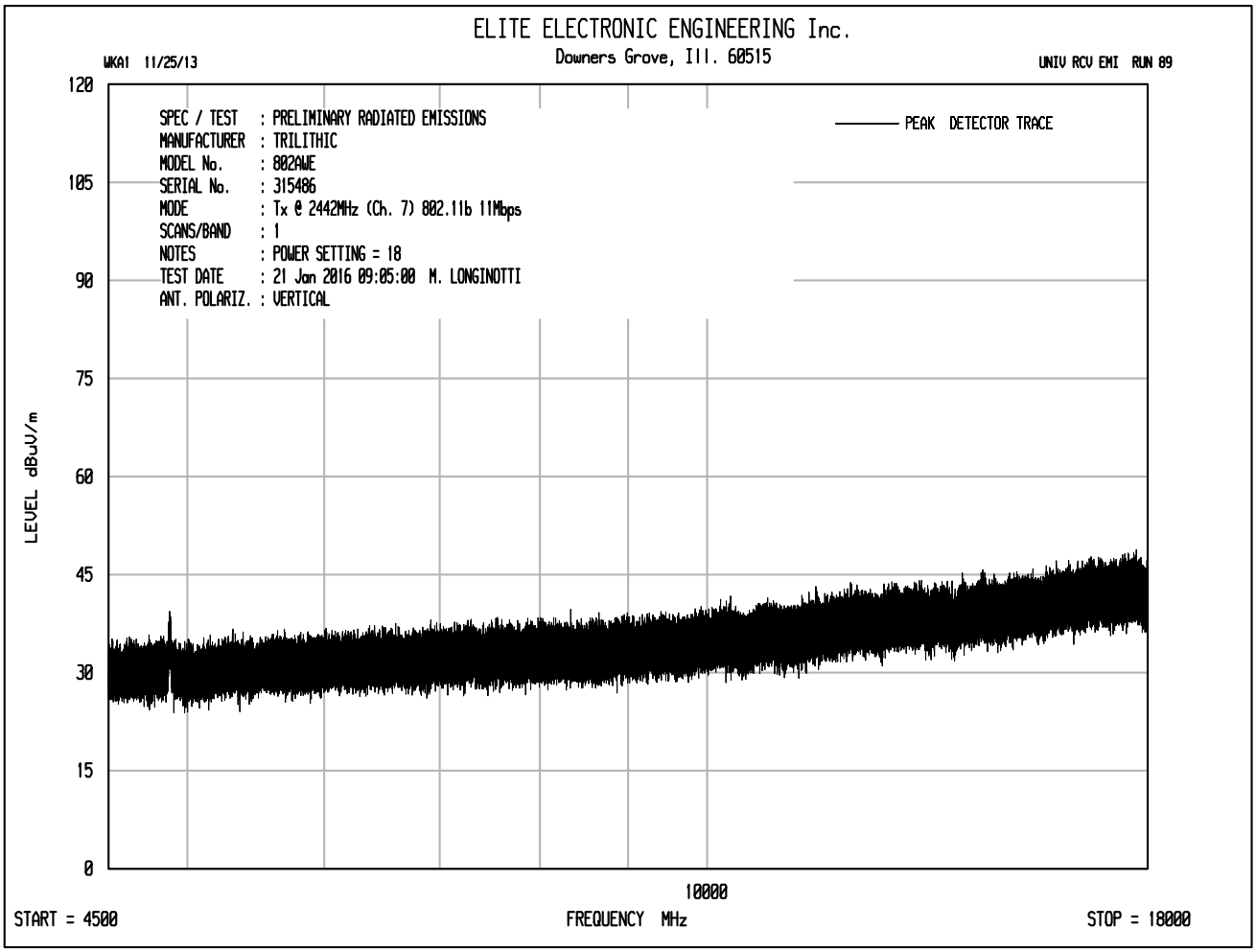

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 4
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11b 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 18 Jan 2016 16:06:55 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

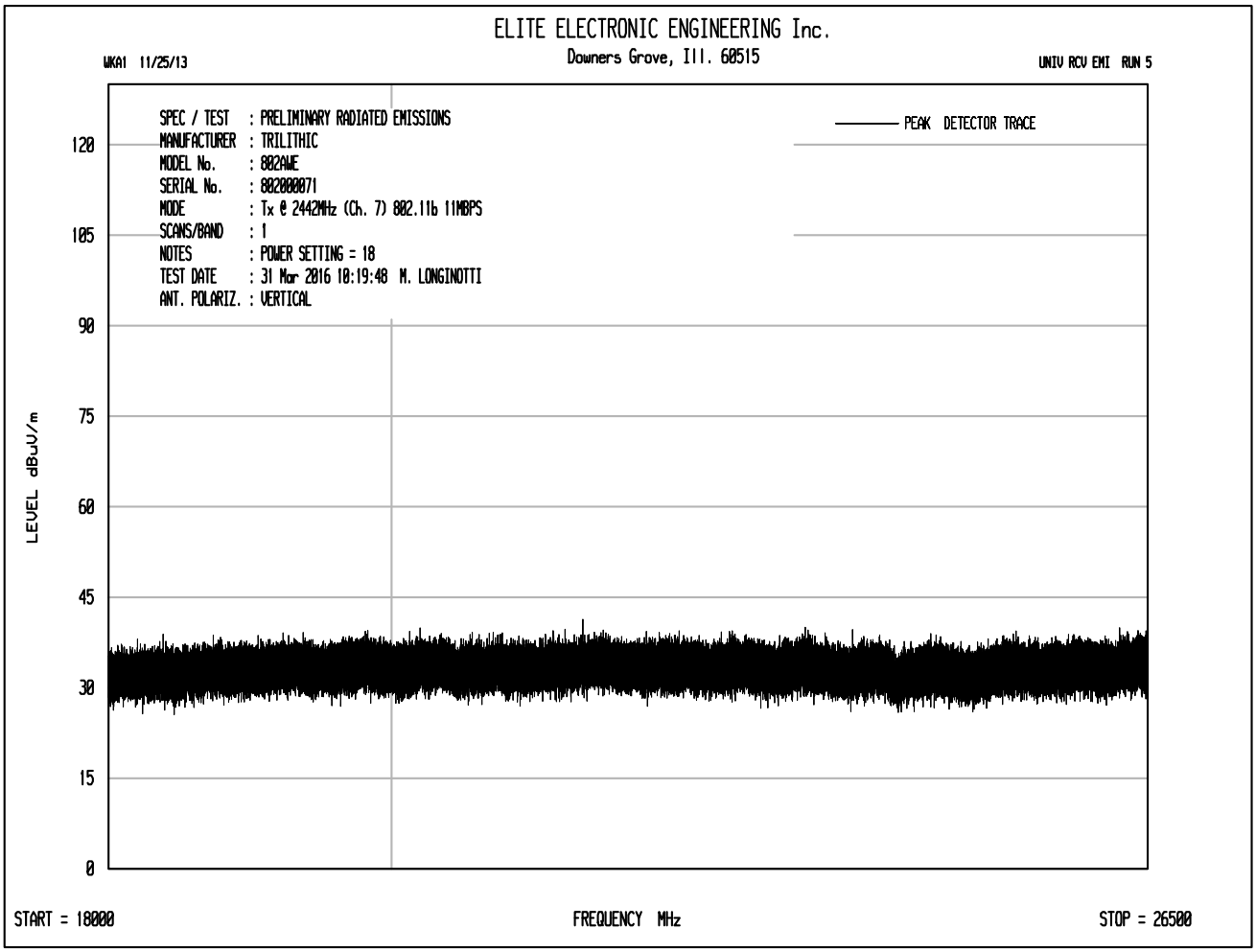

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 88
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11b 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 21 Jan 2016 08:59:04 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

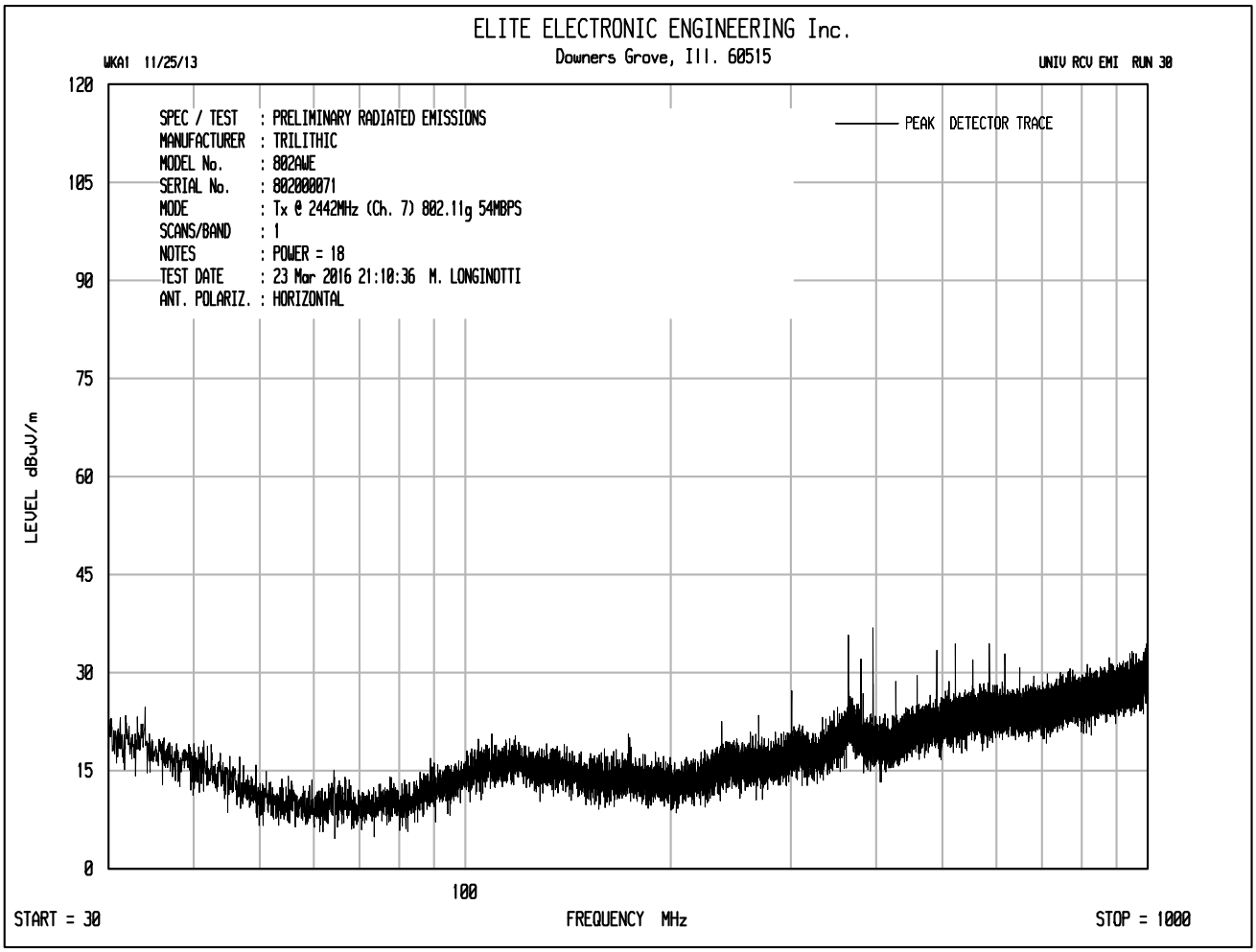

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 4
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 31 Mar 2016 10:11:53 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

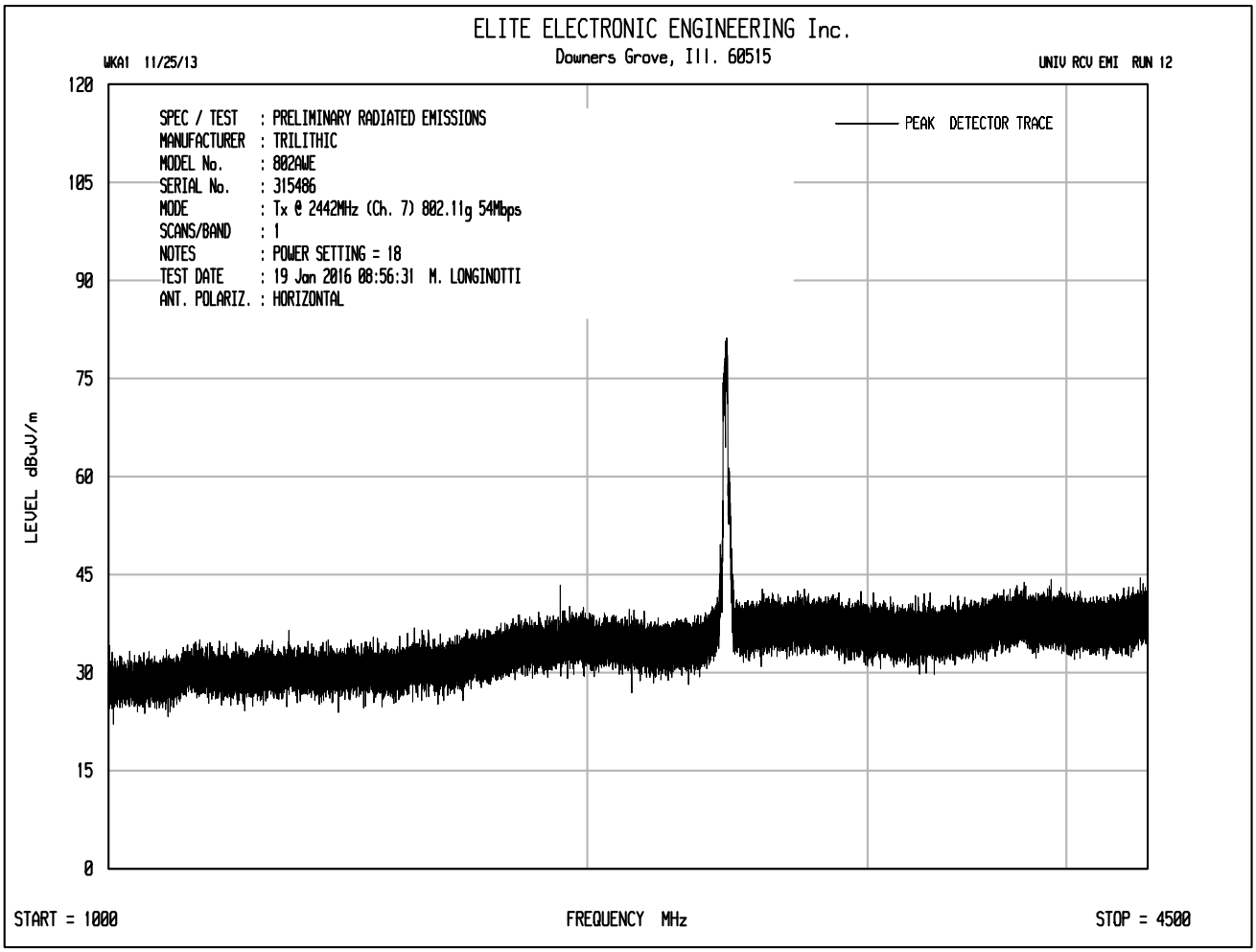

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 24
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER = 18
TEST DATE : 23 Mar 2016 20:59:47 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

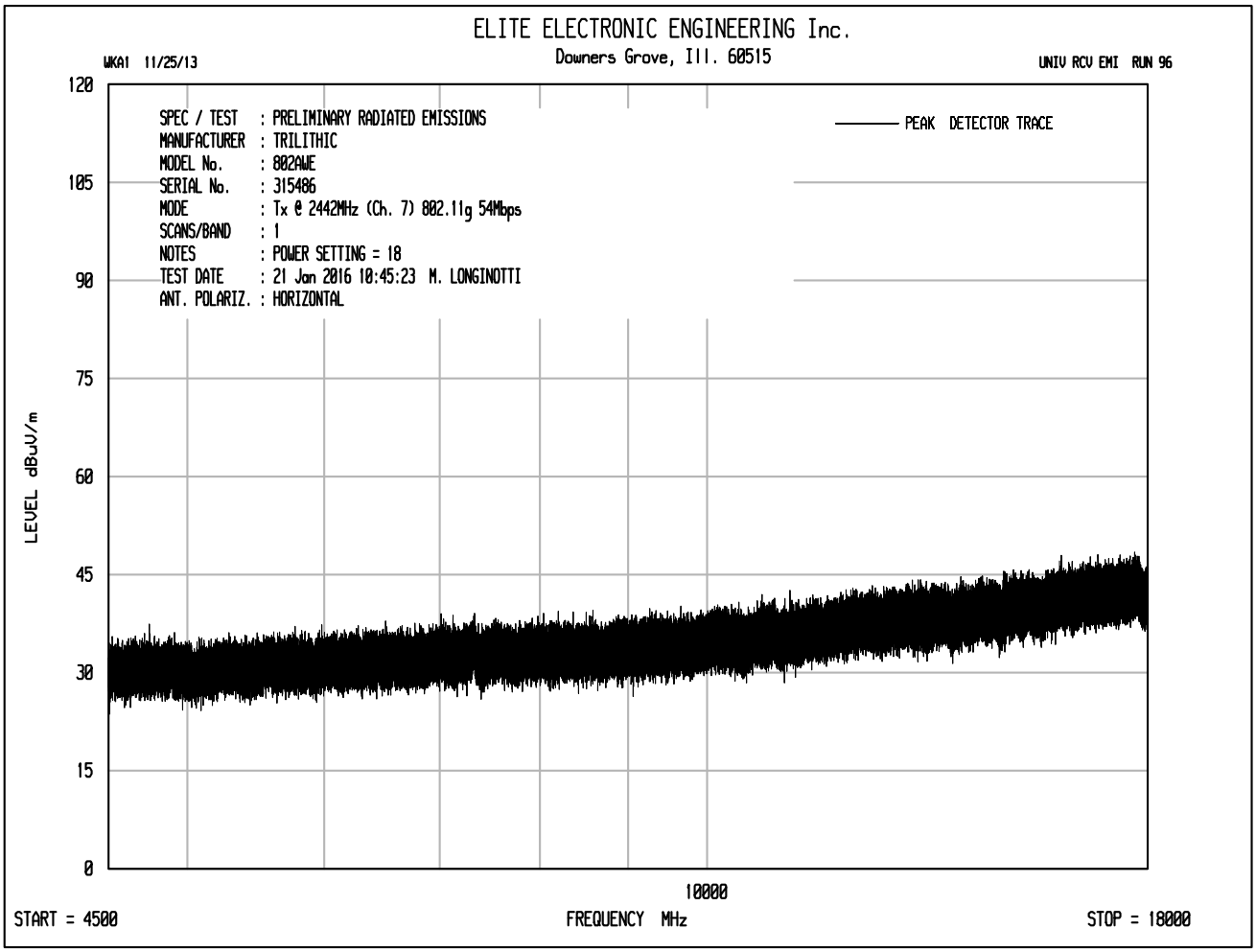

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 3
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11b 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 18 Jan 2016 16:04:21 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

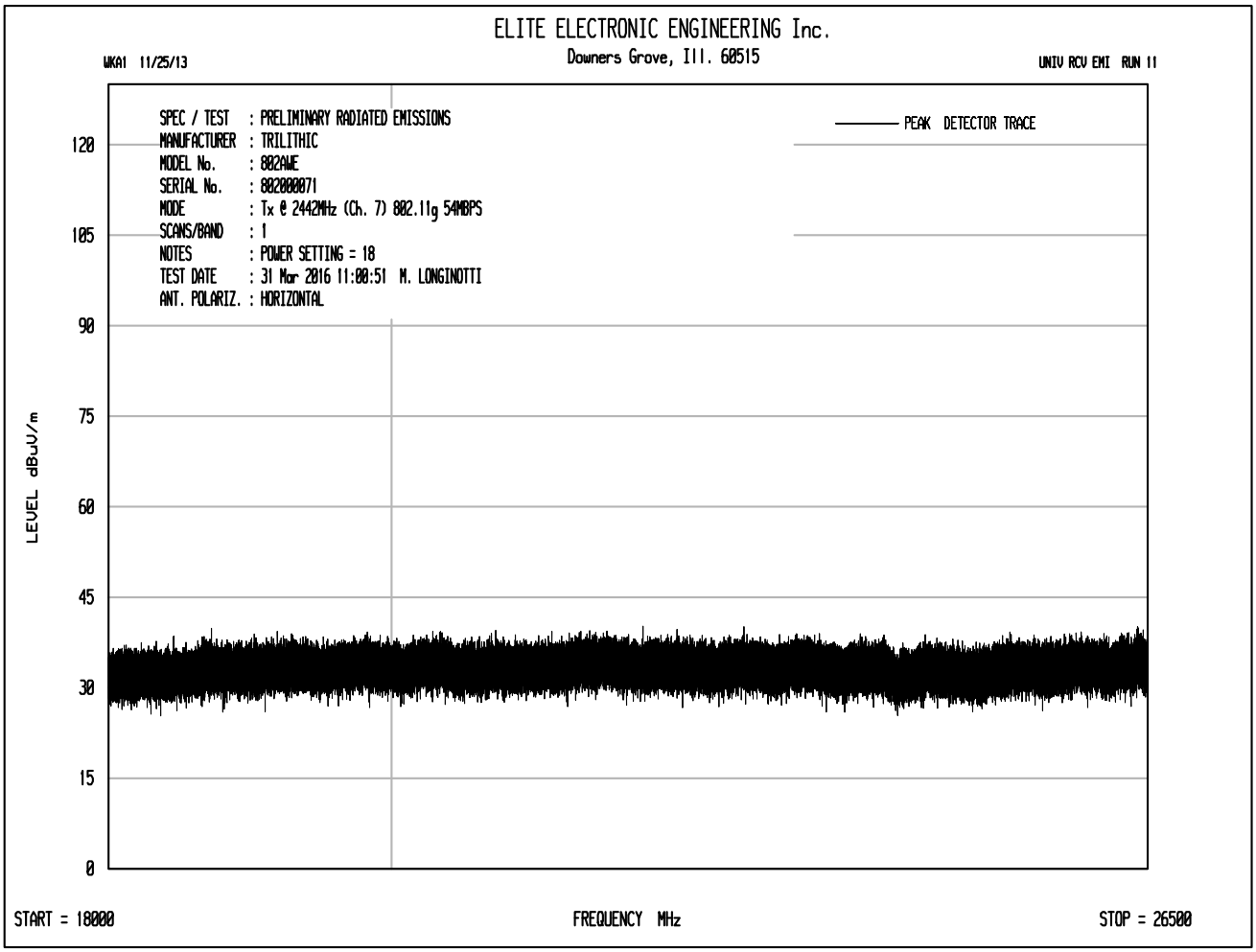

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 89
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11b 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 21 Jan 2016 09:05:00 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

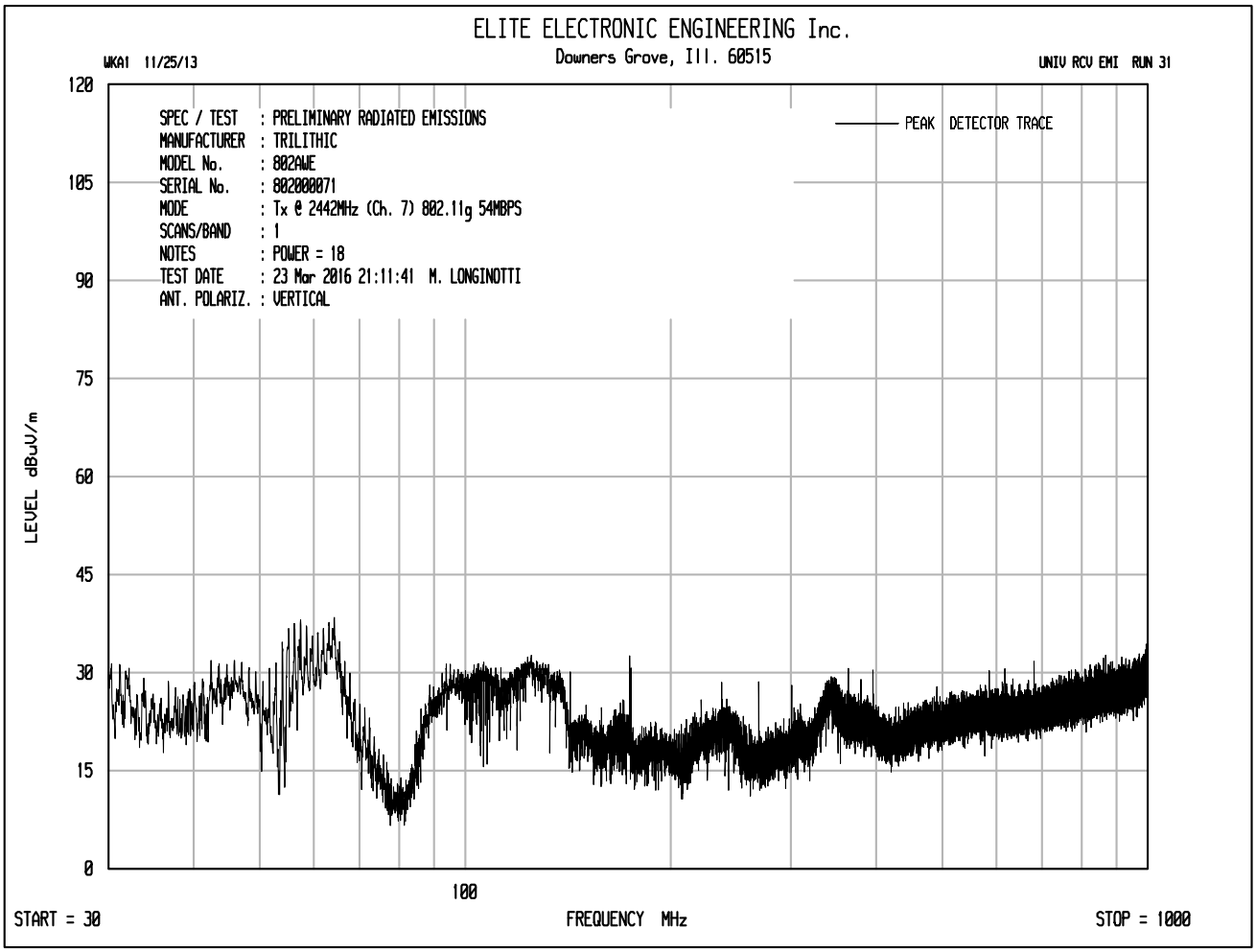

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 5
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 31 Mar 2016 10:19:48 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

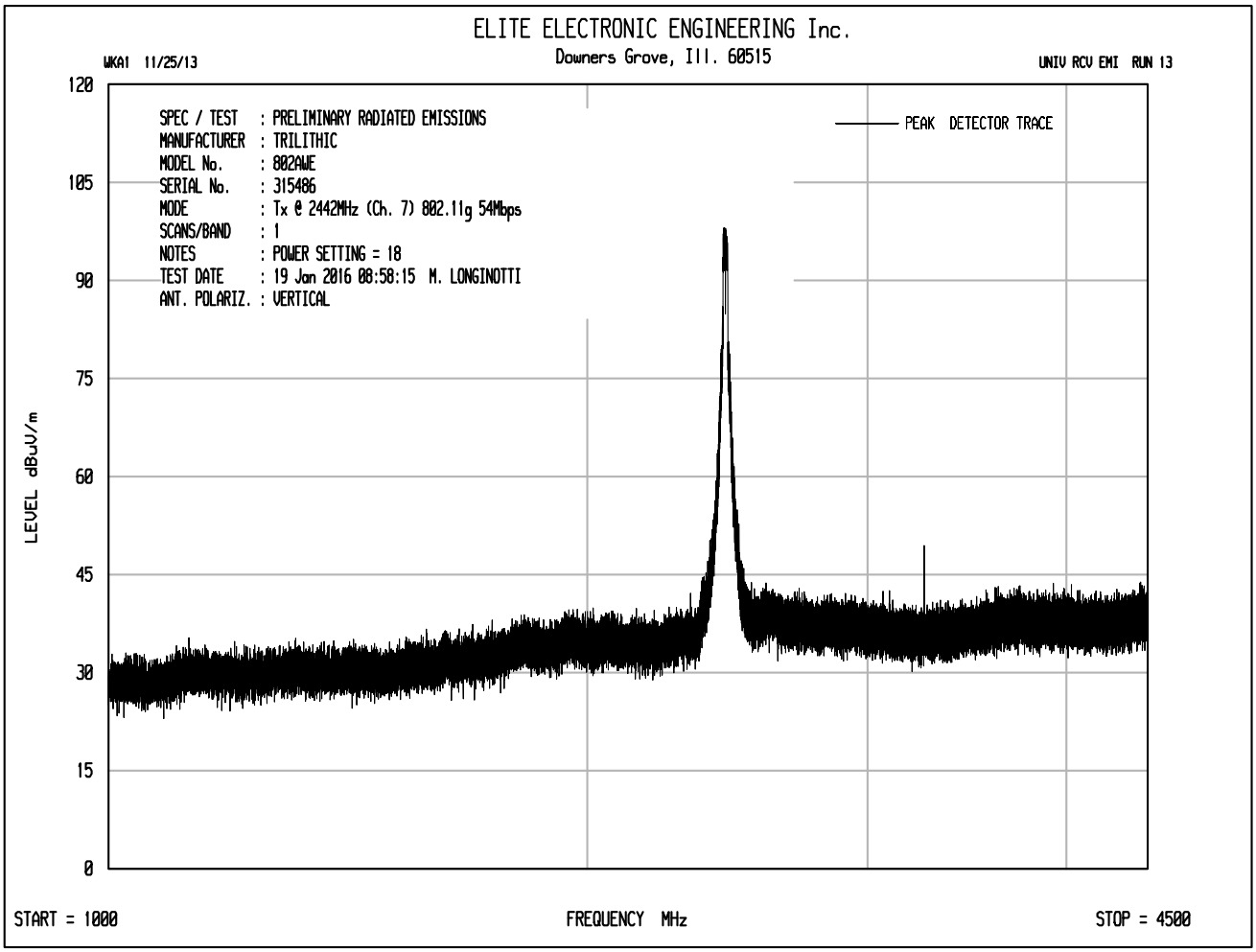

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 30
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER = 18
TEST DATE : 23 Mar 2016 21:10:36 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

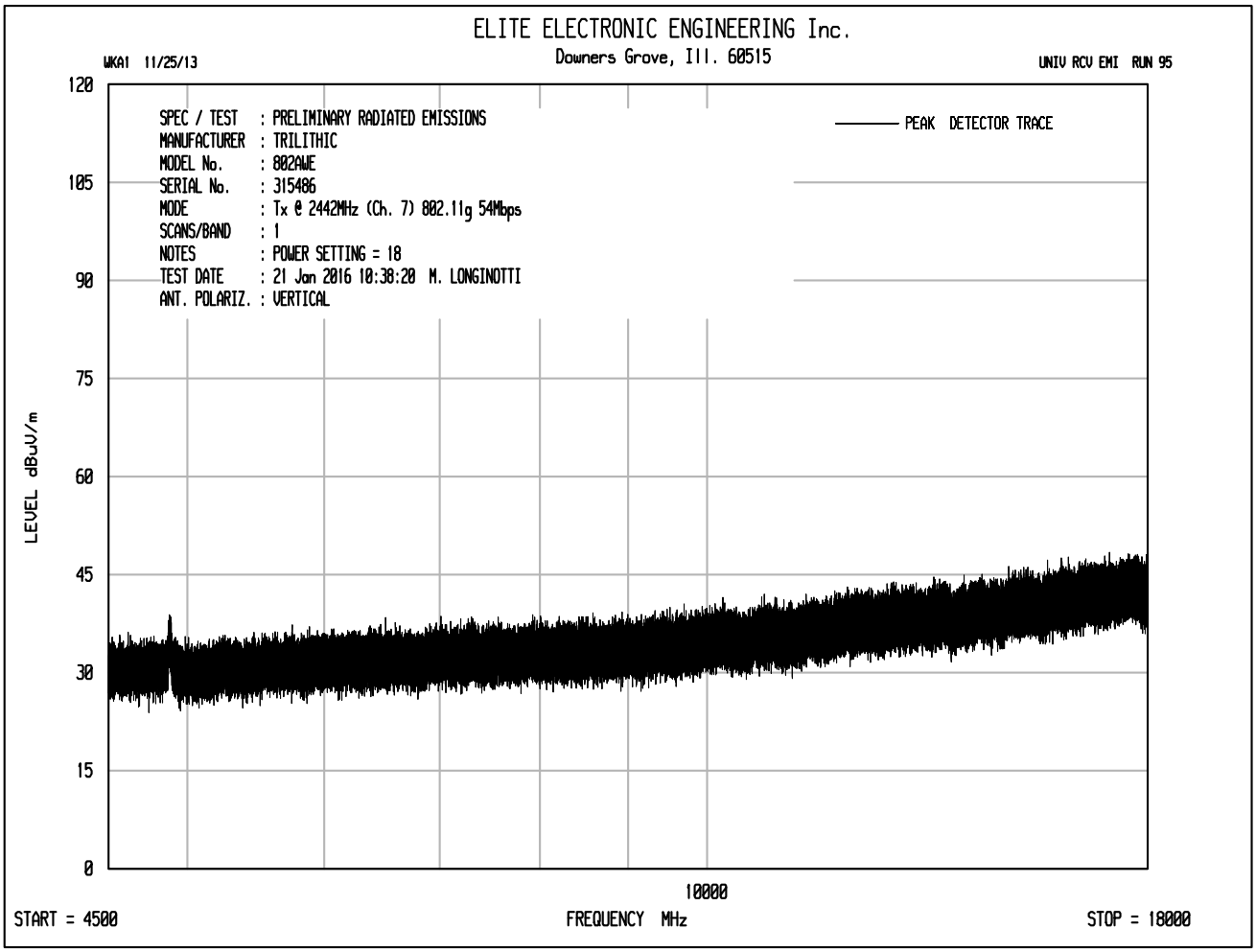

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 12
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 19 Jan 2016 08:56:31 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

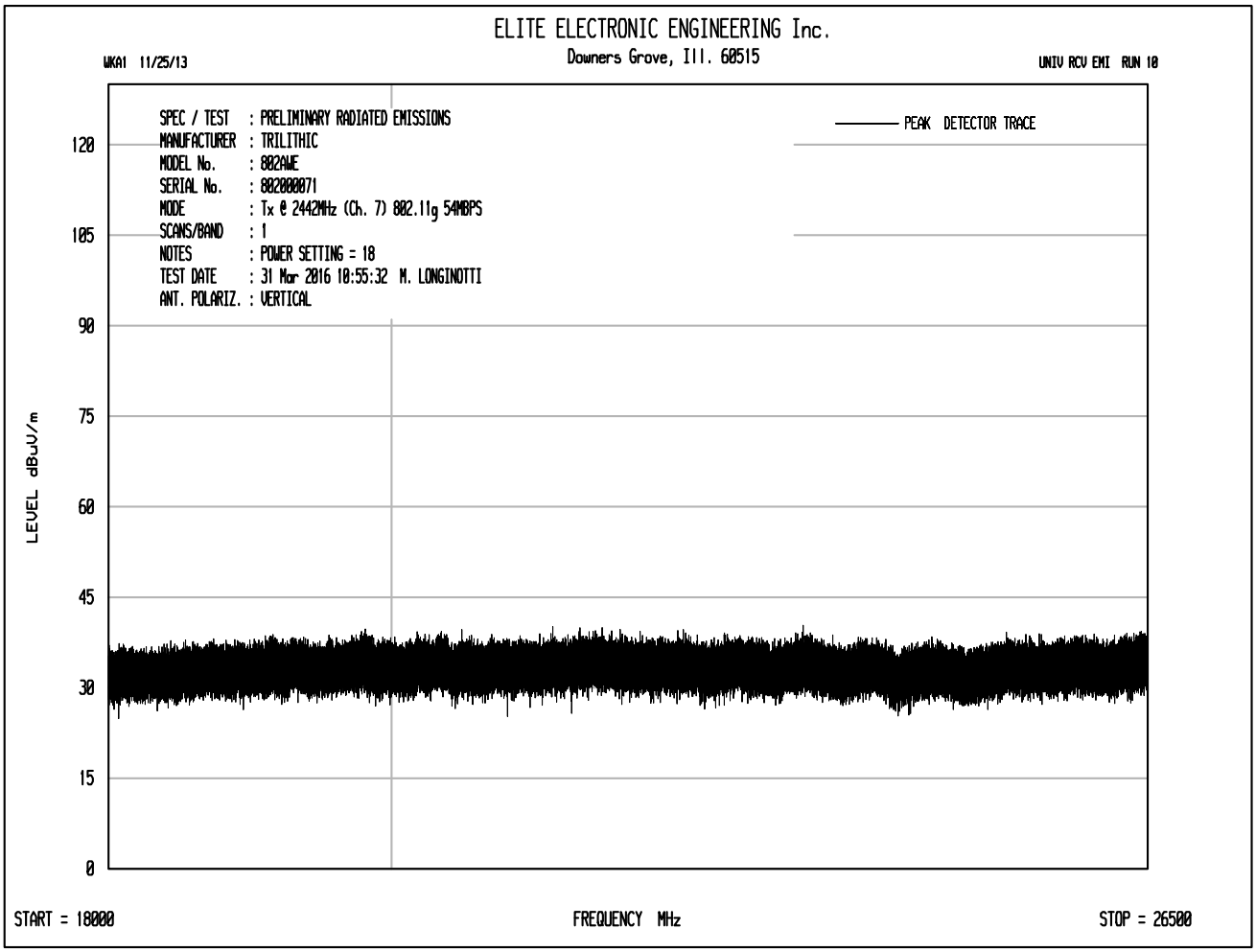

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 96
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 21 Jan 2016 10:45:23 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

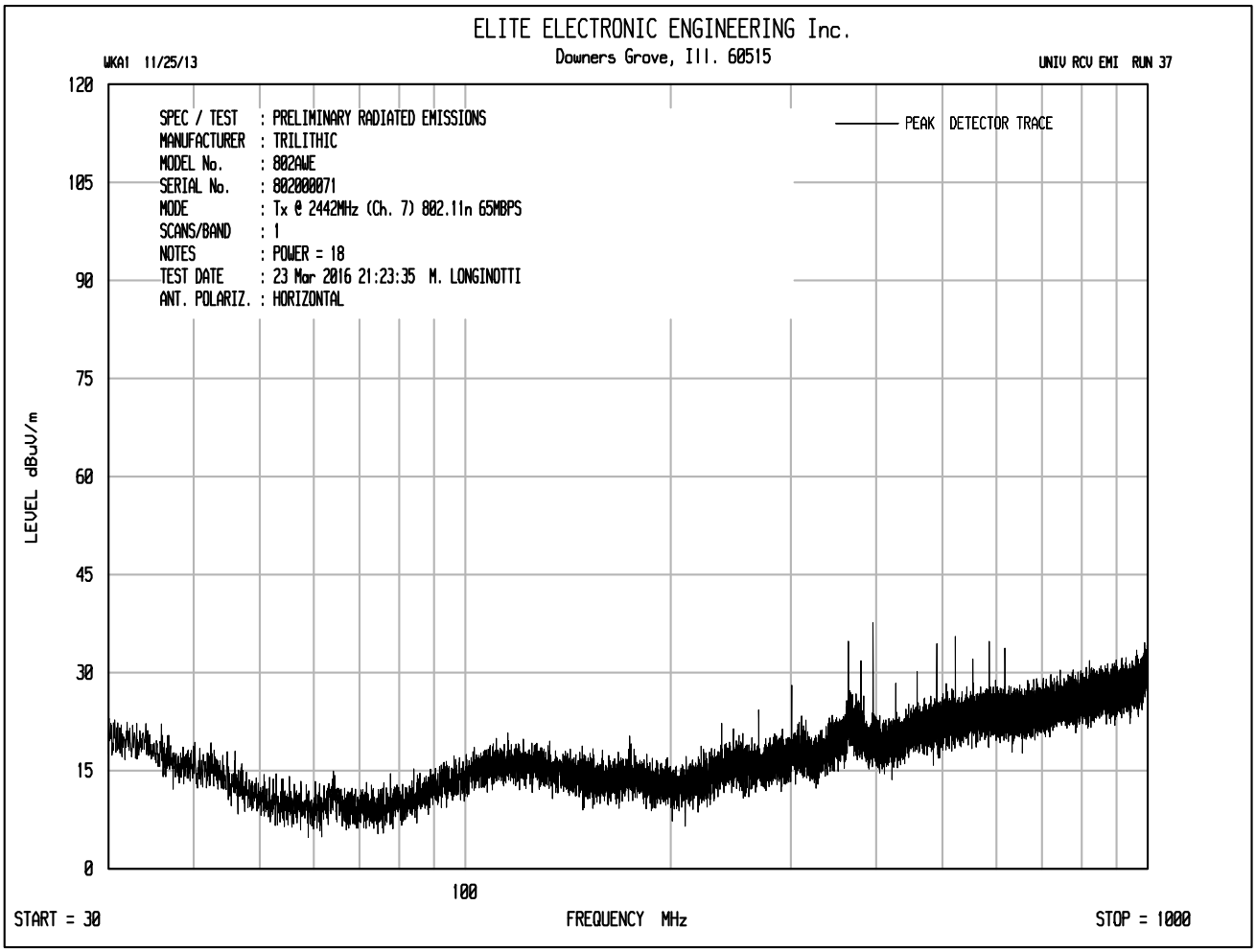

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 11
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 31 Mar 2016 11:00:51 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

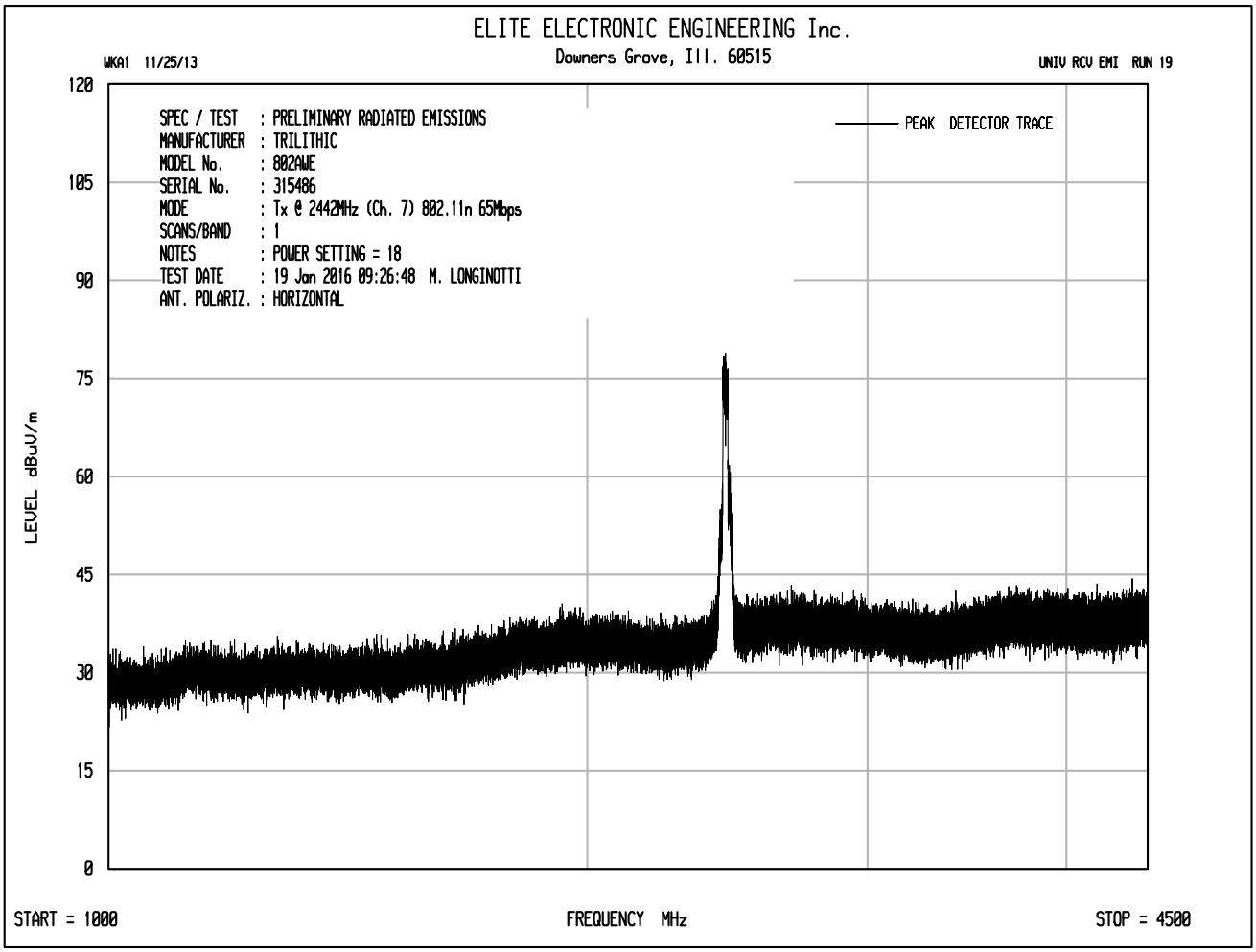

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 31
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER = 18
TEST DATE : 23 Mar 2016 21:11:41 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

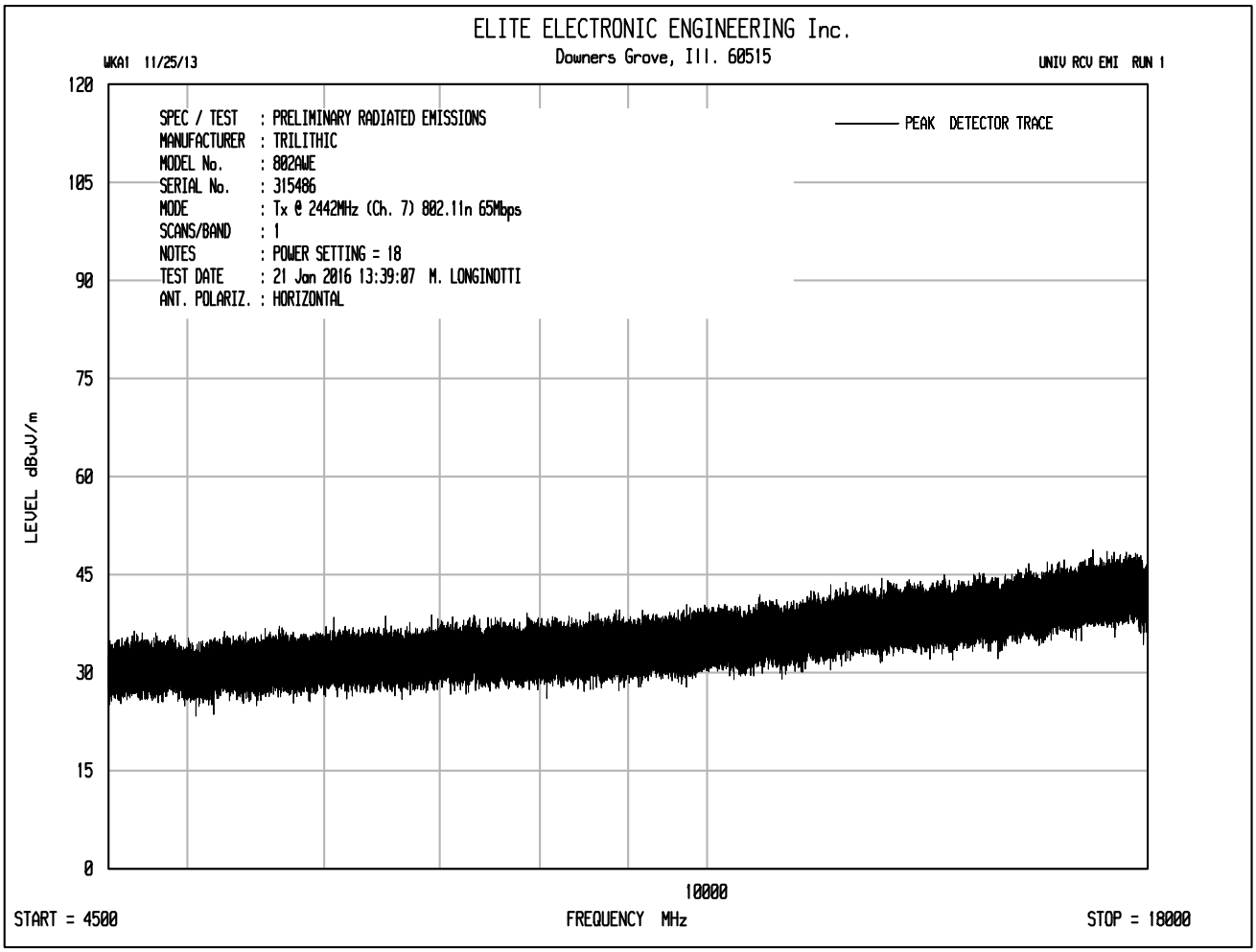

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 19 Jan 2016 08:58:15 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

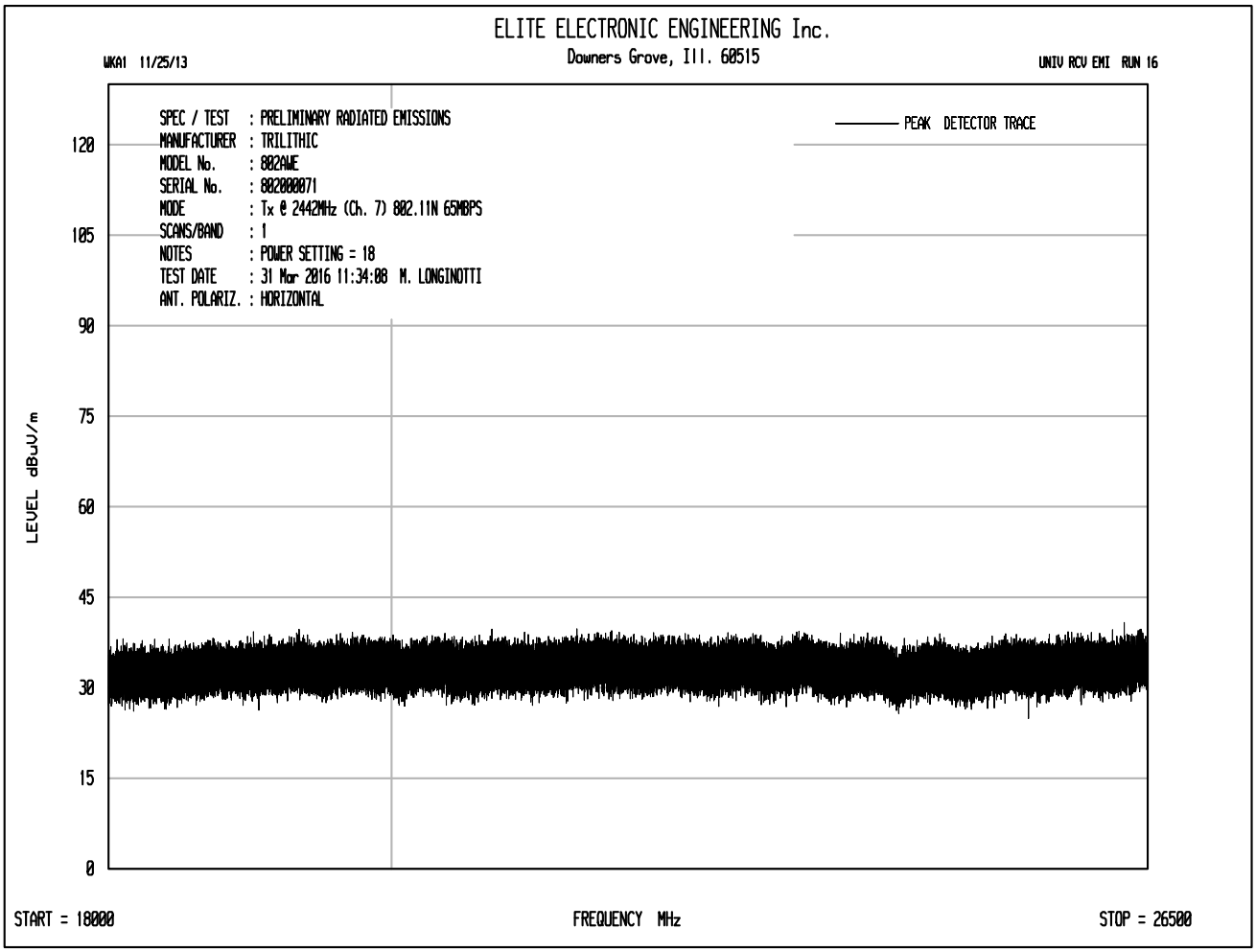

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 95
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 21 Jan 2016 10:38:20 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

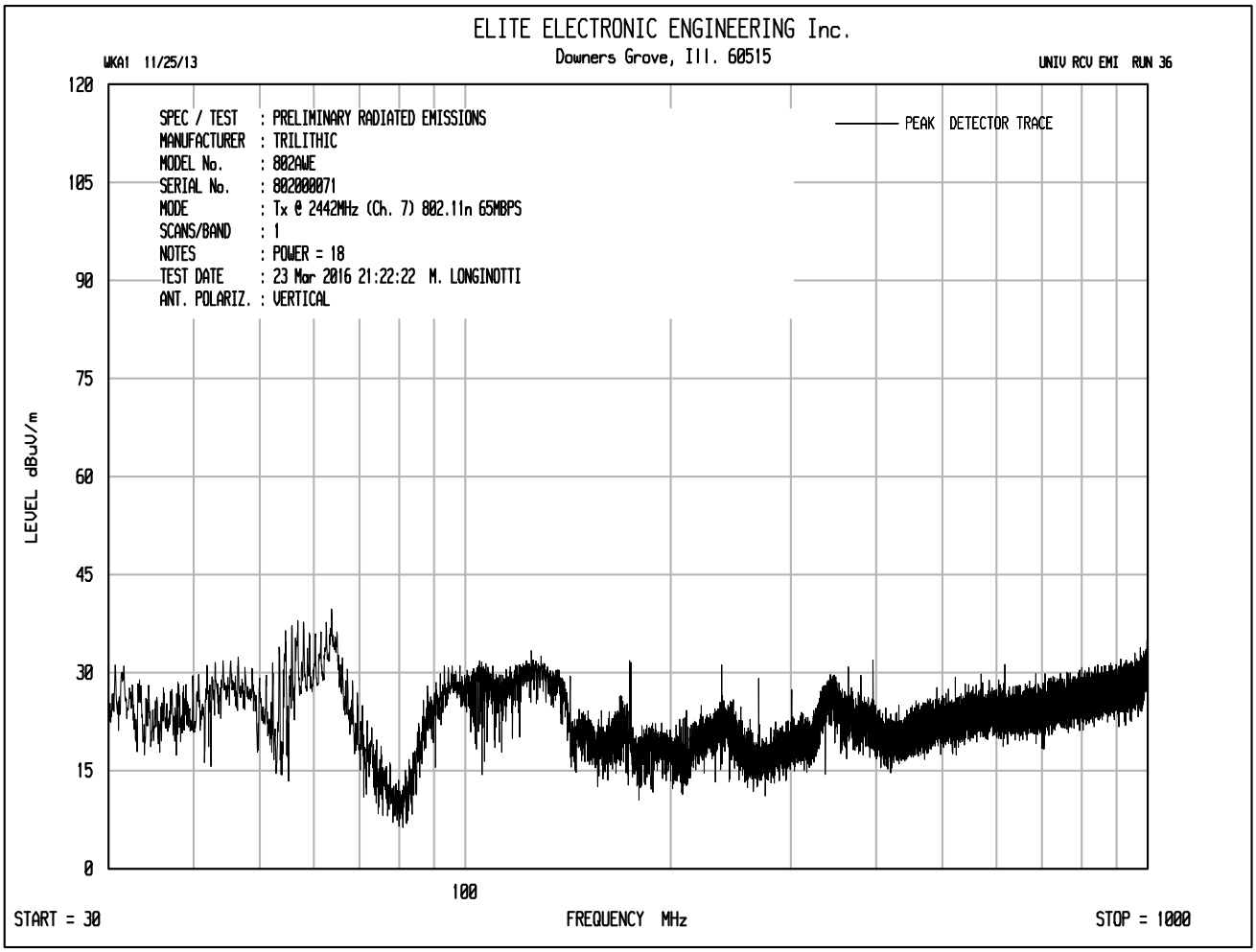

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 10
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 31 Mar 2016 10:55:32 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

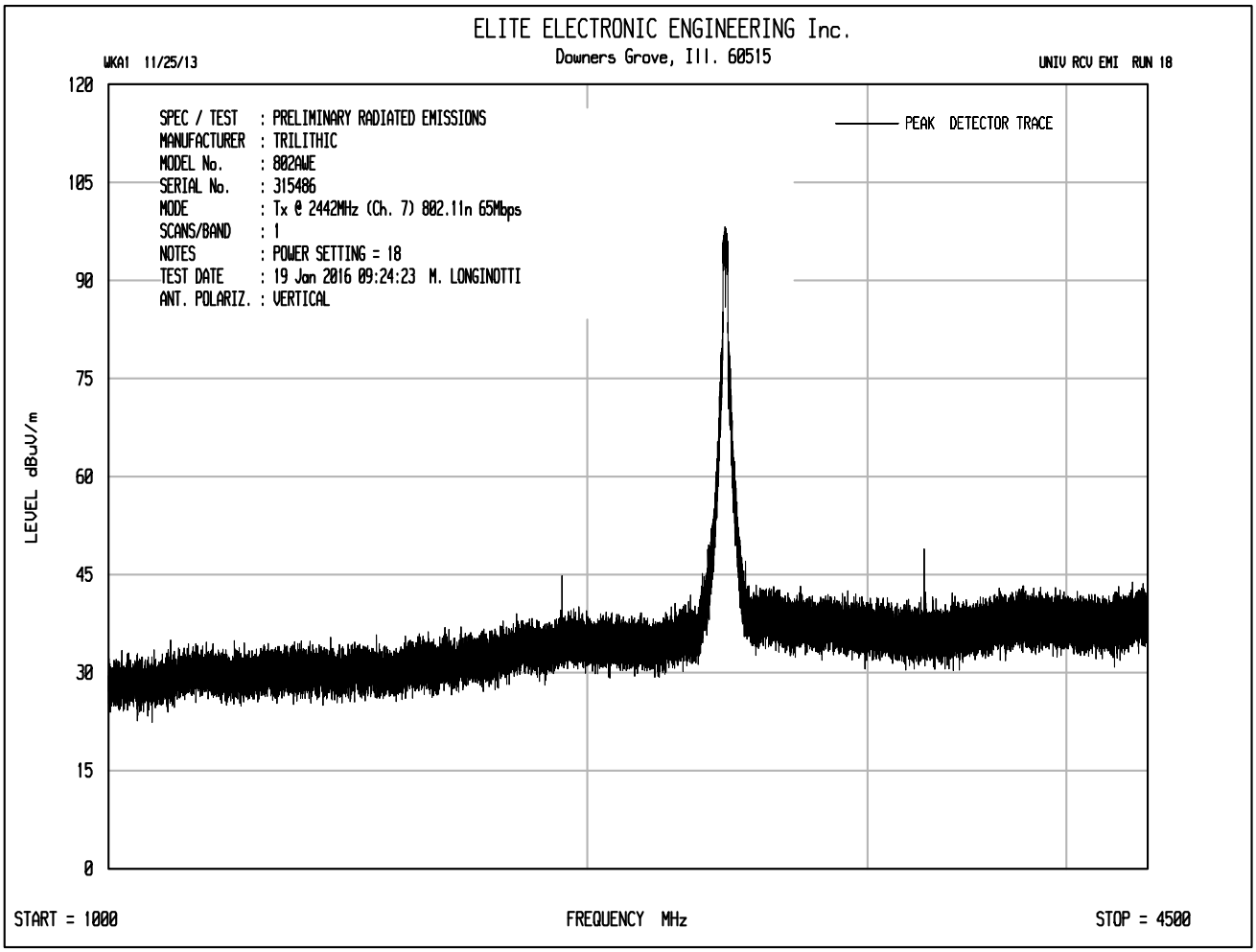

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 37
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11n 65MBPS
SCANS/BAND : 1
NOTES : POWER = 18
TEST DATE : 23 Mar 2016 21:23:35 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

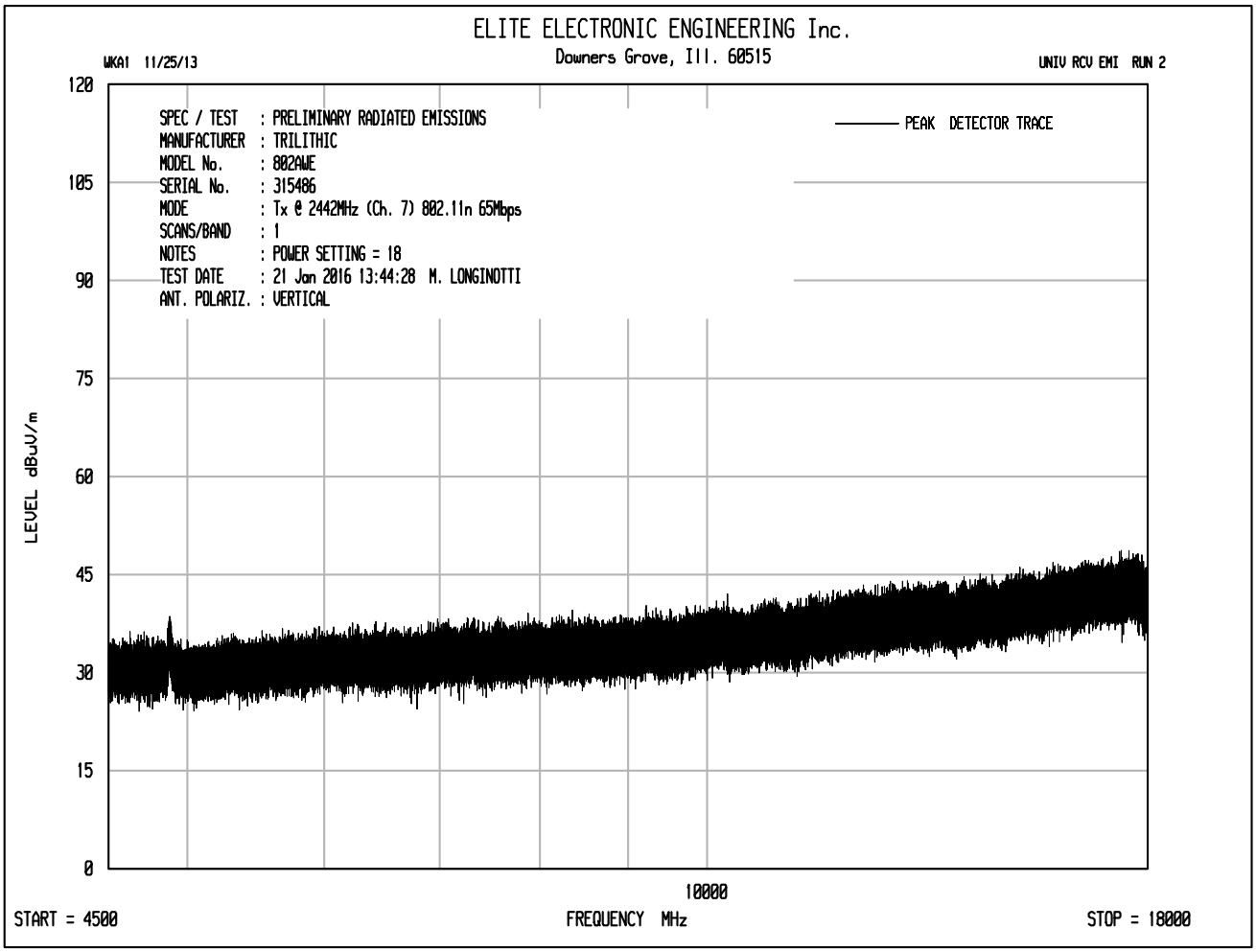

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 19
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 19 Jan 2016 09:26:48 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

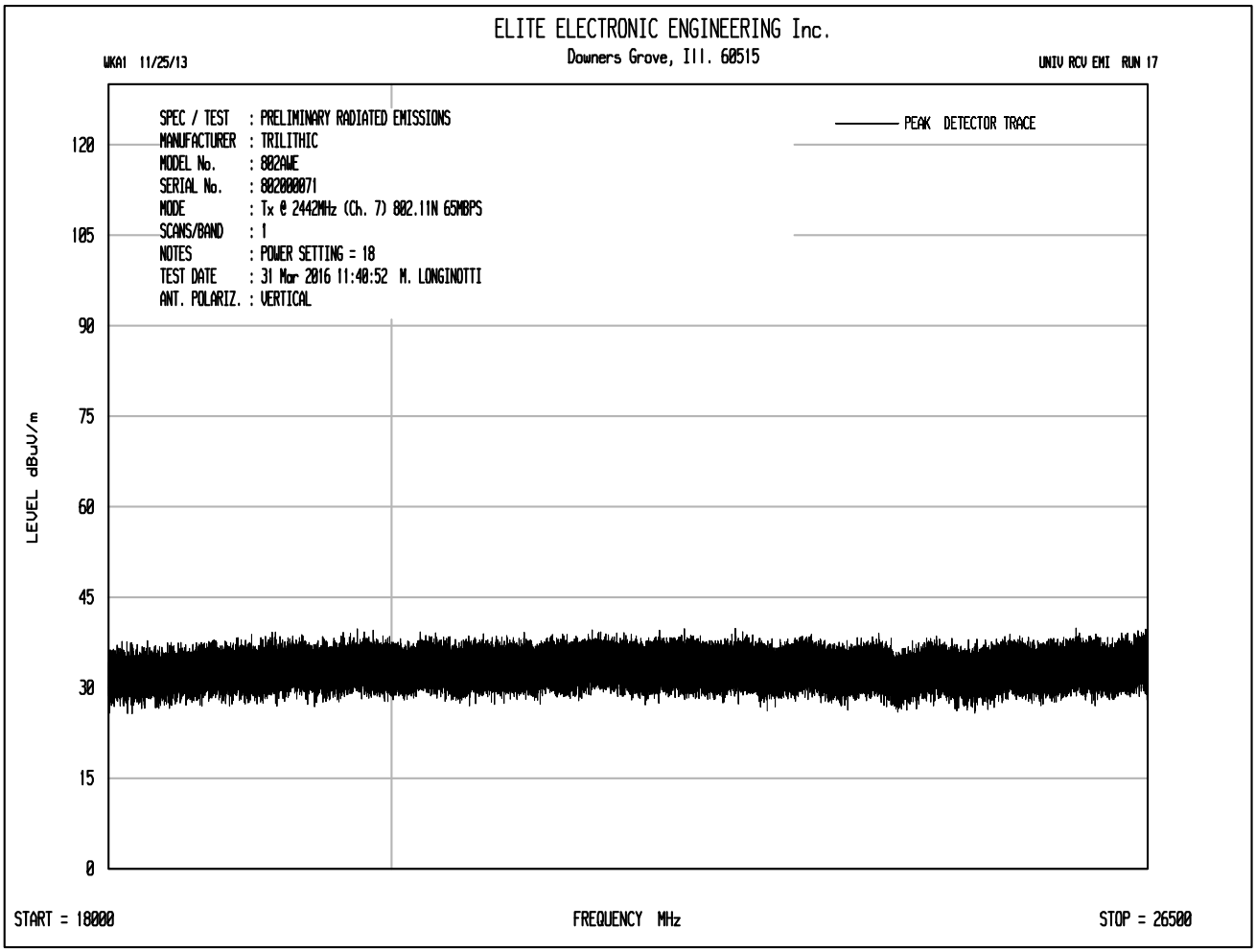

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 1
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 21 Jan 2016 13:39:07 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 16
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11N 65MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 31 Mar 2016 11:34:08 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 36
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11n 65MBPS
SCANS/BAND : 1
NOTES : POWER = 18
TEST DATE : 23 Mar 2016 21:22:22 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 18
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 19 Jan 2016 09:24:23 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 2
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2442MHz (Ch. 7) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 21 Jan 2016 13:44:28 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 17
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2442MHz (Ch. 7) 802.11N 65MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 18
TEST DATE : 31 Mar 2016 11:40:52 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2442MHz, 802.11b 11 Mb/sec, power setting = 18
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4884.00	H	51.2		4.9	34.2	-39.3	50.9	352.5	5000.0	-23.0
4884.00	V	55.4		4.9	34.2	-39.3	55.1	571.8	5000.0	-18.8
7326.00	H	51.8		6.2	36.2	-39.4	54.7	543.7	5000.0	-19.3
7326.00	V	49.1		6.2	36.2	-39.4	52.0	398.4	5000.0	-22.0
12210.00	H	47.6	Ambient	8.0	39.3	-39.1	55.8	615.6	5000.0	-18.2
12210.00	V	47.5	Ambient	8.0	39.3	-39.1	55.7	608.6	5000.0	-18.3
19536.00	H	36.7	Ambient	2.2	40.4	-28.5	50.9	349.2	5000.0	-23.1
19536.00	V	36.8	Ambient	2.2	40.4	-28.5	51.0	353.2	5000.0	-23.0

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2442MHz, 802.11b 11 Mb/sec, power setting = 18
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4884.00	H	38.3		4.9	34.2	-39.3	38.0	79.8	500.0	-15.9
4884.00	V	43.8		4.9	34.2	-39.3	43.5	150.4	500.0	-10.4
7326.00	H	41.80		6.2	36.2	-39.4	44.7	171.9	500.0	-9.3
7326.00	V	40.9		6.2	36.2	-39.4	43.8	155.0	500.0	-10.2
12210.00	H	34.9	Ambient	8.0	39.3	-39.1	43.1	142.7	500.0	-10.9
12210.00	V	35.0	Ambient	8.0	39.3	-39.1	43.2	144.3	500.0	-10.8
19536.00	H	23.8	Ambient	2.2	40.4	-28.5	38.0	79.1	500.0	-16.0
19536.00	V	23.6	Ambient	2.2	40.4	-28.5	37.8	77.3	500.0	-16.2

Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2442MHz, 802.11g 54 Mb/sec, power setting = 18
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4884.00	H	50.9	Ambient	4.9	34.2	-39.3	50.6	340.6	5000.0	-23.3
4884.00	V	55.0		4.9	34.2	-39.3	54.7	546.0	5000.0	-19.2
7326.00	H	53.2		6.2	36.2	-39.4	56.1	638.8	5000.0	-17.9
7326.00	V	51.5		6.2	36.2	-39.4	54.4	525.2	5000.0	-19.6
12210.00	H	47.2	Ambient	8.0	39.3	-39.1	55.4	587.9	5000.0	-18.6
12210.00	V	47.3	Ambient	8.0	39.3	-39.1	55.5	594.7	5000.0	-18.5
19536.00	H	36.2	Ambient	2.2	40.4	-28.5	50.4	329.7	5000.0	-23.6
19536.00	V	36.8	Ambient	2.2	40.4	-28.5	51.0	353.2	5000.0	-23.0

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2442MHz, 802.11g 54 Mb/sec, power setting = 18
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4884.00	H	38.4	Ambient	4.9	34.2	-39.3	38.1	80.8	500.0	-15.8
4884.00	V	42.9		4.9	34.2	-39.3	42.6	135.6	500.0	-11.3
7326.00	H	41.20		6.2	36.2	-39.4	44.1	160.5	500.0	-9.9
7326.00	V	39.9		6.2	36.2	-39.4	42.8	138.1	500.0	-11.2
12210.00	H	34.8	Ambient	8.0	39.3	-39.1	43.0	141.0	500.0	-11.0
12210.00	V	34.8	Ambient	8.0	39.3	-39.1	43.0	141.0	500.0	-11.0
19536.00	H	23.5	Ambient	2.2	40.4	-28.5	37.7	76.4	500.0	-16.3
19536.00	V	23.5	Ambient	2.2	40.4	-28.5	37.7	76.4	500.0	-16.3

Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2442MHz, 802.11n 65 Mb/sec, power setting = 18
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4884.00	H	50.9		4.9	34.2	-39.3	50.6	340.6	5000.0	-23.3
4884.00	V	53.9		4.9	34.2	-39.3	53.6	481.1	5000.0	-20.3
7326.00	H	53.3		6.2	36.2	-39.4	56.2	646.2	5000.0	-17.8
7326.00	V	49.9		6.2	36.2	-39.4	52.8	436.9	5000.0	-21.2
12210.00	H	47.3	Ambient	8.0	39.3	-39.1	55.5	594.7	5000.0	-18.5
12210.00	V	47.2	Ambient	8.0	39.3	-39.1	55.4	587.9	5000.0	-18.6
19536.00	H	36.7	Ambient	2.2	40.4	-28.5	50.9	349.2	5000.0	-23.1
19536.00	V	36.5	Ambient	2.2	40.4	-28.5	50.7	341.3	5000.0	-23.3

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

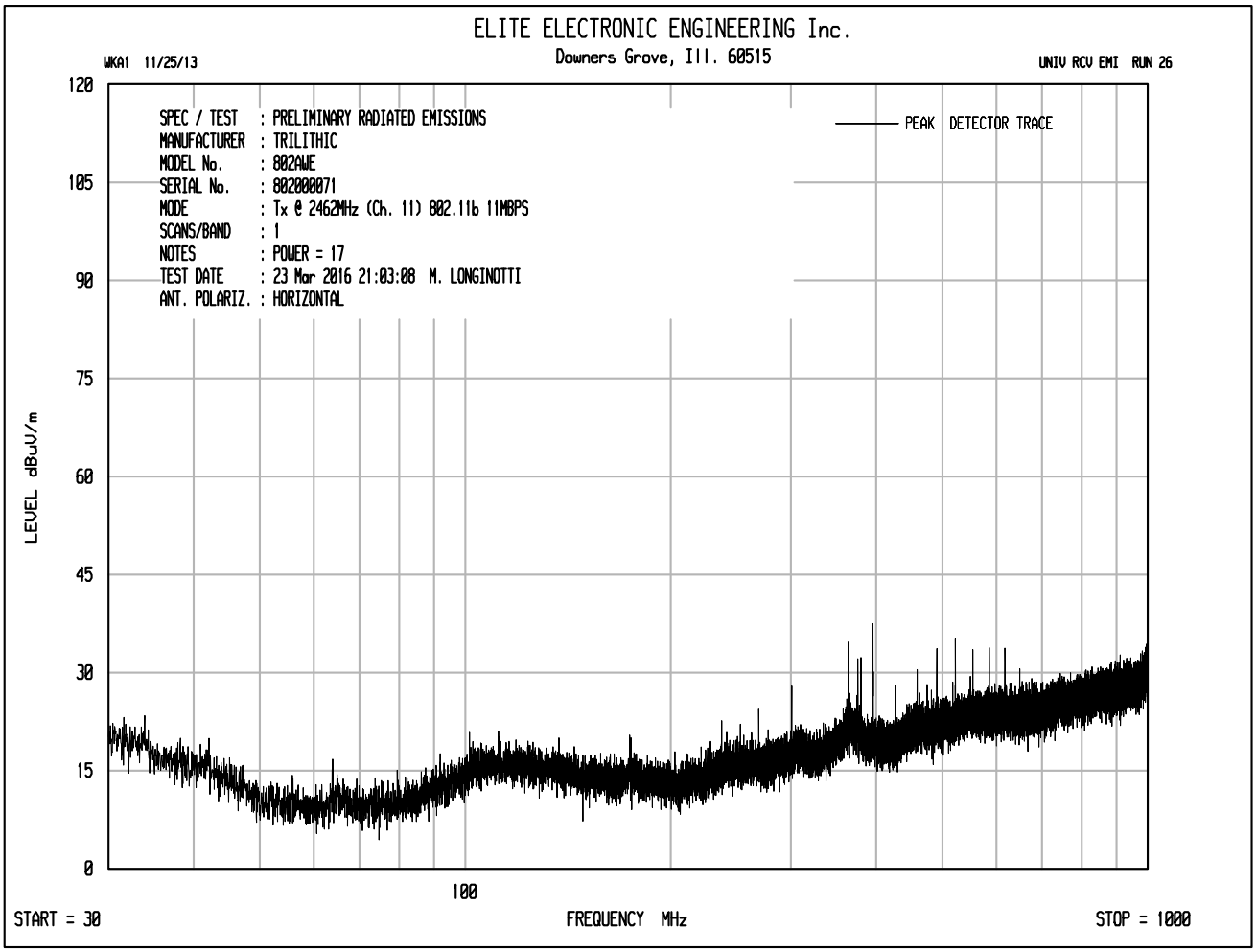
Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

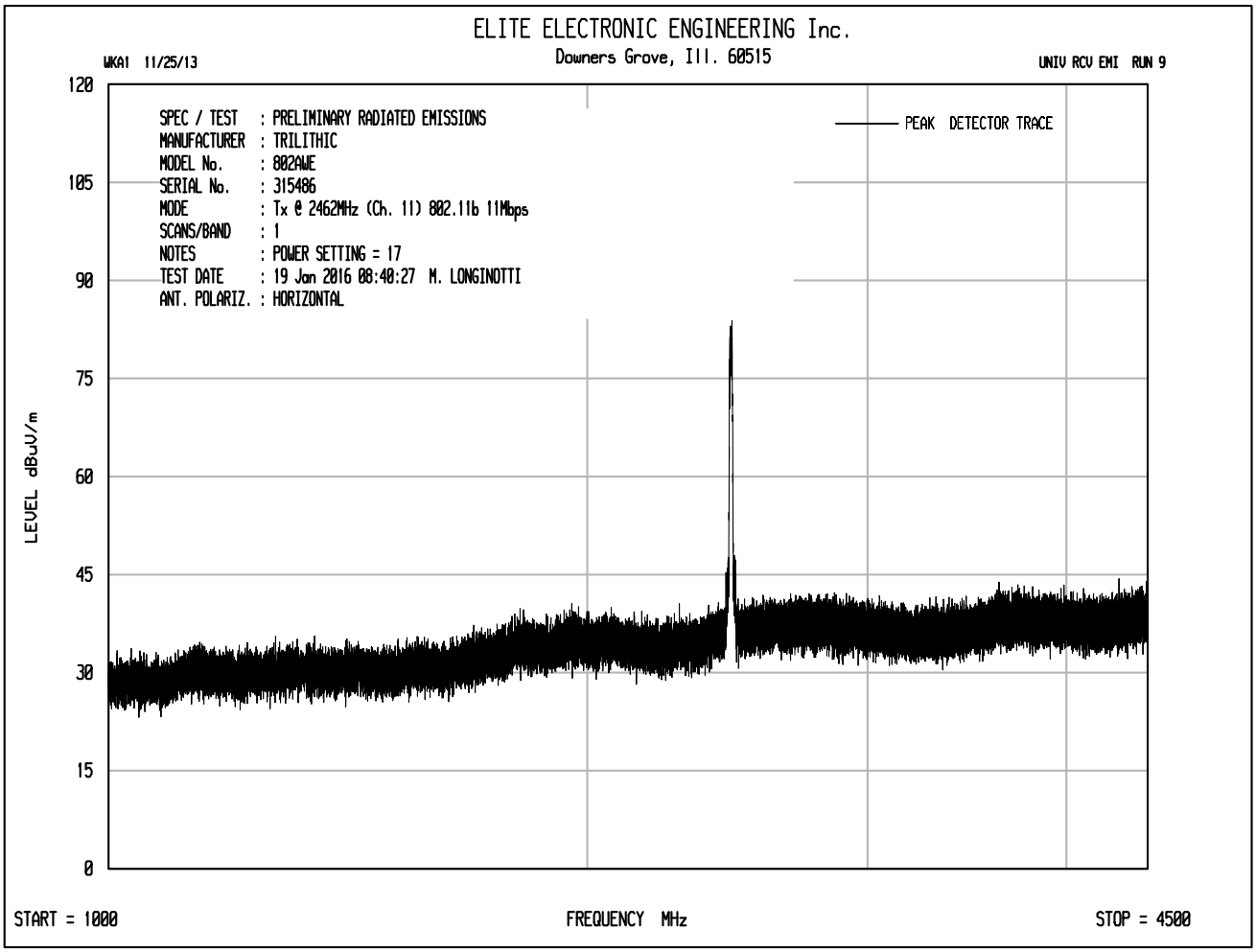
Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2442MHz, 802.11n 65 Mb/sec, power setting = 18
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

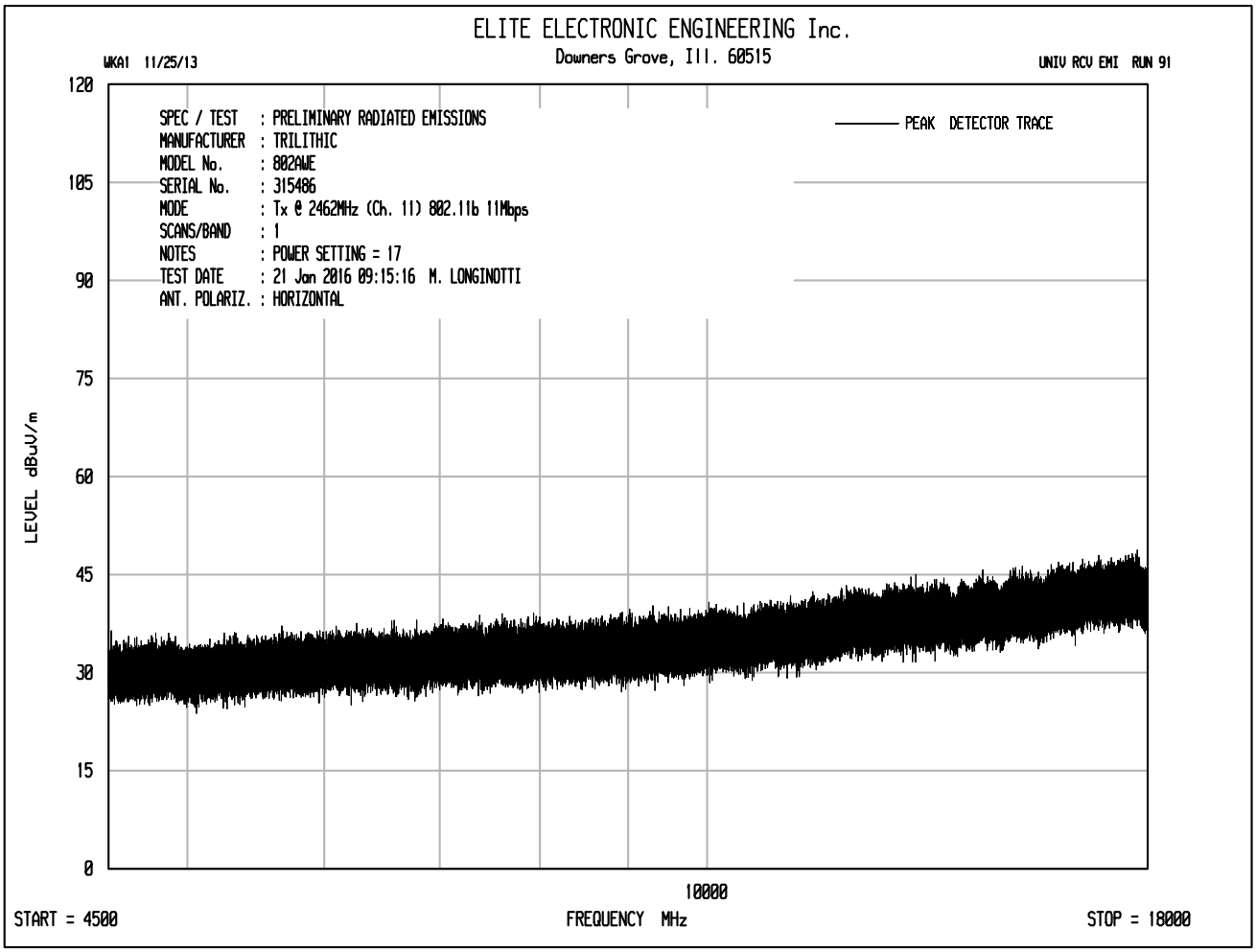
Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4884.00	H	38.5		4.9	34.2	-39.3	38.2	81.7	500.0	-15.7
4884.00	V	43.0		4.9	34.2	-39.3	42.7	137.2	500.0	-11.2
7326.00	H	40.40		6.2	36.2	-39.4	43.3	146.3	500.0	-10.7
7326.00	V	38.2		6.2	36.2	-39.4	41.1	113.6	500.0	-12.9
12210.00	H	34.8	Ambient	8.0	39.3	-39.1	43.0	141.0	500.0	-11.0
12210.00	V	34.8	Ambient	8.0	39.3	-39.1	43.0	141.0	500.0	-11.0
19536.00	H	23.6	Ambient	2.2	40.4	-28.5	37.8	77.3	500.0	-16.2
19536.00	V	23.4	Ambient	2.2	40.4	-28.5	37.6	75.5	500.0	-16.4

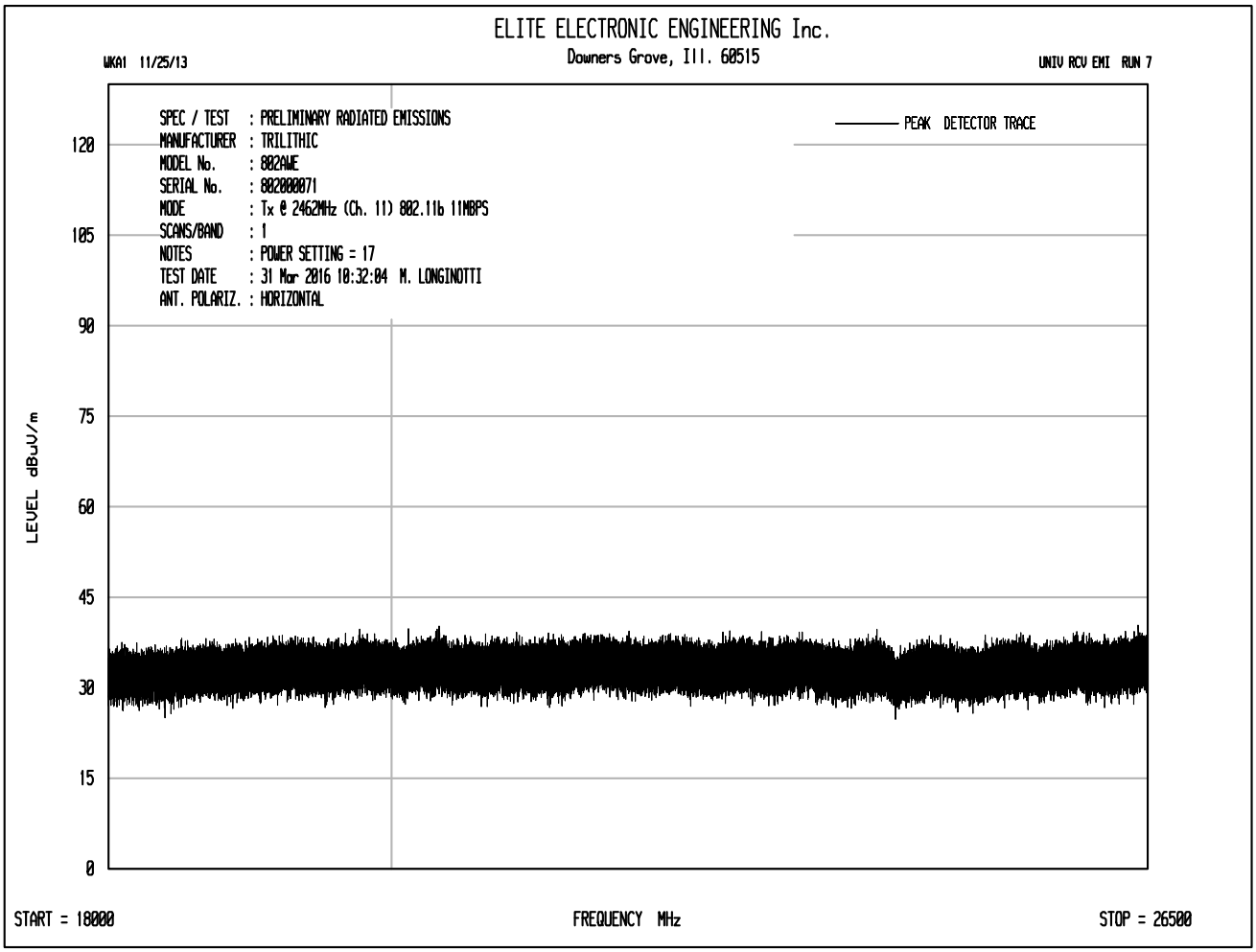
Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

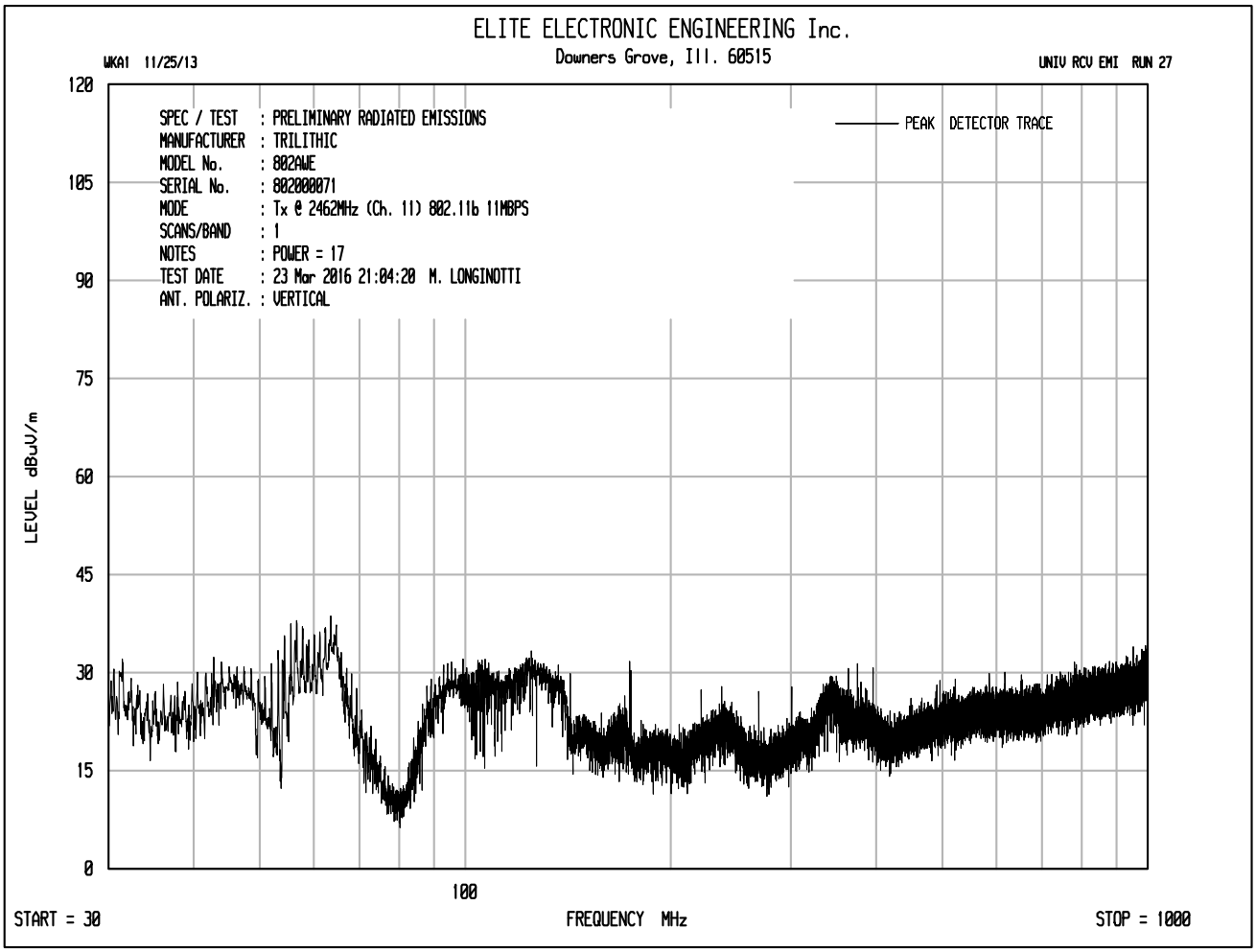
Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

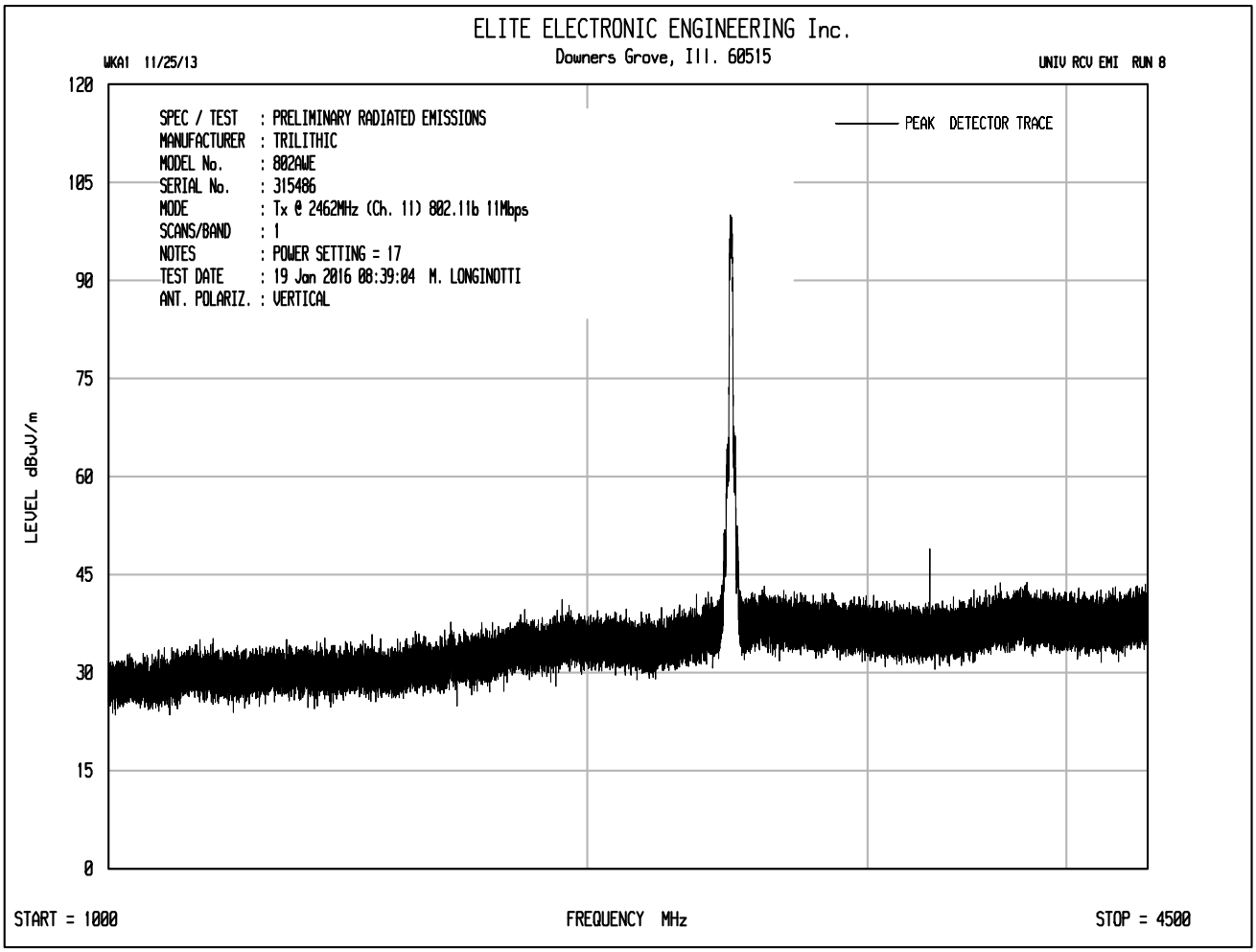

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 26
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2462MHz (Ch. 11) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER = 17
TEST DATE : 23 Mar 2016 21:03:08 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

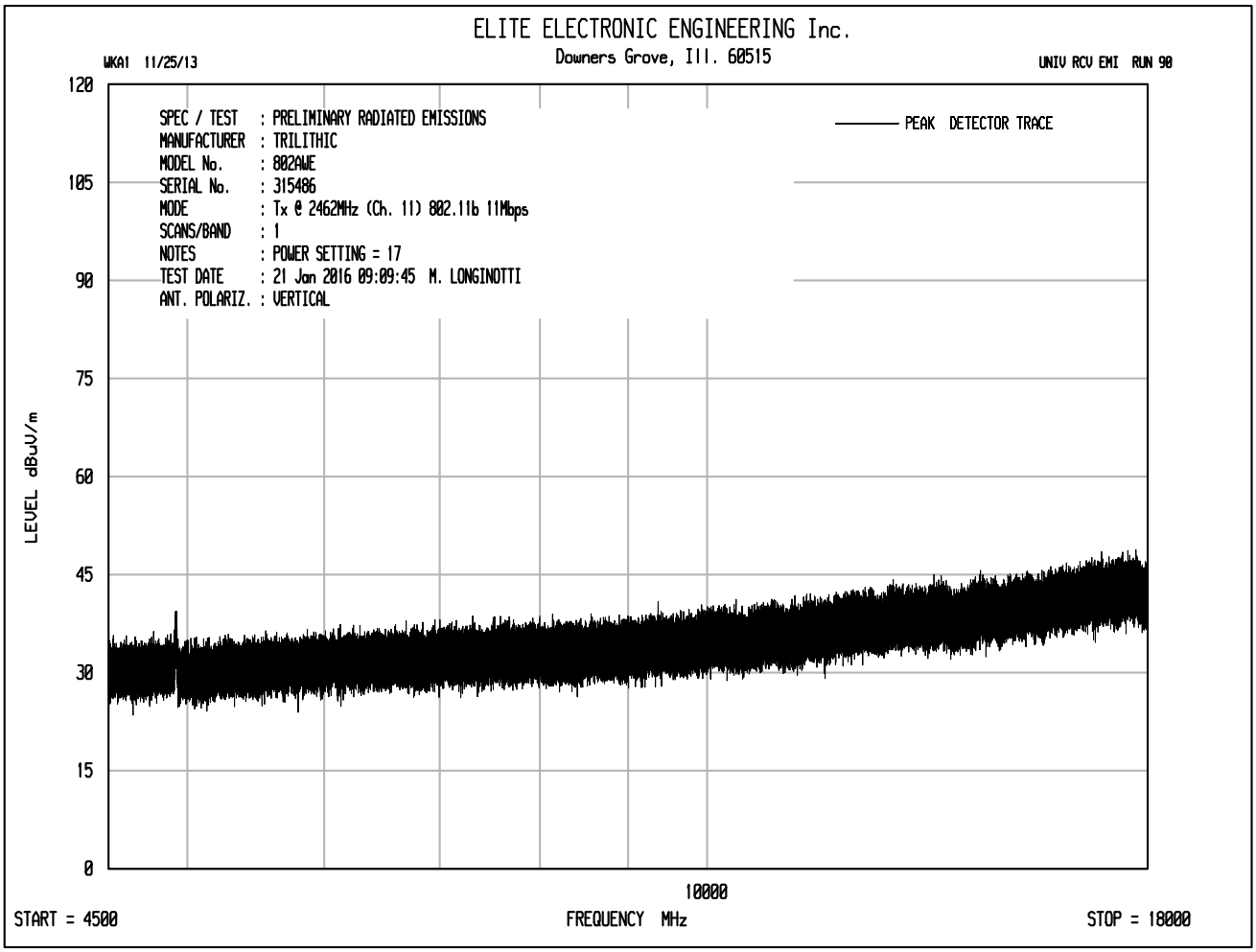

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 9
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11b 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 17
TEST DATE : 19 Jan 2016 08:40:27 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

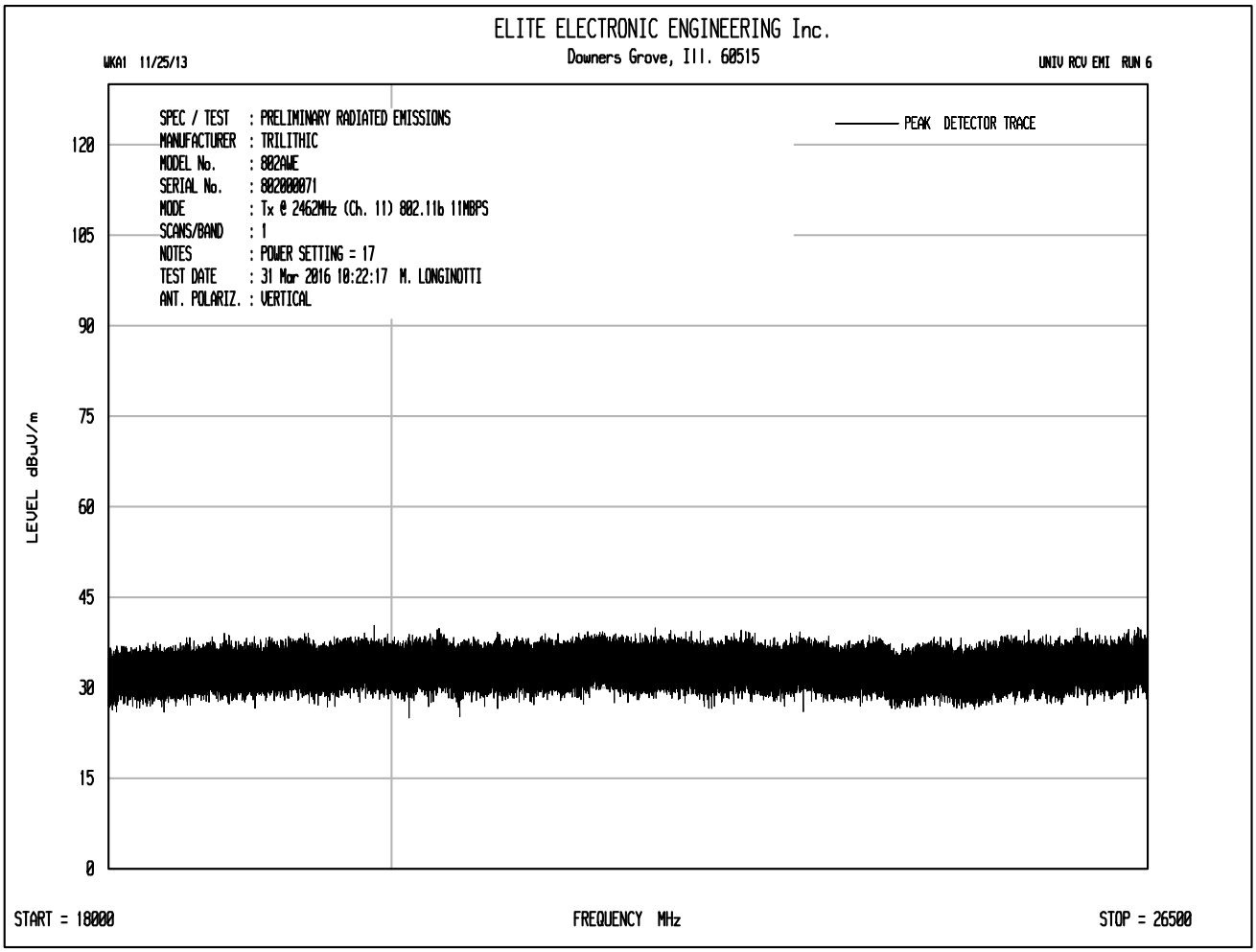

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 91
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11b 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 17
TEST DATE : 21 Jan 2016 09:15:16 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

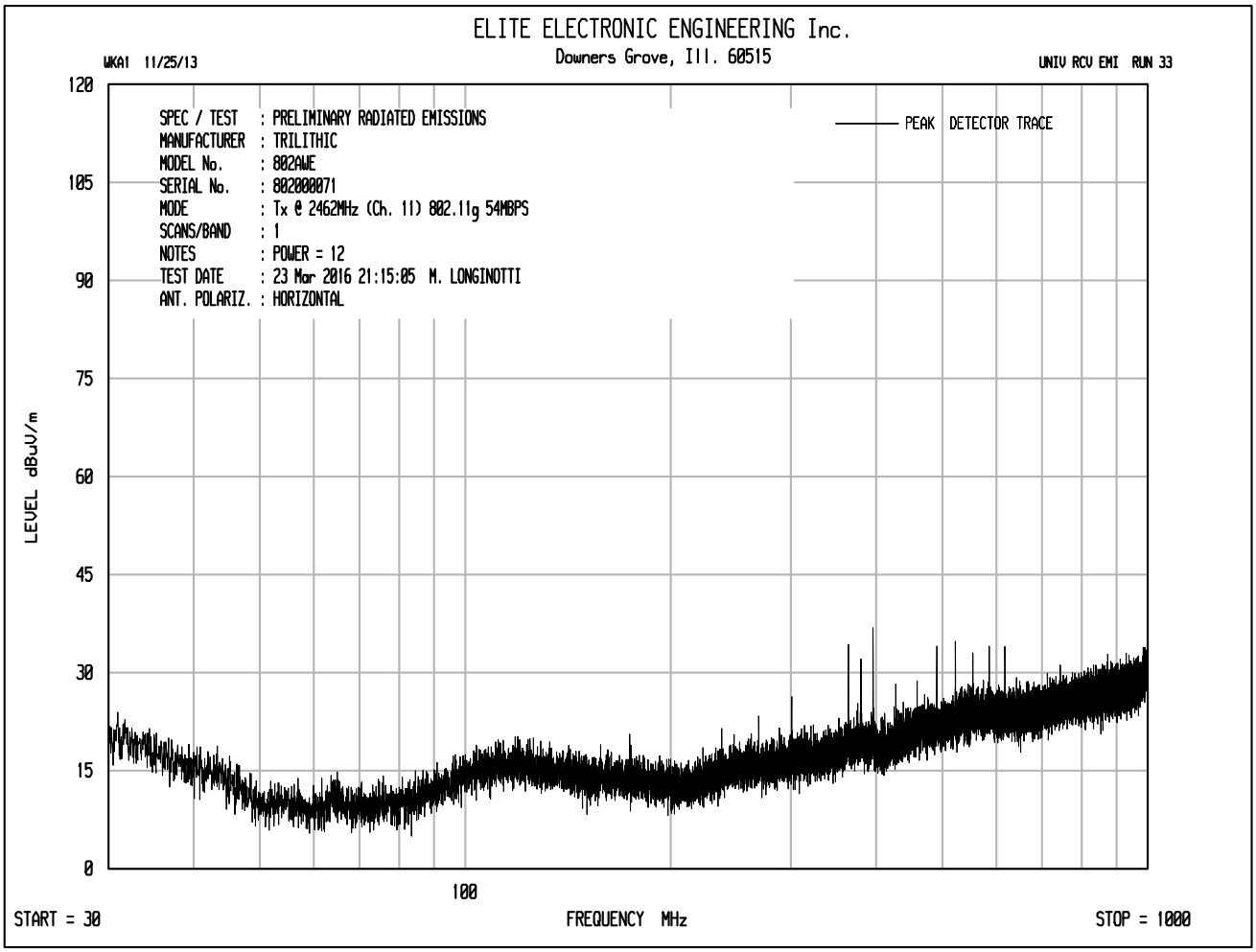

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 7
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2462MHz (Ch. 11) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 17
TEST DATE : 31 Mar 2016 10:32:04 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

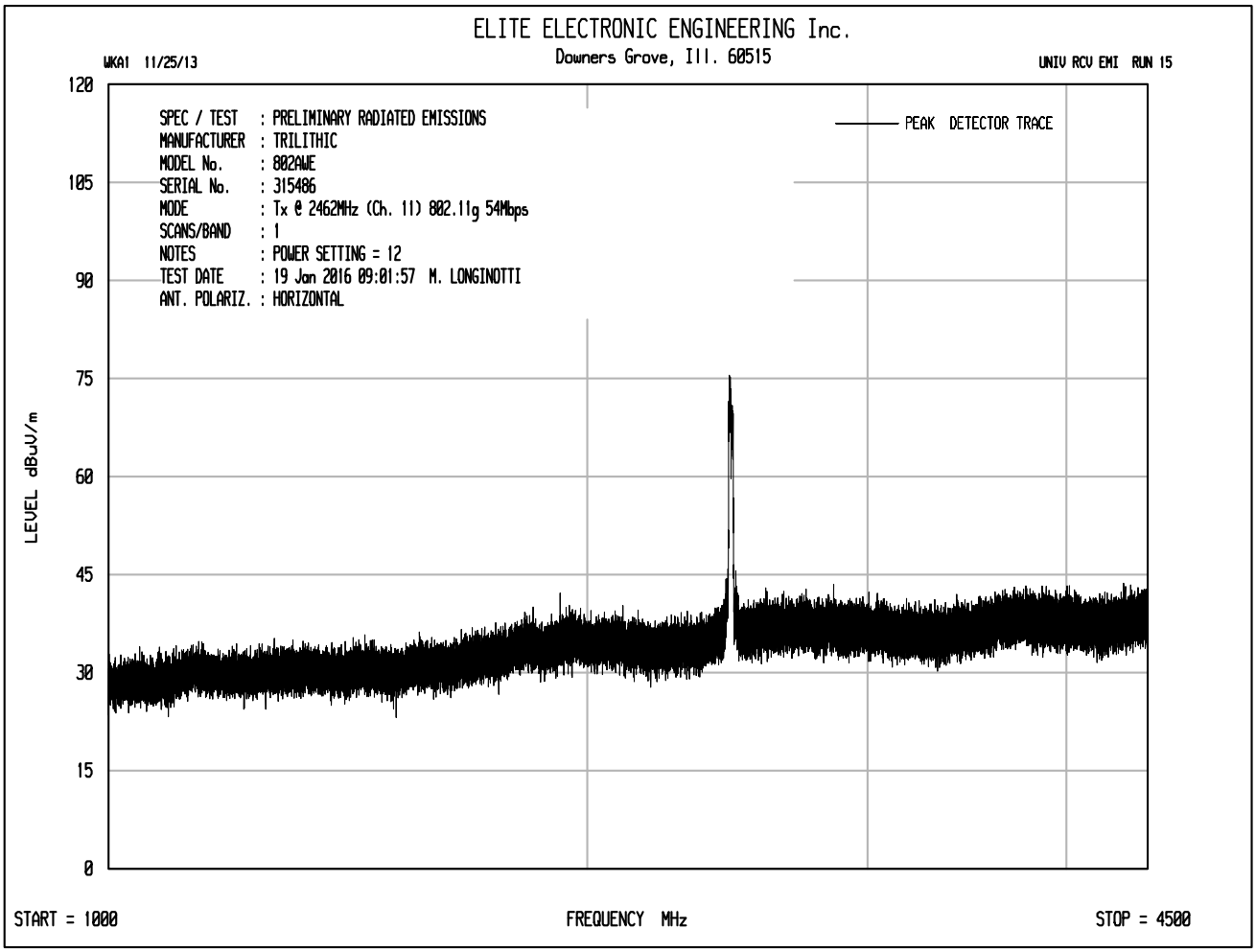

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 27
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2462MHz (Ch. 11) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER = 17
TEST DATE : 23 Mar 2016 21:04:20 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

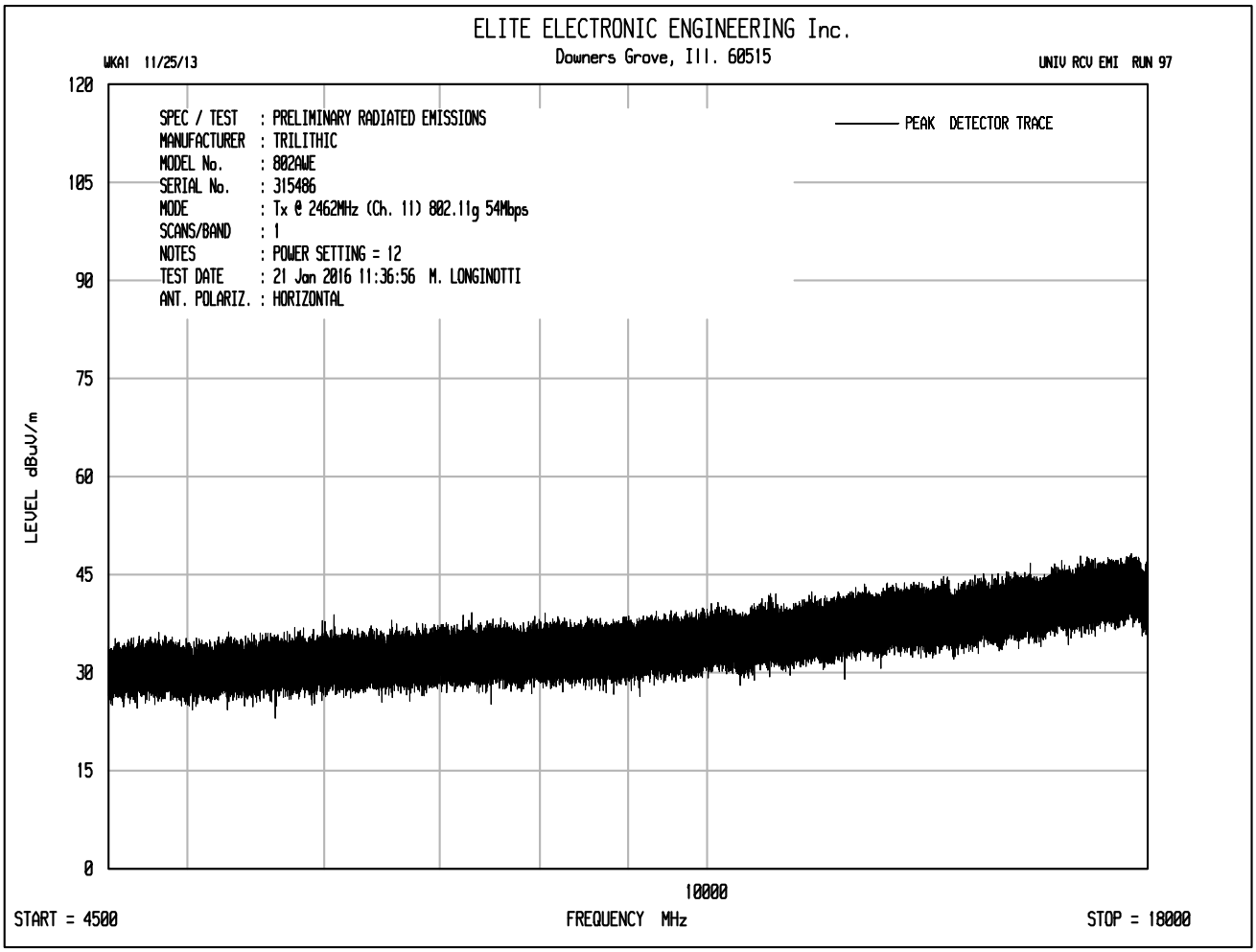

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 8
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11b 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 17
TEST DATE : 19 Jan 2016 08:39:04 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

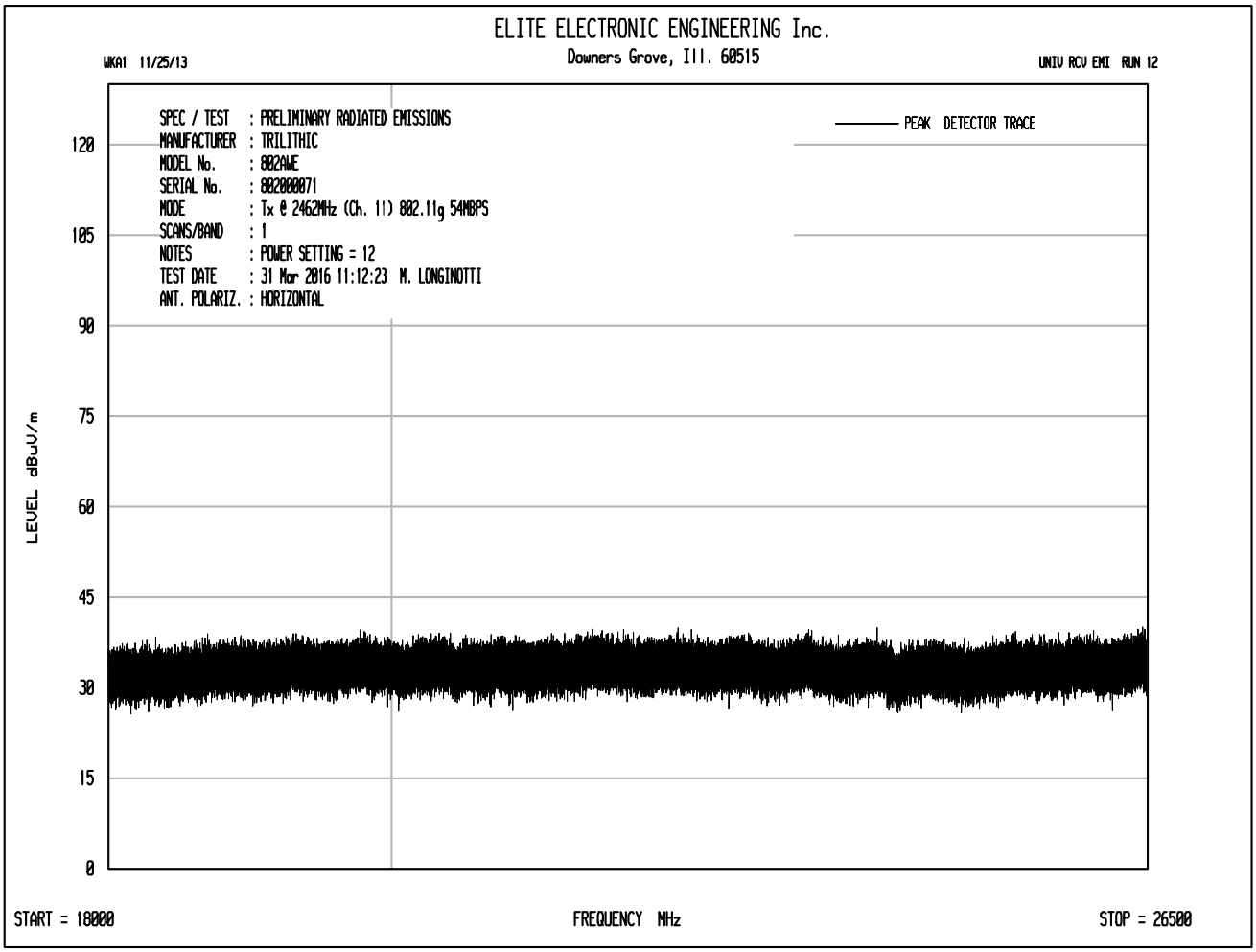

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 90
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11b 11Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 17
TEST DATE : 21 Jan 2016 09:09:45 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

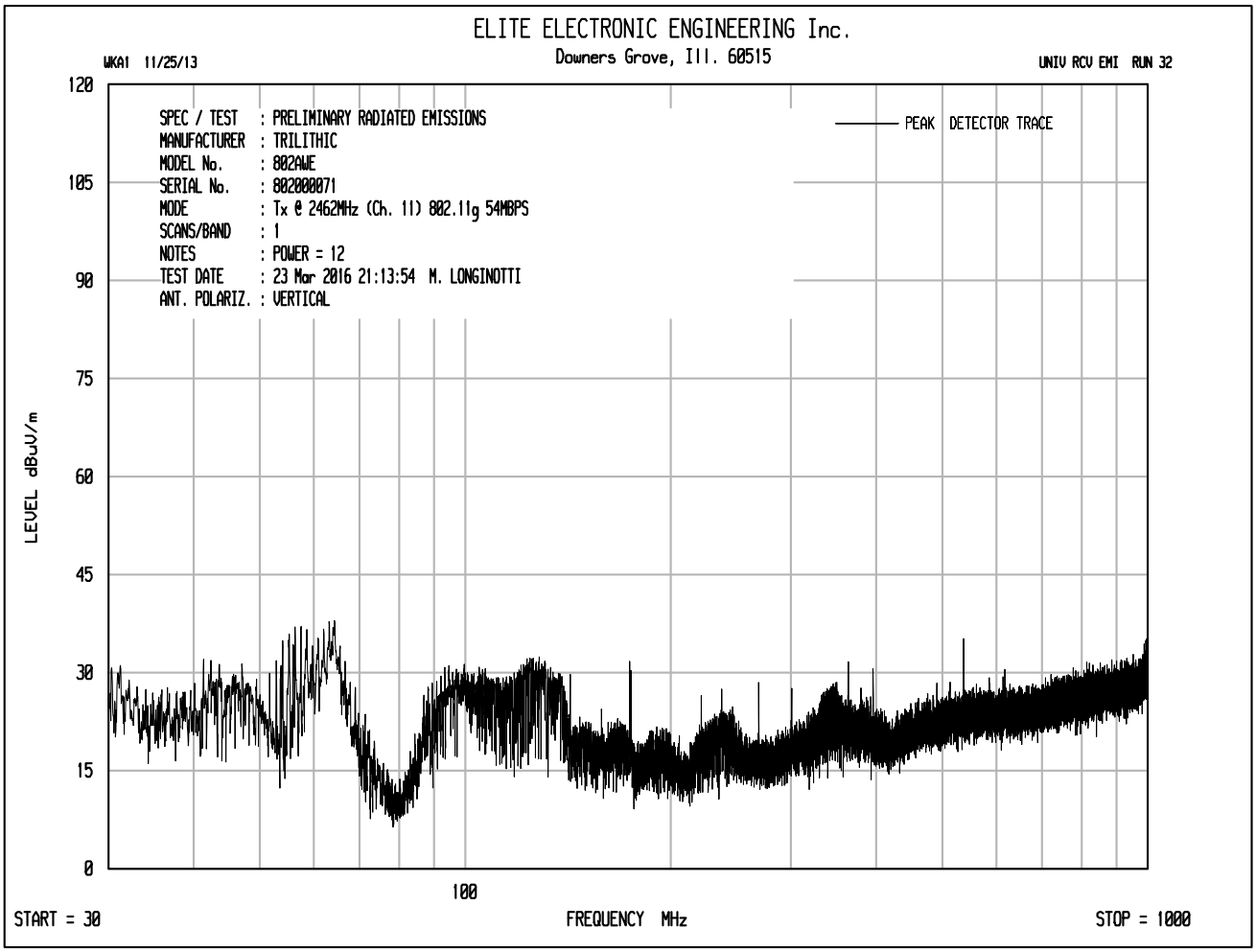

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 6
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 80200071
MODE : Tx @ 2462MHz (Ch. 11) 802.11b 11MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 17
TEST DATE : 31 Mar 2016 10:22:17 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

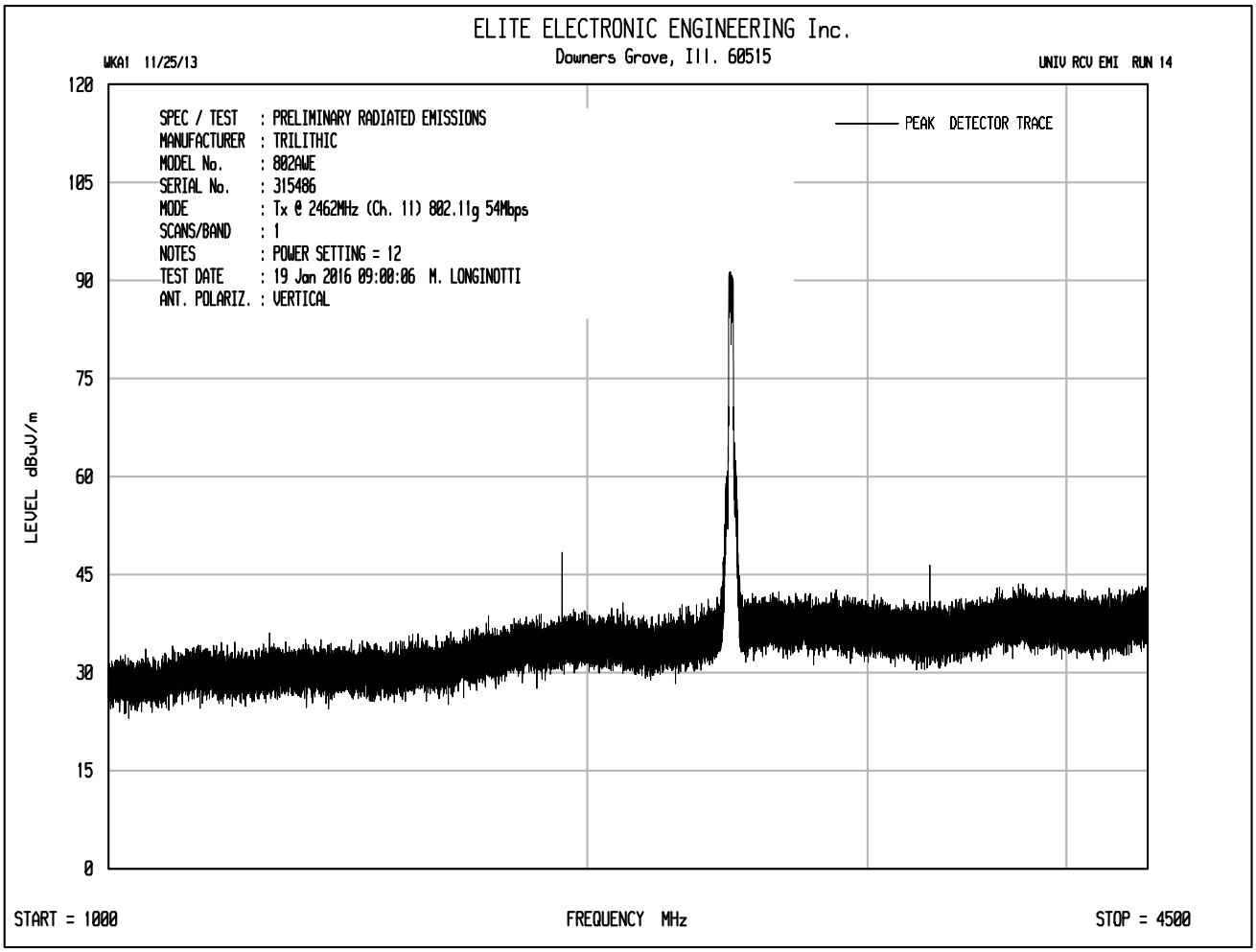

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 33
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2462MHz (Ch. 11) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER = 12
TEST DATE : 23 Mar 2016 21:15:05 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

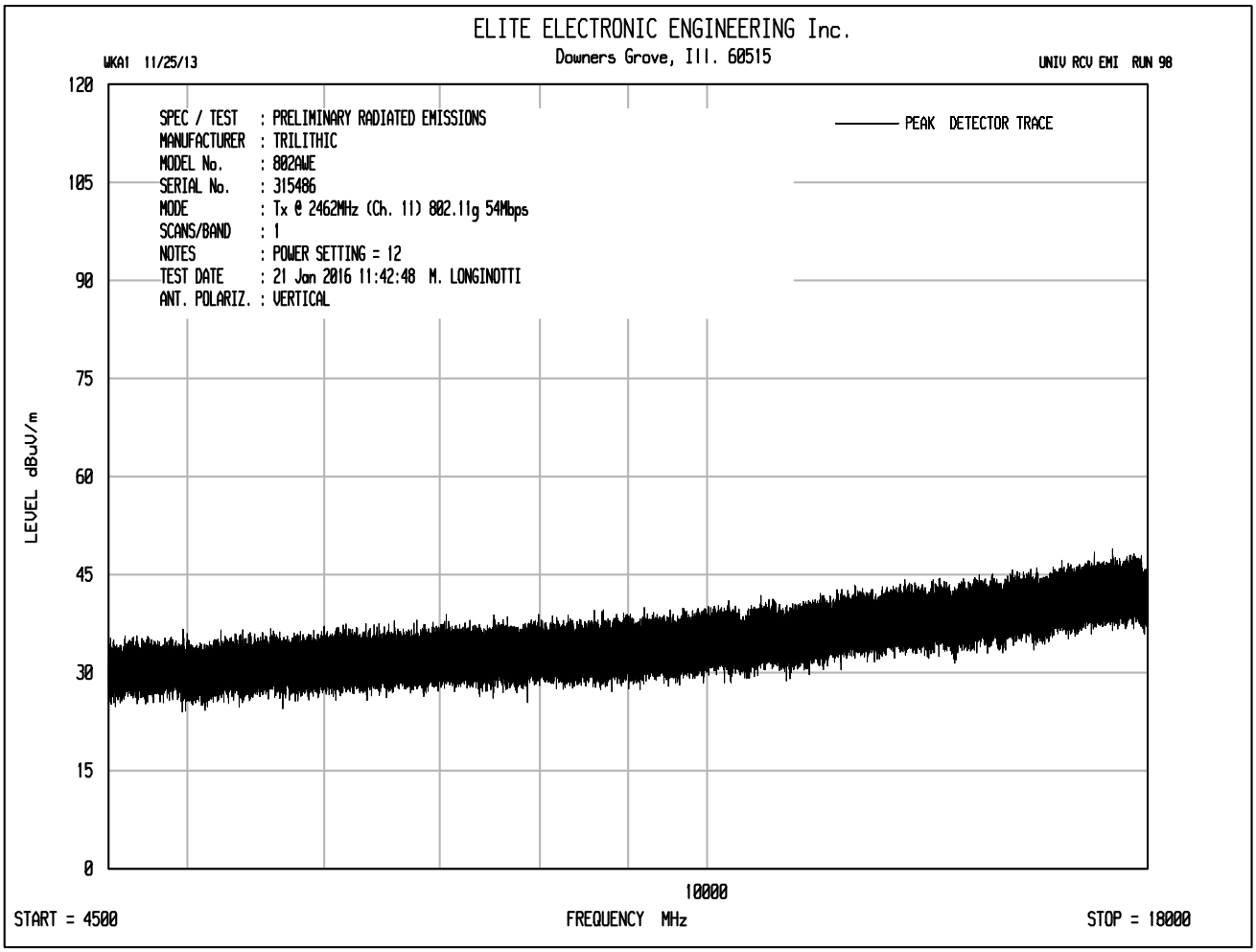

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 15
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 19 Jan 2016 09:01:57 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

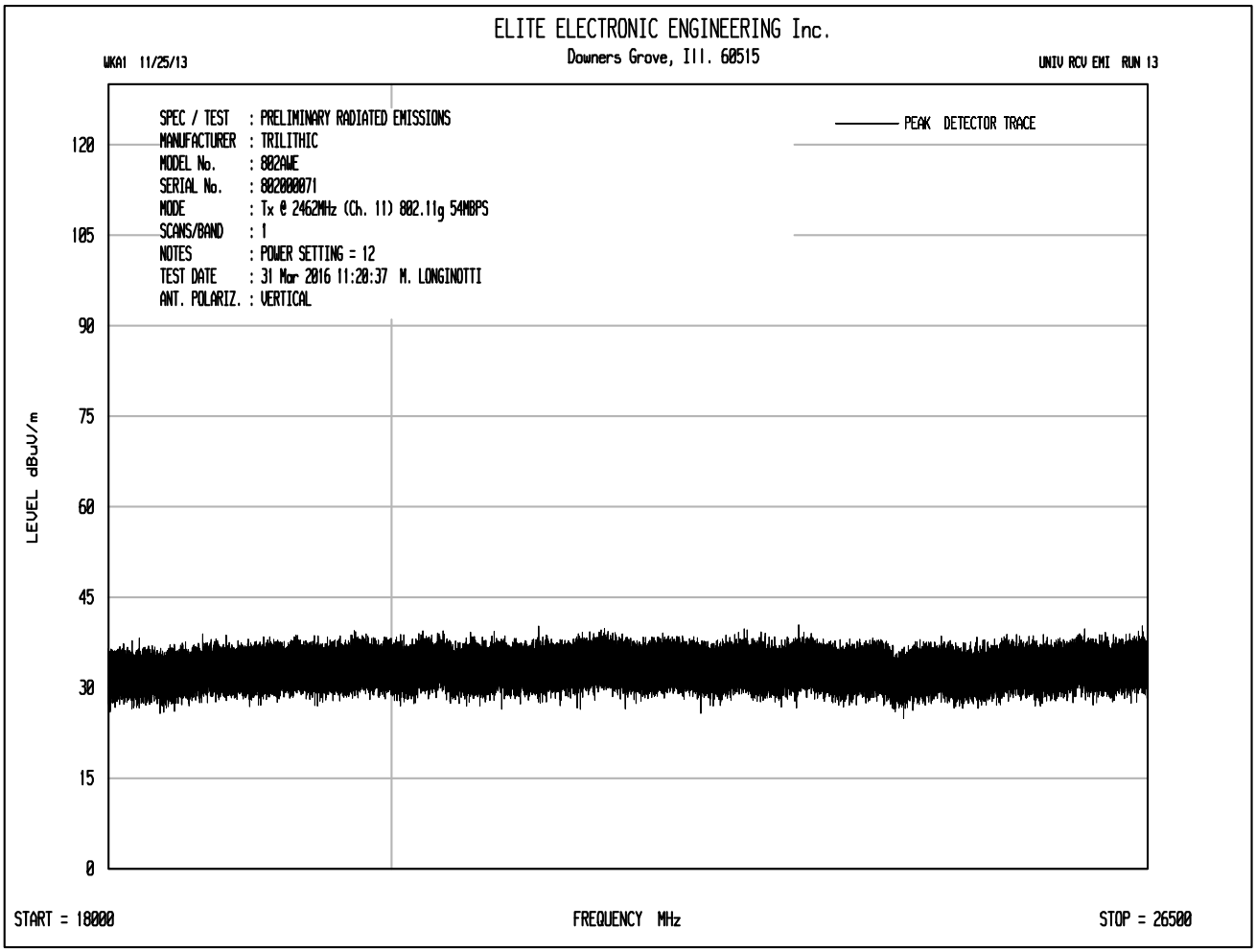

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 97
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 21 Jan 2016 11:36:56 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

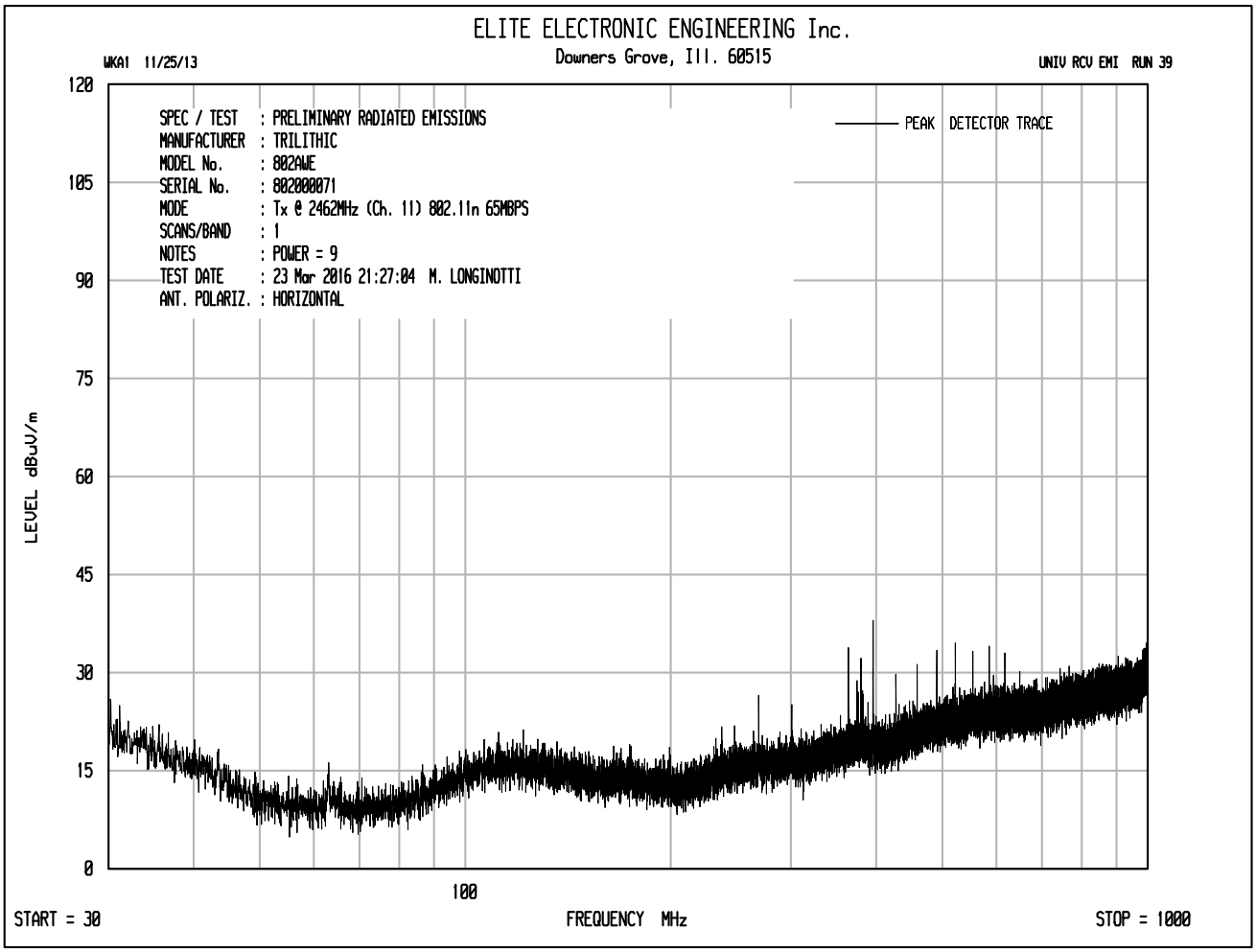

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 12
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2462MHz (Ch. 11) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 31 Mar 2016 11:12:23 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

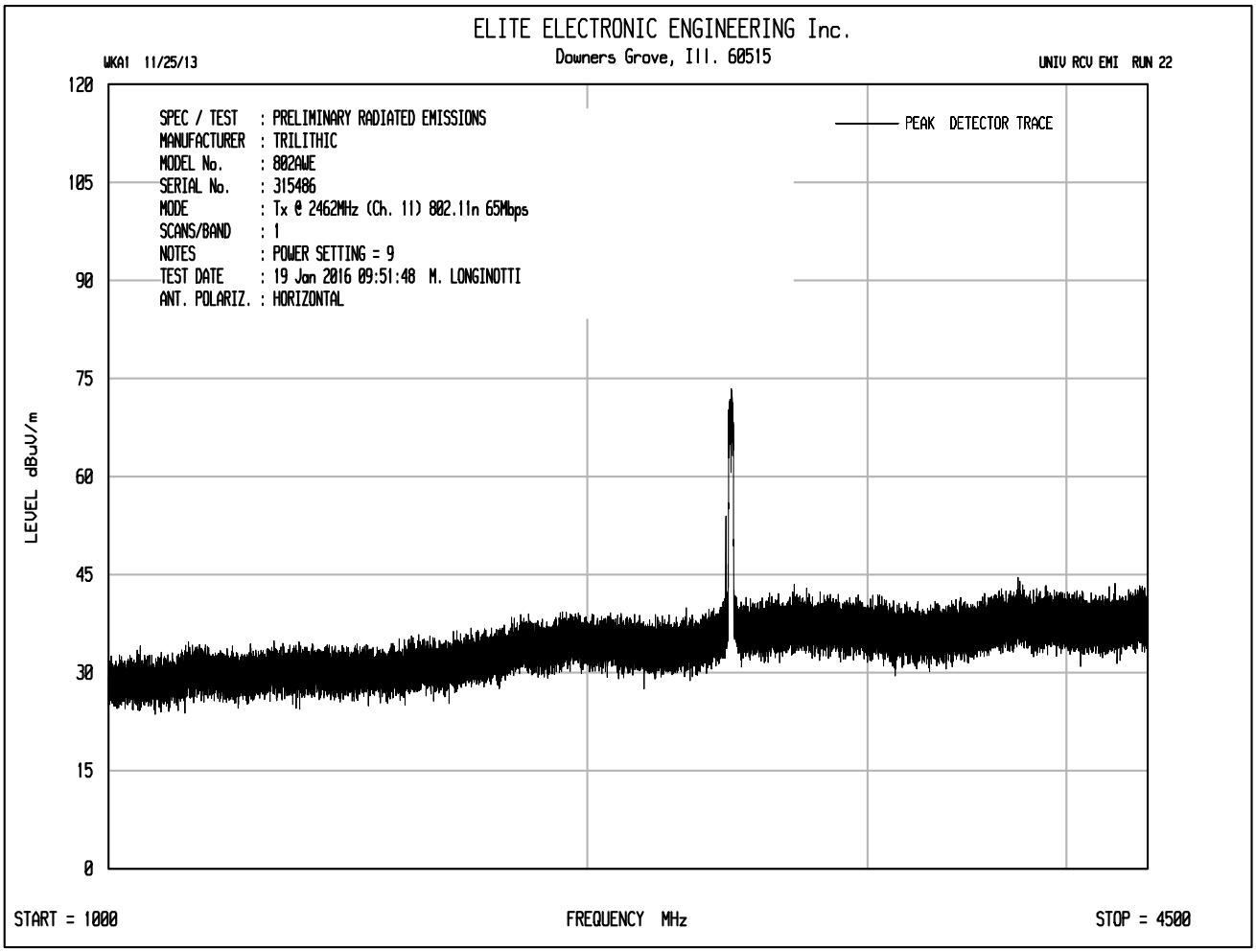

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 32
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2462MHz (Ch. 11) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER = 12
TEST DATE : 23 Mar 2016 21:13:54 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

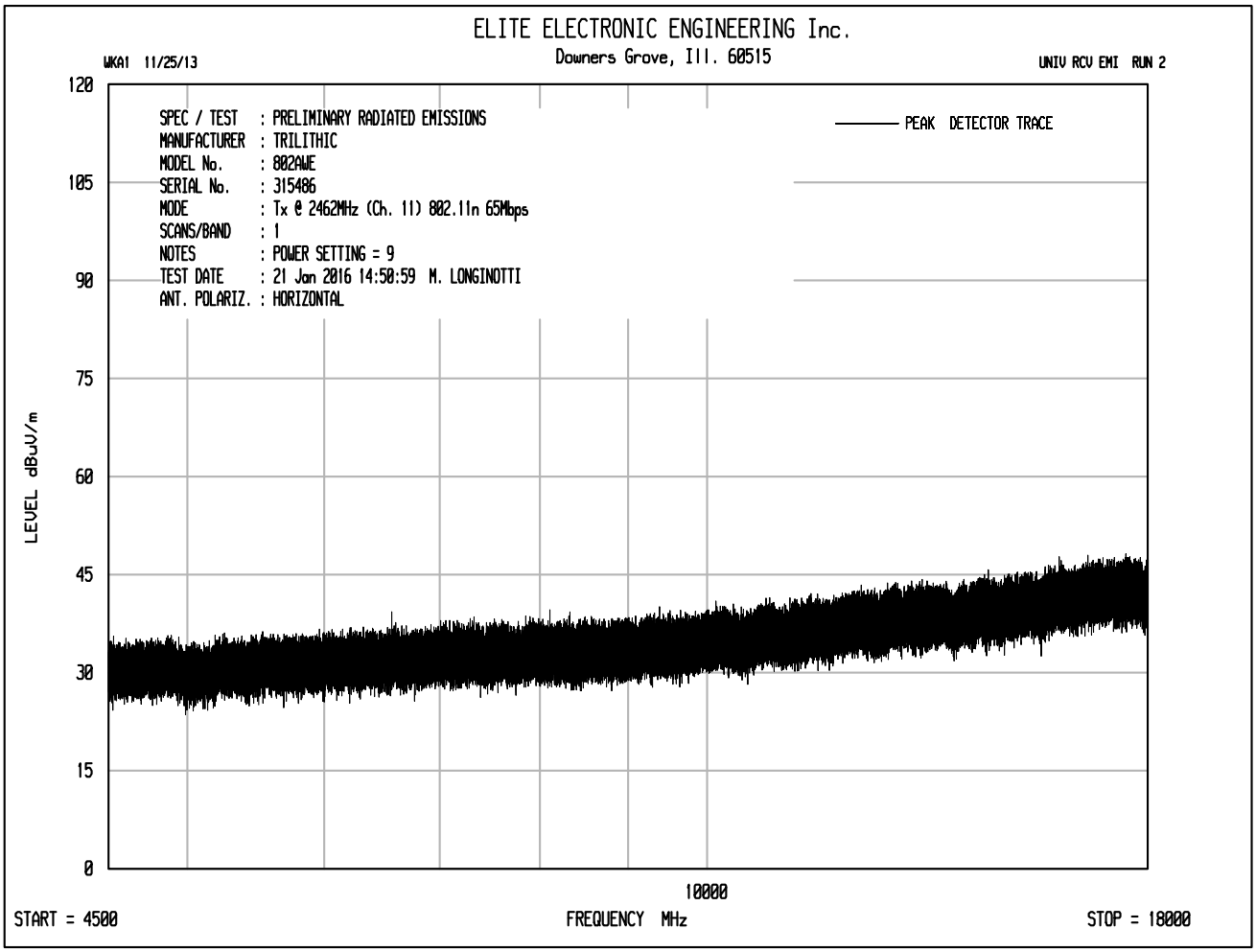

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 14
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 19 Jan 2016 09:00:06 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

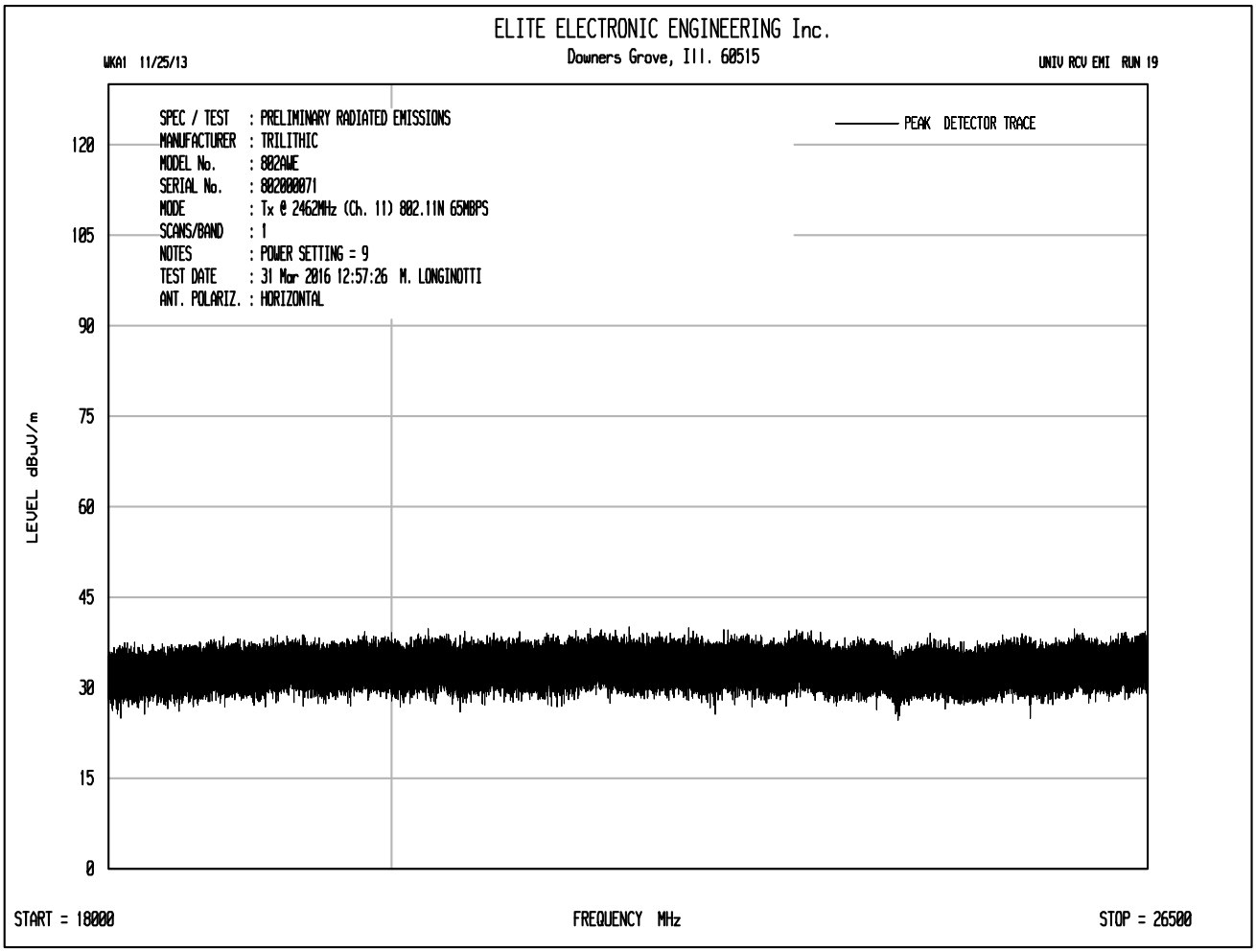

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 98
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11g 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 21 Jan 2016 11:42:48 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000

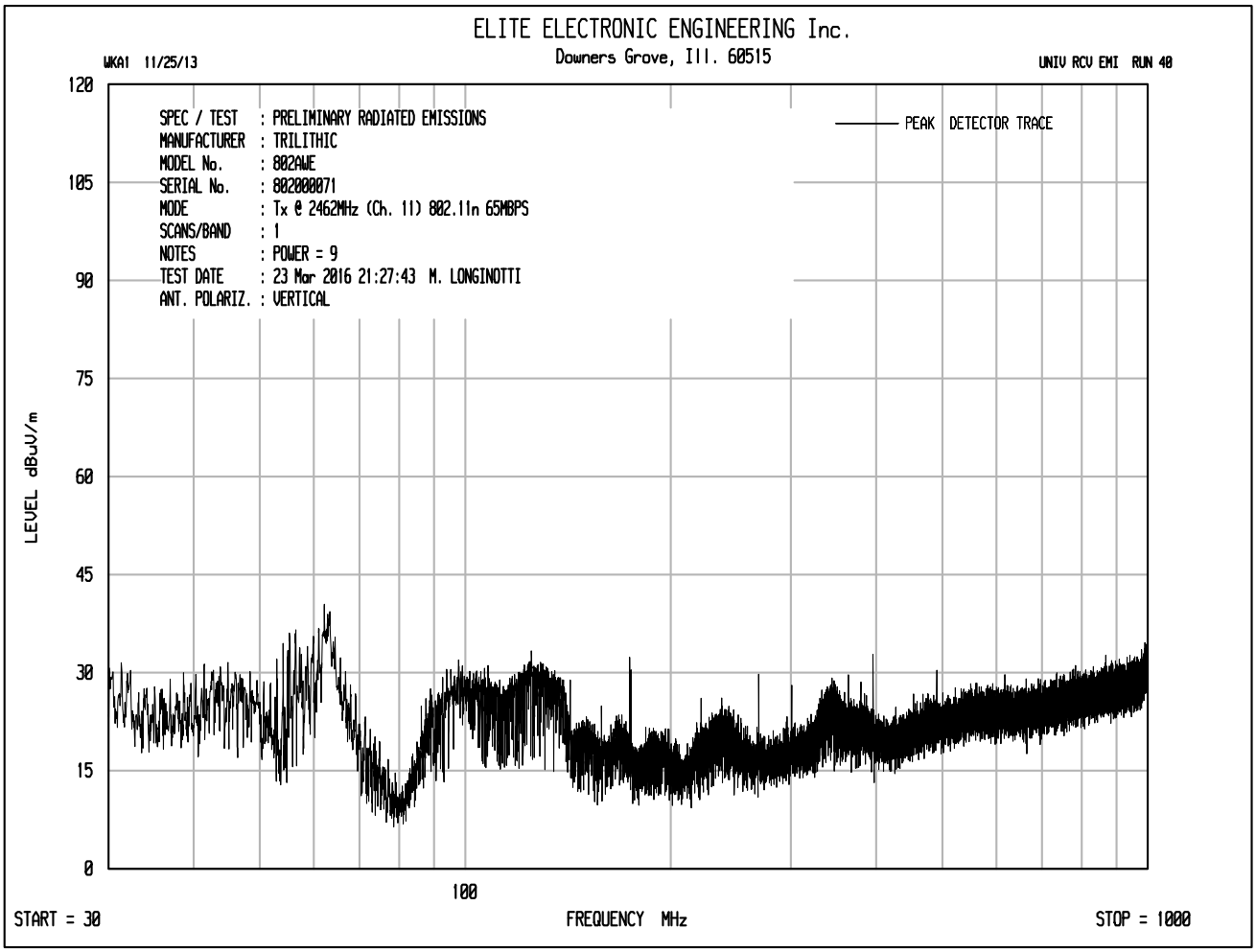

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2462MHz (Ch. 11) 802.11g 54MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 31 Mar 2016 11:20:37 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

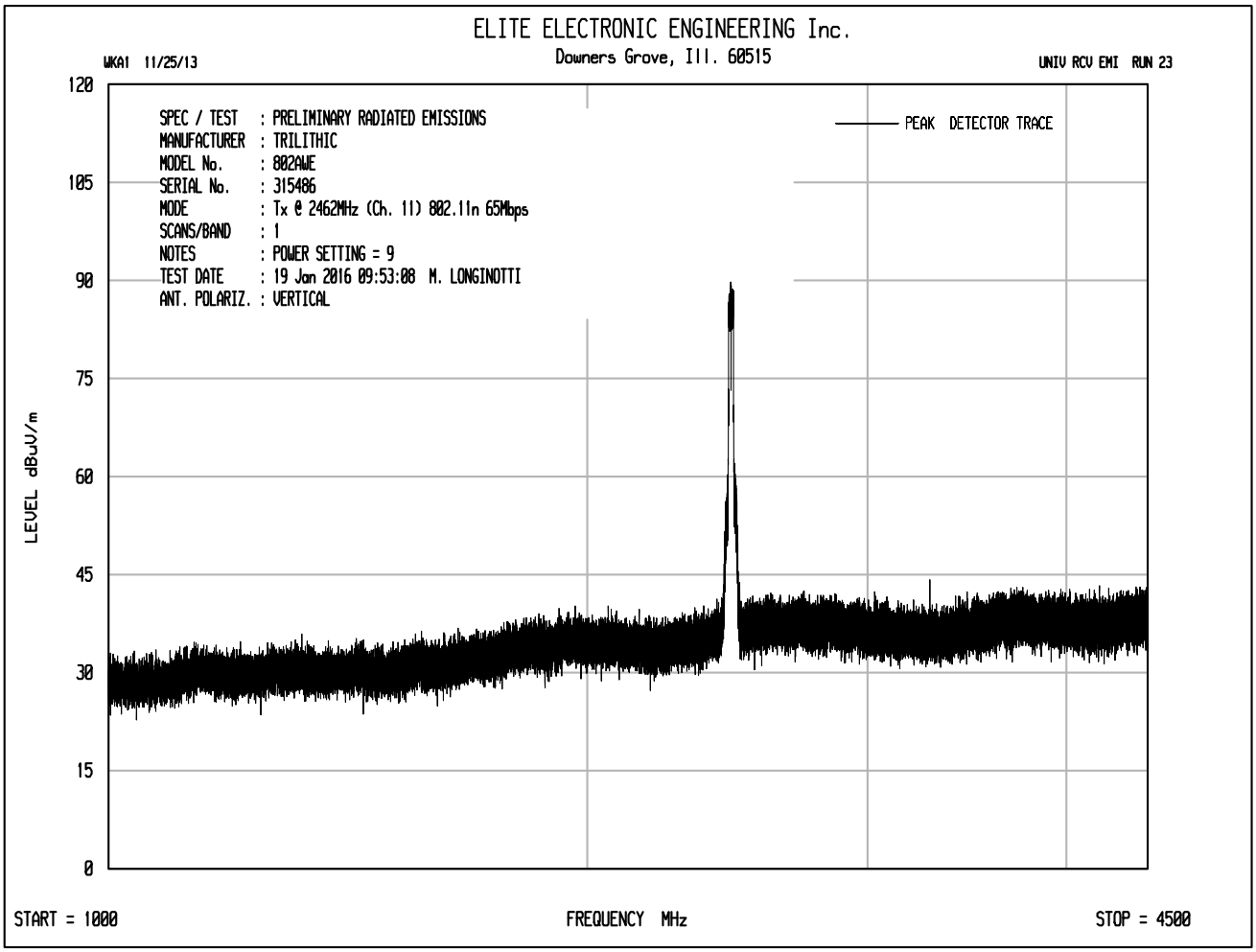

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 39
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2462MHz (Ch. 11) 802.11n 65MBPS
SCANS/BAND : 1
NOTES : POWER = 9
TEST DATE : 23 Mar 2016 21:27:04 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

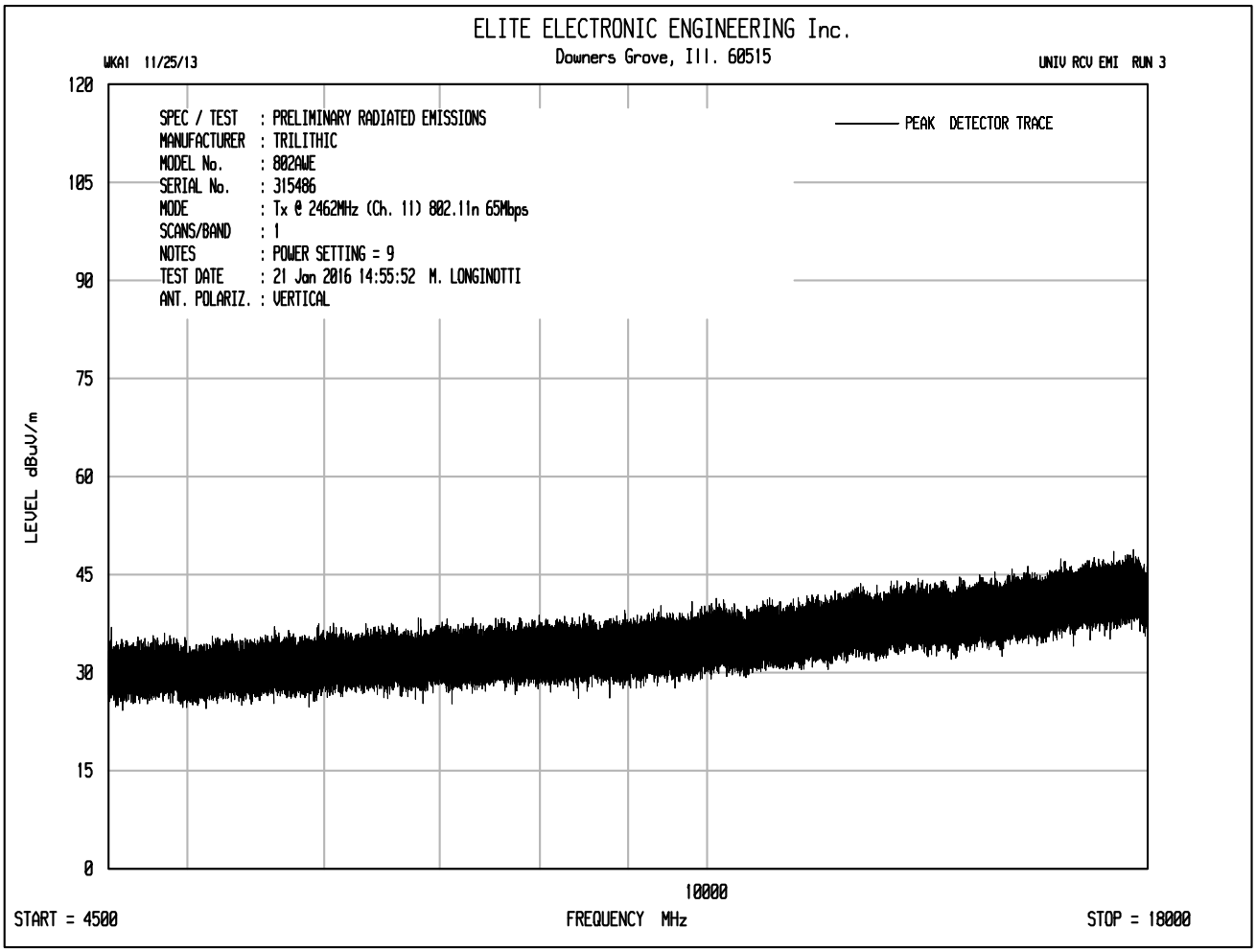

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 22
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 9
TEST DATE : 19 Jan 2016 09:51:48 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

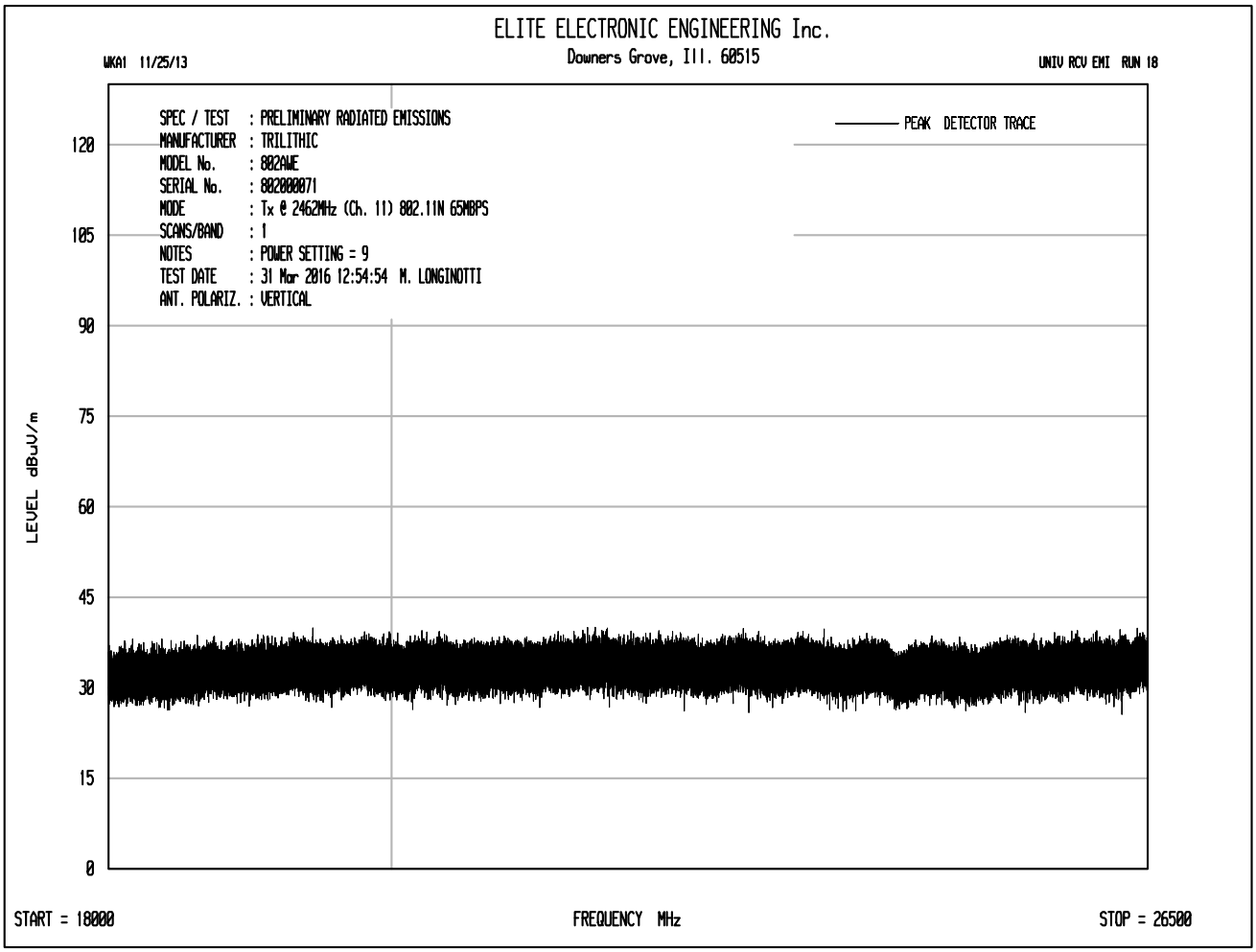

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 2
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 9
TEST DATE : 21 Jan 2016 14:50:59 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 19
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 80200071
MODE : Tx @ 2462MHz (Ch. 11) 802.11N 65MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 9
TEST DATE : 31 Mar 2016 12:57:26 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 40
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2462MHz (Ch. 11) 802.11n 65MBPS
SCANS/BAND : 1
NOTES : POWER = 9
TEST DATE : 23 Mar 2016 21:27:43 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 23
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 9
TEST DATE : 19 Jan 2016 09:53:08 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 3
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2462MHz (Ch. 11) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 9
TEST DATE : 21 Jan 2016 14:55:52 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 18
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 80200071
MODE : Tx @ 2462MHz (Ch. 11) 802.11N 65MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 9
TEST DATE : 31 Mar 2016 12:54:54 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2462MHz, 802.11b 11 Mb/sec, power setting = 17
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4924.00	H	50.5		4.9	34.2	-39.3	50.2	325.5	5000.0	-23.7
4924.00	V	55.3		4.9	34.2	-39.3	55.0	565.6	5000.0	-18.9
7386.00	H	51.3		6.2	36.2	-39.4	54.3	517.9	5000.0	-19.7
7386.00	V	50.9		6.2	36.2	-39.4	53.9	494.6	5000.0	-20.1
12310.00	H	48.0	Ambient	8.0	39.3	-39.0	56.3	651.6	5000.0	-17.7
12310.00	V	47.9	Ambient	8.0	39.3	-39.0	56.2	644.1	5000.0	-17.8
19696.00	H	37.1	Ambient	2.2	40.4	-28.3	51.5	374.8	5000.0	-22.5
19696.00	V	36.9	Ambient	2.2	40.4	-28.3	51.3	366.2	5000.0	-22.7
22158.00	H	38.5	Ambient	2.2	40.6	-29.1	52.2	408.8	5000.0	-21.7
22158.00	V	38.1	Ambient	2.2	40.6	-29.1	51.8	390.4	5000.0	-22.1

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2462MHz, 802.11b 11 Mb/sec, power setting = 17
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4924.00	H	37.7		4.9	34.2	-39.3	37.4	74.6	500.0	-16.5
4924.00	V	42.5		4.9	34.2	-39.3	42.2	129.6	500.0	-11.7
7386.00	H	40.20		6.2	36.2	-39.4	43.2	144.3	500.0	-10.8
7386.00	V	38.9		6.2	36.2	-39.4	41.9	124.2	500.0	-12.1
12310.00	H	34.7	Ambient	8.0	39.3	-39.0	43.0	140.9	500.0	-11.0
12310.00	V	34.7	Ambient	8.0	39.3	-39.0	43.0	140.9	500.0	-11.0
19696.00	H	23.7	Ambient	2.2	40.4	-28.3	38.1	80.1	500.0	-15.9
19696.00	V	23.5	Ambient	2.2	40.4	-28.3	37.9	78.3	500.0	-16.1
22158.00	H	24.7	Ambient	2.2	40.6	-29.1	38.4	83.5	500.0	-15.5
22158.00	V	24.5	Ambient	2.2	40.6	-29.1	38.2	81.6	500.0	-15.7

Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2462MHz, 802.11g 54 Mb/sec, power setting = 12
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4924.00	H	47.8	Ambient	4.9	34.2	-39.3	47.5	238.5	5000.0	-26.4
4924.00	V	49.2	Ambient	4.9	34.2	-39.3	48.9	280.2	5000.0	-25.0
7386.00	H	47.4	Ambient	6.2	36.2	-39.4	50.4	330.5	5000.0	-23.6
7386.00	V	47.2	Ambient	6.2	36.2	-39.4	50.2	323.0	5000.0	-23.8
12310.00	H	47.4	Ambient	8.0	39.3	-39.0	55.7	608.1	5000.0	-18.3
12310.00	V	47.7	Ambient	8.0	39.3	-39.0	56.0	629.5	5000.0	-18.0
19696.00	H	37.4	Ambient	2.2	40.4	-28.3	51.8	387.9	5000.0	-22.2
19696.00	V	36.9	Ambient	2.2	40.4	-28.3	51.3	366.2	5000.0	-22.7
22158.00	H	37.5	Ambient	2.2	40.6	-29.1	51.2	364.3	5000.0	-22.7
22158.00	V	37.3	Ambient	2.2	40.6	-29.1	51.0	356.0	5000.0	-22.9

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2462MHz, 802.11g 54 Mb/sec, power setting = 12
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4924.00	H	35.2	Ambient	4.9	34.2	-39.3	34.9	55.9	500.0	-19.0
4924.00	V	36.4	Ambient	4.9	34.2	-39.3	36.1	64.2	500.0	-17.8
7386.00	H	35.00	Ambient	6.2	36.2	-39.4	38.0	79.3	500.0	-16.0
7386.00	V	35.0	Ambient	6.2	36.2	-39.4	38.0	79.3	500.0	-16.0
12310.00	H	34.7	Ambient	8.0	39.3	-39.0	43.0	140.9	500.0	-11.0
12310.00	V	34.6	Ambient	8.0	39.3	-39.0	42.9	139.3	500.0	-11.1
19696.00	H	23.9	Ambient	2.2	40.4	-28.3	38.3	82.0	500.0	-15.7
19696.00	V	23.7	Ambient	2.2	40.4	-28.3	38.1	80.1	500.0	-15.9
22158.00	H	24.8	Ambient	2.2	40.6	-29.1	38.5	84.4	500.0	-15.4
22158.00	V	24.7	Ambient	2.2	40.6	-29.1	38.4	83.5	500.0	-15.5

Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2462MHz, 802.11n 65 Mb/sec, power setting = 9
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4924.00	H	46.7	Ambient	4.9	34.2	-38.4	47.4	234.7	5000.0	-26.6
4924.00	V	46.7	Ambient	4.9	34.2	-38.4	47.4	234.7	5000.0	-26.6
7386.00	H	45.9	Ambient	6.2	36.2	-38.8	49.5	299.0	5000.0	-24.5
7386.00	V	46.1	Ambient	6.2	36.2	-38.8	49.7	306.0	5000.0	-24.3
12310.00	H	48.2	Ambient	8.0	39.3	-38.5	57.0	710.4	5000.0	-16.9
12310.00	V	48.3	Ambient	8.0	39.3	-38.5	57.1	718.7	5000.0	-16.8
19696.00	H	37.2	Ambient	2.2	40.4	-28.3	51.6	379.1	5000.0	-22.4
19696.00	V	37.2	Ambient	2.2	40.4	-28.3	51.6	379.1	5000.0	-22.4
22158.00	H	38.1	Ambient	2.2	40.6	-29.1	51.8	390.4	5000.0	-22.1
22158.00	V	37.8	Ambient	2.2	40.6	-29.1	51.5	377.1	5000.0	-22.4

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

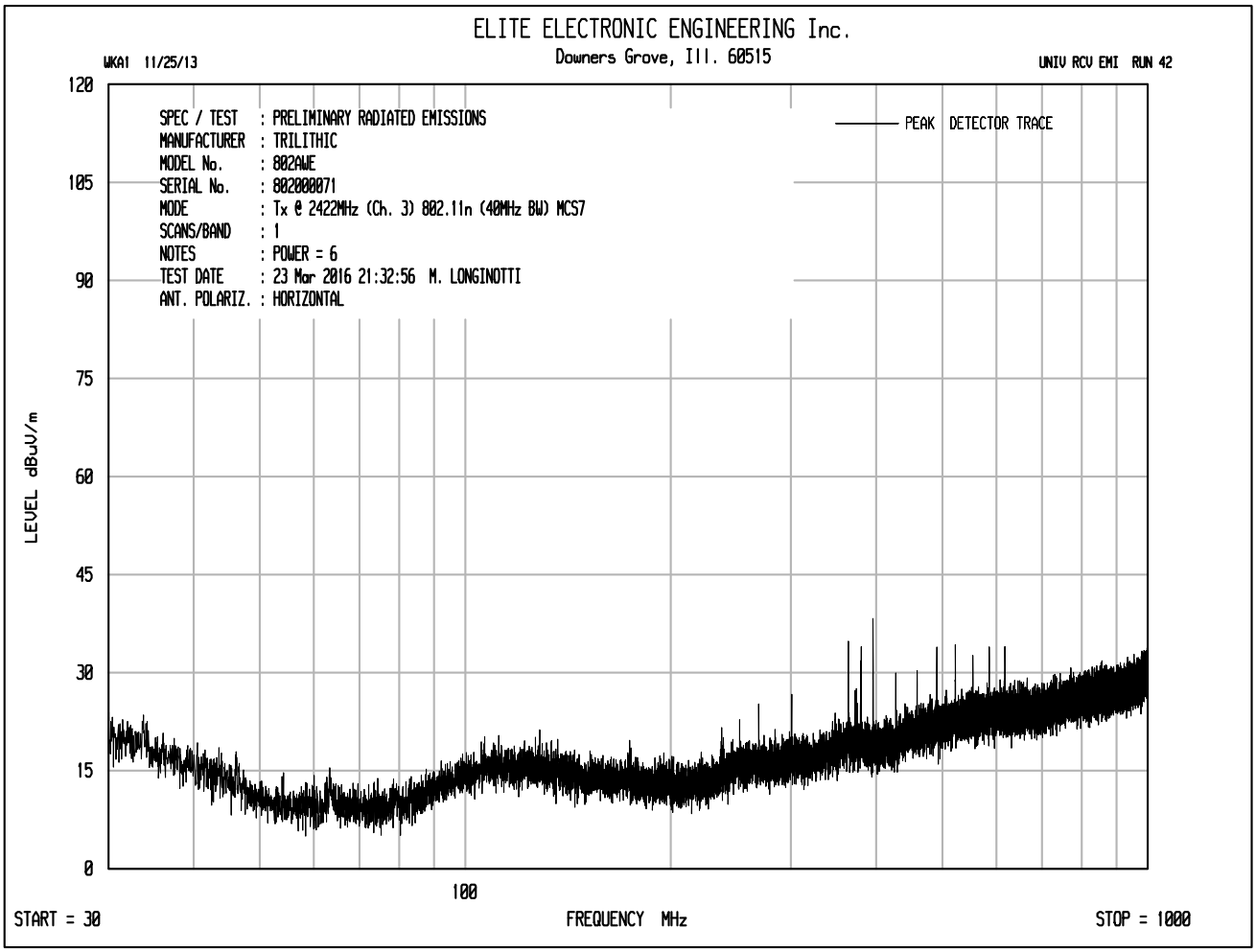
Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

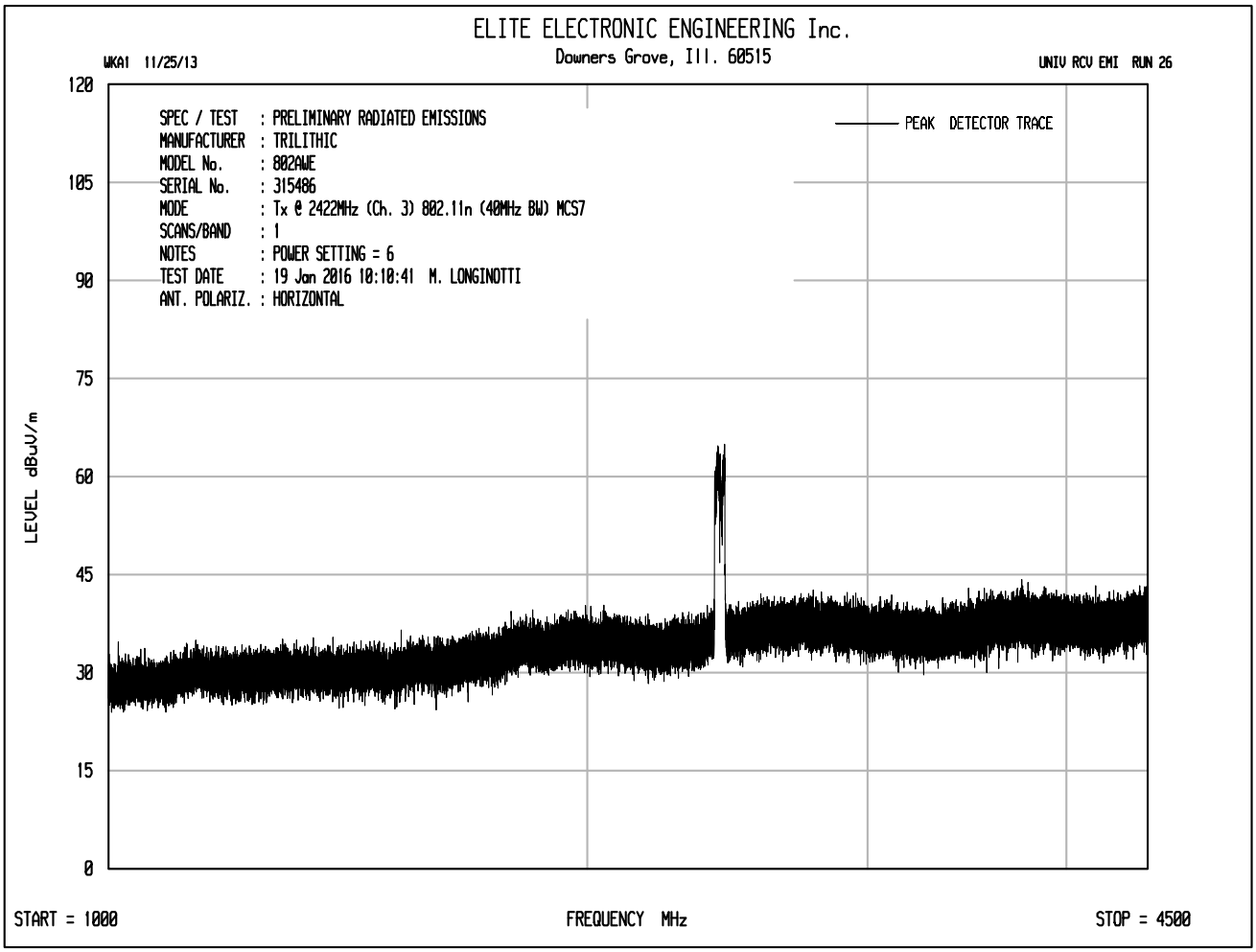
Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2462MHz, 802.11n 65 Mb/sec, power setting = 9
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

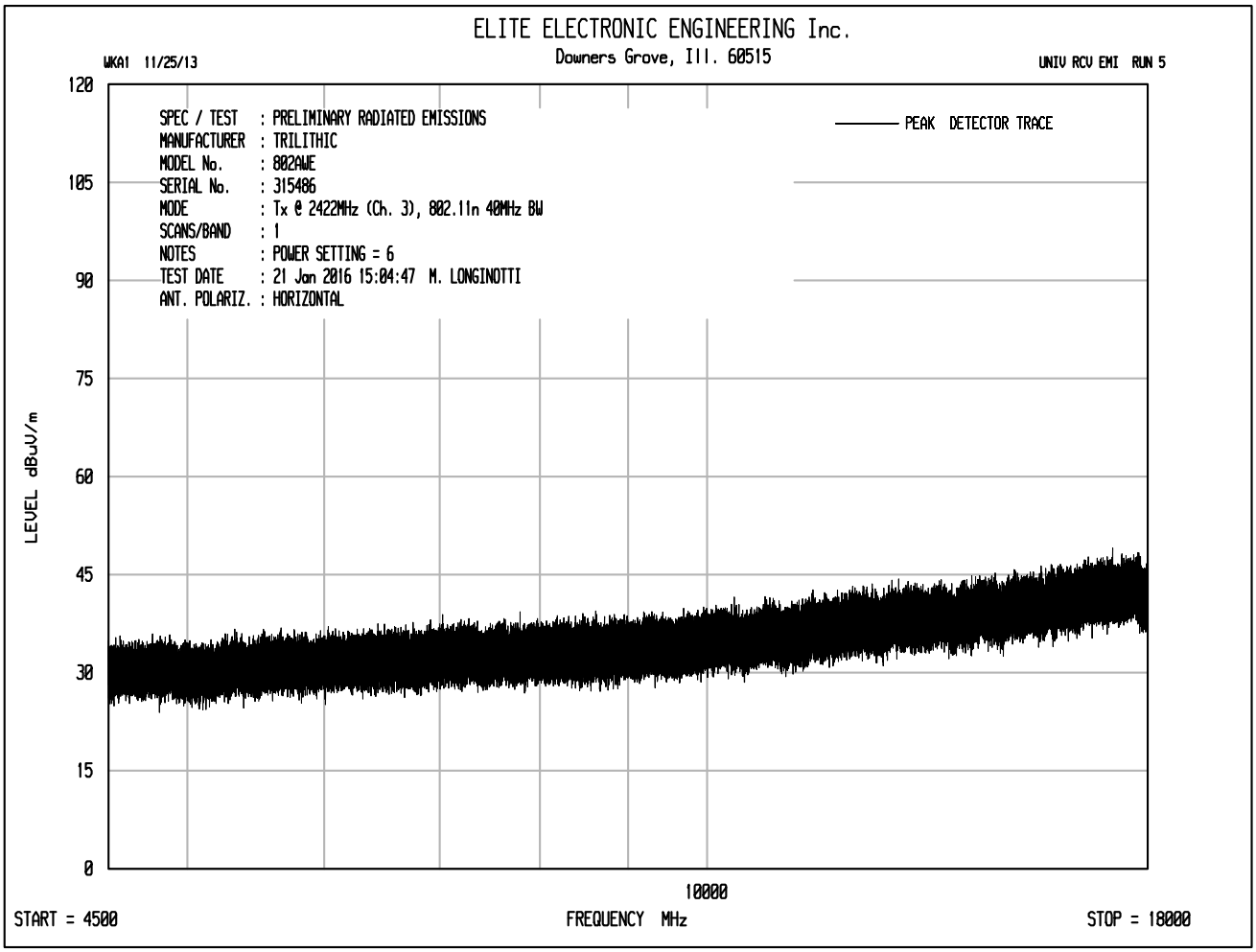
Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4924.00	H	33.6	Ambient	4.9	34.2	-38.4	34.3	51.9	500.0	-19.7
4924.00	V	33.3	Ambient	4.9	34.2	-38.4	34.0	50.2	500.0	-20.0
7386.00	H	31.90	Ambient	6.2	36.2	-38.8	35.5	59.7	500.0	-18.5
7386.00	V	32.4	Ambient	6.2	36.2	-38.8	36.0	63.2	500.0	-18.0
12310.00	H	34.5	Ambient	8.0	39.3	-38.5	43.3	146.7	500.0	-10.6
12310.00	V	34.5	Ambient	8.0	39.3	-38.5	43.3	146.7	500.0	-10.6
19696.00	H	23.8	Ambient	2.2	40.4	-28.3	38.2	81.0	500.0	-15.8
19696.00	V	24.1	Ambient	2.2	40.4	-28.3	38.5	83.9	500.0	-15.5
22158.00	H	24.8	Ambient	2.2	40.6	-29.1	38.5	84.4	500.0	-15.4
22158.00	V	25.0	Ambient	2.2	40.6	-29.1	38.7	86.4	500.0	-15.2

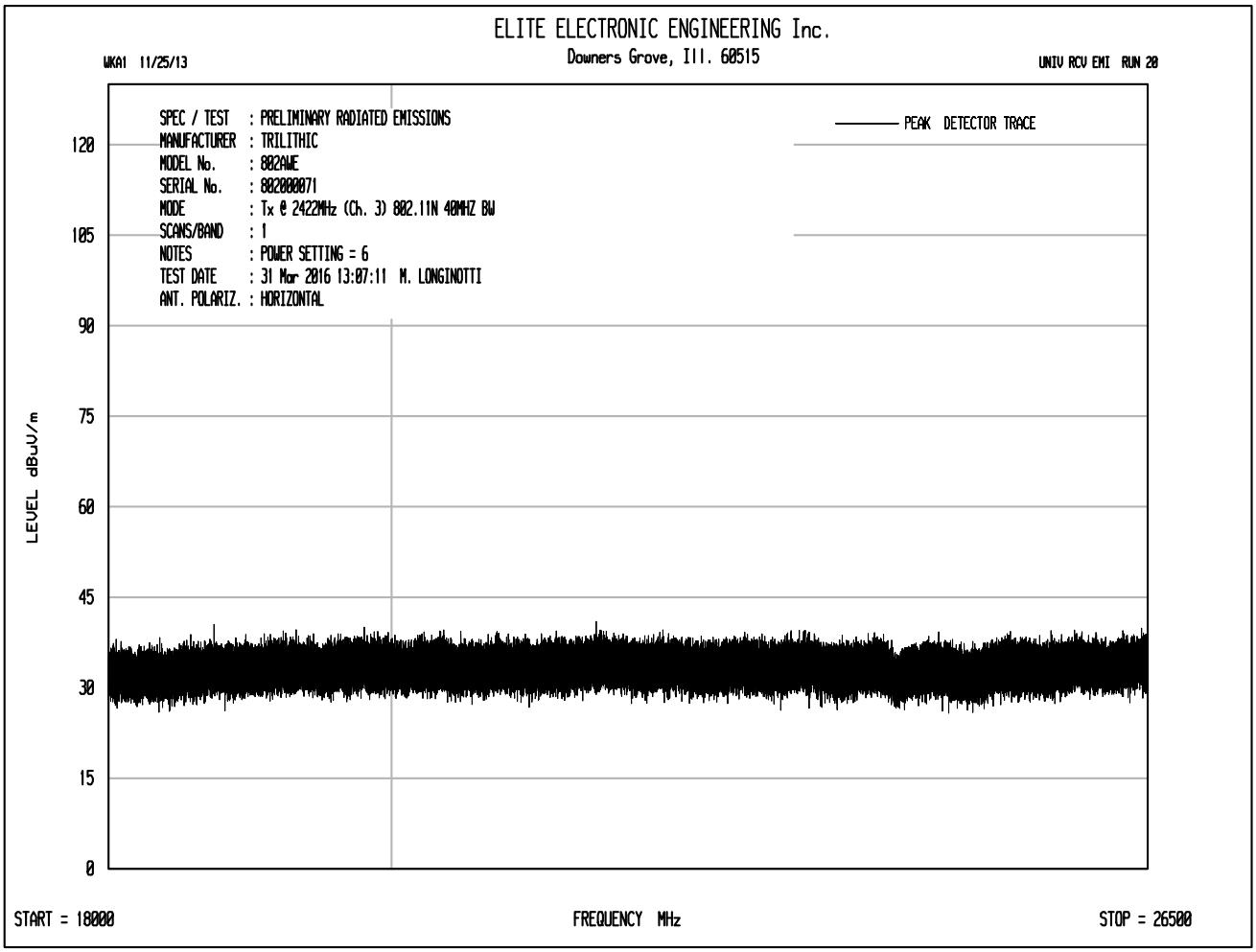
Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

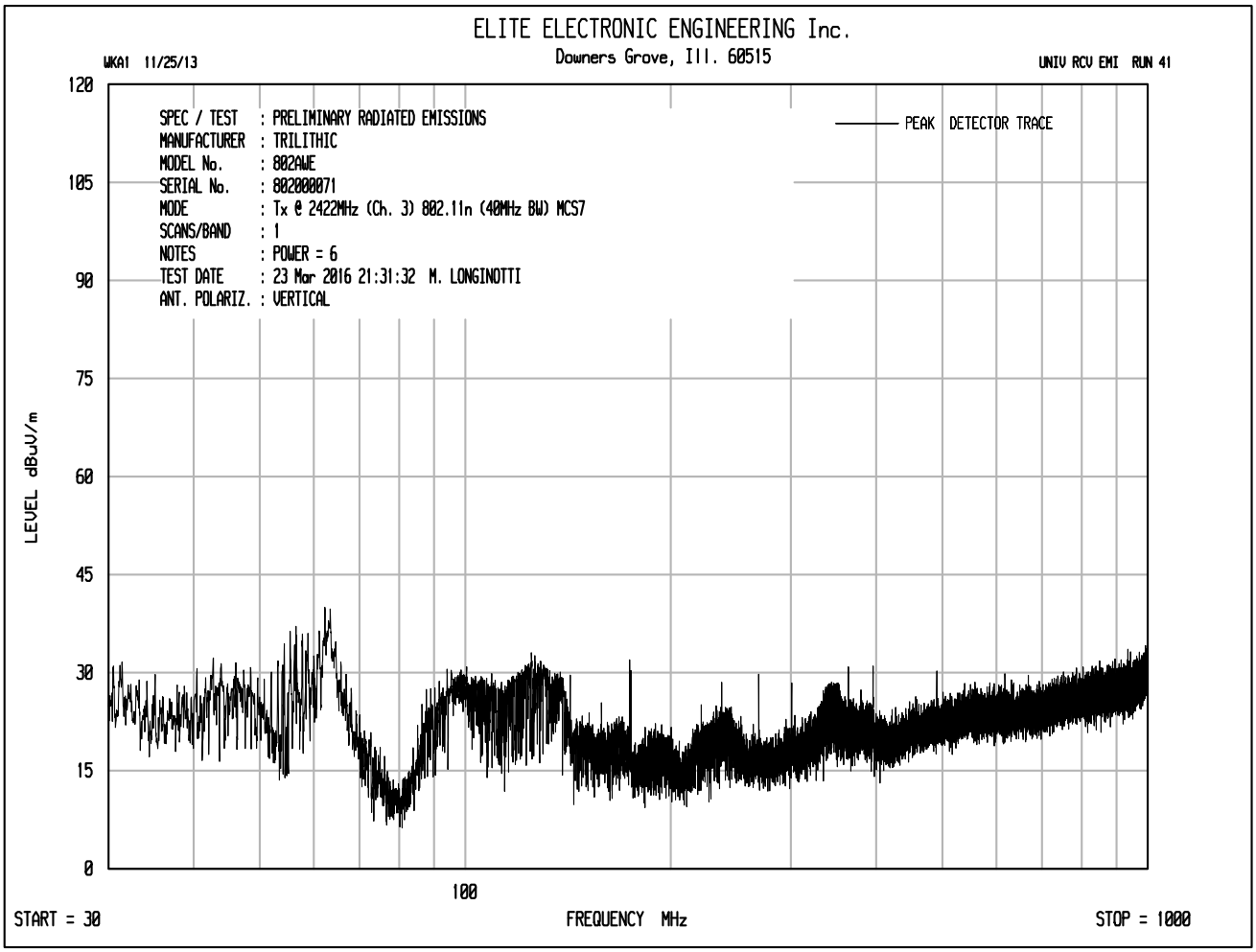
Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

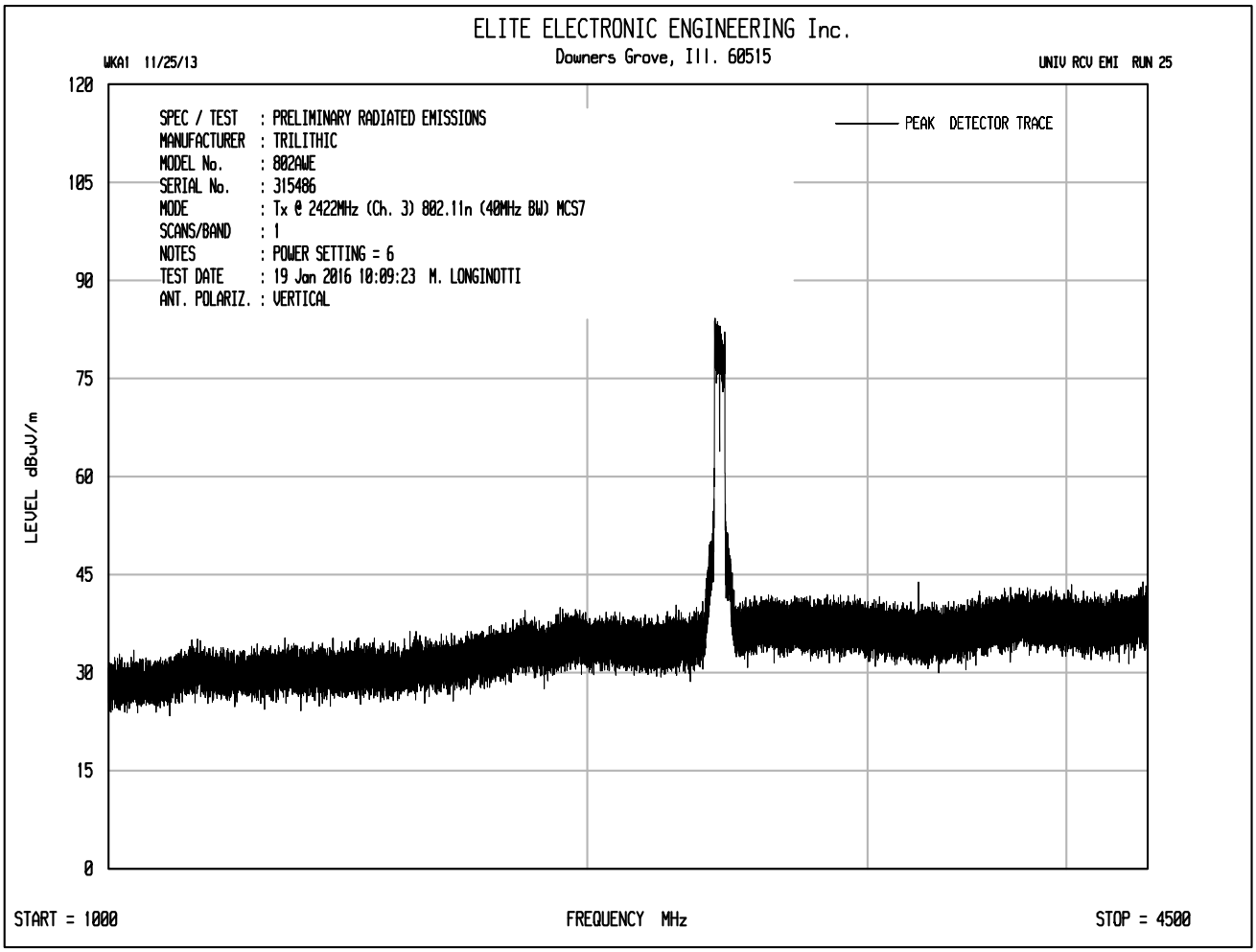

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 42
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2422MHz (Ch. 3) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER = 6
TEST DATE : 23 Mar 2016 21:32:56 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

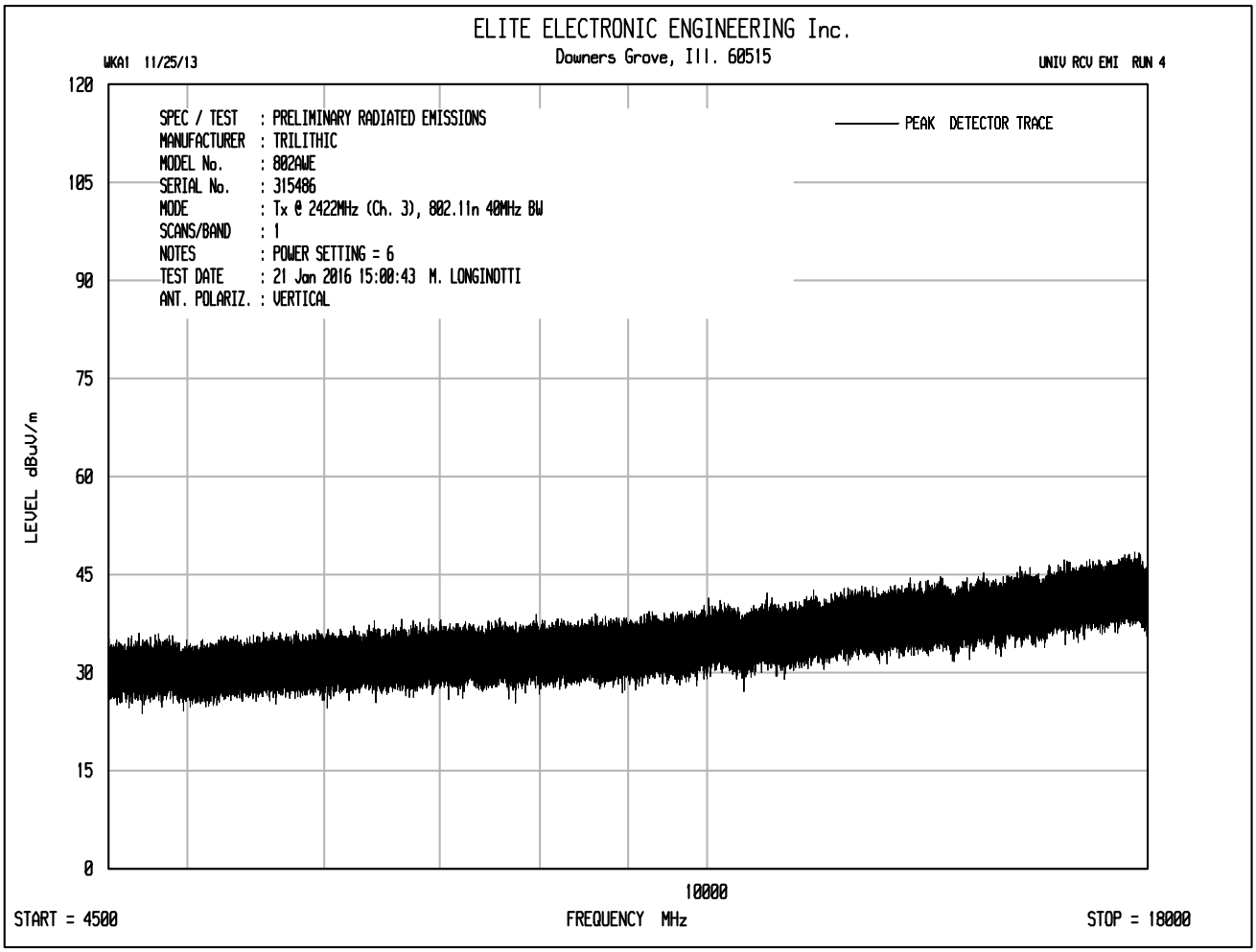

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 26
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2422MHz (Ch. 3) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER SETTING = 6
TEST DATE : 19 Jan 2016 10:10:41 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

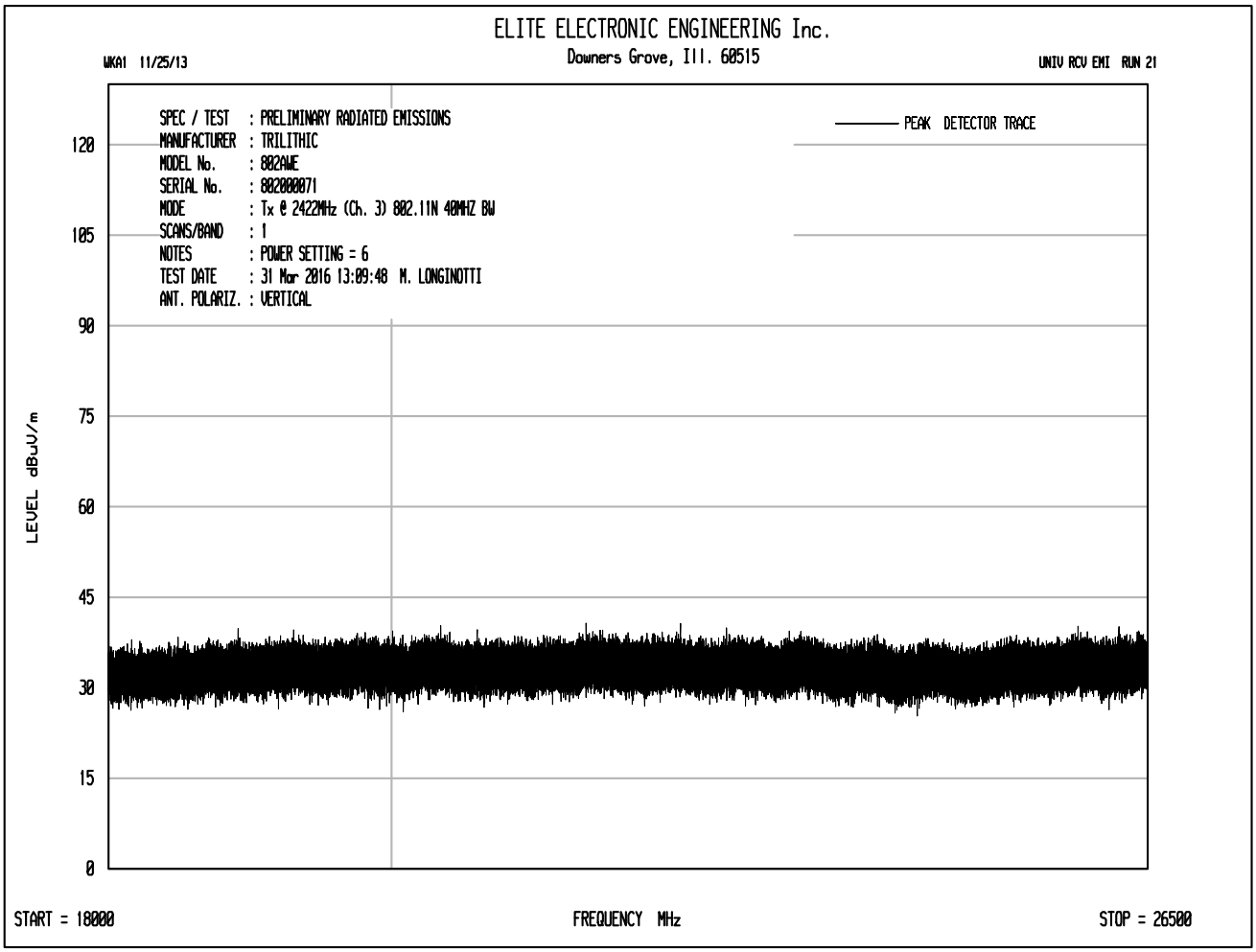

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 5
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2422MHz (Ch. 3), 802.11n 40MHz BW
SCANS/BAND : 1
NOTES : POWER SETTING = 6
TEST DATE : 21 Jan 2016 15:04:47 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 20
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 80200071
MODE : Tx @ 2422MHz (Ch. 3) 802.11N 40MHZ BW
SCANS/BAND : 1
NOTES : POWER SETTING = 6
TEST DATE : 31 Mar 2016 13:07:11 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 41
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2422MHz (Ch. 3) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER = 6
TEST DATE : 23 Mar 2016 21:31:32 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 25
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2422MHz (Ch. 3) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER SETTING = 6
TEST DATE : 19 Jan 2016 10:09:23 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 4
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2422MHz (Ch. 3), 802.11n 40MHz BW
SCANS/BAND : 1
NOTES : POWER SETTING = 6
TEST DATE : 21 Jan 2016 15:00:43 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 21
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 80200071
MODE : Tx @ 2422MHz (Ch. 3) 802.11N 40MHZ BW
SCANS/BAND : 1
NOTES : POWER SETTING = 6
TEST DATE : 31 Mar 2016 13:09:48 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2422MHz, 802.11n MCS7, 40MHz bandwidth, power setting = 6
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4844.00	H	48.0	Ambient	4.9	34.2	-39.3	47.7	243.8	5000.0	-26.2
4844.00	V	48.1	Ambient	4.9	34.2	-39.3	47.8	246.6	5000.0	-26.1
7266.00	H	48.2	Ambient	6.1	36.1	-39.4	51.0	356.0	5000.0	-23.0
7266.00	V	48.3	Ambient	6.1	36.1	-39.4	51.1	360.1	5000.0	-22.9
12110.00	H	47.8	Ambient	8.0	39.2	-39.1	55.9	621.6	5000.0	-18.1
12110.00	V	47.4	Ambient	8.0	39.2	-39.1	55.5	593.6	5000.0	-18.5
19376.00	H	34.7	Ambient	2.2	40.4	-28.4	48.9	277.5	5000.0	-25.1
19376.00	V	36.8	Ambient	2.2	40.4	-28.4	51.0	353.5	5000.0	-23.0

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

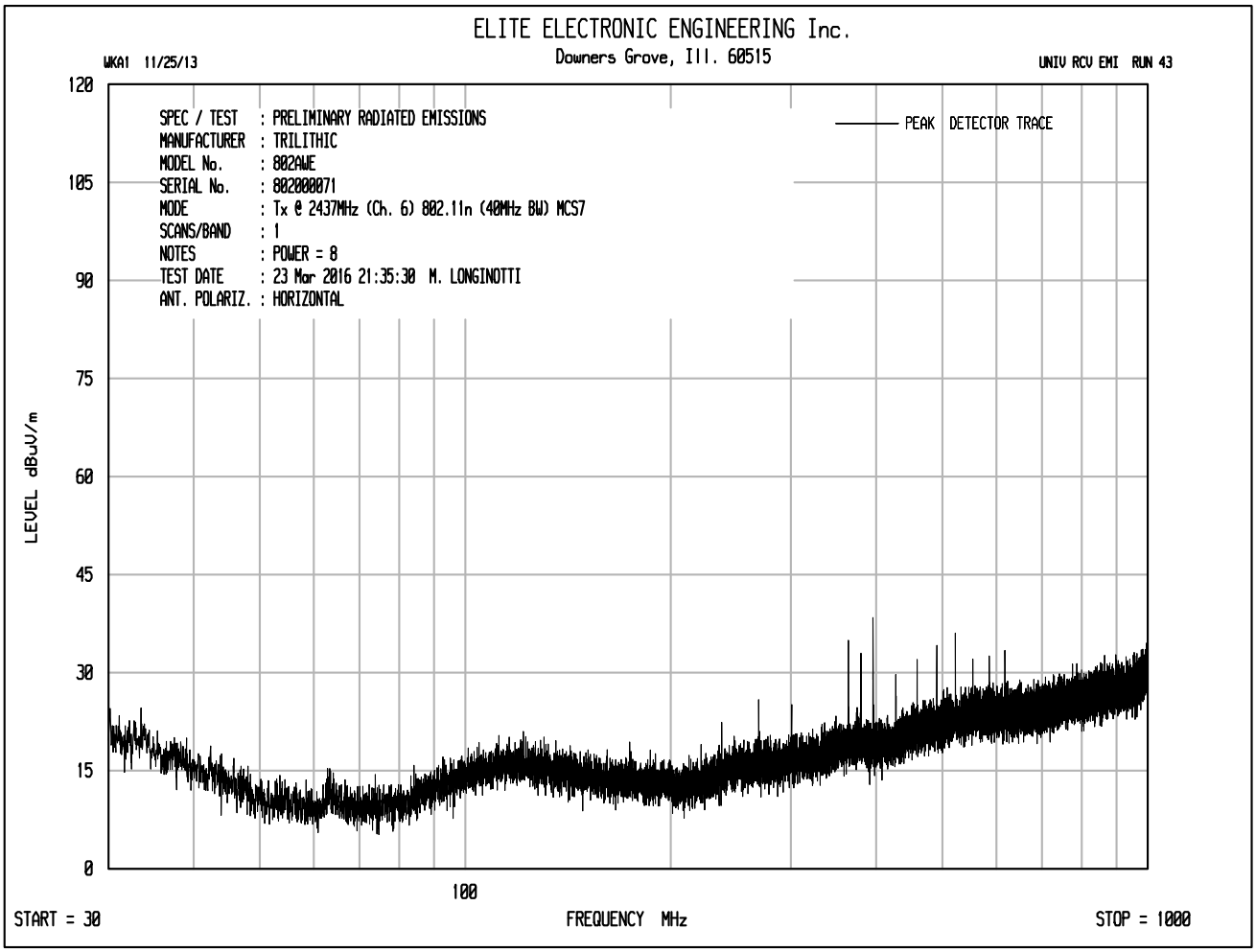
Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

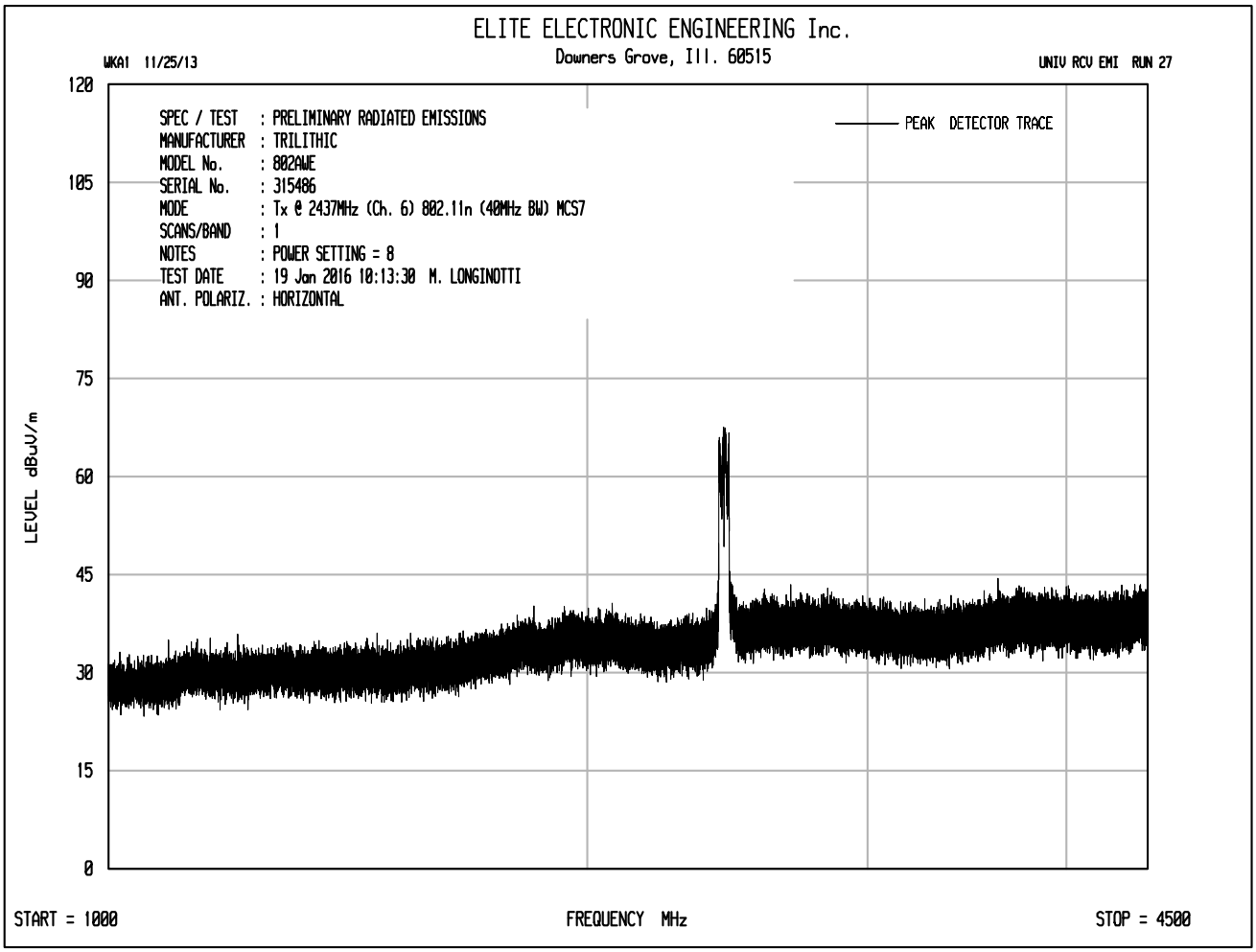
Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2422MHz, 802.11n MCS7, 40MHz bandwidth, power setting = 6
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

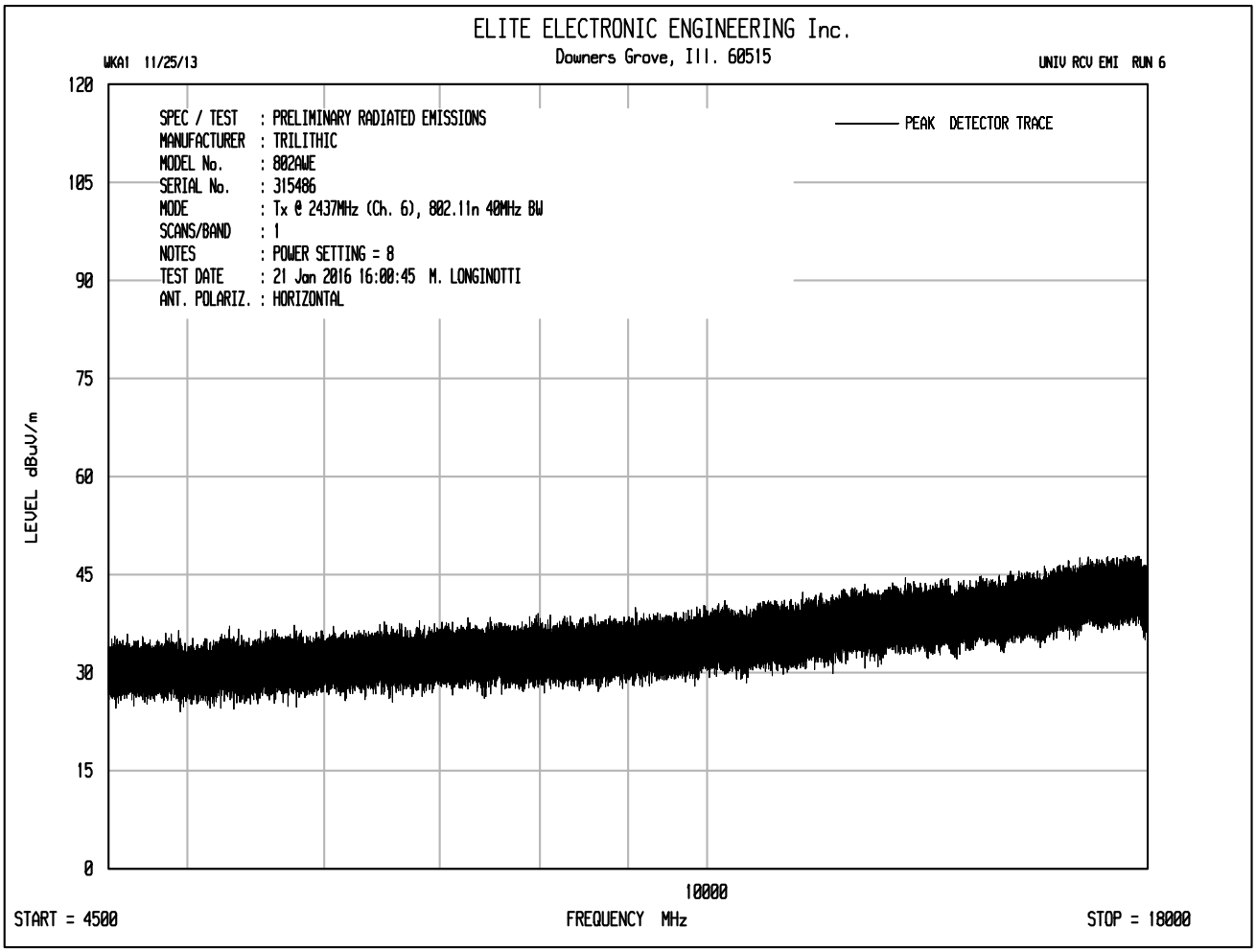
Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4844.00	H	35.0	Ambient	4.9	34.2	-39.3	34.7	54.6	500.0	-19.2
4844.00	V	35.3	Ambient	4.9	34.2	-39.3	35.0	56.5	500.0	-18.9
7266.00	H	35.80	Ambient	6.1	36.1	-39.4	38.6	85.4	500.0	-15.4
7266.00	V	35.8	Ambient	6.1	36.1	-39.4	38.6	85.4	500.0	-15.4
12110.00	H	34.8	Ambient	8.0	39.2	-39.1	42.9	139.2	500.0	-11.1
12110.00	V	34.8	Ambient	8.0	39.2	-39.1	42.9	139.2	500.0	-11.1
19376.00	H	22.0	Ambient	2.2	40.4	-28.4	36.2	64.3	500.0	-17.8
19376.00	V	23.9	Ambient	2.2	40.4	-28.4	38.1	80.0	500.0	-15.9

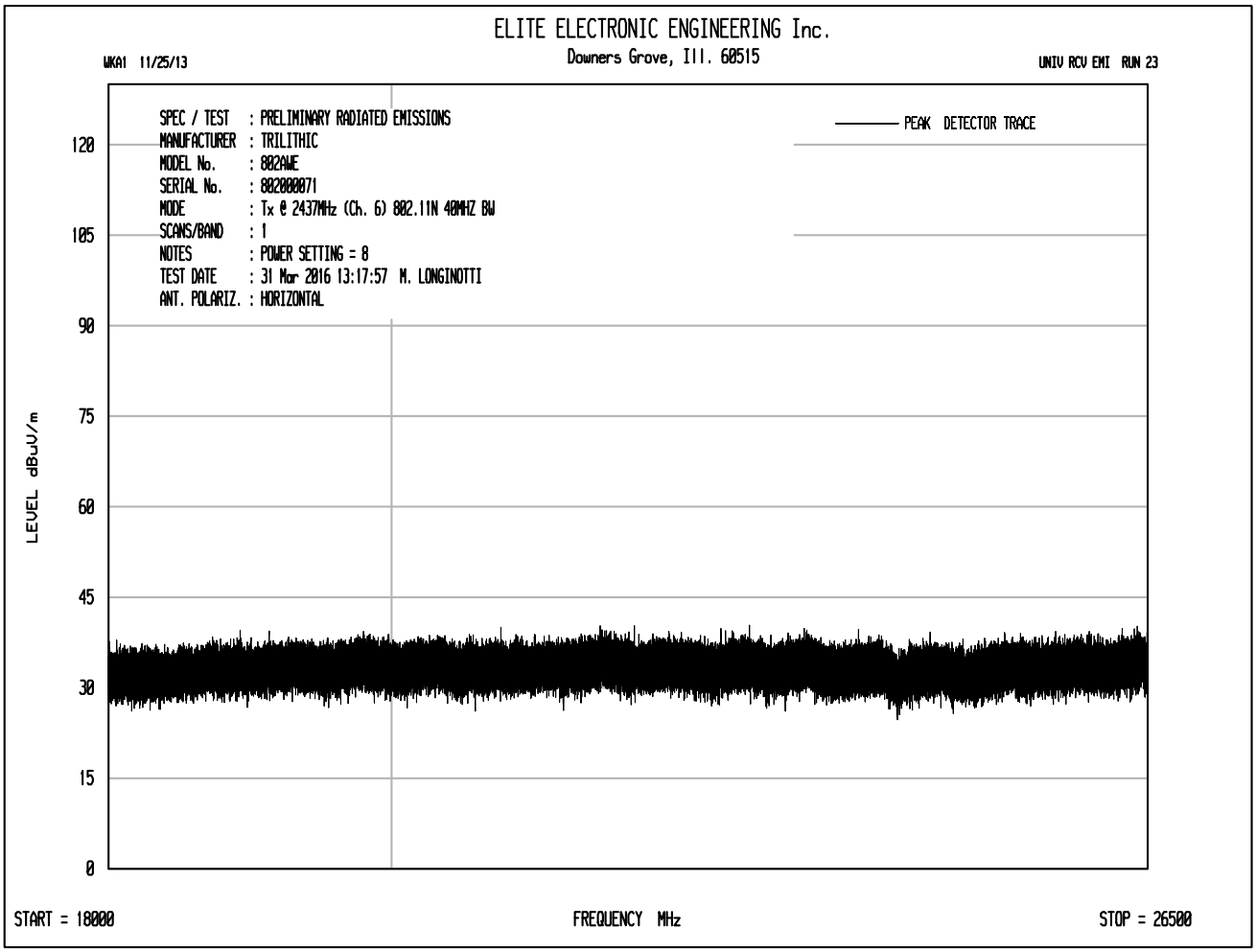
Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

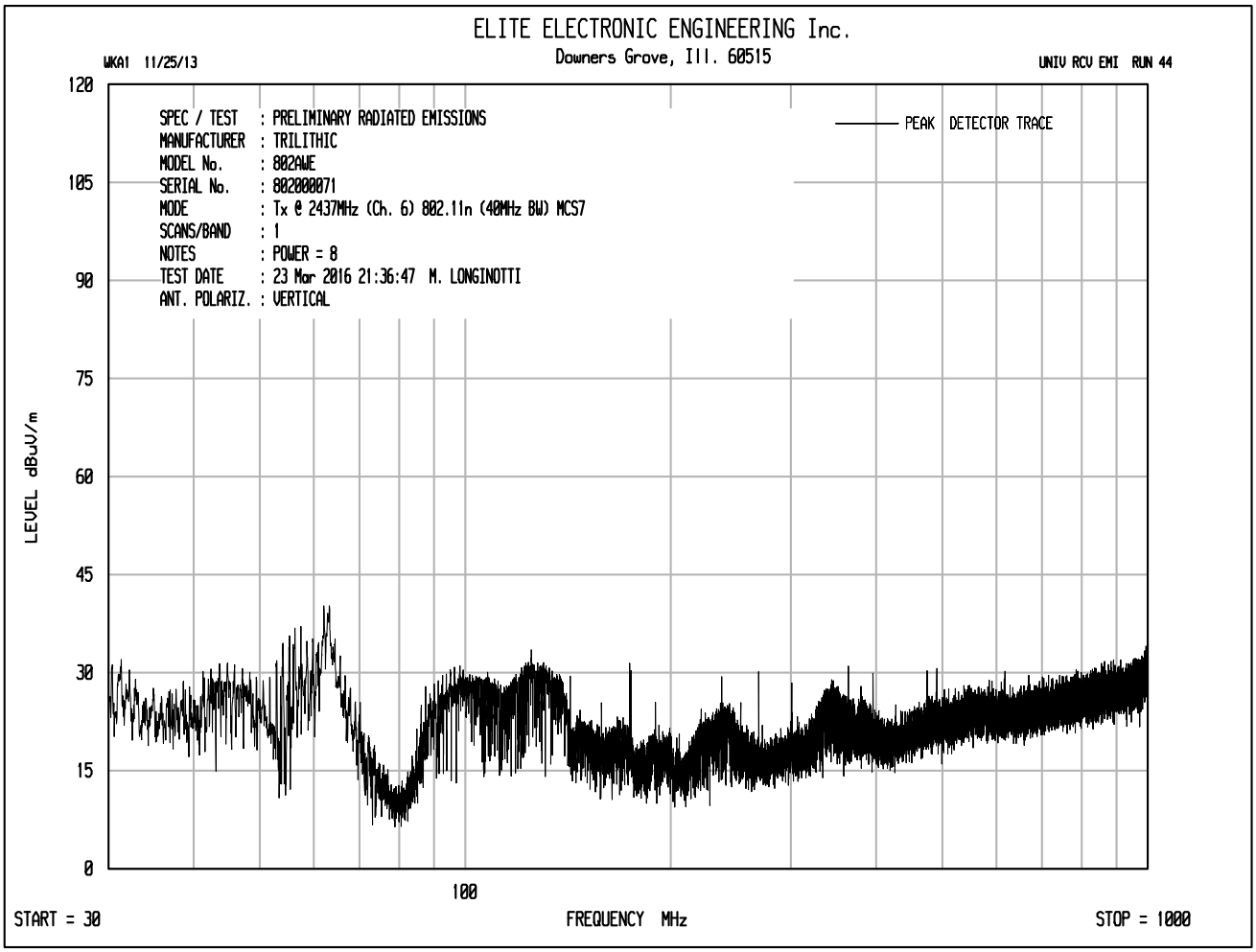
Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

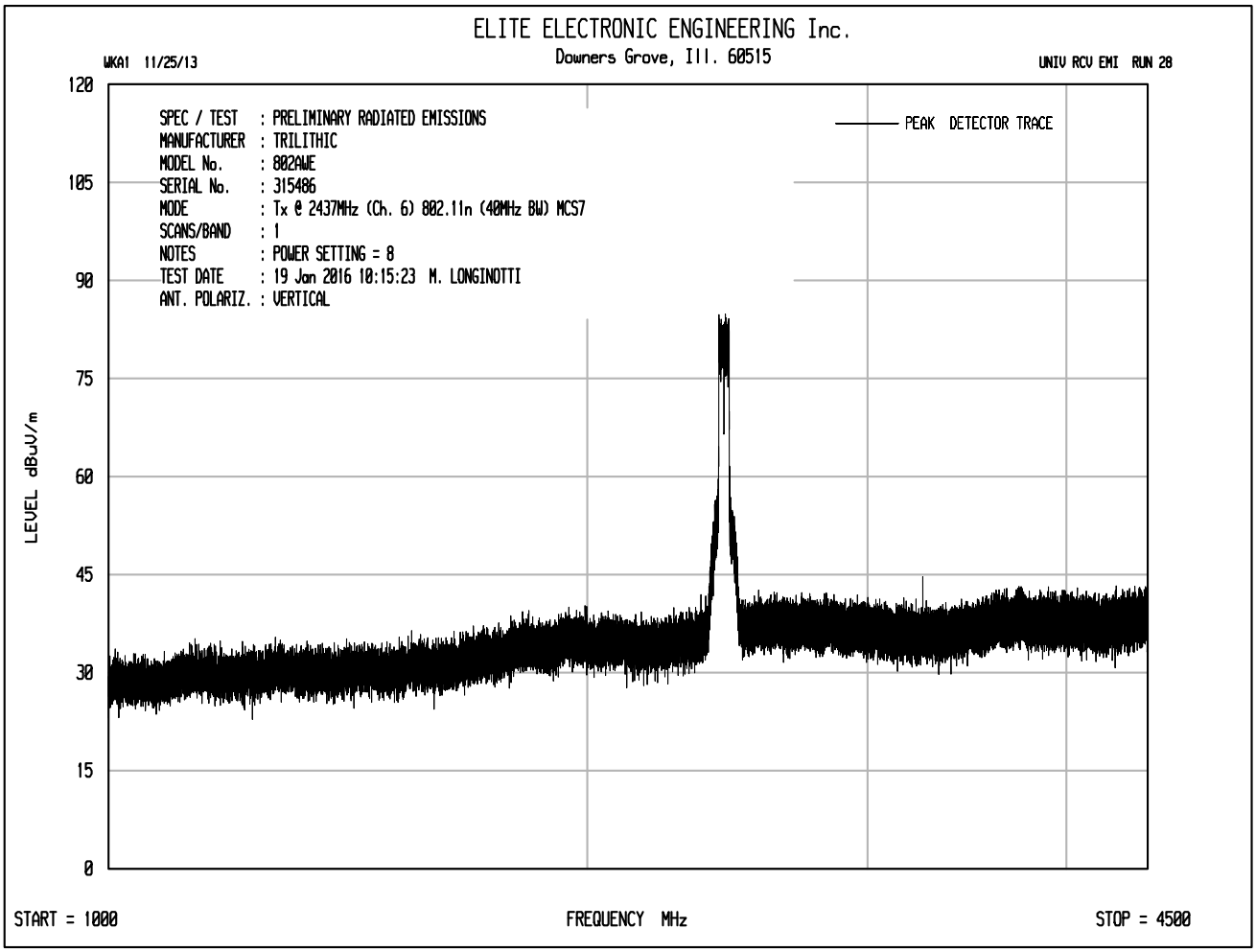

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 43
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2437MHz (Ch. 6) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER = 8
TEST DATE : 23 Mar 2016 21:35:30 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

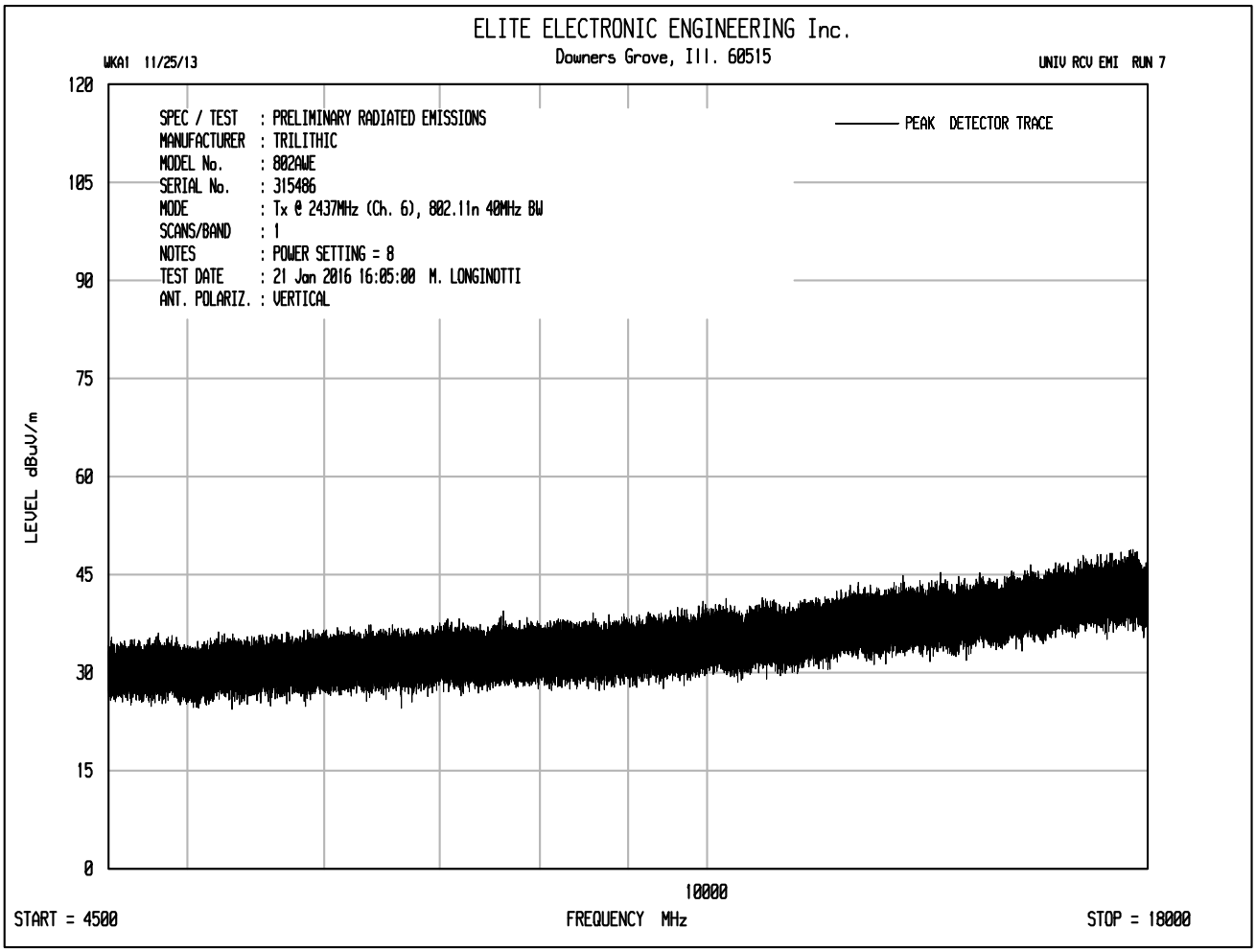

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 27
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2437MHz (Ch. 6) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER SETTING = 8
TEST DATE : 19 Jan 2016 10:13:30 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

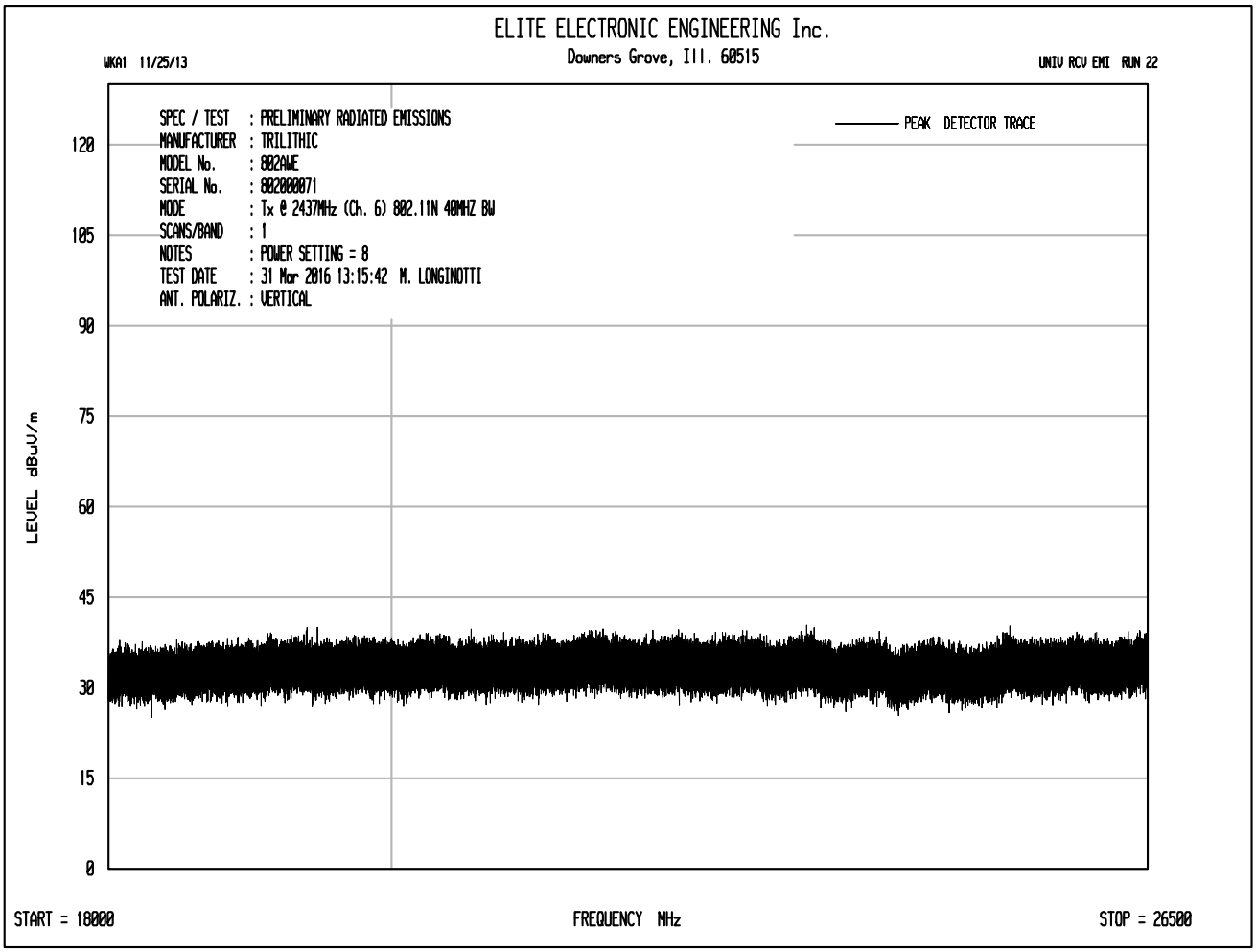

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 6
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2437MHz (Ch. 6), 802.11n 40MHz BW
SCANS/BAND : 1
NOTES : POWER SETTING = 8
TEST DATE : 21 Jan 2016 16:00:45 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 23
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2437MHz (Ch. 6) 802.11N 40MHZ BW
SCANS/BAND : 1
NOTES : POWER SETTING = 8
TEST DATE : 31 Mar 2016 13:17:57 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 44
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2437MHz (Ch. 6) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER = 8
TEST DATE : 23 Mar 2016 21:36:47 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 20
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2437MHz (Ch. 6) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER SETTING = 8
TEST DATE : 19 Jan 2016 10:15:23 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 7
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2437MHz (Ch. 6), 802.11n 40MHz BW
SCANS/BAND : 1
NOTES : POWER SETTING = 8
TEST DATE : 21 Jan 2016 16:05:00 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 22
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2437MHz (Ch. 6) 802.11N 40MHZ BW
SCANS/BAND : 1
NOTES : POWER SETTING = 8
TEST DATE : 31 Mar 2016 13:15:42 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2437MHz, 802.11n MCS7, 40MHz bandwidth, power setting = 8
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4874.00	H	48.3	Ambient	4.9	34.2	-39.3	48.0	252.4	5000.0	-25.9
4874.00	V	47.9	Ambient	4.9	34.2	-39.3	47.6	241.1	5000.0	-26.3
7311.00	H	48.0	Ambient	6.2	36.1	-39.4	50.9	350.2	5000.0	-23.1
7311.00	V	48.6	Ambient	6.2	36.1	-39.4	51.5	375.3	5000.0	-22.5
12185.00	H	47.4	Ambient	8.0	39.2	-39.1	55.6	599.6	5000.0	-18.4
12185.00	V	48.1	Ambient	8.0	39.2	-39.1	56.3	649.9	5000.0	-17.7
19496.00	H	36.7	Ambient	2.2	40.4	-28.6	50.7	344.0	5000.0	-23.2
19496.00	V	36.8	Ambient	2.2	40.4	-28.6	50.8	348.0	5000.0	-23.1

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

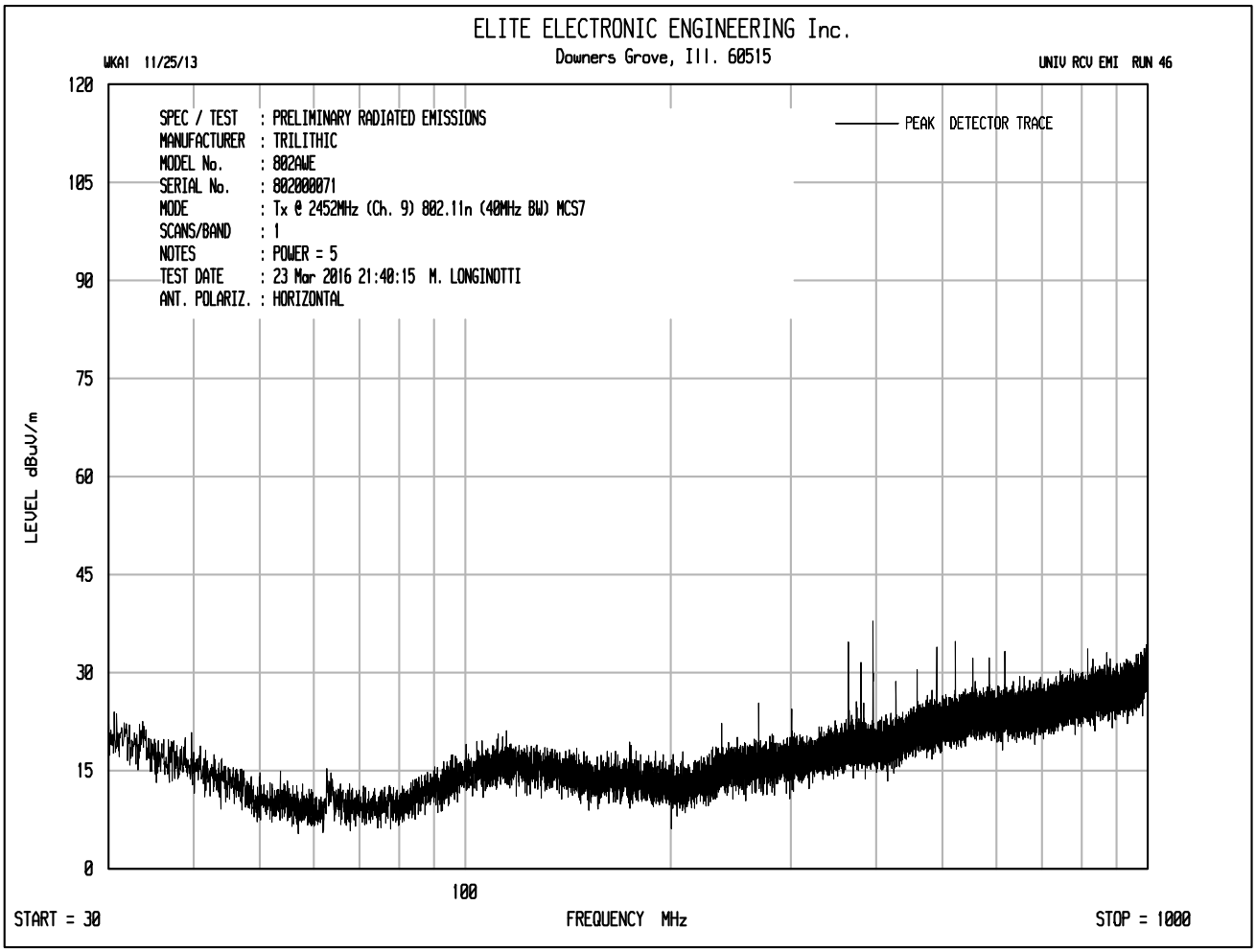
Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

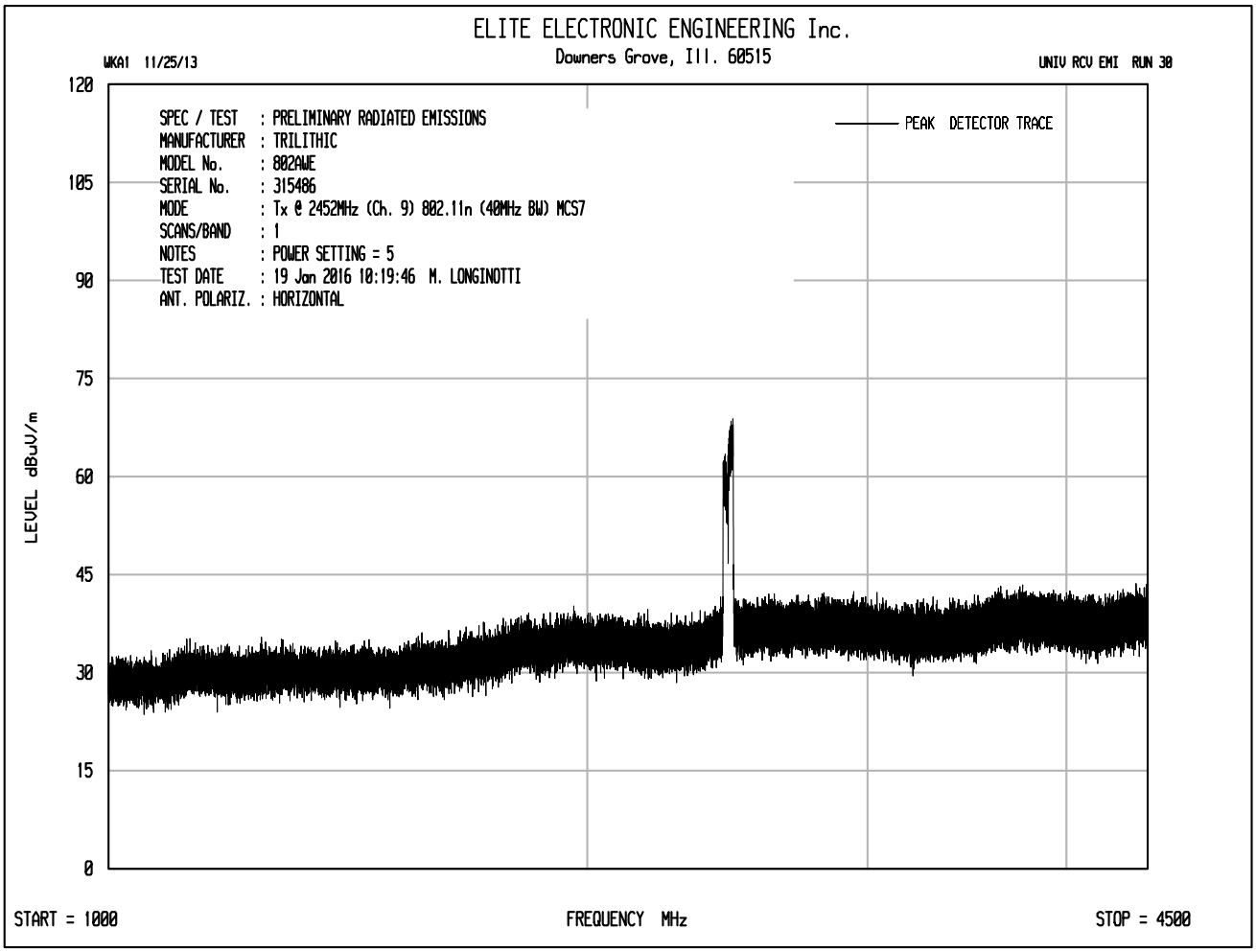
Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2437MHz, 802.11n MCS7, 40MHz bandwidth, power setting = 8
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

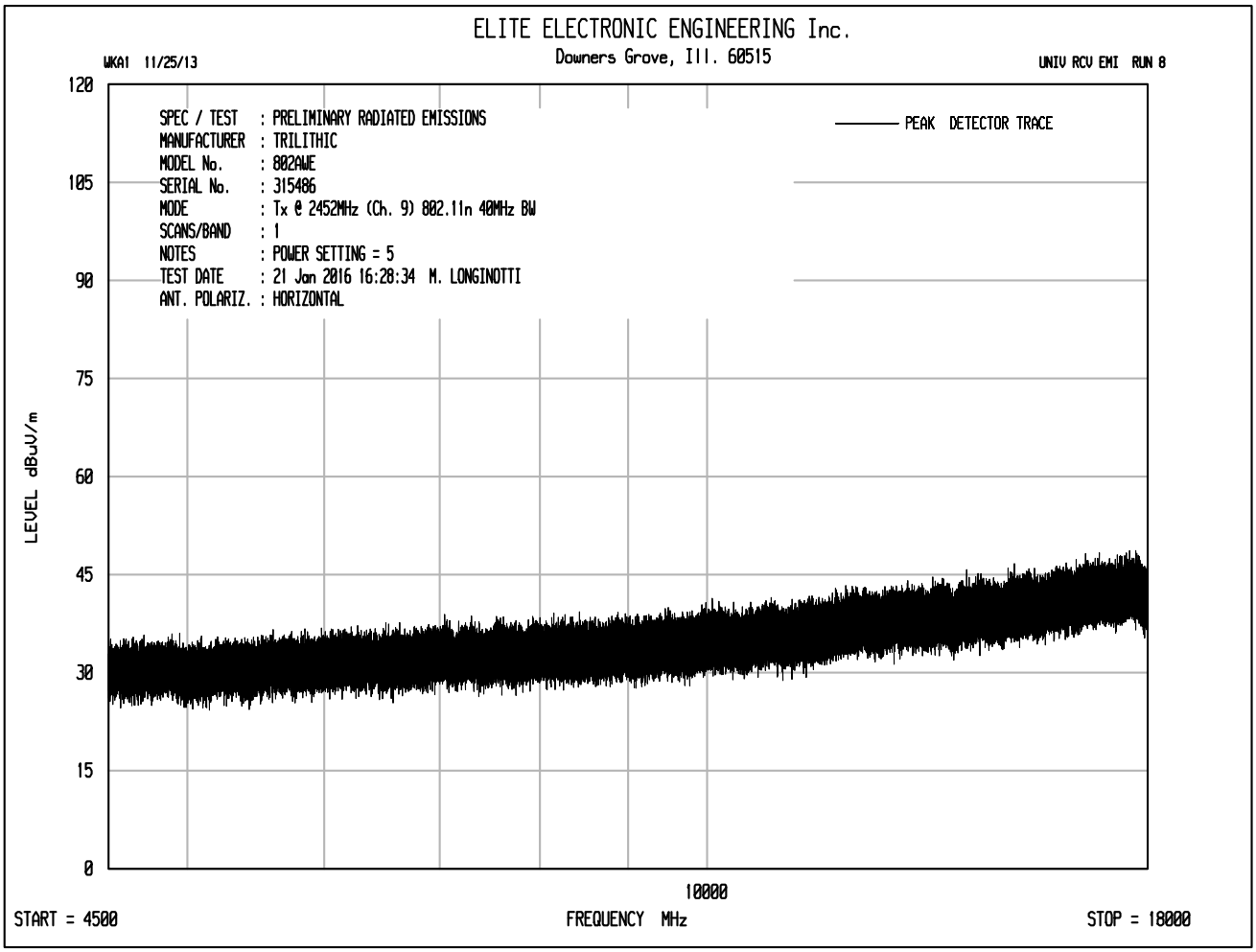
Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4874.00	H	35.2	Ambient	4.9	34.2	-39.3	34.9	55.9	500.0	-19.0
4874.00	V	35.3	Ambient	4.9	34.2	-39.3	35.0	56.5	500.0	-18.9
7311.00	H	35.60	Ambient	6.2	36.1	-39.4	38.5	84.0	500.0	-15.5
7311.00	V	35.6	Ambient	6.2	36.1	-39.4	38.5	84.0	500.0	-15.5
12185.00	H	34.8	Ambient	8.0	39.2	-39.1	43.0	140.6	500.0	-11.0
12185.00	V	34.8	Ambient	8.0	39.2	-39.1	43.0	140.6	500.0	-11.0
19496.00	H	23.7	Ambient	2.2	40.4	-28.6	37.7	77.0	500.0	-16.2
19496.00	V	23.6	Ambient	2.2	40.4	-28.6	37.6	76.1	500.0	-16.3

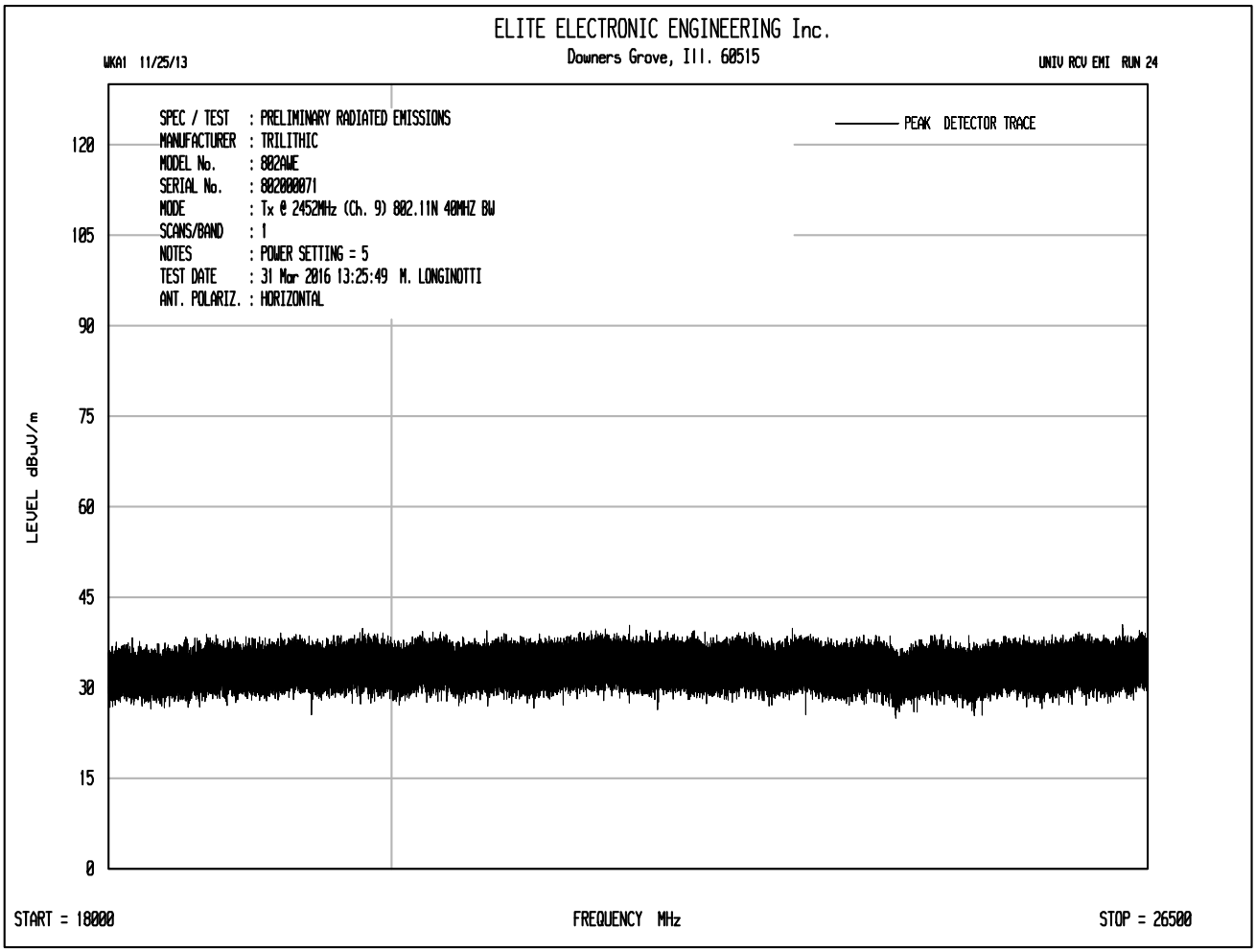
Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

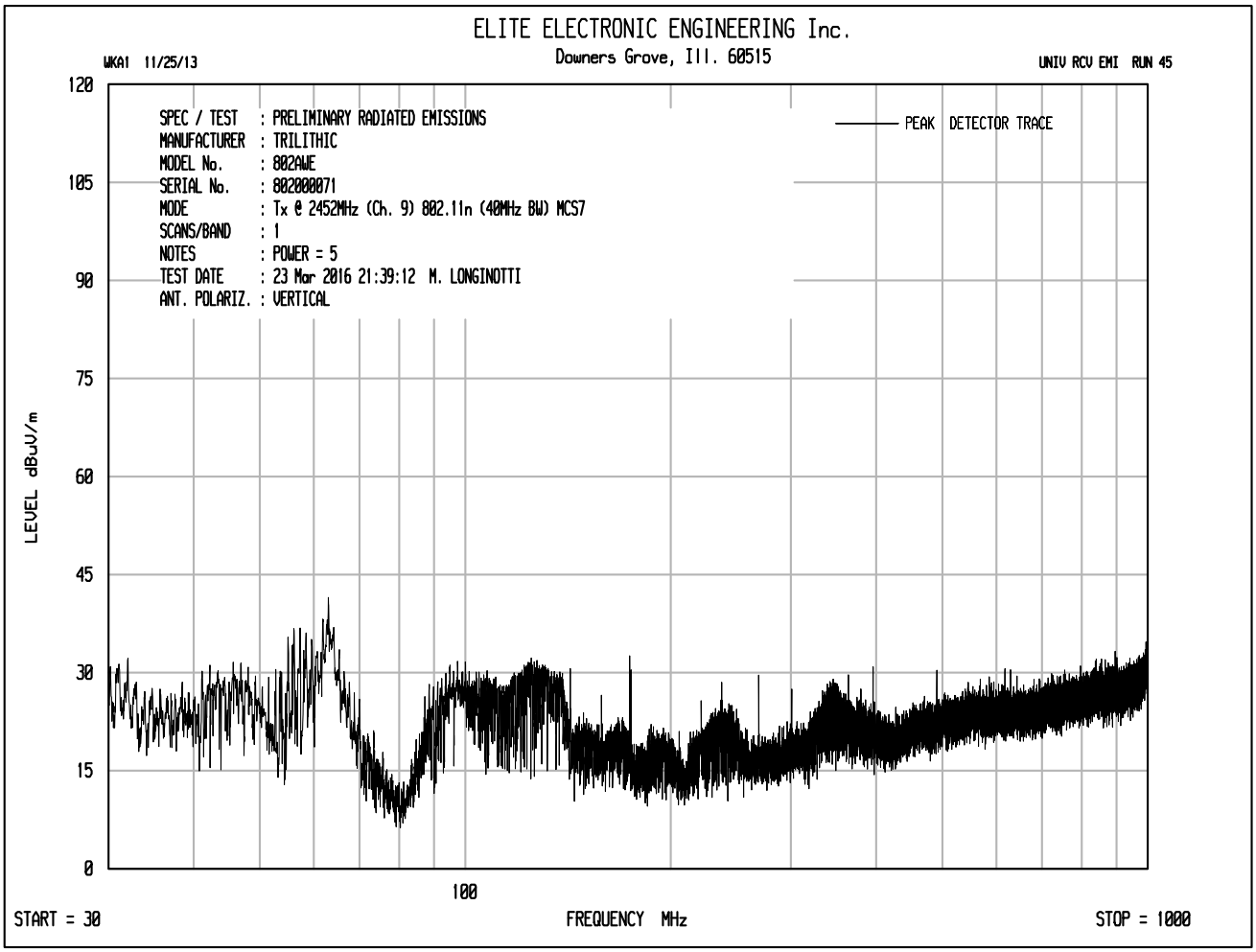
Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

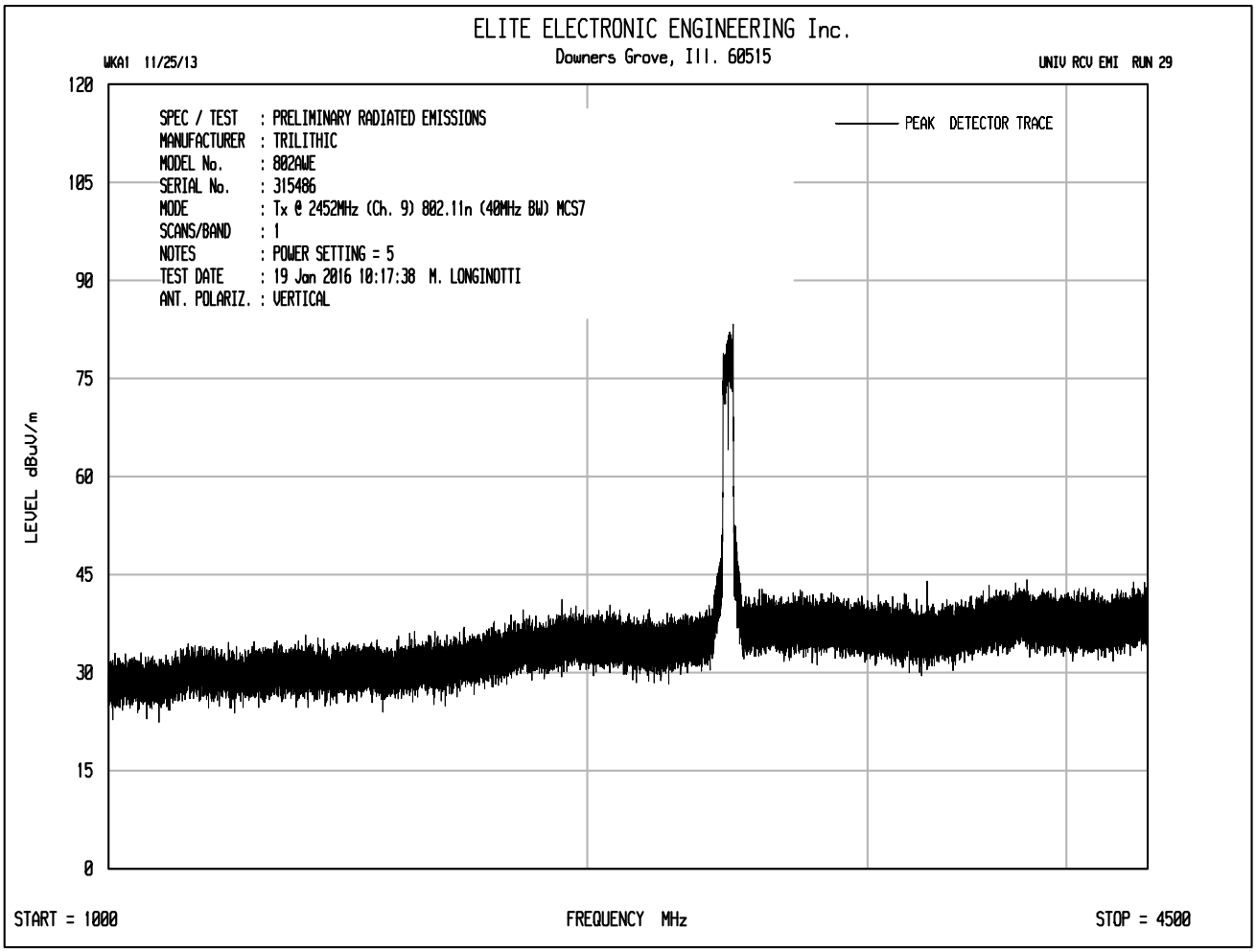

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 46
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2452MHz (Ch. 9) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER = 5
TEST DATE : 23 Mar 2016 21:40:15 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000

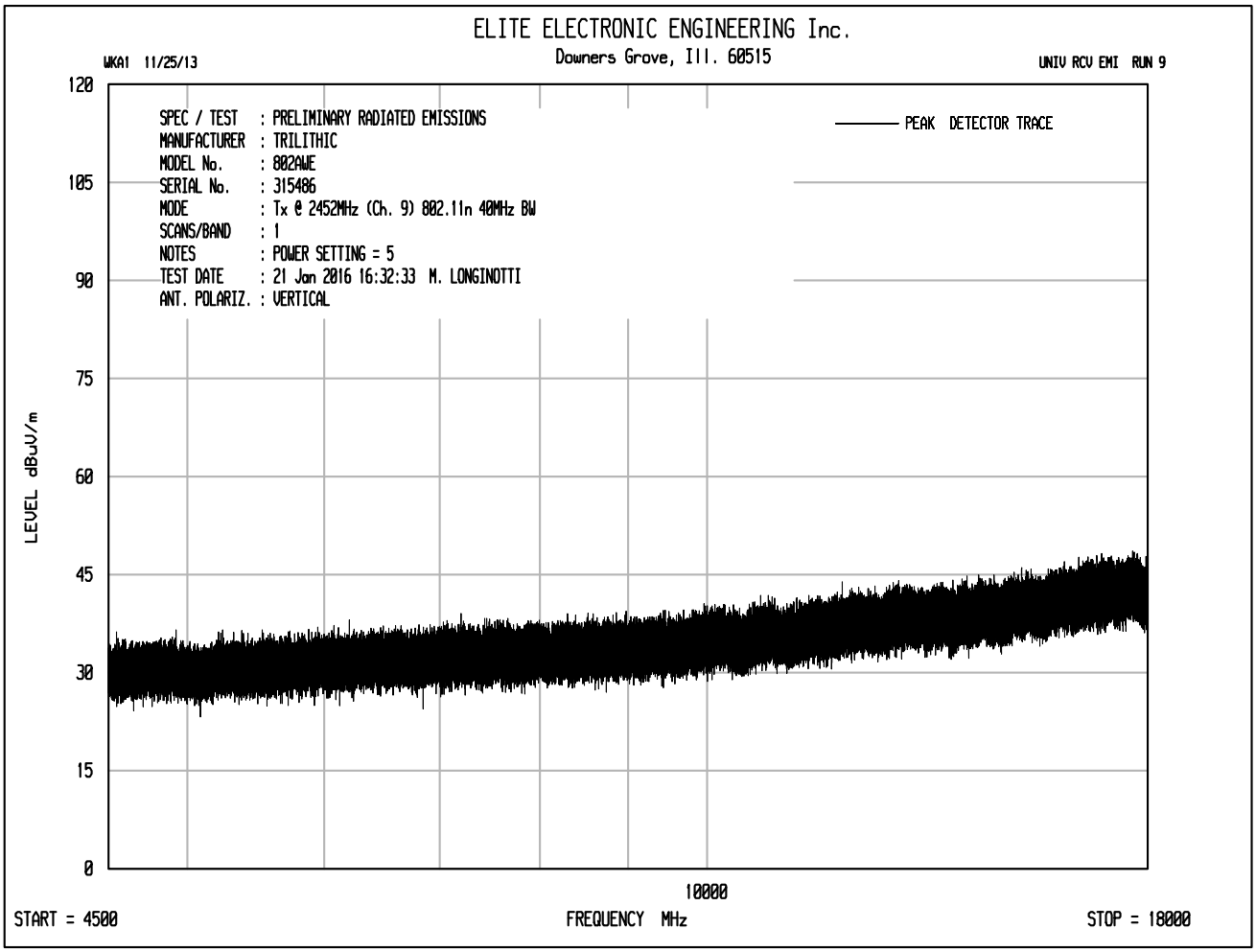

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 30
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2452MHz (Ch. 9) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER SETTING = 5
TEST DATE : 19 Jan 2016 10:19:46 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

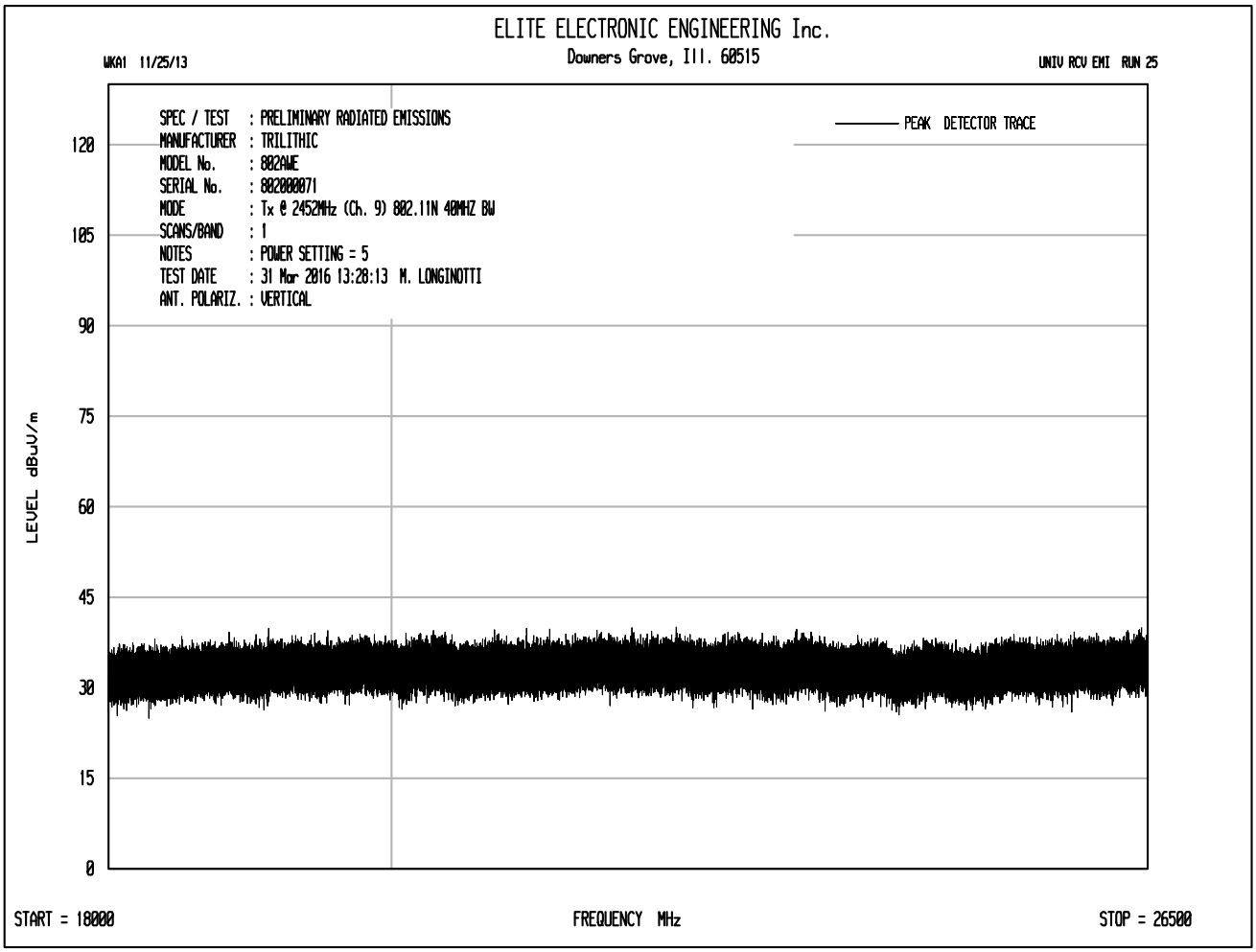

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 8
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2452MHz (Ch. 9) 802.11n 40MHz BW
SCANS/BAND : 1
NOTES : POWER SETTING = 5
TEST DATE : 21 Jan 2016 16:28:34 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 24
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 80200071
MODE : Tx @ 2452MHz (Ch. 9) 802.11N 40MHZ BW
SCANS/BAND : 1
NOTES : POWER SETTING = 5
TEST DATE : 31 Mar 2016 13:25:49 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 45
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 2452MHz (Ch. 9) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER = 5
TEST DATE : 23 Mar 2016 21:39:12 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
100
START = 30
FREQUENCY MHz
STOP = 1000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 29
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2452MHz (Ch. 9) 802.11n (40MHz BW) MCS7
SCANS/BAND : 1
NOTES : POWER SETTING = 5
TEST DATE : 19 Jan 2016 10:17:38 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 9
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 2452MHz (Ch. 9) 802.11n 40MHz BW
SCANS/BAND : 1
NOTES : POWER SETTING = 5
TEST DATE : 21 Jan 2016 16:32:33 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
10000
START = 4500
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 25
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 80200071
MODE : Tx @ 2452MHz (Ch. 9) 802.11N 40MHZ BW
SCANS/BAND : 1
NOTES : POWER SETTING = 5
TEST DATE : 31 Mar 2016 13:28:13 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2452MHz, 802.11n MCS7, 40MHz bandwidth, power setting = 5
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4904.00	H	49.2	Ambient	4.9	34.2	-39.3	48.9	280.1	5000.0	-25.0
4904.00	V	48.5	Ambient	4.9	34.2	-39.3	48.2	258.4	5000.0	-25.7
7356.00	H	48.7	Ambient	6.2	36.2	-39.4	51.6	382.2	5000.0	-22.3
7356.00	V	48.7	Ambient	6.2	36.2	-39.4	51.6	382.2	5000.0	-22.3
12260.00	H	49.2	Ambient	8.0	39.3	-39.1	57.4	744.8	5000.0	-16.5
12260.00	V	48.7	Ambient	8.0	39.3	-39.1	56.9	703.1	5000.0	-17.0
19616.00	H	37.0	Ambient	2.2	40.4	-28.2	51.4	371.3	5000.0	-22.6
19616.00	V	36.3	Ambient	2.2	40.4	-28.2	50.7	342.6	5000.0	-23.3
22068.00	H	38.0	Ambient	2.2	40.6	-29.1	51.7	383.1	5000.0	-22.3
22068.00	V	37.7	Ambient	2.2	40.6	-29.1	51.4	370.1	5000.0	-22.6

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions in Restricted Bands
Mode : Transmit at 2452MHz, 802.11n MCS7, 40MHz bandwidth, power setting = 5
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4904.00	H	35.8	Ambient	4.9	34.2	-39.3	35.5	59.9	500.0	-18.4
4904.00	V	35.7	Ambient	4.9	34.2	-39.3	35.4	59.2	500.0	-18.5
7356.00	H	36.00	Ambient	6.2	36.2	-39.4	38.9	88.6	500.0	-15.0
7356.00	V	36.0	Ambient	6.2	36.2	-39.4	38.9	88.6	500.0	-15.0
12260.00	H	36.1	Ambient	8.0	39.3	-39.1	44.3	164.8	500.0	-9.6
12260.00	V	36.1	Ambient	8.0	39.3	-39.1	44.3	164.8	500.0	-9.6
19616.00	H	24.0	Ambient	2.2	40.4	-28.2	38.4	83.1	500.0	-15.6
19616.00	V	23.9	Ambient	2.2	40.4	-28.2	38.3	82.2	500.0	-15.7
22068.00	H	25.1	Ambient	2.2	40.6	-29.1	38.8	86.7	500.0	-15.2
22068.00	V	25.0	Ambient	2.2	40.6	-29.1	38.7	85.8	500.0	-15.3

Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions at the High Band Edge
Mode : Transmit at 2462MHz, 802.11b 11 Mb/sec, power setting = 17
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
2483.50	H	15.1		3.5	32.6	0.0	51.2	361.9	5000.0	-22.8
2483.72	V	29.8		3.5	32.6	0.0	65.9	1966.2	5000.0	-8.1

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions at the High Band Edge
Mode : Transmit at 2462MHz, 802.11b 11 Mb/sec, power setting = 17
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
2483.50	H	3.1		3.5	32.6	0.0	39.2	90.9	500.0	-14.8
2483.72	V	17.5		3.5	32.6	0.0	53.6	477.1	500.0	-0.4

Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions at the High Band Edge
Mode : Transmit at 2462MHz, 802.11g 54 Mb/sec, power setting = 12
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
2485.40	H	23.2		3.5	32.6	0.0	59.3	920.1	5000.0	-14.7
2484.00	V	34.4		3.5	32.6	0.0	70.5	3339.4	5000.0	-3.5

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions at the High Band Edge
Mode : Transmit at 2462MHz, 802.11g 54 Mb/sec, power setting = 12
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
2485.40	H	7.4		3.5	32.6	0.0	43.5	149.2	500.0	-10.5
2484.00	V	17.4		3.5	32.6	0.0	53.5	471.7	500.0	-0.5

Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions at the High Band Edge
Mode : Transmit at 2462MHz, 802.11n 65 Mb/sec, power setting = 9
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
2483.50	H	25.6		3.5	32.6	0.0	61.7	1212.3	5000.0	-12.3
2483.72	V	33.0		3.5	32.6	0.0	69.1	2842.0	5000.0	-4.9

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions at the High Band Edge
Mode : Transmit at 2462MHz, 802.11n 65 Mb/sec, power setting = 9
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
2483.50	H	11.8		3.5	32.6	0.0	47.9	247.5	500.0	-6.1
2483.72	V	16.3		3.5	32.6	0.0	52.4	415.6	500.0	-1.6

Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions at the High Band Edge
Mode : Transmit at 2452MHz, 802.11n MCS7, 40MHz bandwidth, power setting = 5
Test Distance : 3 meters
Notes : Peak Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
2483.52	H	21.8		3.5	32.6	0.0	57.9	782.7	5000.0	-16.1
2487.50	V	28.3		3.5	32.6	0.0	64.4	1656.3	5000.0	-9.6

Peak Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Peak Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Radiated Spurious Emissions at the High Band Edge
Mode : Transmit at 2452MHz, 802.11n MCS7, 40MHz bandwidth, power setting = 5
Test Distance : 3 meters
Notes : Average Readings with a 1MHz RBW

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
2483.52	H	6.4		3.5	32.6	0.0	42.5	132.9	500.0	-11.5
2487.50	V	12.4		3.5	32.6	0.0	48.5	265.5	500.0	-5.5

Average Total (dBuV/m) = Meter Reading (dBuV) + CBL Fac (dB) + Ant Fac (dB) + Pre Amp (dB)

Average Total (uV/m) = 10^(Peak Total (dBuV/m)/20)

FCC 15.407 DATA

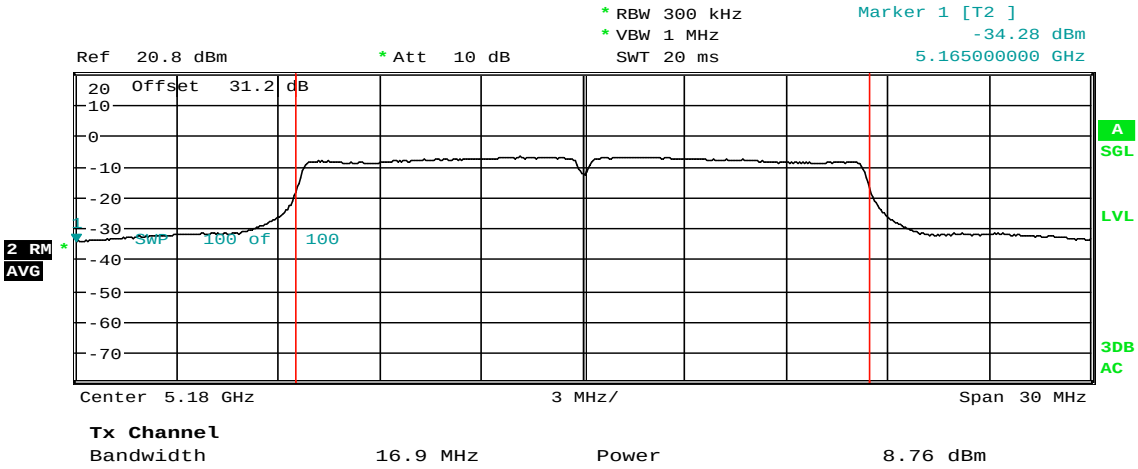
Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : Maximum Conducted Average Output Power
Mode : See Below
Notes : Antenna Port Conducted Emissions Test

Frequency MHz	Channel No.	802.11 protocol	U-NII Band	Data Rate Mb/sec	Bandwidth MHz	Power Setting	Maximum Conducted Average Output Power Reading dBm	Maximum Conducted Average Output Power Limit dBm
5180	36	a	1	54	20	12	8.76	30.0
5180	36	n	1	65	20	12	9.23	30.0
5200	40	a	1	54	20	12	9.08	30.0
5200	40	n	1	65	20	12	9.62	30.0
5240	48	a	1	54	20	12	9.5	30.0
5240	48	n	1	65	20	12	9.32	30.0
5745	149	a	3	54	20	12	10.01	30.0
5745	149	n	3	65	20	12	10.5	30.0
5785	157	a	3	54	20	12	10.44	30.0
5785	157	n	3	65	20	12	8.79	30.0
5825	165	a	3	54	20	12	10.35	30.0
5825	165	n	3	65	20	12	10.57	30.0

Manufacturer : Trilithic
Model No. : 802AWE
Serial No. :
Date Tested : January 18, 2016 through April 1, 2016
Test Performed : EIRP
Mode : See Below
Notes :

Frequency MHz	Channel No.	802.11 protocol	U-NII Band	Data Rate Mb/sec	Bandwidth MHz	Power Setting	Average Power Reading dBm	Antenna Gain dB	Average EIRP dBm	Average EIRP Limit dBm
5180	36	a	1	54	20	12	8.76	2.0	10.76	36
5180	36	n	1	65	20	12	9.23	2.0	11.23	36
5200	40	a	1	54	20	12	9.08	2.0	11.08	36
5200	40	n	1	65	20	12	9.62	2.0	9.61	36
5240	48	a	1	54	20	12	9.5	2.0	11.5	36
5240	48	n	1	65	20	12	9.32	2.0	11.32	36
5745	149	a	3	54	20	12	10.01	2.0	12.01	36
5745	149	n	3	65	20	12	10.5	2.0	12.5	36
5785	157	a	3	54	20	12	10.44	2.0	12.44	36
5785	157	n	3	65	20	12	8.79	2.0	10.79	36
5825	165	a	3	54	20	12	10.35	2.0	12.35	36
5825	165	n	3	65	20	12	10.57	2.0	12.57	36

Average EIRP (dBm) = Average Power Reading (dBm) + Antenna Gain (dB)

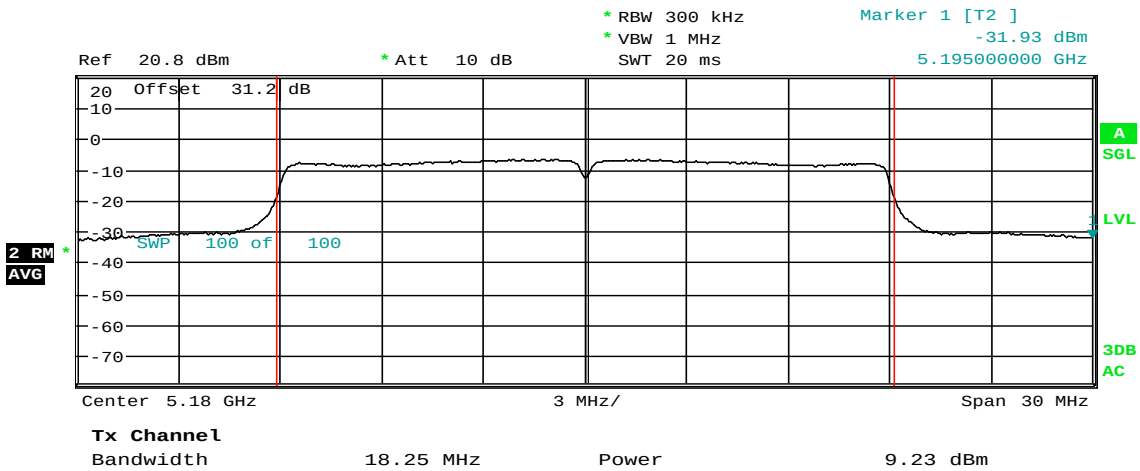


Date: 19.APR.2003 22:46:19

FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 5180MHz (Ch. 36), 802.11a, 54 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 8.76dBm
EQUIPMENT USED	:	RBE1, T2DG, T1EJ

NOTES

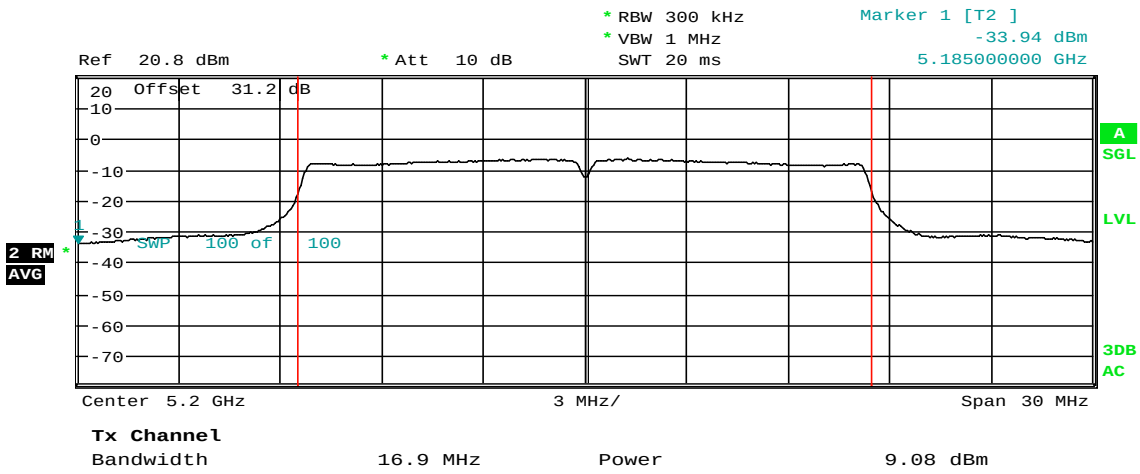


Date: 19.APR.2003 22:55:00

FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 518MHz (Ch. 38), 802.11n, 65 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 9.23dBm
EQUIPMENT USED	:	RBE1, T2DG, T1EJ

NOTES

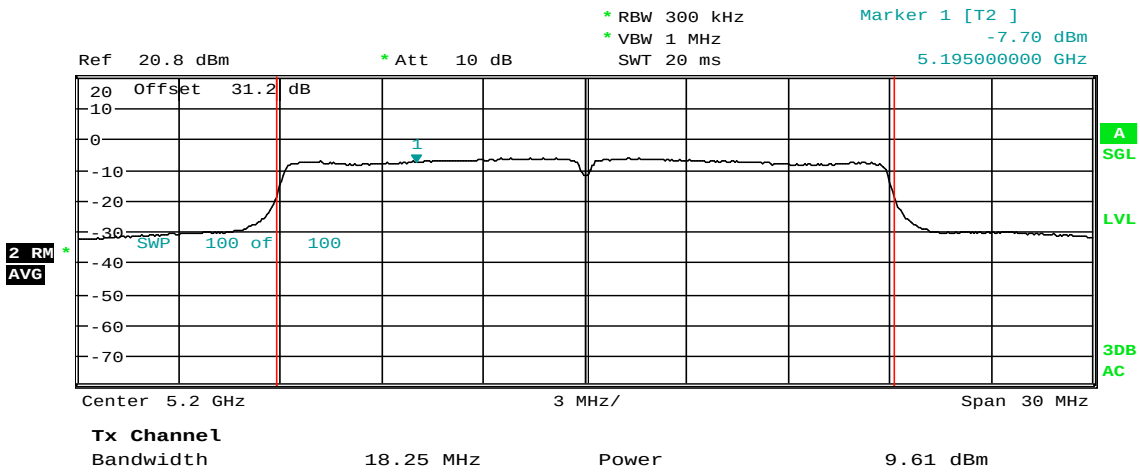


Date: 19.APR.2003 22:48:55

FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 5200MHz (Ch. 40), 802.11a, 54 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 9.08dBm
EQUIPMENT USED	:	RBE1, T2DG, T1EJ

NOTES

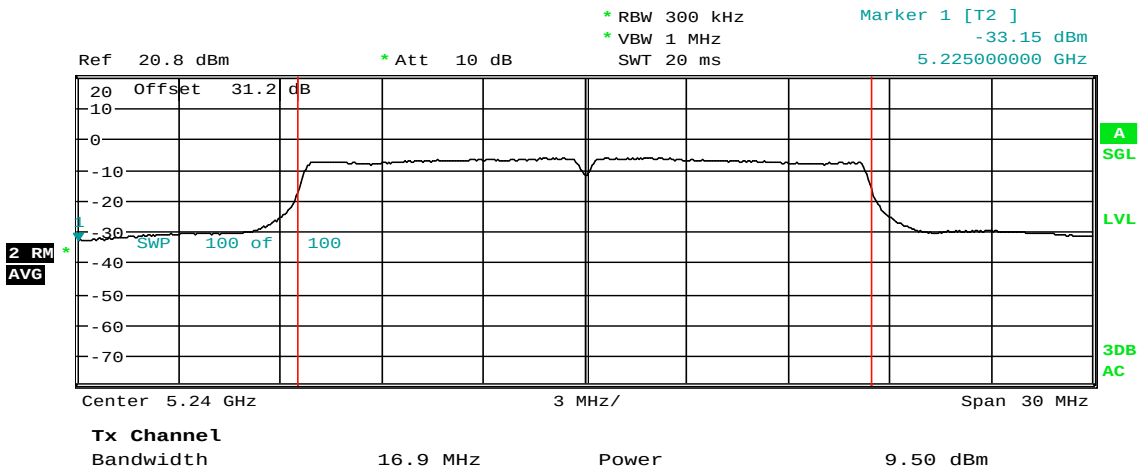


Date: 19.APR.2003 23:04:44

FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 5280MHz (Ch. 40), 802.11n, 65 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 9.61dBm
EQUIPMENT USED	:	RBE1, T2DG, T1EJ

NOTES

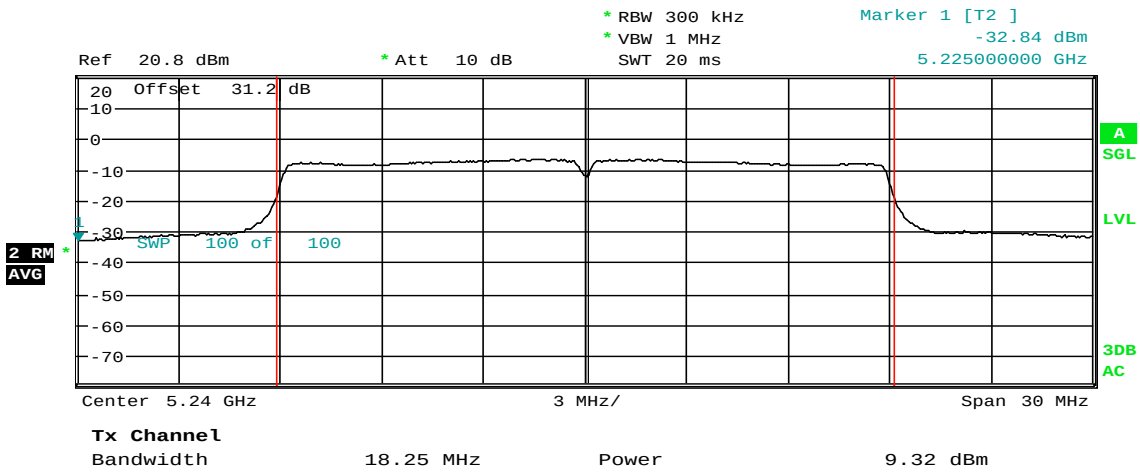


Date: 19.APR.2003 22:51:02

FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 5240MHz (Ch. 48), 802.11a, 54 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 9.50dBm
EQUIPMENT USED	:	RBE1, T2DG, T1EJ

NOTES

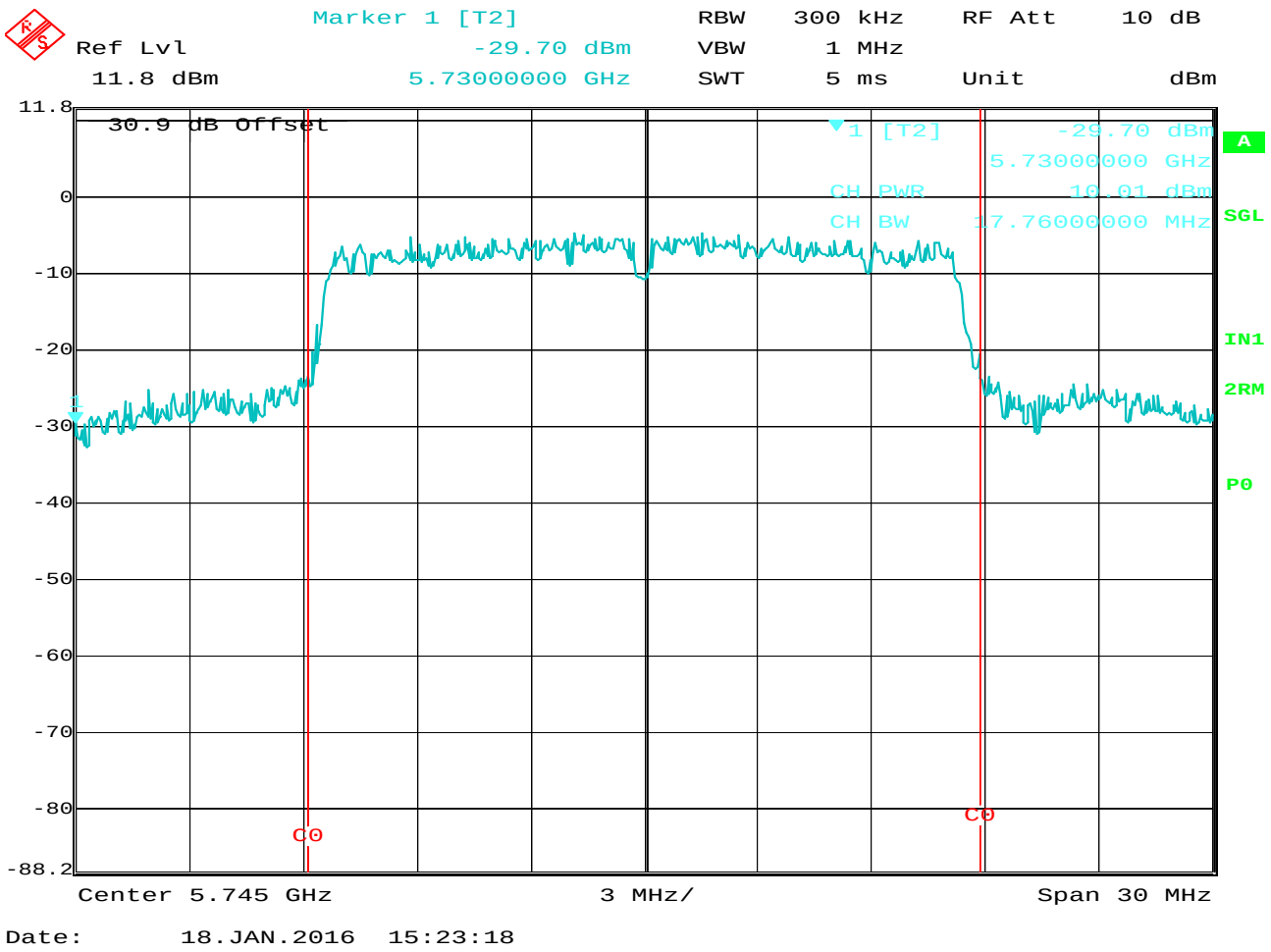


Date: 19.APR.2003 23:07:12

FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 5240MHz (Ch. 48), 802.11n, 65 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 9.32dBm
EQUIPMENT USED	:	RBE1, T2DG, T1EJ

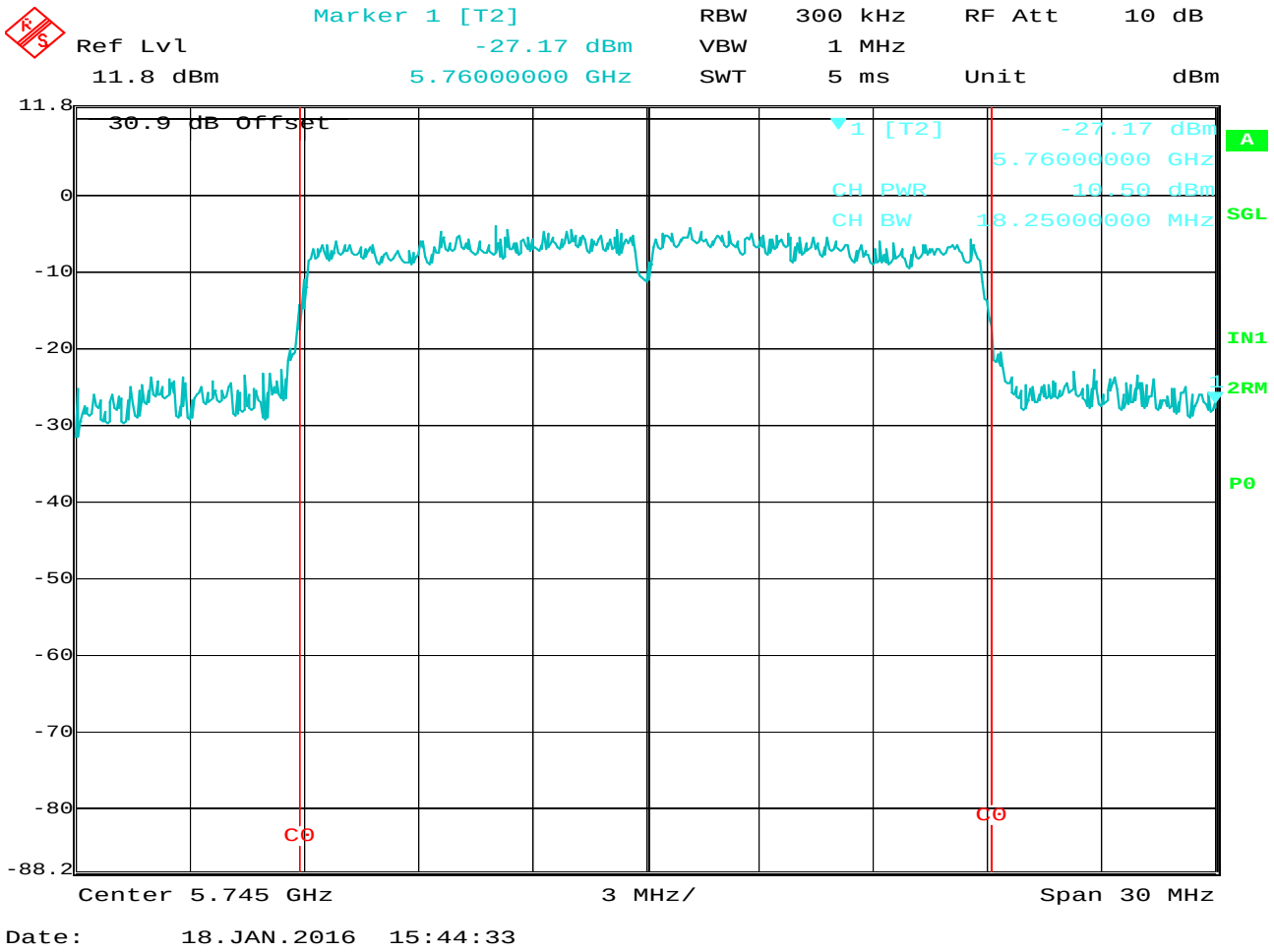
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 5745MHz (Ch. 149), 802.11a, 54 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 10.01dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

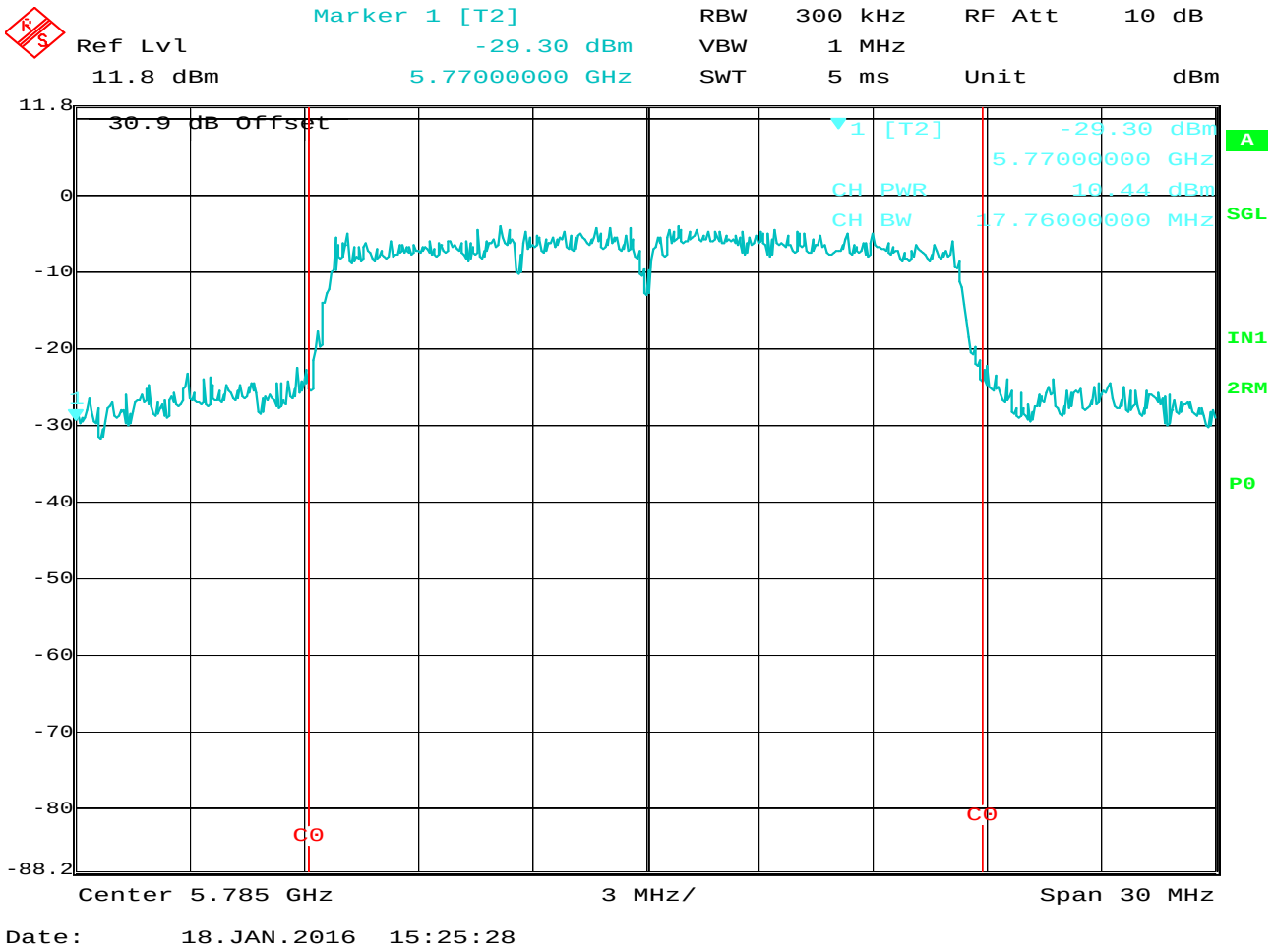
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 5745MHz (Ch. 149), 802.11n, 65 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 10.50dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

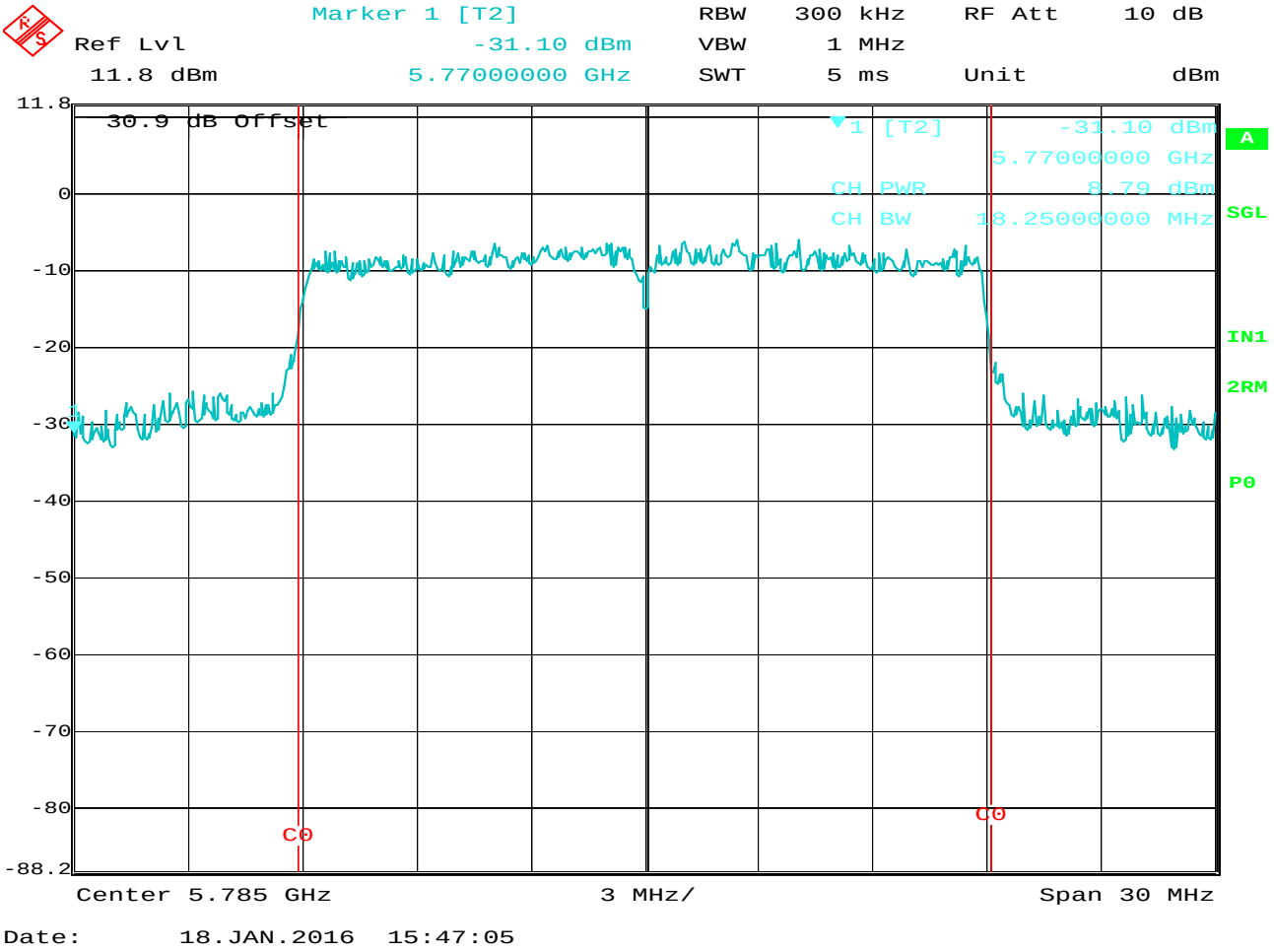
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 5785MHz (Ch. 157), 802.11a, 54 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 10.44dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

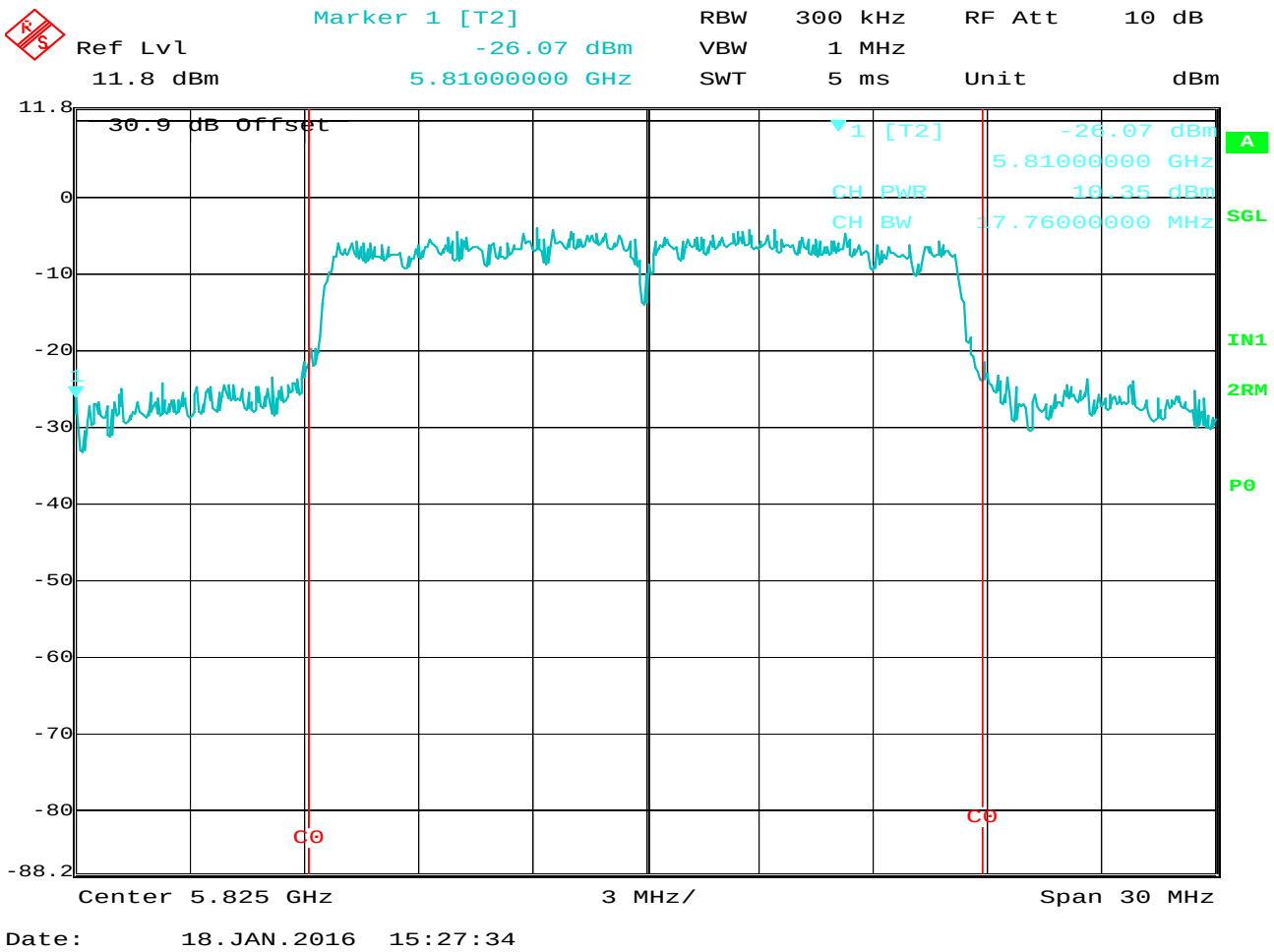
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 5785MHz (Ch. 157), 802.11n, 65 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 8.79dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

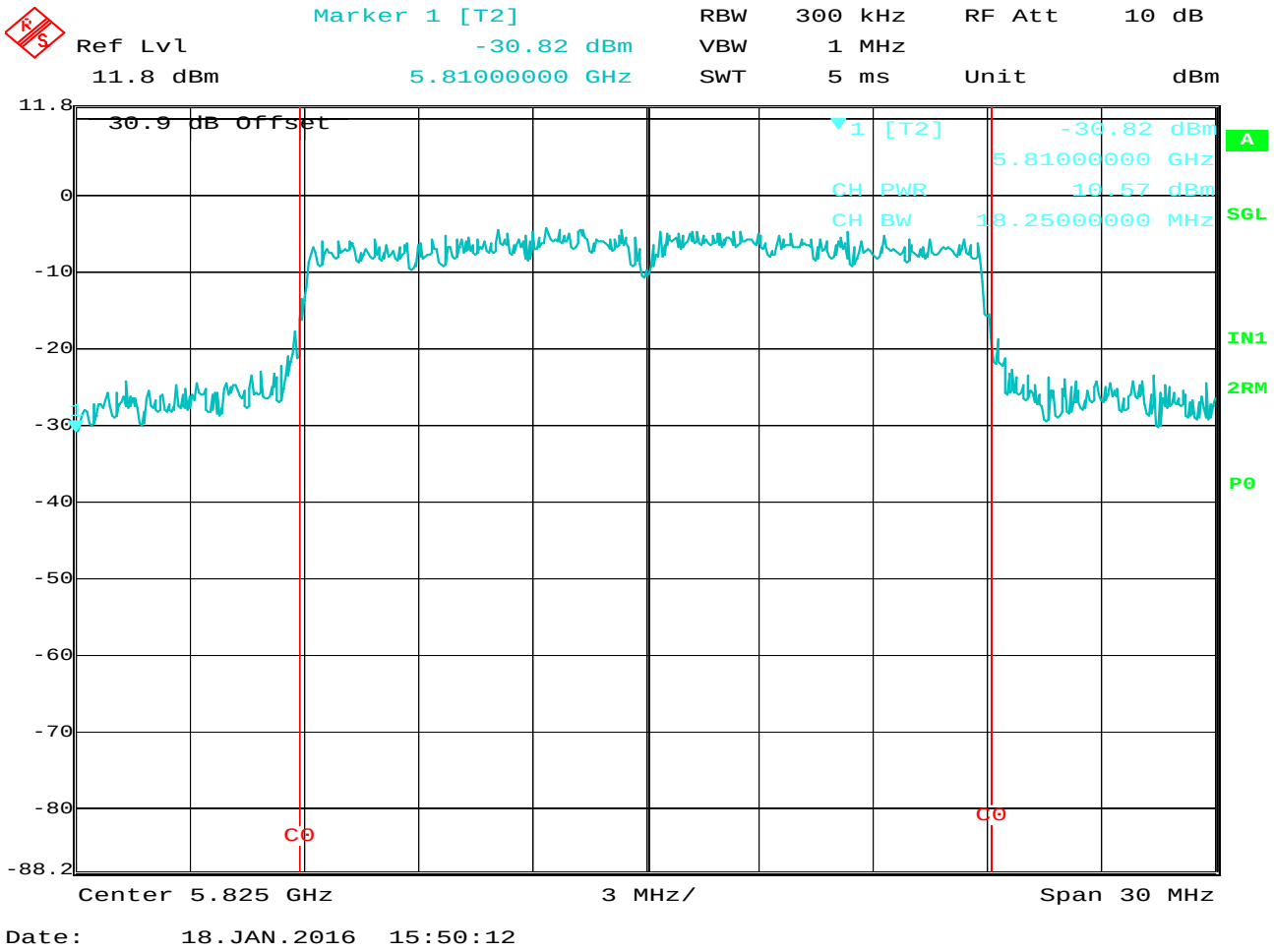
NOTES



FCC 15.247 Conducted Average Output Power

MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 5825MHz (Ch. 165), 802.11a, 54 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 10.35dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

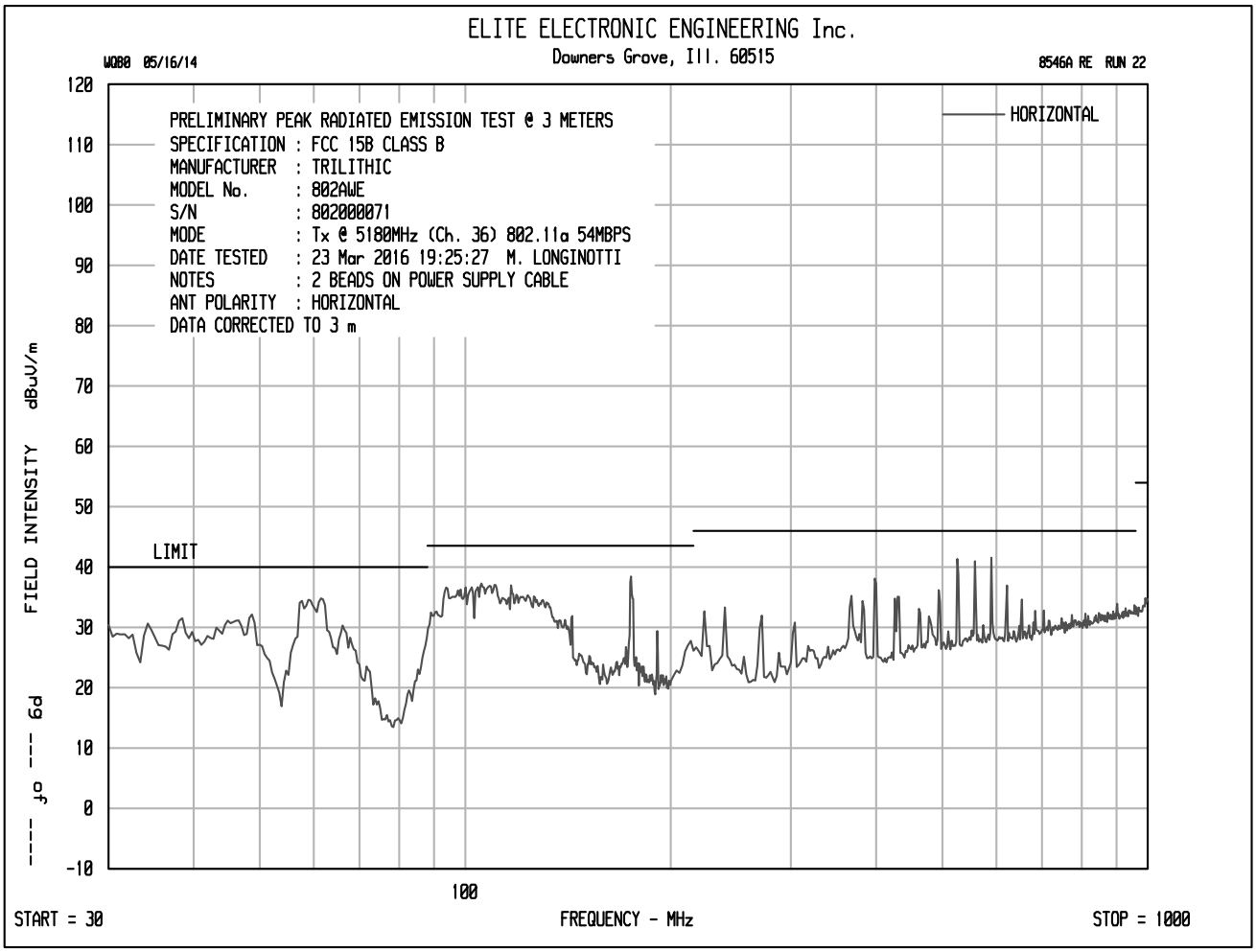
NOTES

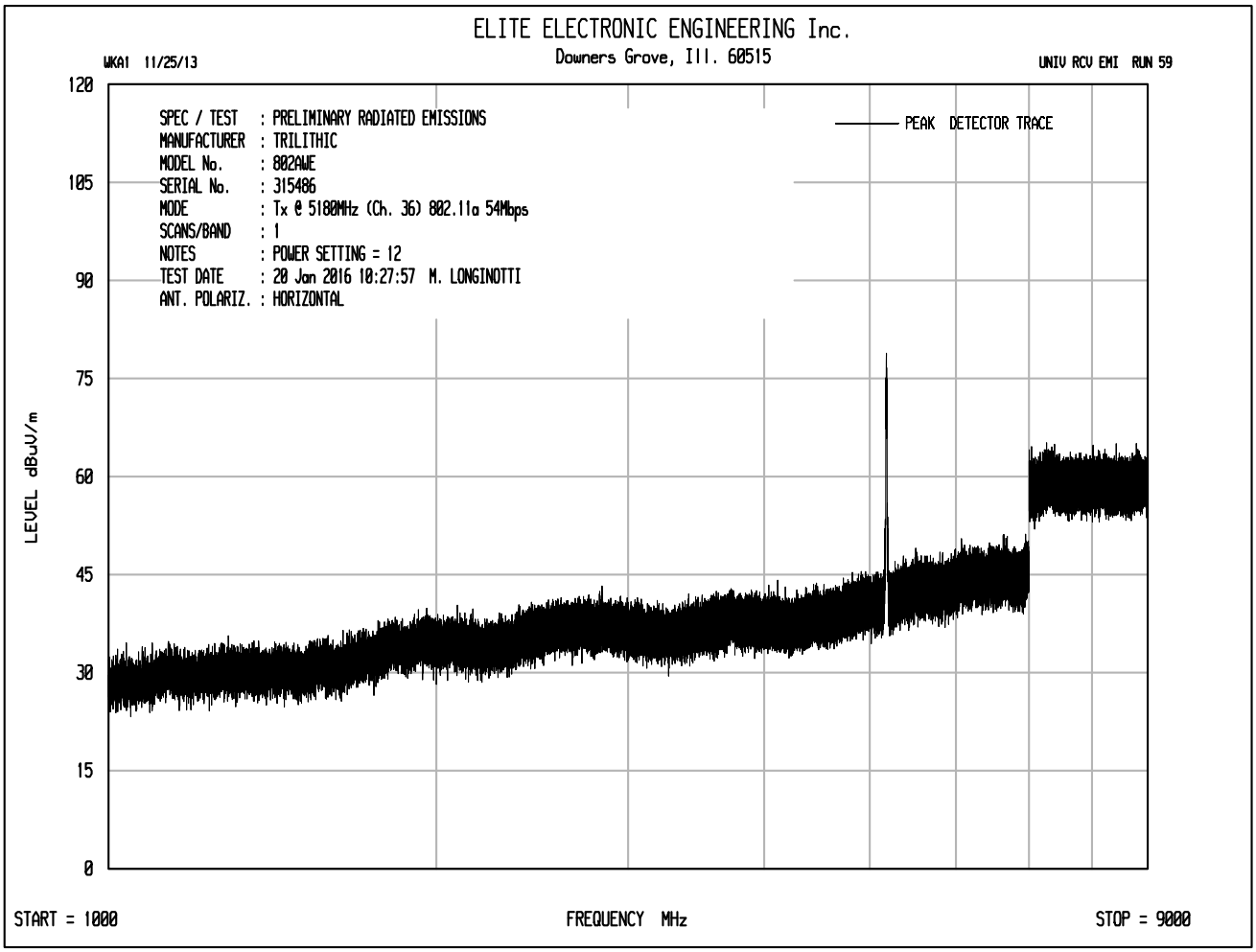


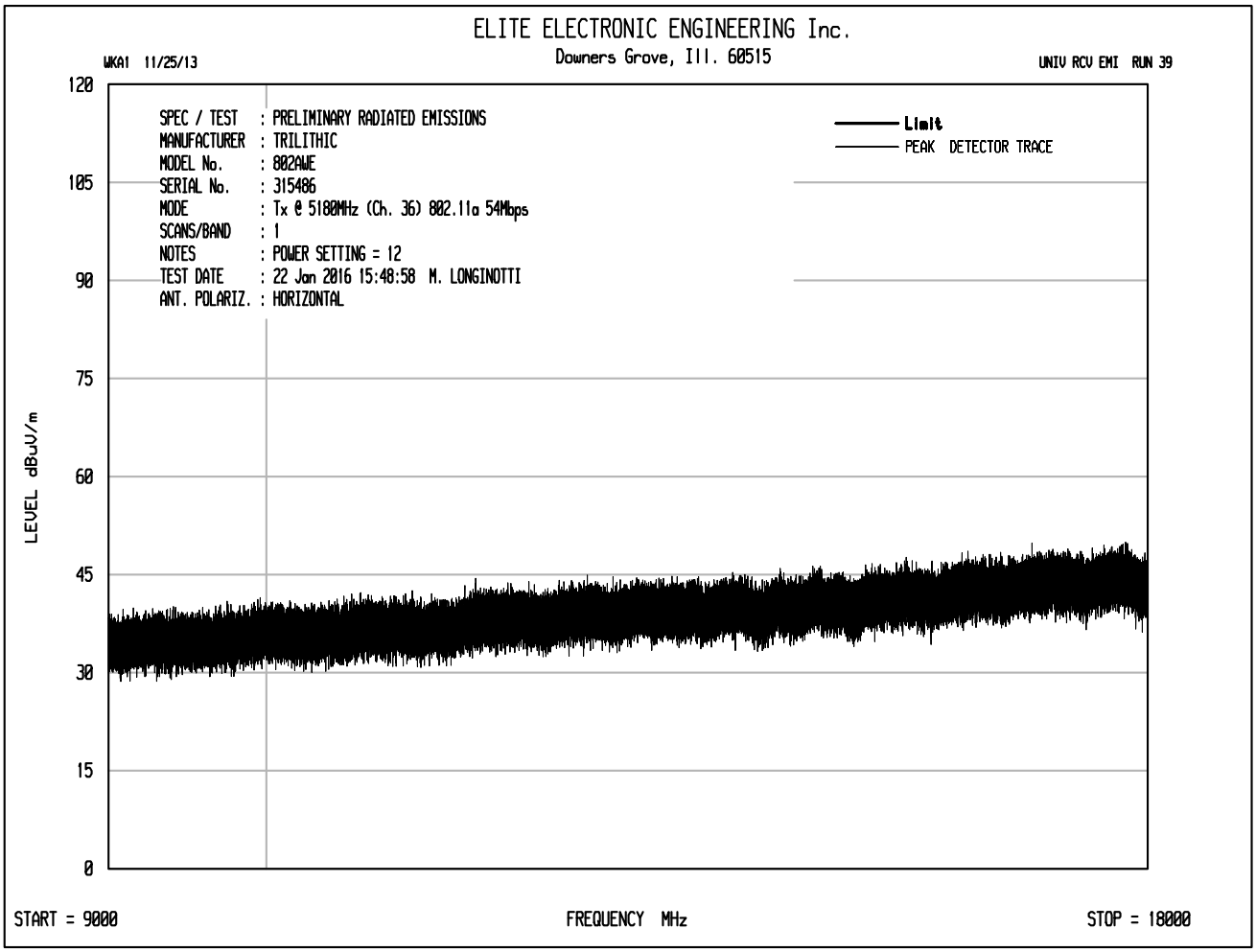
FCC 15.247 Conducted Average Output Power

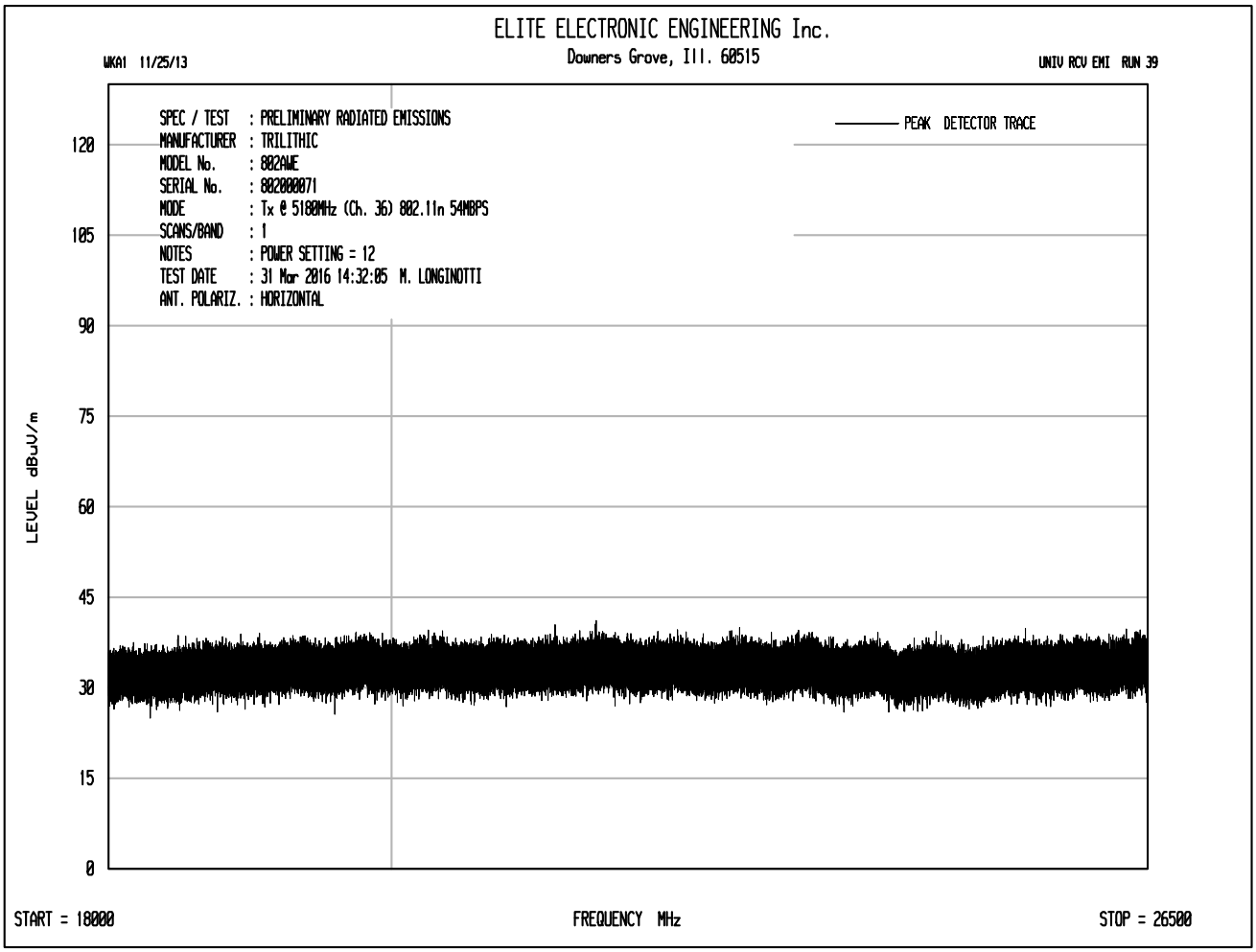
MANUFACTURER	:	Trilithic
MODEL NUMBER	:	802AWE
SERIAL NUMBER	:	315486
TEST MODE	:	WiFi Transmit at 5825MHz (Ch. 165), 802.11n, 65 Mbps
TEST PARAMETERS	:	Average Output Power
NOTES	:	Power Level Setting = 12
	:	Average Output Power = 10.57dBm
EQUIPMENT USED	:	RBB0, T2DG, T1EJ

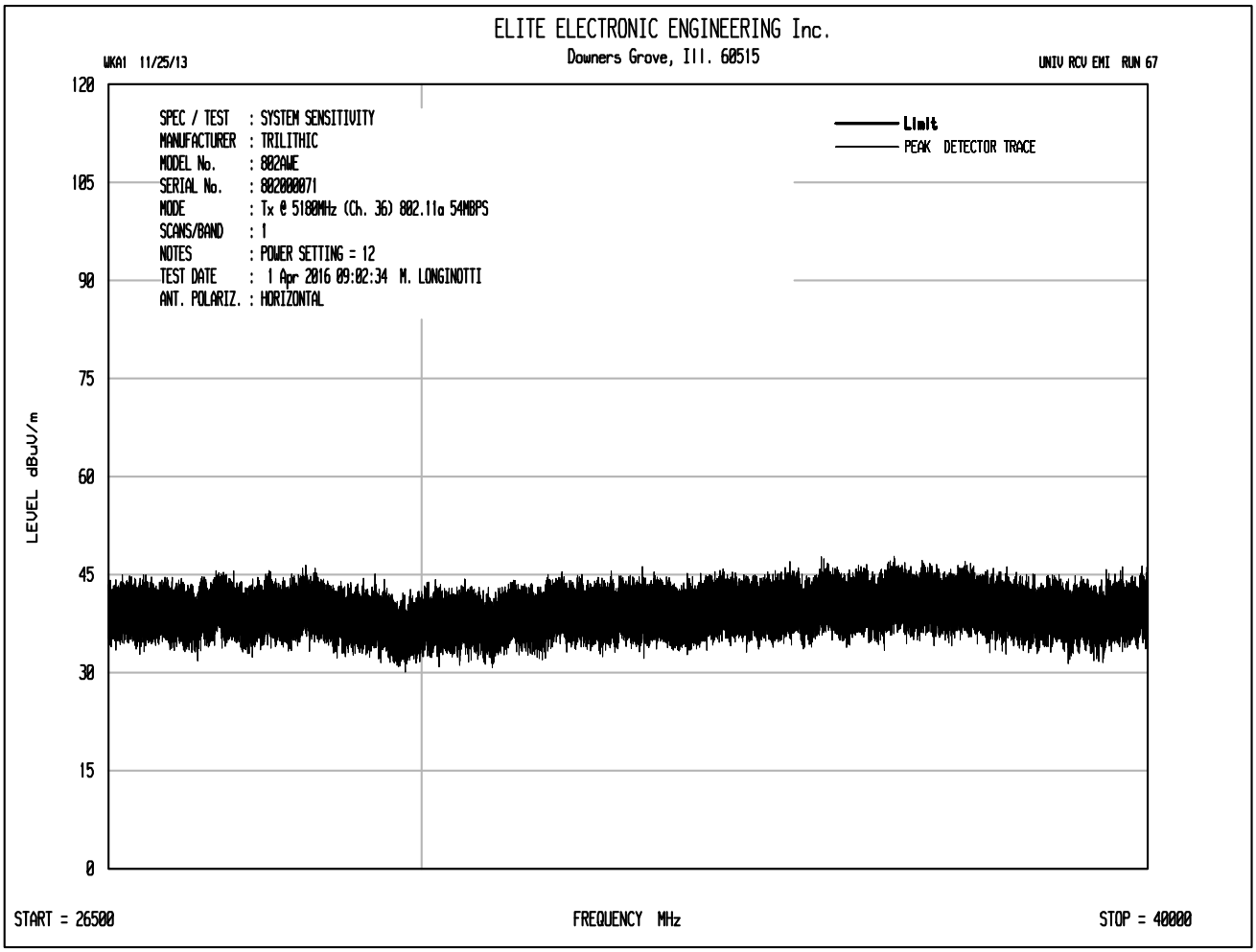
NOTES

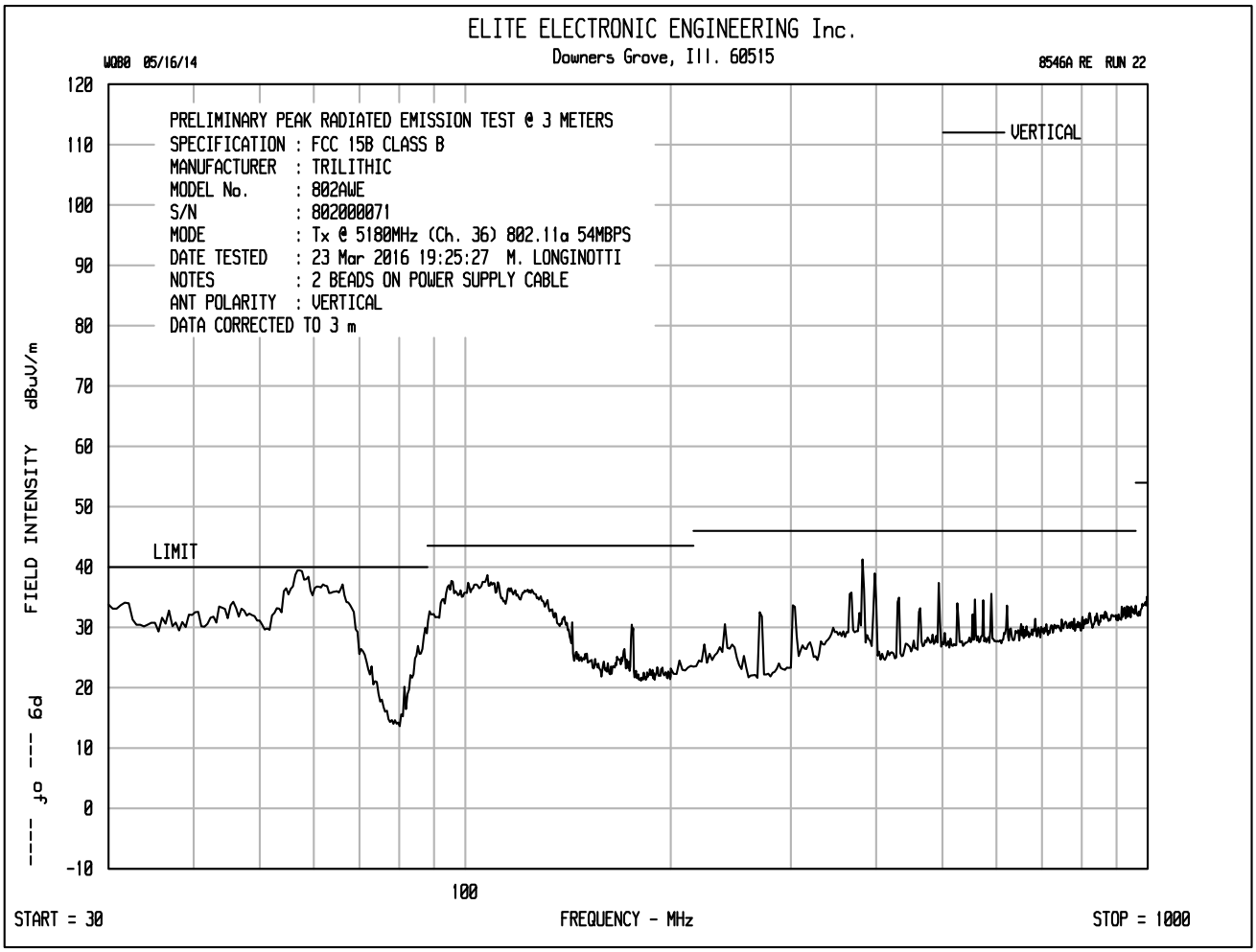

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
W080 05/16/14
8546A RE RUN 22
PRELIMINARY PEAK RADIATED EMISSION TEST @ 3 METERS
SPECIFICATION : FCC 15B CLASS B
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
S/N : 802000071
MODE : Tx @ 5180MHz (Ch. 36) 802.11a 54MBPS
DATE TESTED : 23 Mar 2016 19:25:27 M. LONGINOTTI
NOTES : 2 BEADS ON POWER SUPPLY CABLE
ANT POLARITY : HORIZONTAL
DATA CORRECTED TO 3 m
HORIZONTAL
LIMIT
FIELD INTENSITY dBuV/m
---- µo --- 6d
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
100
START = 30
FREQUENCY - MHz
STOP = 1000

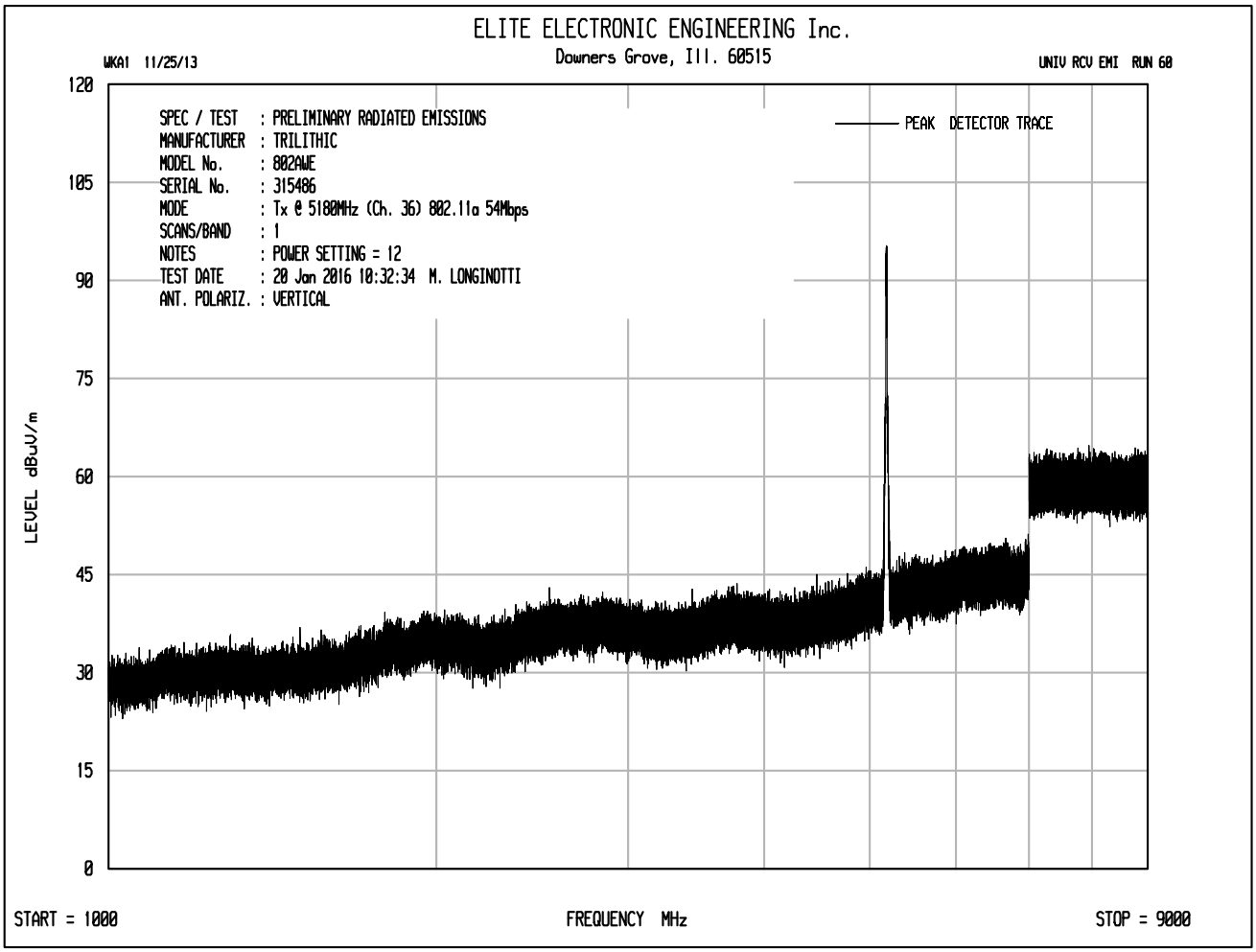

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 59
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 5180MHz (Ch. 36) 802.11a 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 20 Jan 2016 10:27:57 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 9000

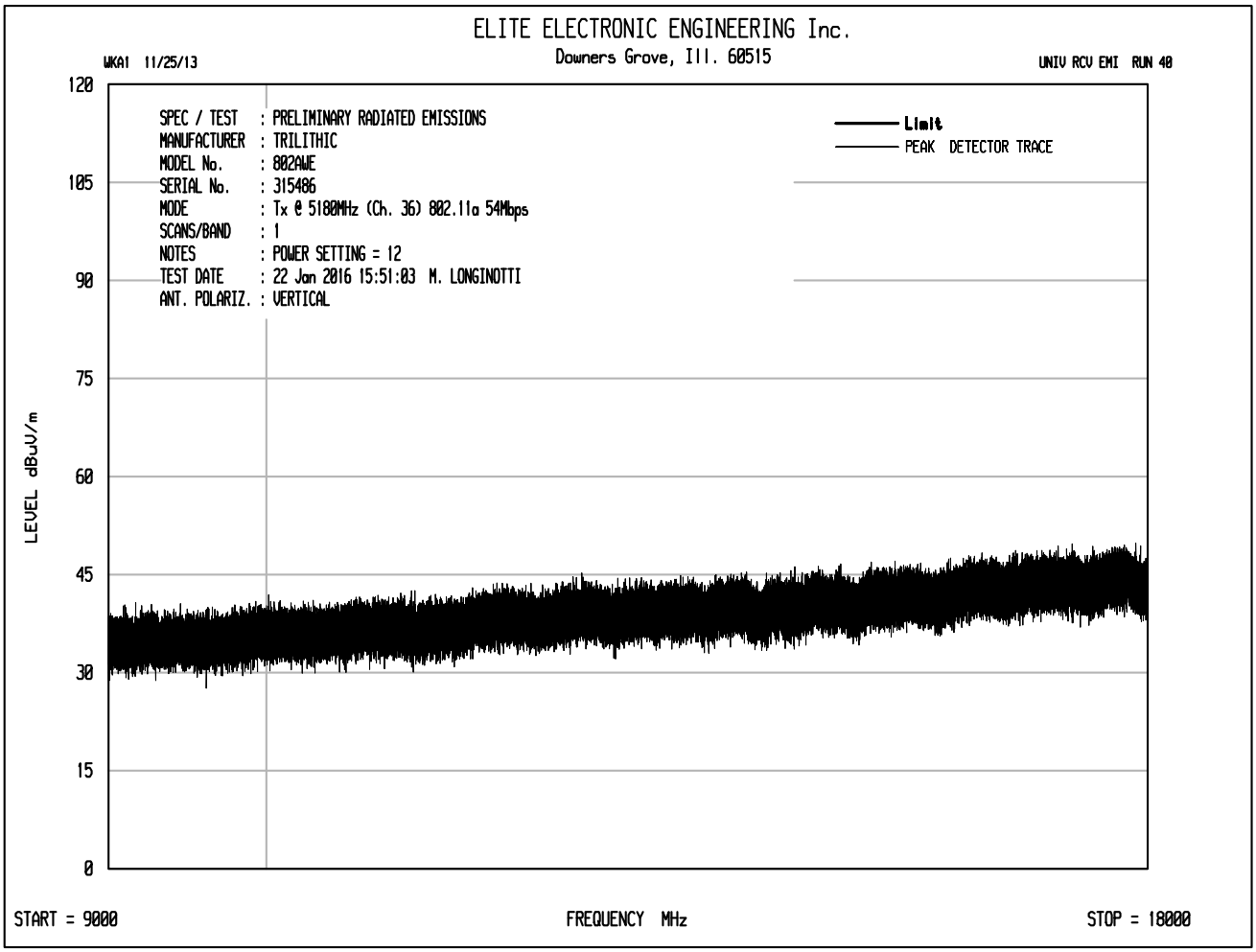

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 39
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 5180MHz (Ch. 36) 802.11a 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 22 Jan 2016 15:48:58 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 9000
FREQUENCY MHz
STOP = 18000

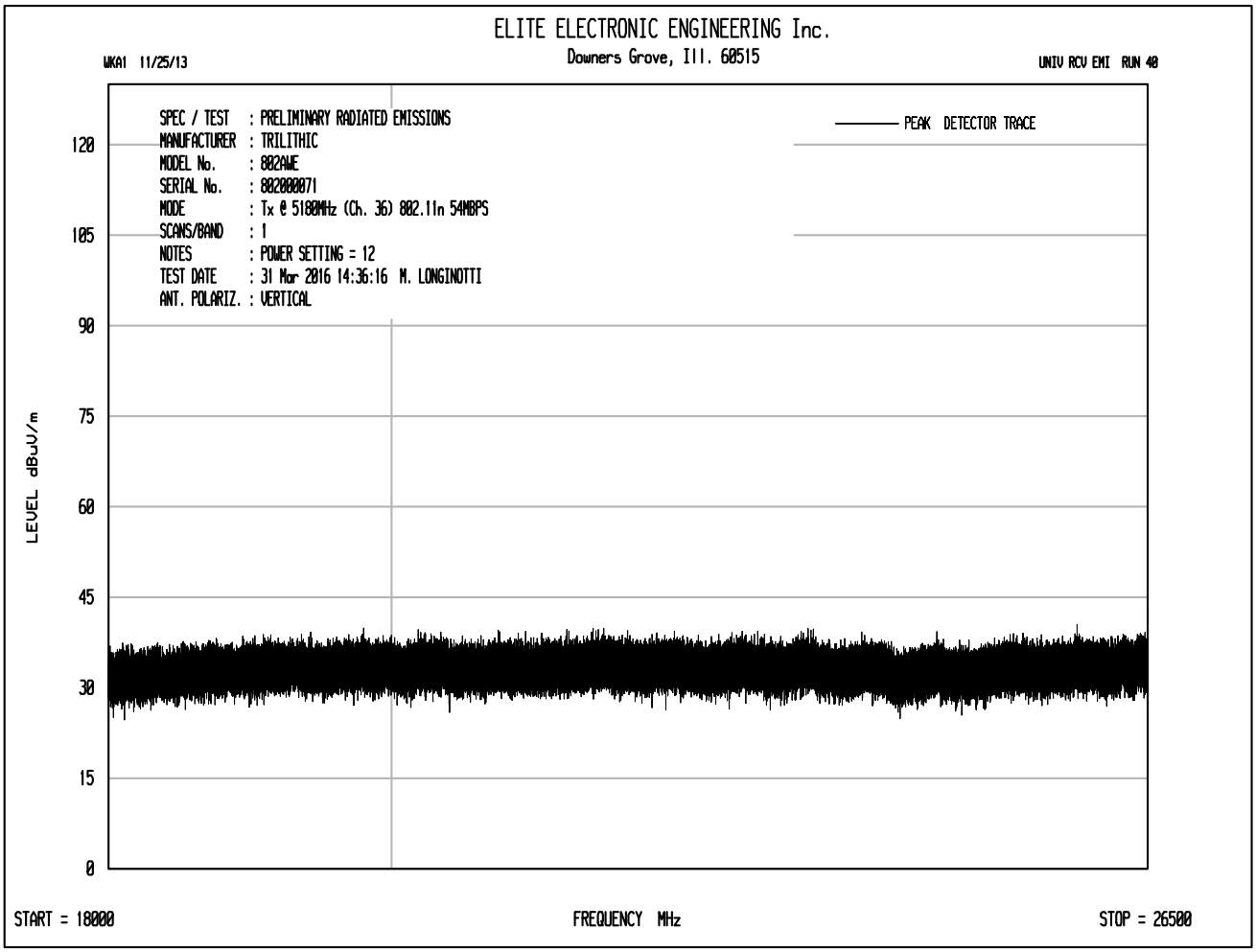

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 39
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 5180MHz (Ch. 36) 802.11n 54MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 31 Mar 2016 14:32:05 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

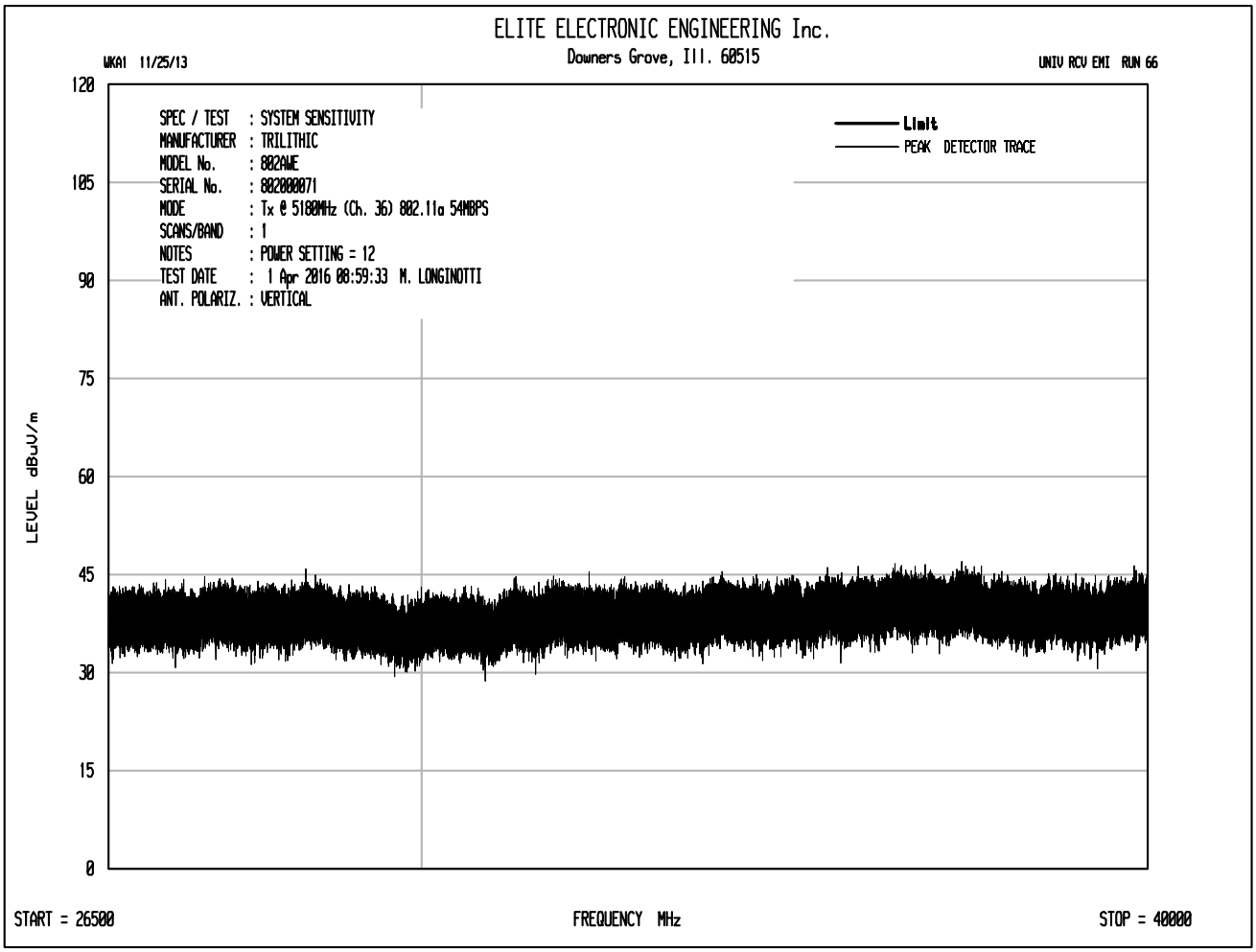

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 67
SPEC / TEST : SYSTEM SENSITIVITY
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 5180MHz (Ch. 36) 802.11a 54MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 1 Apr 2016 09:02:34 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500
FREQUENCY MHz
STOP = 40000

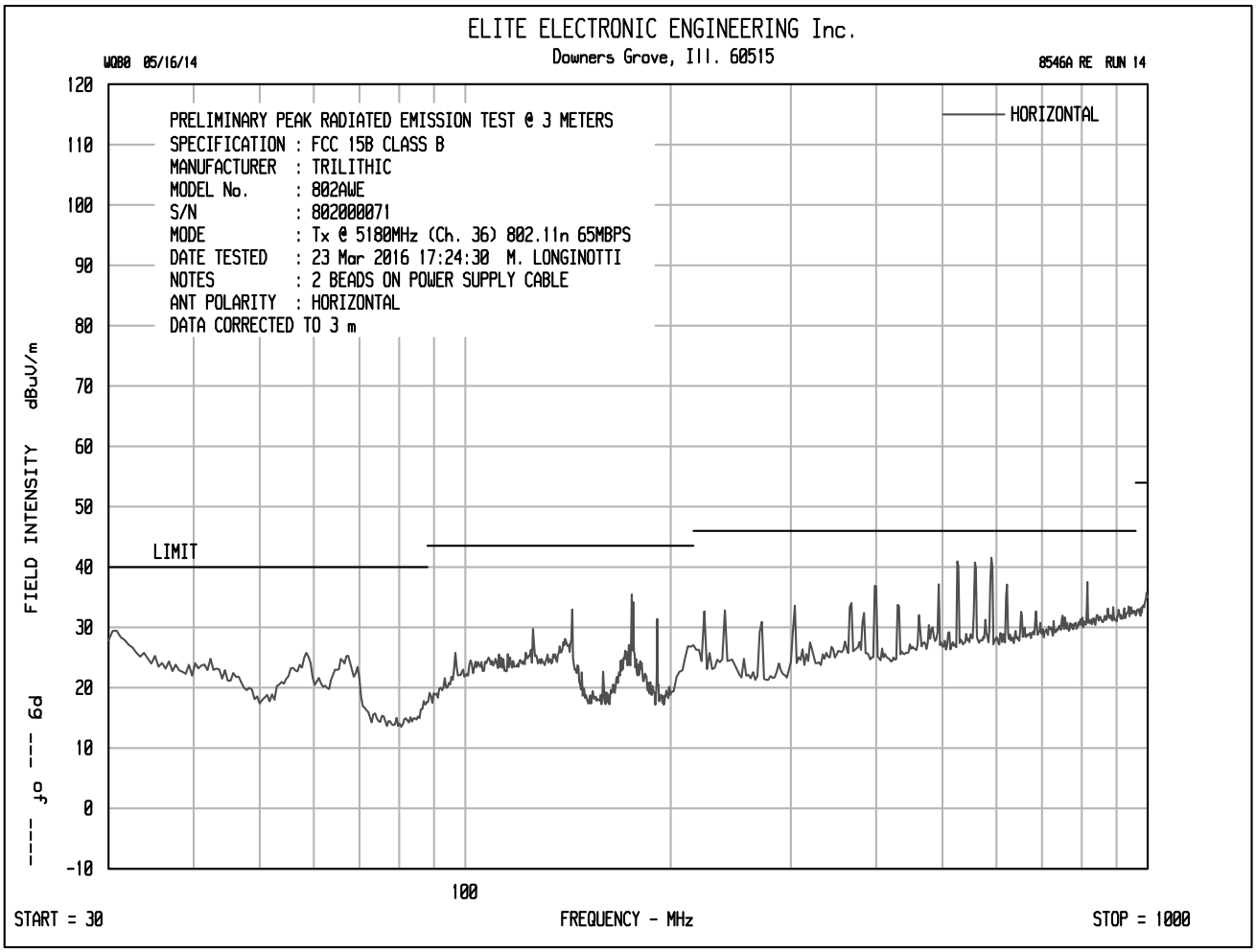

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WOBO 05/16/14
8546A RE RUN 22
PRELIMINARY PEAK RADIATED EMISSION TEST @ 3 METERS
SPECIFICATION : FCC 15B CLASS B
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
S/N : 802000071
MODE : Tx @ 5180MHz (Ch. 36) 802.11a 54MBPS
DATE TESTED : 23 Mar 2016 19:25:27 M. LONGINOTTI
NOTES : 2 BEADS ON POWER SUPPLY CABLE
ANT POLARITY : VERTICAL
DATA CORRECTED TO 3 m
VERTICAL
LIMIT
FIELD INTENSITY dBuV/m
---- µo --- 6d
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
100
START = 30
FREQUENCY - MHz
STOP = 1000

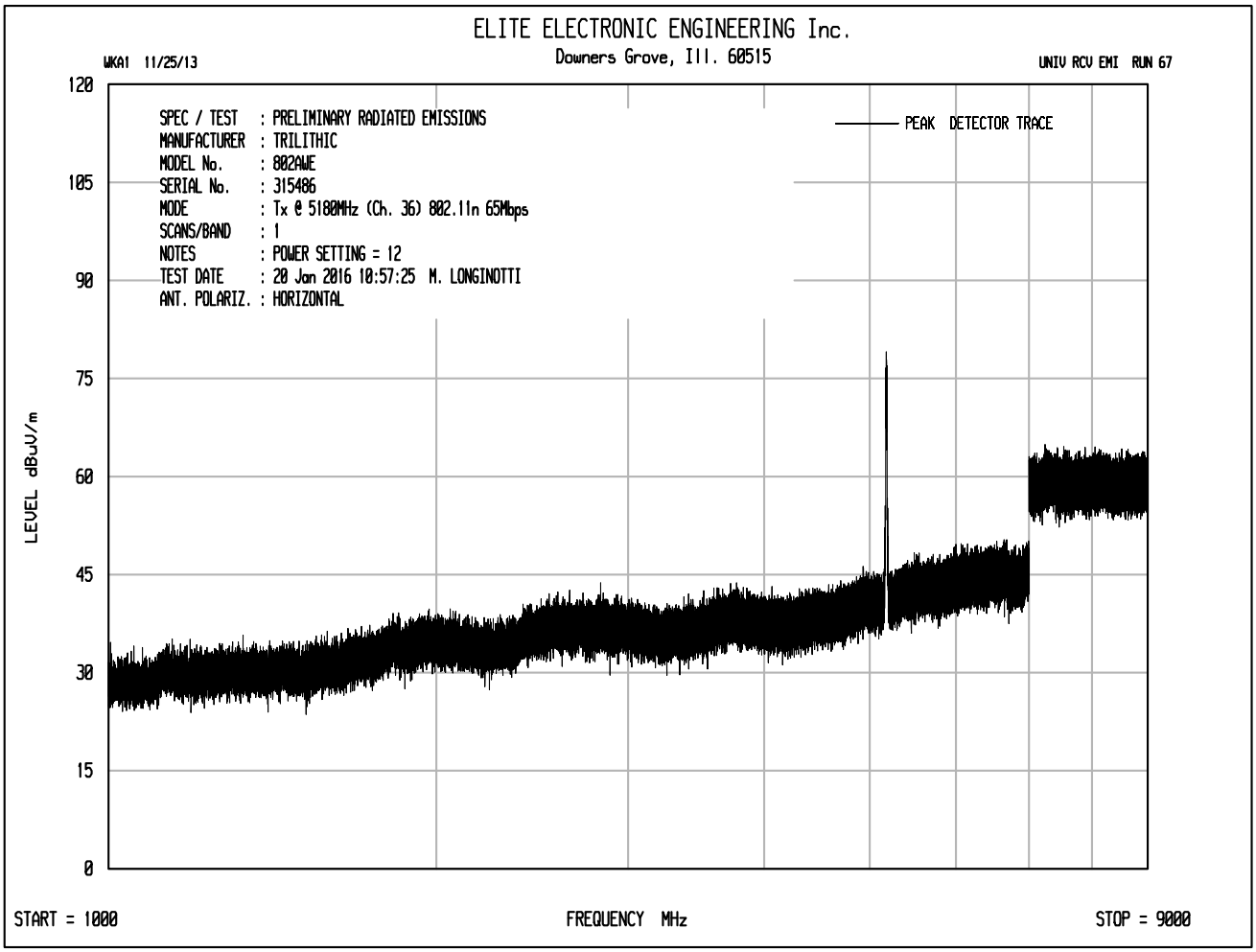

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 60
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 5180MHz (Ch. 36) 802.11a 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 20 Jan 2016 10:32:34 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 9000

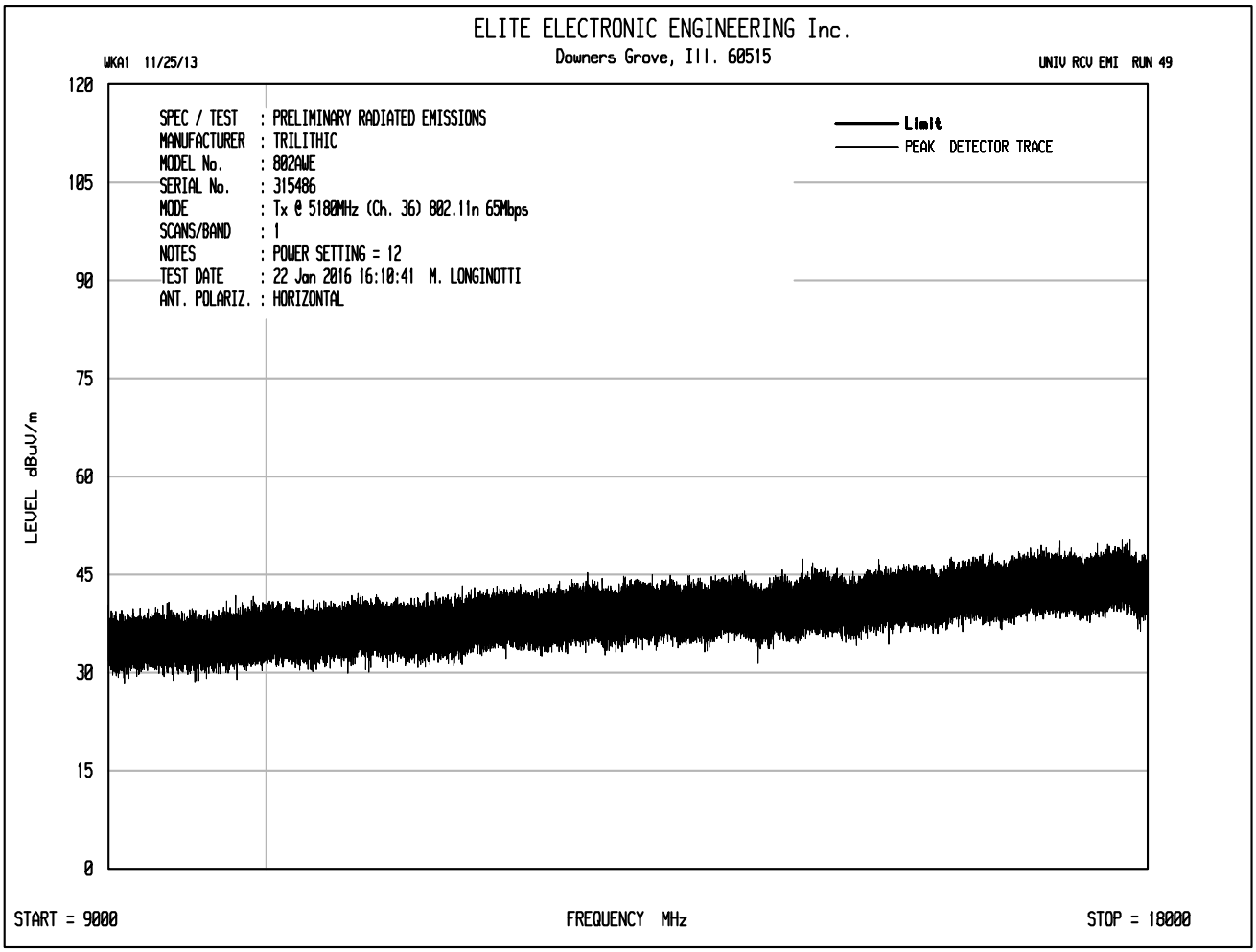

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 40
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 5180MHz (Ch. 36) 802.11a 54Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 22 Jan 2016 15:51:03 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 9000
FREQUENCY MHz
STOP = 18000

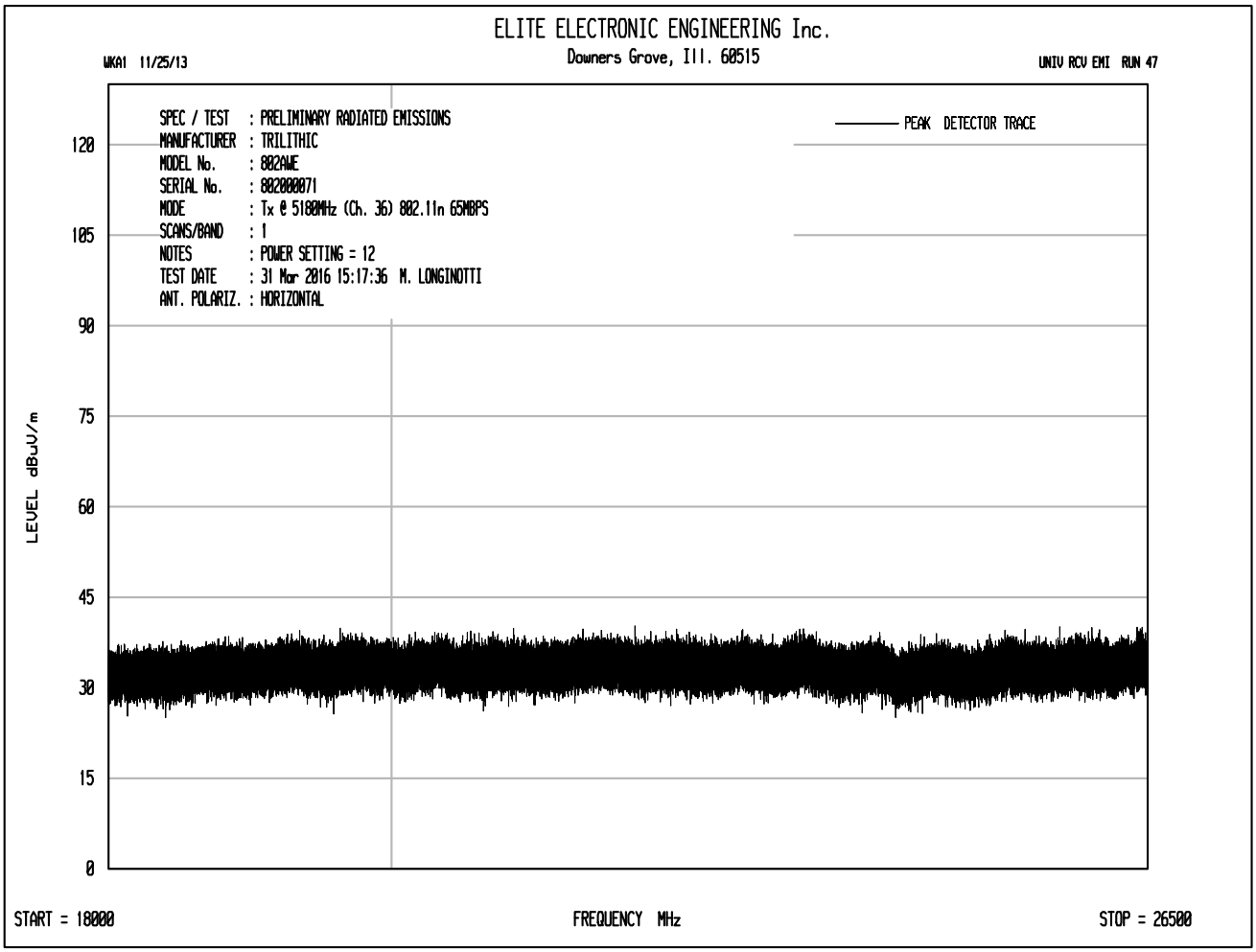

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 40
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 5180MHz (Ch. 36) 802.11n 54MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 31 Mar 2016 14:36:16 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500

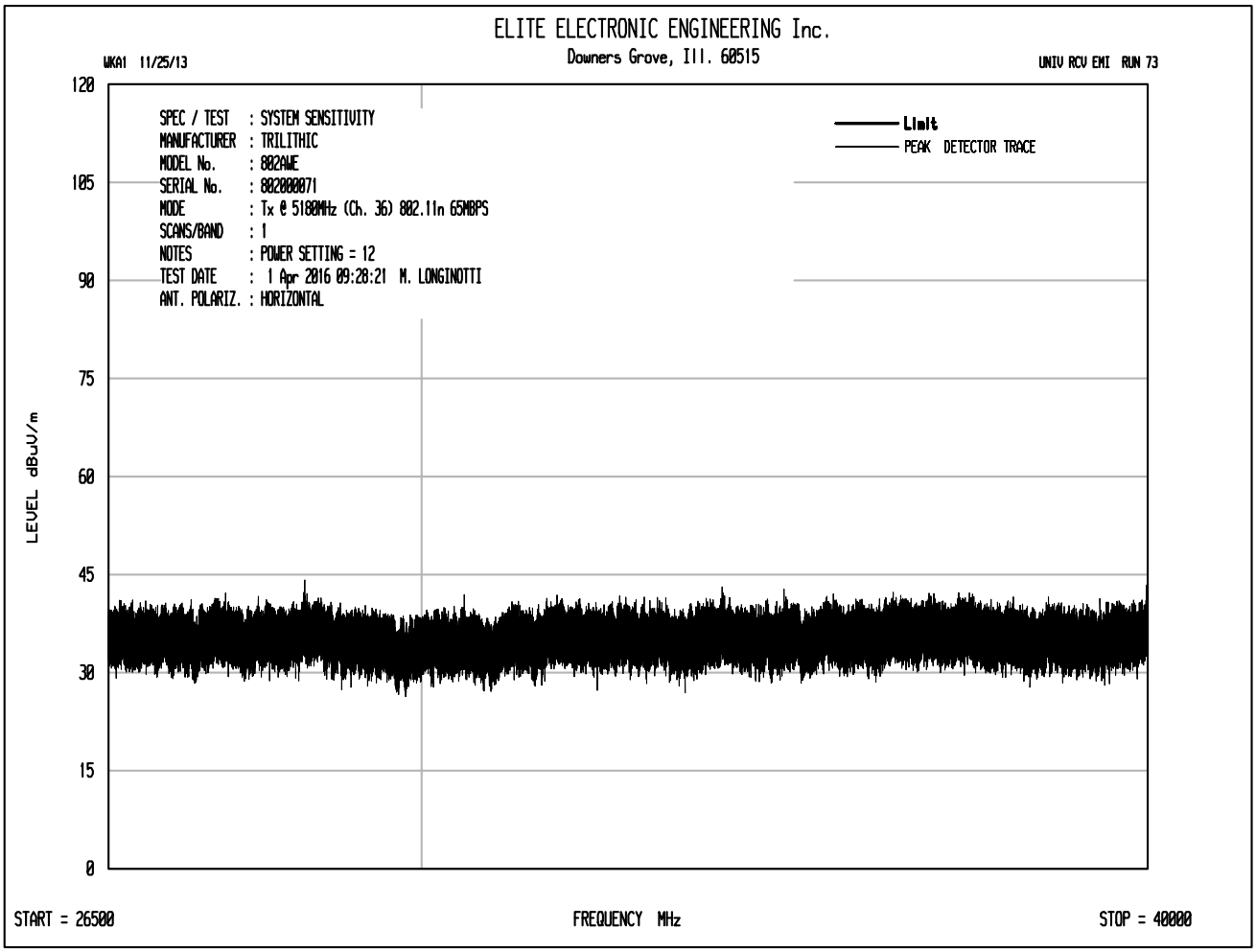

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 66
SPEC / TEST : SYSTEM SENSITIVITY
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 5180MHz (Ch. 36) 802.11a 54MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 1 Apr 2016 08:59:33 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500
FREQUENCY MHz
STOP = 40000

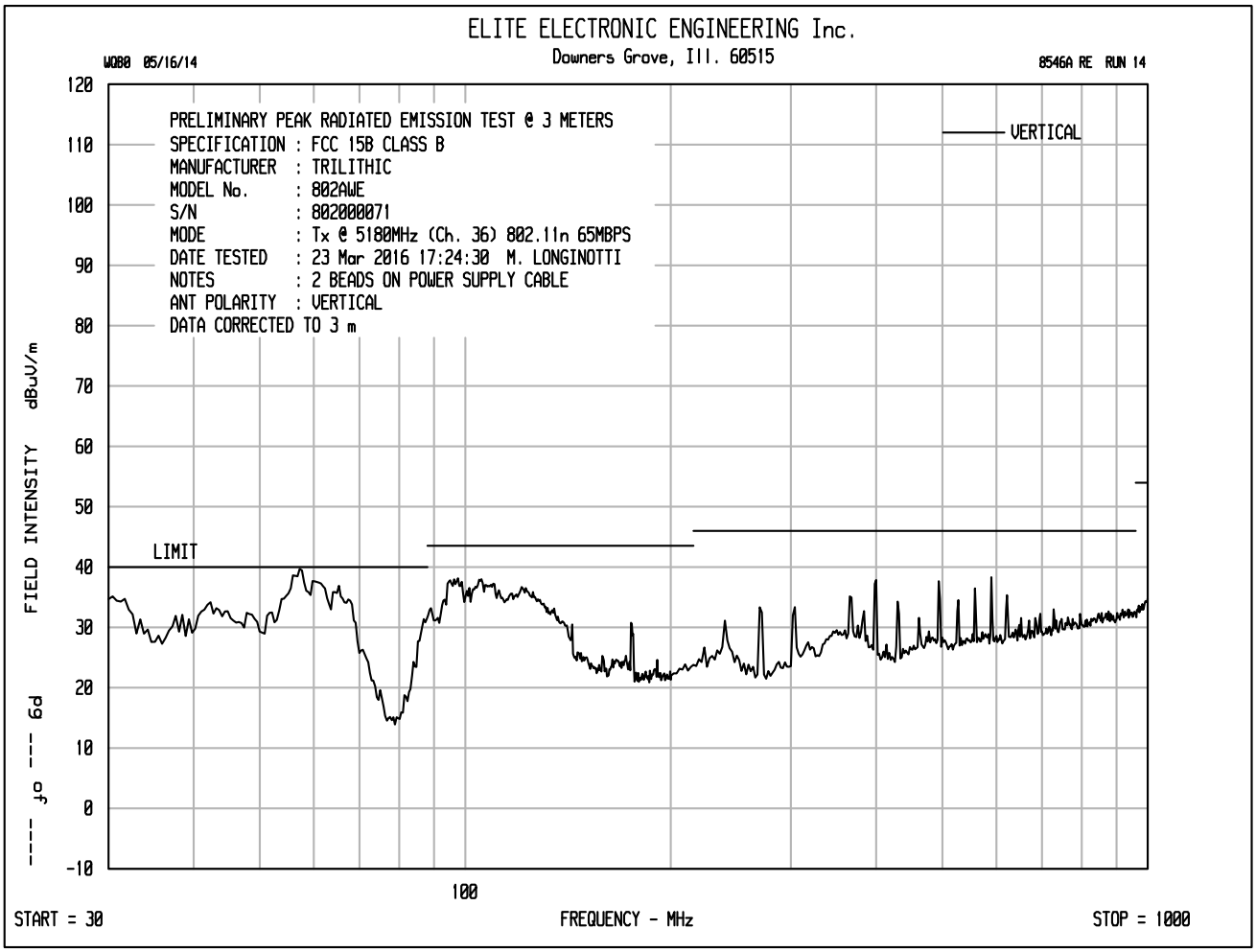

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
W080 05/16/14
8546A RE RUN 14
PRELIMINARY PEAK RADIATED EMISSION TEST @ 3 METERS
SPECIFICATION : FCC 15B CLASS B
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
S/N : 802000071
MODE : Tx @ 5180MHz (Ch. 36) 802.11n 65MBPS
DATE TESTED : 23 Mar 2016 17:24:30 M. LONGINOTTI
NOTES : 2 BEADS ON POWER SUPPLY CABLE
ANT POLARITY : HORIZONTAL
DATA CORRECTED TO 3 m
HORIZONTAL
LIMIT
FIELD INTENSITY dBuV/m
---- µo --- 6d
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
100
START = 30
FREQUENCY - MHz
STOP = 1000

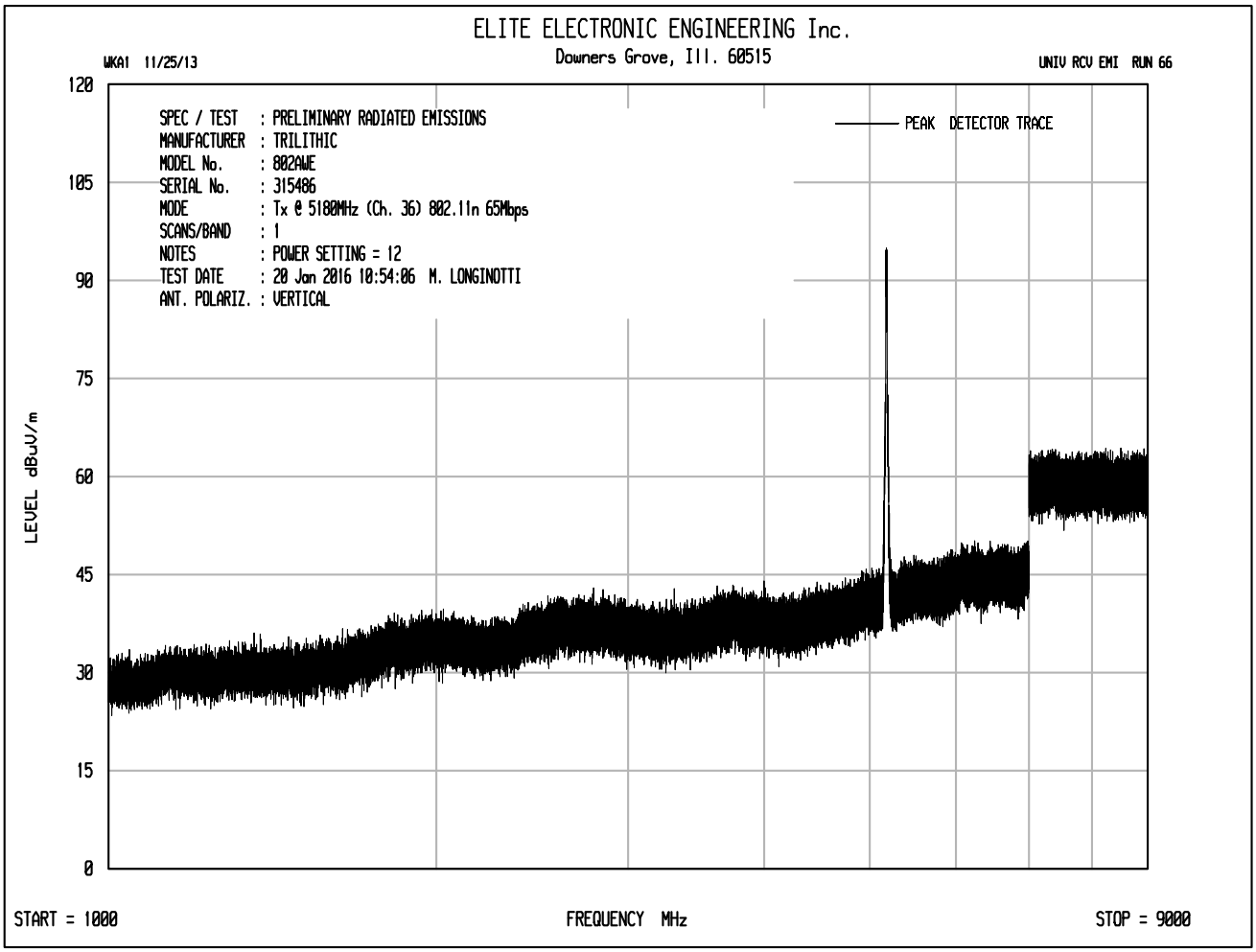

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 67
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 5180MHz (Ch. 36) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 20 Jan 2016 10:57:25 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 9000

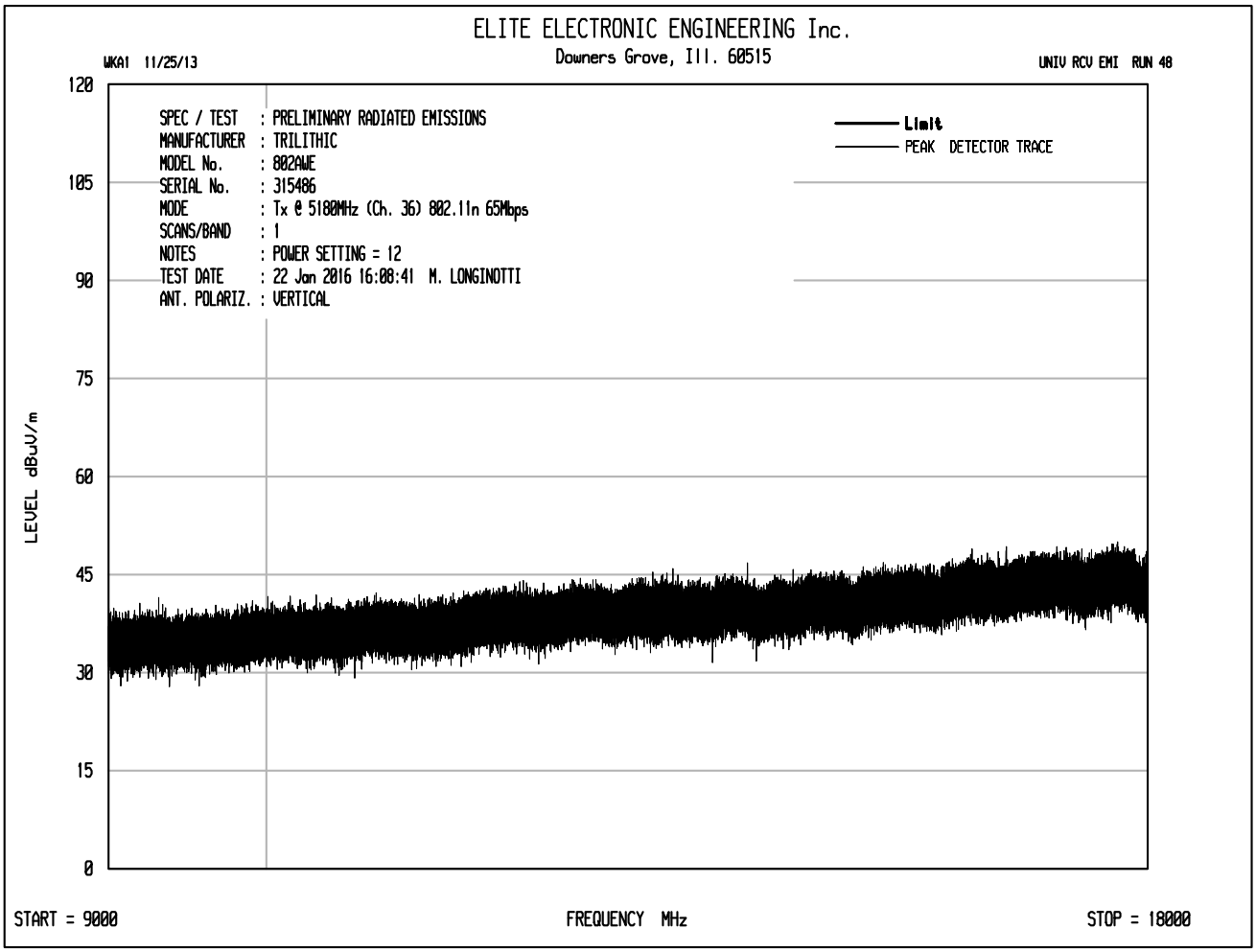

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 49
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 5180MHz (Ch. 36) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 22 Jan 2016 16:10:41 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 9000
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 47
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 5180MHz (Ch. 36) 802.11n 65MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 31 Mar 2016 15:17:36 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 26500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 73
SPEC / TEST : SYSTEM SENSITIVITY
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 802000071
MODE : Tx @ 5180MHz (Ch. 36) 802.11n 65MBPS
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 1 Apr 2016 09:28:21 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 26500
FREQUENCY MHz
STOP = 40000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WOBO 05/16/14
8546A RE RUN 14
PRELIMINARY PEAK RADIATED EMISSION TEST @ 3 METERS
SPECIFICATION : FCC 15B CLASS B
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
S/N : 802000071
MODE : Tx @ 5180MHz (Ch. 36) 802.11n 65MBPS
DATE TESTED : 23 Mar 2016 17:24:30 M. LONGINOTTI
NOTES : 2 BEADS ON POWER SUPPLY CABLE
ANT POLARITY : VERTICAL
DATA CORRECTED TO 3 m
VERTICAL
LIMIT
FIELD INTENSITY dBuV/m
---- µo --- 6d
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
100
START = 30
FREQUENCY - MHz
STOP = 1000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 66
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 5180MHz (Ch. 36) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 20 Jan 2016 10:54:06 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 9000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
WKA1 11/25/13
UNIV RCV EMI RUN 48
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : TRILITHIC
MODEL No. : 802AWE
SERIAL No. : 315486
MODE : Tx @ 5180MHz (Ch. 36) 802.11n 65Mbps
SCANS/BAND : 1
NOTES : POWER SETTING = 12
TEST DATE : 22 Jan 2016 16:08:41 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
Limit
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 9000
FREQUENCY MHz
STOP = 18000