



| Test Details | | | | | |
|-------------------|---|--|--|--|--|
| Manufacturer | Astronics | | | | |
| Model No. | Focus Pro | | | | |
| Serial No. | 1378317 | | | | |
| Mode | 802.11n – MCS1 | | | | |
| Carrier Frequency | 2462MHz | | | | |
| Parameters | Peak Measurements in the Restricted Bands | | | | |
| Notes | Antenna U7; Power Setting = 87 | | | | |
| notes | Duty Cycle Factor = 0.46 | | | | |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | CBL Fac (dB) | Ant Fac (dB/m) | 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 | Н | 49.1 | Ambient | 3.7 | 36.2 | -39.6 | 49.4 | 295.7 | 5000.0 | -24.6 |
| 4924.00 | V | 49.9 | Ambient | 3.7 | 36.2 | -39.6 | 50.2 | 324.2 | 5000.0 | -23.8 |
| 7386.00 | Н | 43.9 | | 5.3 | 39.3 | -39.2 | 49.3 | 290.2 | 10158.9 | -30.9 |
| 7386.00 | V | 41.6 | | 5.3 | 39.3 | -39.2 | 47.0 | 222.7 | 10158.9 | -33.2 |
| 12310.00 | Н | 36.6 | Ambient | 6.8 | 42.2 | -38.6 | 46.9 | 222.6 | 10158.9 | -33.2 |
| 12310.00 | V | 36.1 | Ambient | 6.8 | 42.2 | -38.6 | 46.4 | 210.1 | 10158.9 | -33.7 |
| 19696.00 | Н | 36.3 | Ambient | 7.3 | 44.1 | -37.4 | 50.4 | 329.8 | 10158.9 | -29.8 |
| 19696.00 | V | 36.4 | Ambient | 7.3 | 44.1 | -37.4 | 50.5 | 333.6 | 10158.9 | -29.7 |
| 22158.00 | Н | 22.2 | | 2.2 | 40.6 | -29.0 | 36.0 | 63.4 | 10158.9 | -44.1 |
| 22158.00 | V | 21.9 | Ambient | 2.2 | 40.6 | -29.0 | 35.7 | 61.3 | 10158.9 | -44.4 |



| Test Details | | | | | |
|-------------------|--|--|--|--|--|
| Manufacturer | Astronics | | | | |
| Model No. | Focus Pro | | | | |
| Serial No. | 1378317 | | | | |
| Mode | 802.11n – MCS1 | | | | |
| Carrier Frequency | 2462MHz | | | | |
| Parameters | Average Measurements in the Restricted Bands | | | | |
| Notes | Antenna U7; Power Setting = 87 | | | | |
| Notes | Duty Cycle Factor = 0.46 | | | | |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | CBL Fac (dB) | Ant Fac (dB/m) | Pre Amp (dB) | Duty Cycle (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 | Н | 34.9 | Ambient | 3.7 | 36.2 | -39.6 | 0.5 | 35.7 | 60.8 | 500.0 | -18.3 |
| 4924.00 | V | 34.8 | Ambient | 3.7 | 36.2 | -39.6 | 0.5 | 35.6 | 60.1 | 500.0 | -18.4 |
| 7386.00 | Н | 36.50 | | 4.7 | 38.0 | -39.6 | 0.5 | 40.1 | 101.5 | 500.0 | -13.8 |
| 7386.00 | V | 38.9 | | 4.7 | 38.0 | -39.6 | 0.5 | 42.5 | 133.9 | 500.0 | -11.4 |
| 12310.00 | Н | 32.6 | Ambient | 6.1 | 41.6 | -38.8 | 0.5 | 41.9 | 124.8 | 500.0 | -12.1 |
| 12310.00 | V | 32.6 | Ambient | 6.1 | 41.6 | -38.8 | 0.5 | 41.9 | 124.8 | 500.0 | -12.1 |
| 19696.00 | Н | 16.9 | Ambient | 2.2 | 40.4 | -28.0 | 0.5 | 31.9 | 39.6 | 500.0 | -22.0 |
| 19696.00 | V | 16.9 | Ambient | 2.2 | 40.4 | -28.0 | 0.5 | 31.9 | 39.6 | 500.0 | -22.0 |
| 22158.00 | Н | 22.2 | Ambient | 2.2 | 40.6 | -28.7 | 0.5 | 36.7 | 68.6 | 500.0 | -17.3 |
| 22158.00 | V | 22.2 | Ambient | 2.2 | 40.6 | -28.7 | 0.5 | 36.7 | 68.6 | 500.0 | -17.3 |



| Test Details | | | | | |
|-------------------|--|--|--|--|--|
| Manufacturer | Astronics | | | | |
| Model No. | Focus Pro | | | | |
| Serial No. | 1378317 | | | | |
| Mode | 802.11n – MCS1 | | | | |
| Carrier Frequency | 2462MHz | | | | |
| Parameters | Peak Measurements in the Non-Restricted Bands | | | | |
| Notes | Antenna U7; Power Setting = 87 Duty Cycle Factor = 0.46 | | | | |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | CBL Fac (dB) | Ant Fac (dB/m) | 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) |
|--------------|------------|----------------------------|---------|--------------------|----------------------|--------------------|----------------------------------|---------------------------------|---------------------------------|----------------|
| 2462.00 | Н | 57.3 | | 2.6 | 33.0 | 0.0 | 92.9 | 44345.2 | | |
| 2462.00 | V | 64.5 | | 2.6 | 33.0 | 0.0 | 100.1 | 101589.0 | | |
| 9848.00 | Н | 43.9 | | 5.3 | 39.3 | -39.2 | 49.3 | 290.2 | 10158.9 | -30.9 |
| 9848.00 | V | 41.6 | | 5.3 | 39.3 | -39.2 | 47.0 | 222.7 | 10158.9 | -33.2 |
| 14772.00 | Н | 36.6 | Ambient | 6.8 | 42.2 | -38.6 | 46.9 | 222.6 | 10158.9 | -33.2 |
| 14772.00 | V | 36.1 | Ambient | 6.8 | 42.2 | -38.6 | 46.4 | 210.1 | 10158.9 | -33.7 |
| 17234.00 | Н | 36.3 | Ambient | 7.3 | 44.1 | -37.4 | 50.4 | 329.8 | 10158.9 | -29.8 |
| 17234.00 | V | 36.4 | Ambient | 7.3 | 44.1 | -37.4 | 50.5 | 333.6 | 10158.9 | -29.7 |
| 24620.00 | Н | 22.2 | | 2.2 | 40.6 | -29.0 | 36.0 | 63.4 | 10158.9 | -44.1 |
| 24620.00 | V | 21.9 | Ambient | 2.2 | 40.6 | -29.0 | 35.7 | 61.3 | 10158.9 | -44.4 |



29. Band-Edge Compliance

| EUT Information | | | | | |
|-----------------|---------------------------|--|--|--|--|
| Manufacturer | Astronics | | | | |
| Product | Resideo Thermostat | | | | |
| Model No. | Focus Pro | | | | |
| Serial No. | 1378317 and 1378290 | | | | |
| Mode | 802.11b, 802.11g, 802.11n | | | | |

| Test Setup Details | | | | | | |
|--------------------|-----------------------|--|--|--|--|--|
| Setup Format | Format Tabletop | | | | | |
| Measurement Method | Radiated | | | | | |
| Type of Test Site | Semi-Anechoic Chamber | | | | | |
| Test Site Used | Room 29 | | | | | |
| Notes | N/A | | | | | |

| Measurement Uncertainty | Measurement Uncertainty | | | | | | |
|---|--|--|--|--|--|--|--|
| Measurement Type | Expanded Measurement Uncertainty | | | | | | |
| Radiated disturbance (electric field strength on an open area test site or alternative test site) (30 MHz – 1000 MHz) | 4.3 | | | | | | |
| Radiated disturbance (electric field strength on an open area test site or alternative test site) (1 GHz – 6 GHz) | 3.1 | | | | | | |
| Radiated disturbance (electric field strength on an open area test site or alternative test site) (6 GHz – 18 GHz) | 3.2 | | | | | | |
| Radiated disturbance (electric field strength on an open area test site or alternative test site) (18 GHz – 26.5 GHz) | 3.3 | | | | | | |
| Radiated disturbance (electric field strength on an open area test site or alternative test site) (26.5 GHz – 40 GHz) | 3.4 | | | | | | |



Procedure

- 1) Low Band Edge:
 - a) The antenna port of the EUT was connected to the spectrum analyzer through 40dB of attenuation.
 - b) The EUT was set to transmit continuously at the channel closest to the low band-edge.
 - c) To determine the band edge compliance, the following spectrum analyzer settings were used:
 - Center Frequency = 2400MHz (low band-edge frequency).
 - Span = Wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation.
 - Resolution Bandwidth (RBW) = \geq 1% of the span.
 - 'Max-Hold' function was engaged.
 - d) The analyzer was allowed to scan until the envelope of the transmitter bandwidth was defined.
 - e) The marker was set on the peak of the in-band emissions. A display line was placed 20dB down from the peak of the in-band emissions. All emissions which fall outside of the authorized band of operation must be below the 20dB down display line. (All emissions to the left of the center frequency (band-edge) must be below the display line.)
 - f) The analyzer's display was then screenshot and saved.
 - 2) High Band Edge
 - a) The EUT was setup inside the test chamber on a non-conductive stand and set to transmit continuously at the channel closest to the high band-edge.
 - b) A broadband measuring antenna was placed at a test distance of 3 meters from the EUT. The antenna was connected to the input of a spectrum analyzer.
 - c) The center frequency of the analyzer was set to the high band edge (2483.5MHz).
 - d) The Resolution Bandwidth was set to 1MHz.
 - e) To ensure that the maximum or worst case emission level was measured, the following steps were taken:
 - o The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
 - o The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - The measuring antenna was raised and lowered from 1 to 4 meters for each antenna polarization to maximize the readings.
 - o The highest measured peak reading and the highest measured average reading were recorded.



| | Test Details | | | | | | |
|------------------|--------------------|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | |
| EUT | Resideo Thermostat | | | | | | |
| Model No. | Focus Pro | | | | | | |
| Serial No. | 1378290 | | | | | | |
| Mode | 802.11b | | | | | | |
| Frequency Tested | 2402MHz, 1MBPS | | | | | | |
| Notes | Low Band Edge | | | | | | |

| Multi¥iew 🔠 Receiver | | ~ (| Spectrum 2 🚽 | Spectrum 3 | Spectrum 4 | 1 🔆 🕅 Spec | trum 5 🛛 🕅 | | |
|--------------------------|---------------|-----------|---|--|---------------|------------|-------------------|--------------|--------------|
| | 10 dB SWT | 1.08 ms | RBW 100 kHz VBW 100 kHz | Mode Auto Swee | р | | Fre | equency 2.40 | 000000 GHz |
| Input 1 Frequency Swe | 1 AC PS | On | Notch Off | | | | | | ●1Pk View |
| I Trequency offic | 30p | | | | | | | M1[1] | 9.99 dBm |
| | | | | | | | | | 4109890 GHz |
| 30 dBm | | | | | | | | | |
| 30 uBm | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | M1 | | |
| 10 dBm | | | | | | , MMM | WM MMA | | |
| | | | | | | MMW | | MAR . | |
| 0 dBm | | | | | | - hu | <u> </u> | ww | |
| o dom | | | | | | [M] / | W | 1 1/2LA. | |
| | | | | | <i>س</i> , ۲۰ | rv | | V ~~√. | |
| -10-dBm | H1 -10.010 dl | Bm | | | - N | P. | | V 1 | 1 |
| | | | | | N | | | | M |
| -20 dBm | | | | | N | | | | N . |
| -20 uBm | | | | | | | | | 4 |
| | | | | | l V | | | | N N |
| -30 dBm | | | | | | | | | <u> </u> |
| | | | | hi | . ľ | | | | h |
| | | | | - Alar | | | | | 1 pm/w |
| -40 dBm | | | | 1. A Kymper | Ϋ́ | | | | V |
| month | harrow | month man | www.wahan | and the second s | | | | | |
| -50 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | V1 2.4 | 30 GHz | | | | |
| CF 2.4 GHz | | | 1001 p | ots | 5 | .0 MHz/ | I | 5 | pan 50.0 MHz |
| ۲ ا |][| | | |) | | 🚧 01.06.2 20:3 | | - |
| | | | | | | | 20:3 | D:43 🛛 🔍 | |

20:30:43 01.06.2021



| | Test Details | | | | | |
|------------------|--------------------|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| EUT | Resideo Thermostat | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378290 | | | | | |
| Mode | 802.11b | | | | | |
| Frequency Tested | 2402MHz, 2MBPS | | | | | |
| Notes | Low Band Edge | | | | | |

| MultiView 88 | Receiver | | ectrum 🔆 | | ectrum 2 🛛 🧳 | X | Spectrum 3 | ×x | Spectrum 4 | • ¥ 🕅 • | Spectrum 5 | X | | ▼ |
|---------------------------|----------------------------|---------------------|---------------------------|---------------------|--------------|----------|------------|--------|------------|---------|------------|-----------|-----------------|------------------------|
| Ref Level Att Input | 40.60 dBm 10 dB 1 AC | Offset SWT PS | 40.60 dB 1.08 ms On | RBW VBW Notch | 100 kHz | Mode | Auto Swee | эр | | | | Frequ | uency 2.4 | 000000 GHz |
| 1 Frequenc | | 15 | UI | NOTCH | | | | | | | | | | ●1Pk Max |
| | | | | | | | | | | | | | M1[1] | |
| 30 dBm | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | ment | M1 | m | <u></u> | |
| 0 dBm | _ | | | | | | | | | ~~ | V | | $\neg \uparrow$ | |
| 10-dBm | H1 -10 |).160 dBn | | | | | | | | r V | | | \mathbb{V} | Ny . |
| | | | _ | | | | | | { | | | | | $\left \right\rangle$ |
| -20 dBm | | | | | | | | | | | | | | |
| -30 dBm | | | | | | | گریس | www | | | | | | MM |
| -40 dBm | mmm | m | mm | Anna | mm | Mun | p-M- | | | | | | | |
| -50 dBm | | | | | | | | | | | | | | |
| | | | | | | | V1 2.4 | 00 GHz | | | | | | |
| CF 2.4 GHz | 1 | | | 1 | 1001 p | ots | | 1 | 5 | .0 MHz/ | 1 | | | Span 50.0 MHz |
| | | | | | | | | | 1easuring | | | 01.06.202 | 1 Ref Leve | |

20:56:14 01.06.2021



| | Test Details |
|------------------|--------------------|
| Manufacturer | Astronics |
| EUT | Resideo Thermostat |
| Model No. | Focus Pro |
| Serial No. | 1378290 |
| Mode | 802.11b |
| Frequency Tested | 2402MHz, 5.5MBPS |
| Notes | Low Band Edge |

| Multi¥iew 88 Receiver | | Spectrum 🔆 | | trum 2 🛛 🔆 | Spectra | um 3 🛛 🐳 | Spectrum 4 | ، 🔆 🕅 ۹ | pectrum 5 | K) | |
|---------------------------------|------------------------------------|------------------------------|------|------------|-----------|------------|--|---------|----------------|----------------|----------------------------|
| Ref Level 40.60 Att Input | 0 dBm Offs 10 dB SW1 1 AC PS | et 40.60 dB 1.08 ms On | | | Mode Auto | o Sweep | | | | Frequency 2.4 | 4000000 GHz |
| 1 Frequency Swe | еер | | | | | | | | | | ⊙1Pk View |
| | | | | | | | | | | M1[1] | 10.92 dBm 2.4116880 GHz |
| 30 dBm | | | | | | | | | | | |
| 20 dBm | | | | | | | | | M1 | | |
| 10 dBm | | | | | | | | monor | montan | mung | |
| 0 dBm | | | | | | | | w. | | - my | * |
| -10 dBm | — <mark>⊣1 -9.080 d</mark> i | 3m | | | | | | | | | |
| -20 dBm | | | | | | | J. J | | | | |
| -30 dBm | | | | | Martin | M. M. | V | | | | |
| -40 dBm | mpan | Mannow | when | www. | 1 | | | | | | |
| -50 dBm | | | | | | V1 2.400 C | Hz | | | | |
| CF 2.4 GHz | | 1 | | 1001 pt | S | | 5 | .0 MHz/ | 1 | 1 | Span 50.0 MHz |
| | | | | | | | Measuring | |) 🚧 01.0 21 | 6.2021 Ref Lev | el RBW |

21:16:16 01.06.2021



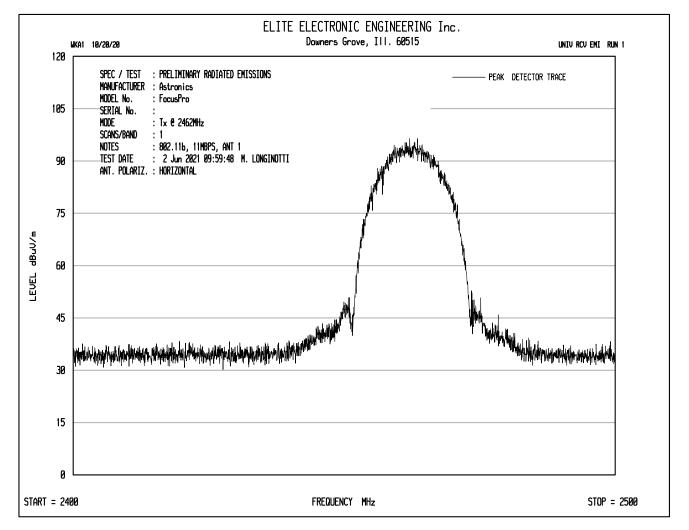
| | Test Details |
|------------------|--------------------|
| Manufacturer | Astronics |
| EUT | Resideo Thermostat |
| Model No. | Focus Pro |
| Serial No. | 1378290 |
| Mode | 802.11b |
| Frequency Tested | 2402MHz, 11MBPS |
| Notes | Low Band Edge |

| Multi¥iew 🔠 Receive | r 🗵 | Spectrum 🐳 | Spectrum 2 | Spectrum 3 | Spectrum - | 4 🎽 🕅 Spec | trum 5 🛛 🕅 | | |
|--------------------------------|----------------------------------|------------|--|--------------|------------|-------------------------|----------------------|---------------|----------------------------|
| Ref Level 40.6 Att Input | 0 dBm Off 10 dB SW 1 AC PS | | RBW 100 ki VBW 100 ki Notch (100 ki) | | eep | | Fre | equency 2.40 | 000000 GHz |
| 1 Frequency Sw | | | | | | | | | ●1Pk View |
| | • | | | | | | | M1[1] | 10.00 dBm 2.4142360 GHz |
| 30 dBm | | | | | | | | | |
| 20 dBm | | | | | | | M1 | | |
| 10 dBm | | | | | | www | mound | M. M. Market | |
| 0 dBm | | | | | | protection and a second | | - M Why | |
| 10-dBm | | dBm | | | | | | | M |
| -20 dBm | | | | | | | | | |
| -30 dBm | | | | whether warm | MM | | | | JAN |
| un usin | MM | mmmmm | www.A.h. | mathin | | | | | |
| -50 dBm | | | | | 2.400 GHz | | | | |
| CF 2.4 GHz | | | 100 | 01 pts | 5 | .0 MHz/ | • | | Span 50.0 MHz |
| | J | | | | Measuring | g (IIIIIII) | 11.06.2 21:32 | 021 Ref Level | RBW |

21:37:58 01.06.2021

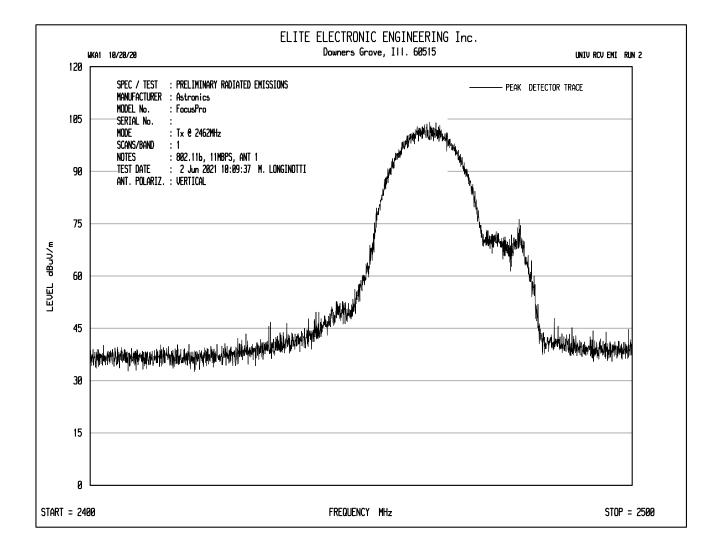


| | Test Details | | | | | | | |
|-------------------|----------------|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| Model No. | Focus Pro | | | | | | | |
| Serial No. | 1378317 | | | | | | | |
| Mode | 802.11b | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | |
| Parameters | High Band-Edge | | | | | | | |
| Notes | None | | | | | | | |





| | Test Details | | | | | | |
|-------------------|----------------|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | |
| Model No. | Focus Pro | | | | | | |
| Serial No. | 1378317 | | | | | | |
| Mode | 802.11b | | | | | | |
| Carrier Frequency | | | | | | | |
| Parameters | High Band-Edge | | | | | | |
| Notes | None | | | | | | |





| | Test Details | | | | | | | |
|-------------------|---|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| Model No. | Focus Pro | | | | | | | |
| Serial No. | 1378317 | | | | | | | |
| Mode | 802.11b- 11MBPS | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | |
| Parameters | Peak Measurements at the High Band Edge | | | | | | | |
| Notes | Antenna U7; Power Setting = 107 Duty Cycle Factor = 0.62 | | | | | | | |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | CBL Fac (dB) | Ant Fac (dB/m) | 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) |
|--------------|------------|----------------------------|---------|--------------------|----------------------|--------------------|----------------------------------|---------------------------------|---------------------------------|----------------|
| 2485.29 | Н | 28.0 | | 2.7 | 33.1 | 0.0 | 63.8 | 1542.7 | 5000.0 | -10.2 |
| 2484.50 | V | 36.6 | | 2.7 | 33.1 | 0.0 | 72.4 | 4150.2 | 5000.0 | -1.6 |



| | Test Details |
|-------------------|--|
| Manufacturer | Astronics |
| Model No. | Focus Pro |
| Serial No. | 1378317 |
| Mode | 802.11b |
| Carrier Frequency | 2462MHz |
| Parameters | Average Measurements at the High Band Edge |
| Notes | Antenna U7; Power Setting = 107 |
| NULES | Duty Cycle Factor = 0.62 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | CBL Fac (dB) | Ant Fac (dB/m) | Pre Amp (dB) | Duty Cycle (dB) | Average Total dBuV/m at 3m | Average Total uV/m at 3 m | Average Limit uV/m at 3 m | Margin (dB) |
|--------------|------------|----------------------------|---------|--------------------|----------------------|--------------------|-----------------------|-------------------------------------|------------------------------------|------------------------------------|----------------|
| 2485.29 | Н | 8.4 | Ambient | 2.7 | 33.1 | 0.0 | 0.6 | 44.8 | 173.5 | 500.0 | -9.2 |
| 2484.50 | V | 11.2 | Ambient | 2.7 | 33.1 | 0.0 | 0.6 | 47.6 | 239.4 | 500.0 | -6.4 |



| | Test Details |
|------------------|--------------------|
| Manufacturer | Astronics |
| EUT | Resideo Thermostat |
| Model No. | Focus Pro |
| Serial No. | 1378290 |
| Mode | 802.11g |
| Frequency Tested | 2402MHz, 6MBPS |
| Notes | Low Band Edge |

| | Receiver | Spectrum 🔆 🔀 | Spectrum 2 🛛 🔆 | Spectrum 3 | Spectrum 4 | i 🎽 🕅 Spe | trum 5 🛛 🕅 | | |
|---------------------------|---------------------------------------|--------------|----------------|----------------|-----------------|-----------|--------------------|----------------|---------------|
| Ref Level Att Input | 40.60 dBm Of 10 dB • SV 1 AC PS | | | Mode Auto Swee | ep | | Fre | equency 2.4 | 000000 GHz |
| 1 Frequency | | | | | | | | | ●1Pk View |
| | | | | | | | | M1[1] | 0.50 dBm |
| | | | | | | | | | 2.4144860 GHz |
| 30 dBm | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| | | | | | | | | | |
| 0 dBm | | | | | | | M1 | | |
| 0 ubiii | | | | | , da | Andmohad | poliny and when h | whenhall | |
| | | | | | l Marin | | r V i | | N |
| -10 dBm | | | | | | | V | | l |
| | | | | | | | | | ll III |
| -20 dBm- | H1 -19.500 | dBm | | | | | | | - M. |
| | | | | | and and | | | | Ny. |
| -30 dBm | | | | | | | | | - Mu |
| | | | | Jul I | J ^{VA} | | | | Mye |
| -40 dBm | | | | - What was | | | | | 7 |
| mmmmm | man | Mary Mary | mohrman | www. | | | | | |
| -50 dBm | | | | | | | | | |
| | | | | V1 2 40 | | | | | |
| | | | | | | | | | |
| CF 2.4 GHz | | | 1001 pt | s | | .0 MHz/ | | | Span 50.0 MHz |
| L | | | | | Measuring | | 🚧 02.06.2 01:20 | 5:30 Ker Level | RBW |

01:26:31 02.06.2021



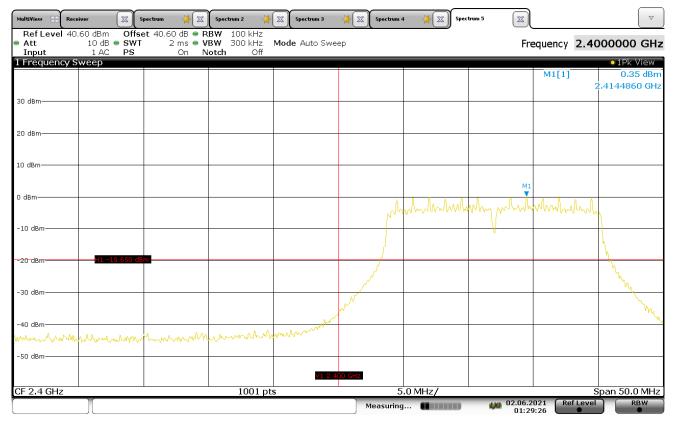
| Test Details | | | | | | | |
|------------------|--------------------|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | |
| EUT | Resideo Thermostat | | | | | | |
| Model No. | Focus Pro | | | | | | |
| Serial No. | 1378290 | | | | | | |
| Mode | 802.11g | | | | | | |
| Frequency Tested | 2402MHz, 9MBPS | | | | | | |
| Notes | Low Band Edge | | | | | | |

| | Receiver 🛛 | Spectrum 🔆 🔀 | Spectrum 2 🛛 🔆 | Spectrum 3 | Spectrum 4 | i 🔆 🕅 Spec | trum 5 🛛 🕅 | | |
|-----------------------------|---------------------------------------|--------------|----------------|----------------|----------------|------------|-----------------------------|--------------|---------------|
| Ref Level 4 Att Input | 40.60 dBm Of 10 dB • SV 1 AC PS | | | Mode Auto Swee | ер | | Fre | equency 2.40 | 000000 GHz |
| 1 Frequency | | | | | | | | | • 1Pk View |
| | | | | | | | | M1[1] | 0.37 dBm |
| | | | | | | | | | 2.4144860 GHz |
| 30 dBm | | | | | | | | | |
| SO GBII | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| 10 UBIII | | | | | | | | | |
| | | | | | | | M1 | | |
| 0 dBm | | | | | A | <u> </u> | 1 a a 1 | 8 0 4 4 | |
| | | | | | h | Munimither | when what | whalmaling | w. |
| 10.10 | | | | | ľ | | $ \rangle \langle \rangle$ | | |
| -10 dBm | | | | | | | V | | |
| | | | | | | | | | 5 |
| -20 dBm | H1 -19,630 | dBm | | | f | | | | 4 |
| | | | | | Ň | | | | 4 |
| | | | | | N | | | | \sim |
| -30 dBm | | | | | r ⁿ | | | | h. |
| | | | | ال. | ~ | | | | <u>س</u> ر ۲ |
| -40 dBm | | | | Mar 1 | | | | | M |
| Marchan | mar appression | mmonor | moundary | Marmore | | | | | |
| | | | | | | | | | |
| -50 dBm | | | | | | | | | |
| | | | | V1 2.40 | DO GHZ | | | | |
| CF 2.4 GHz | | | 1001 pt | | 5 | .0 MHz/ | | <u> </u> | Span 50.0 MHz |
| | 1 | | 1001 pt | 3 | | | 110 02.06.2 | | |
| L | | | | | Measuring | | 01:2 | 3:12 | |

01:28:12 02.06.2021



| Test Details | | | | | | | |
|------------------|--------------------|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | |
| EUT | Resideo Thermostat | | | | | | |
| Model No. | Focus Pro | | | | | | |
| Serial No. | 1378290 | | | | | | |
| Mode | 802.11g | | | | | | |
| Frequency Tested | 2402MHz, 12MBPS | | | | | | |
| Notes | Low Band Edge | | | | | | |



01:29:27 02.06.2021



| | Test Details | | | | | | | |
|------------------|--------------------|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| EUT | Resideo Thermostat | | | | | | | |
| Model No. | Focus Pro | | | | | | | |
| Serial No. | 1378290 | | | | | | | |
| Mode | 802.11g | | | | | | | |
| Frequency Tested | 2402MHz, 18MBPS | | | | | | | |
| Notes | Low Band Edge | | | | | | | |

| MultiView 88 | Receiver | Spectrum 🔆 🔀 | Spectrum 2 🛛 🔆 | Spectrum 3 | Spectrum 4 | 4 🎽 🕅 Spe | ctrum 5 🛛 🕅 | | |
|---------------------------|---------------------------------------|-------------------------|-------------------------|---------------|------------|--------------|----------------------|--------------------|---|
| Ref Level Att Input | 40.60 dBm Of 10 dB • SV 1 AC PS | | /BW 300 kHz | Mode Auto Swe | ер | | Fre | equency 2.4 | 000000 GHz |
| 1 Frequence | | | | | | | | | ●1Pk View |
| | | | | | | | | M1[1] | 0.69 dBm |
| | | | | | | | | | 2.4144860 GHz |
| 30 dBm | | | | | | | | | |
| 30 UBM | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | M1 | | |
| 0 dBm | | | | | ۸ | 1. rolendard | mly march | alle allerade | |
| | | | | | r/h | Moundand | the Mail Love what i | A IN A RANK A MANY | M |
| -10 dBm | | | | | | | | | |
| | | | | | | | V | | |
| | | | | | 1 | | | | 1 |
| -20 dBm | H1 -19.310 | dBm | | | 1 | | | | + |
| | | | | | , M | | | | <u>h</u> |
| | | | | | N | | | | No. |
| -30 dBm | | | | | N | | | | ×4. |
| | | | | | M | | | | The second se |
| -40 dBm | | | | www | | | | | - m |
| · · · · · · · · | under a des de | monum | and as about a | Munhum | | | | | |
| an menter of | m was pure way when | Call Calendar and Marca | and a Antonia a support |] | | | | | |
| -50 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | V1 2.4 | | | | | |
| CF 2.4 GHz | | | 1001 pt | s | 5 | .0 MHz/ | | | Span 50.0 MHz |
| | | | | | Measuring | | 🚧 02.06.2 01:3 | 021 Ref Level | RBW |
| <u> </u> | | | | | | | 01:3 | 0:13 | |

01:30:14 02.06.2021



| | Test Details | | | | | | | |
|------------------|--------------------|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| EUT | Resideo Thermostat | | | | | | | |
| Model No. | Focus Pro | | | | | | | |
| Serial No. | 1378290 | | | | | | | |
| Mode | 802.11g | | | | | | | |
| Frequency Tested | 2402MHz, 24MBPS | | | | | | | |
| Notes | Low Band Edge | | | | | | | |

| MultiView 88 | | Spectrum 🔆 🔀 | Spectrum 2 🛛 🔆 | Spectrum 3 | Spectrum 4 | s 🔆 🕅 Spec | trum 5 🛛 🕅 | | |
|---------------------------|--|---------------------------------------|---------------------|---------------|--|------------|---------------------|---------------------------------------|--|
| Ref Level Att Input | 40.60 dBm Offs 10 dB • SWI 1 AC PS | et 40.60 dB ● R 1 2 ms ● V On N | ' BW 300 kHz | Mode Auto Swe | ер | | Fre | equency 2.40 | 000000 GHz |
| 1 Frequence | | | | | | | | | ●1Pk View |
| | | | | | | | | M1[1] | 0.59 dBm |
| | | | | | | | | | 2.4144860 GHz |
| 30 dBm | | | | | | | | | |
| 30 abii | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| | | | | | | | M1 | | |
| 0 dBm | | | | | | | T | | |
| | | | | | . An | Maham | Wha which | Whithmapp | v |
| | | | | | (v • • | M | [""" [""" | · · · · · · · · · · · · · · · · · · · | |
| -10 dBm | | | | | | | | | |
| | | | | | | | | | 1 |
| | H1 -19,410 di | 9m | | | | | | | |
| -20 dBm | | | | | | | | | la l |
| | | | | | | | | | × . |
| -30 dBm | | | | | | | | | Ny |
| | | | | | and the second s | | | | The second |
| | | | | مر | ſ~ | | | | M. |
| -40 dBm | - monte and a monte of the | | | a way way | | | | 1 | |
| Mar Myrems | monomin | Maria Maria | Marthan | Chen Le | | | | | |
| -50 dBm | | | | | | | | <u> </u> | |
| | | | | | | | | | |
| | | | | V1 2,4 | DO GHZ | | | | |
| CF 2.4 GHz | | · · · · · · · · · · · · · · · · · · · | 1001 pt | s | 5 | .0 MHz/ | ı | | Span 50.0 MHz |
| r | | | | | Measuring | | 1)(1 02.06.2 | 2021 Ref Level | RBW |
| L | | | | | | | 01:3 | 1:20 | |

01:31:21 02.06.2021



| | Test Details | | | | | | | |
|------------------|--------------------|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| EUT | Resideo Thermostat | | | | | | | |
| Model No. | Focus Pro | | | | | | | |
| Serial No. | 1378290 | | | | | | | |
| Mode | 802.11g | | | | | | | |
| Frequency Tested | 2402MHz, 36MBPS | | | | | | | |
| Notes | Low Band Edge | | | | | | | |

| MultiView 88 | Receiver | Spectrum 🔆 🔀 | Spectrum 2 🛛 🔆 | Spectrum 3 | Spectrum 4 | 4 🔆 🕅 Spec | trum 5 | | |
|---------------------------|--------------------------------------|------------------------------|----------------|--|------------|---------------|---------------|--|---------------|
| Ref Level Att Input | 40.60 dBm 0 10 dB • SV 1 AC PS | | | Mode Auto Swee | эр | | Fre | equency 2.40 | 000000 GHz |
| 1 Frequence | | | | | | | | | ●1Pk View |
| | | | | | | | | M1[1] | 0.37 dBm |
| | | | | | | | | | 2.4144860 GHz |
| 30 dBm | | | | | | | | | |
| 30 uBm | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| | | | | | | | | | |
| 0.40.0 | | | | | | | M1 | | |
| 0 dBm | | | | | ٨ | . h. shalash | why which | Astalar A. A. | |
| | | | | | Mh | WINNIN AND AN | and have and | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Ŵ |
| -10 dBm | | | | | | | <u> </u> | | |
| | | | | | | | | | |
| | | | | | | | | | $ \rangle$ |
| -20 dBm | H1 -19.630 |) dBm | | | | | | | <u>}</u> |
| | | | | | N° | | | | h h |
| 00.40 | | | | | NV. | | | | J. |
| -30 dBm | | | | | ad the | | | | No. |
| | | | | | NV . | | | | "MA |
| -40 dBm | | | | - Physical Contract of the second sec | | | | | / |
| and also and | and a second | www.manmhune | mount | mound | | | | | |
| rest and the | www.www.www. | A. Contraction of the second | | | | | | | |
| -50 dBm | | | | | | | | | |
| | | | | V1 2.4(| | | | | |
| | | | | | | | | | |
| CF 2.4 GHz | ~ | | 1001 pt | s | 5 | .0 MHz/ | | | Span 50.0 MHz |
| | T T | | | | Measuring | | 02.06.2 01:33 | Ref Level | RBW |
| <u> </u> | | | | | | | 01:33 | 3:43 | |

01:33:43 02.06.2021



| | Test Details | | | | | | | |
|------------------|--------------------|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| EUT | Resideo Thermostat | | | | | | | |
| Model No. | Focus Pro | | | | | | | |
| Serial No. | 1378290 | | | | | | | |
| Mode | 802.11g | | | | | | | |
| Frequency Tested | 2402MHz, 48MBPS | | | | | | | |
| Notes | Low Band Edge | | | | | | | |

| MultiView 88 | Receiver | Spectrum 🔆 🔀 | Spectrum 2 🛛 🔆 | Spectrum 3 | Spectrum 4 | 4 🔆 🕅 Spec | trum 5 🛛 🕅 | | |
|---------------------------|--|------------------------|-----------------------|---------------|-----------------|--------------|-------------------|-----------------------------|-----------------|
| Ref Level Att Input | 40.60 dBm Off 10 dB • SW 1 AC PS | | /BW 300 kHz | Mode Auto Swe | ер | | Fre | equency 2.4 | 000000 GHz |
| 1 Frequenc | | 0.11 | | | | | | | ⊙1Pk View |
| | | | | | | | | M1[1] | 0.46 dBm |
| | | | | | | | | | 2.4144860 GHz |
| 30 dBm | | | | | | | | | |
| 30 0.0m | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| | | | | | | | | | |
| 0.40 | | | | | | | M1 | | |
| 0 dBm | | | | | ۸. | Adverter all | My which | alles Pruber A | |
| | | | | | ۱۳ _۸ | MI MANYA AN | אישישערן איי גרון | and a second some method of | ħ l |
| -10 dBm | | | | | | | | | |
| | | | | | | | l I | | |
| | | | | | l d | | | | 5 |
| -20 dBm | H1 -19.540 | dBm | | | | | | | 4 |
| | | | | | J. 1 | | | | N. |
| | | | | | N ^r | | | | M ₁₀ |
| -30 dBm | | | | | N | | | | M. |
| | | | | | J | | | | m. |
| -40 dBm | | | | A C | | | | | ~ |
| A | 1 | www.www. | | mmmm | | | | | |
| a constraint of | man warder a | and worked what the to | Agendar of the sector | | | | | | |
| -50 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | V1 2.4 | JU GHZ | | | | |
| CF 2.4 GHz | | | 1001 pt | s | 5 | .0 MHz/ | | | Span 50.0 MHz |
| | | | | | Measuring | | 02.06.2 01:3 | 021 Ref Level | RBW |
| L | | | | | | | 01:3 | 3:30 | |

01:35:56 02.06.2021



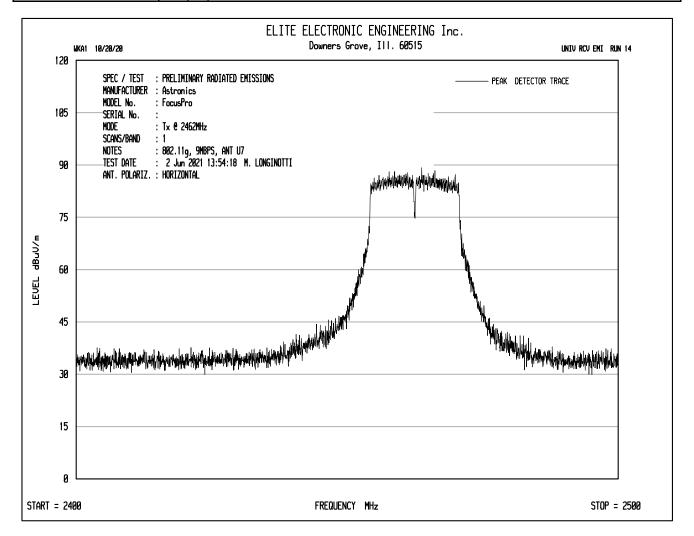
| | Test Details | | | | | | |
|------------------|--------------------|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | |
| EUT | Resideo Thermostat | | | | | | |
| Model No. | Focus Pro | | | | | | |
| Serial No. | 1378290 | | | | | | |
| Mode | 802.11g | | | | | | |
| Frequency Tested | 2402MHz, 54MBPS | | | | | | |
| Notes | Low Band Edge | | | | | | |

| MultiView 88 | Receiver | | Λ ^ | Spectrum 3 | Spectrum 4 | t 🔆 🕅 Spec | trum 5 | | |
|---------------------------|-----------|-----------|-----------|----------------|------------|------------|-------------------|-----------------|---------------------------------------|
| Ref Level Att Input | 10 dB 👄 S | | | Mode Auto Swee | ep | | Fn | equency 2.40 | 000000 GHz |
| 1 Frequenc | | 0 00 1 | | | | | | | ⊙1Pk View |
| | | | | | | | | M1[1] | -3.05 dBm 2.4144860 GHz |
| 30 dBm | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| 0 dBm | | | | | | B B A. A | M1 | | |
| -10 dBm | | | | | Mh | MUMMUMM | Man Maril | MyhMyh | 4 |
| -20 dBm | | | | | | | V | | |
| -30 dBm | H1 -23.05 | i dBm | | | المريد | | | | A A A A A A A A A A A A A A A A A A A |
| 40. dD | | | | Ma. | w | | | | N.N.N. |
| -40 dBm | Manyuntin | Maynowala | montingen | mmhh | | | | | and the second |
| -50 dBm | | | | V1 2.40 |)0 GHz | | | | |
| CF 2.4 GHz | I | | 1001 pt | s | 5 | .0 MHz/ | | <u> </u> | Span 50.0 MHz |
| |)[| | 1001 pt | - | | | 🚧 02.06.2 01:3 | 2021 (Ref Level | |

01:37:17 02.06.2021

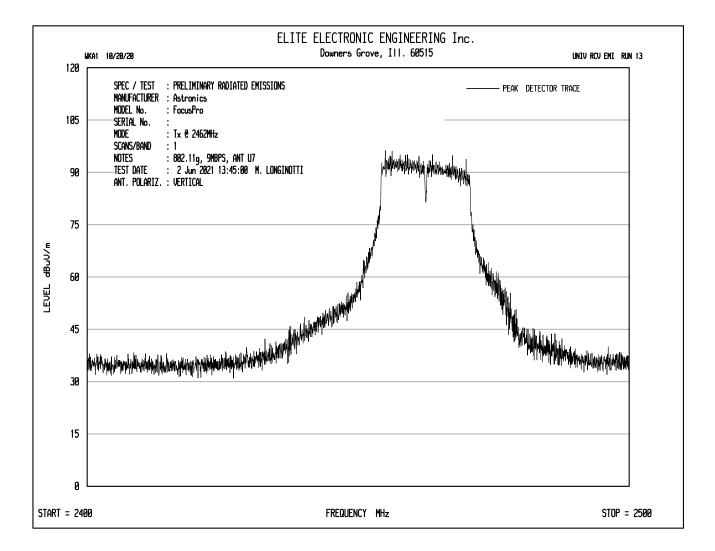


| | Test Details | | | | | |
|-------------------|---|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378317 | | | | | |
| Mode | 802.11g-9MBPS | | | | | |
| Carrier Frequency | 2462MHz | | | | | |
| Parameters | Peak Measurements at the High Band Edge | | | | | |
| Notes | Antenna U7; Power Setting = 87 Duty Cycle Factor = 0.308 | | | | | |





| Test Details | | | | | |
|-------------------|---|--|--|--|--|
| Manufacturer | Astronics | | | | |
| Model No. | Focus Pro | | | | |
| Serial No. | 1378317 | | | | |
| Mode | 802.11g- 9MBPS | | | | |
| Carrier Frequency | 2462MHz | | | | |
| Parameters | Peak Measurements at the High Band Edge | | | | |
| Notes | Antenna U7; Power Setting = 87 Duty Cycle Factor = 0.308 | | | | |





| | Test Details | | | | | | |
|-------------------|---|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | |
| Model No. | Focus Pro | | | | | | |
| Serial No. | 1378317 | | | | | | |
| Mode | 802.11g-9MBPS | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | |
| Parameters | Peak Measurements at the High Band Edge | | | | | | |
| Notes | Antenna U7; Power Setting = 87 Duty Cycle Factor = 0.308 | | | | | | |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | CBL Fac (dB) | Ant Fac (dB/m) | 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) |
|--------------|------------|----------------------------|---------|--------------------|----------------------|--------------------|----------------------------------|---------------------------------|---------------------------------|----------------|
| 2485.04 | Н | 24.0 | | 2.7 | 33.1 | 0.0 | 59.8 | 973.2 | 5000.0 | -14.2 |
| 2483.72 | V | 29.7 | | 2.7 | 33.1 | 0.0 | 65.5 | 1874.4 | 5000.0 | -8.5 |

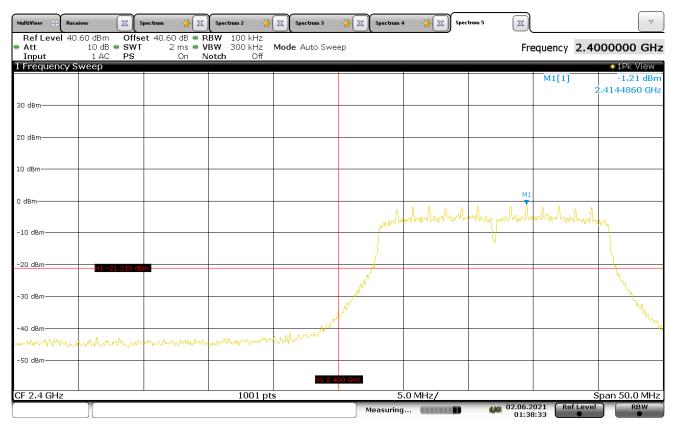


| Test Details | | | | | | |
|-------------------|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378317 | | | | | |
| Mode | 802.11g – 9MBPS | | | | | |
| Carrier Frequency | 2462MHz | | | | | |
| Parameters | Average Measurements at the High Band Edge | | | | | |
| Notes | Antenna U7; Power Setting = 87 | | | | | |
| | Duty Cycle Factor = 0.308 | | | | | |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | CBL Fac (dB) | Ant Fac (dB/m) | Pre Amp (dB) | Duty Cycle (dB) | Average Total dBuV/m at 3m | Average Total uV/m at 3 m | Average Limit uV/m at 3 m | Margin (dB) |
|--------------|------------|----------------------------|---------|--------------------|----------------------|--------------------|-----------------------|-------------------------------------|------------------------------------|------------------------------------|----------------|
| 2485.04 | Н | 8.4 | Ambient | 2.7 | 33.1 | 0.0 | 0.3 | 44.5 | 167.3 | 500.0 | -9.5 |
| 2483.72 | V | 9.9 | Ambient | 2.7 | 33.1 | 0.0 | 0.3 | 46.0 | 198.7 | 500.0 | -8.0 |



| Test Details | | | | | | |
|------------------|--------------------|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| EUT | Resideo Thermostat | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378290 | | | | | |
| Mode | 802.11n | | | | | |
| Frequency Tested | 2402MHz, MCS0 | | | | | |
| Notes | Low Band Edge | | | | | |



01:38:33 02.06.2021



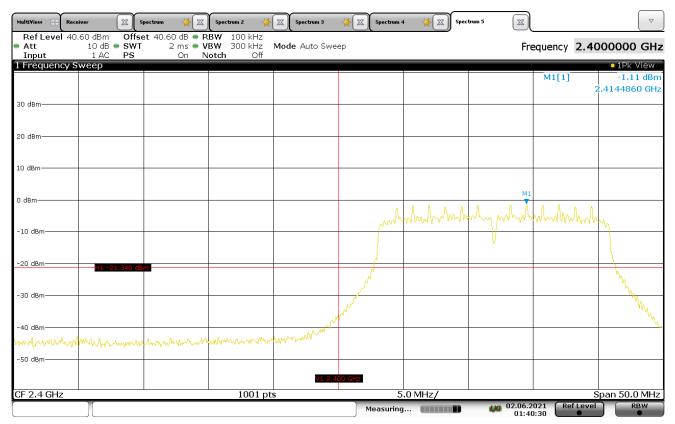
| | Test Details | | | | | | |
|------------------|--------------------|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | |
| EUT | Resideo Thermostat | | | | | | |
| Model No. | Focus Pro | | | | | | |
| Serial No. | 1378290 | | | | | | |
| Mode | 802.11n | | | | | | |
| Frequency Tested | 2402MHz, MCS1 | | | | | | |
| Notes | Low Band Edge | | | | | | |

| MultiView 88 | Receiver | Spectrum 🔆 🔀 | Spectrum 2 🛛 🐥 | Spectrum 3 | Spectrum - | 4 🔆 🕅 Spe | trum 5 🛛 🕅 | | |
|---------------------------|---------------------------------------|--------------|----------------|---------------|----------------|----------------|-------------------|---------------|----------------------------|
| Ref Level Att Input | 40.60 dBm Of 10 dB • SV 1 AC PS | | | Mode Auto Swe | ер | | Fr | equency 2.4 | 000000 GHz |
| 1 Frequence | | | | | | | | | ○1Pk View |
| | | | | | | | | M1[1] | -1.34 dBm 2.4144860 GHz |
| 30 dBm | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| 0 dBm | | | | | ۸. | A. A. March | mlug whom | | |
| -10 dBm | | | | | | M Mar 1 Mar 11 | | | |
| -20 dBm | H1 -21.340 | dBm | | | | | | | |
| -30 dBm | | | | | | | | | 1. NA. |
| | | | | ļ. | and the second | | | | "WWw |
| -40 dBm | moment | wanter war | noundar | mmmmm | | | | | 40 |
| -50 dBm | | | | √1 2.4 | DD GHz | | | | |
| CF 2.4 GHz | <u>, I</u> | | 1001 pt | <u>ا</u> د | 5 | .0 MHz/ | 1 | <u> </u> | Span 50.0 MHz |
| | | | 1001 pt | - |) | (| 🚧 02.06.2 01:3 | 2021 Ref Leve | |

01:39:34 02.06.2021



| Test Details | | | | | | |
|------------------|--------------------|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| EUT | Resideo Thermostat | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378290 | | | | | |
| Mode | 802.11n | | | | | |
| Frequency Tested | 2402MHz, MCS2 | | | | | |
| Notes | Low Band Edge | | | | | |



01:40:30 02.06.2021



| Test Details | | | | | |
|------------------|--------------------|--|--|--|--|
| Manufacturer | Astronics | | | | |
| EUT | Resideo Thermostat | | | | |
| Model No. | Focus Pro | | | | |
| Serial No. | 1378290 | | | | |
| Mode | 802.11n | | | | |
| Frequency Tested | 2402MHz, MCS3 | | | | |
| Notes | Low Band Edge | | | | |

| | | | | | | | M1[1] | • 1Pk View -1.23 dB |
|--------|-------------|------|-----------|---|---|--|---------------|------------------------|
| | | | | | | | | 2.4144850 GI |
| 0 dBm | | | | | | | | |
| 0 dBm | | | | | | | | |
| | | | | | | | | |
| I dBm | | | | | | | | |
| | | | | | | L. L | 1 | |
| dBm | | | | | 1. Nonorala | holy mh | haster to a | .l.a |
| LO dBm | | | | AM AM | NVV AND | | 144200 AAOPAA | WWW |
| | | | | | | V | | |
| 20 dBm | -21.000 dBm | | | | | | | + |
| | | | | لممي ا | | | | |
| 30 dBm | | | | 1 Martin | | | | 1 X |
| 10 dBm | | | | N. C. | | | | |
| Mannan | man | wand | moundance | | | | | |
| | | | | | | | | |

01:41:32 02.06.2021



| Test Details | | | | | |
|------------------|--------------------|--|--|--|--|
| Manufacturer | Astronics | | | | |
| EUT | Resideo Thermostat | | | | |
| Model No. | Focus Pro | | | | |
| Serial No. | 1378290 | | | | |
| Mode | 802.11n | | | | |
| Frequency Tested | 2402MHz, MCS4 | | | | |
| Notes | Low Band Edge | | | | |

| \sim | Receiver | | Spectrum 2 🛛 🔆 | Spectrum 3 | Spectrum 4 | 4 🔆 🕅 Spe | ctrum 5 | | |
|---------------------------|------------------------------------|-----------|----------------|----------------|------------|------------|-------------------|---------------|----------------------------|
| Ref Level Att Input | 40.60 dBm O 10 dB • S 1 AC P | | | Mode Auto Swee | ер | | Fn | equency 2.4 | 000000 GHz |
| 1 Frequenc | | | | | | | | | ⊙1Pk View |
| | | | | | | | | M1[1] | -1.29 dBm 2.4144860 GHz |
| 30 dBm——— | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| 0 dBm | | | | | ···· | halland | Mm mm | Mohala | L. |
| -10 dBm | | | | | | | | | |
| -20 dBm | H1 -21,29 | a dBm | | | | | | | |
| -30 dBm | 11 21.23 | | | | - March | | | | |
| | | | | E | www | | | | marken. |
| -40 abm- | Manan | Monandana | how when how | Markan | | | | | |
| -50 dBm | | | | V1 2.40 |)0 GHz | | | | |
| CF 2.4 GHz | 1 | | 1001 pt | l S | | .0 MHz/ | 1 | ! | Span 50.0 MHz |
| |)[] | | | | | () | 🚧 02.06.2 01:4 | 2021 Ref Leve | |

01:42:43 02.06.2021



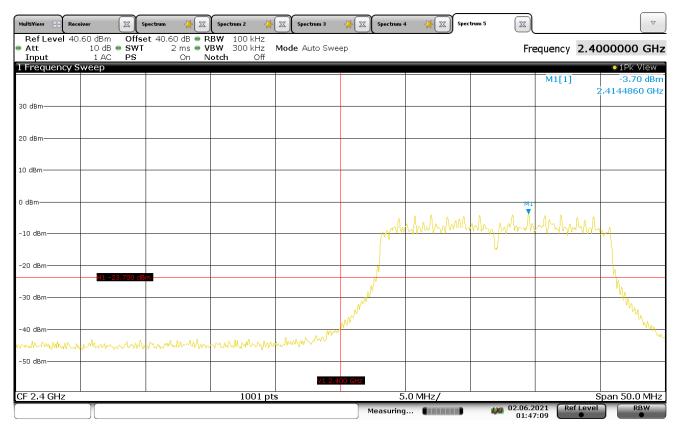
| Test Details | | | | | |
|------------------|--------------------|--|--|--|--|
| Manufacturer | Astronics | | | | |
| EUT | Resideo Thermostat | | | | |
| Model No. | Focus Pro | | | | |
| Serial No. | 1378290 | | | | |
| Mode | 802.11n | | | | |
| Frequency Tested | 2402MHz, MCS5 | | | | |
| Notes | Low Band Edge | | | | |

| | Receiver | | Spectrum 2 🛛 🔆 | Spectrum 3 | Spectrum 4 | i 🎽 🕅 Spe | ctrum 5 | | |
|---------------------------|------------------------------------|--------|----------------|----------------|------------|-----------|-------------------|----------------|----------------------------|
| Ref Level Att Input | 40.60 dBm 0 10 dB • S 1 AC P | | | Mode Auto Swee | ep | | Fn | equency 2.40 | 000000 GHz |
| 1 Frequency | | | | | | | | | ⊙1Pk View |
| | | | | | | | | M1[1] | -1.19 dBm 2.4144860 GHz |
| 30 dBm | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| 0 dBm | | | | | m | hulum | nhy white | MMwhit | M. |
| -10 dBm | | | | | | | V | | |
| -20 dBm | H1 -21,42 | d dB m | | | | | | | 1 |
| -30 dBm | | | | | | | | | No house |
| | | | | and | MM | | | | Manal |
| | manam | mummum | humbard | m mm | | | | | 46 |
| -50 dBm——— | | | | V1 2.40 | 00 GHz | | | | |
| CF 2.4 GHz | 1 | 1 | 1001 pt | s | 5 | .0 MHz/ | 1 | · | Span 50.0 MHz |
| |)[| | | | | | 🙌 02.06.2 01:4 | 021 (Ref Level | - |

01:43:35 02.06.2021



| | Test Details | | | | | |
|------------------|--------------------|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| EUT | Resideo Thermostat | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378290 | | | | | |
| Mode | 802.11n | | | | | |
| Frequency Tested | 2402MHz, MCS6 | | | | | |
| Notes | Low Band Edge | | | | | |



01:47:10 02.06.2021



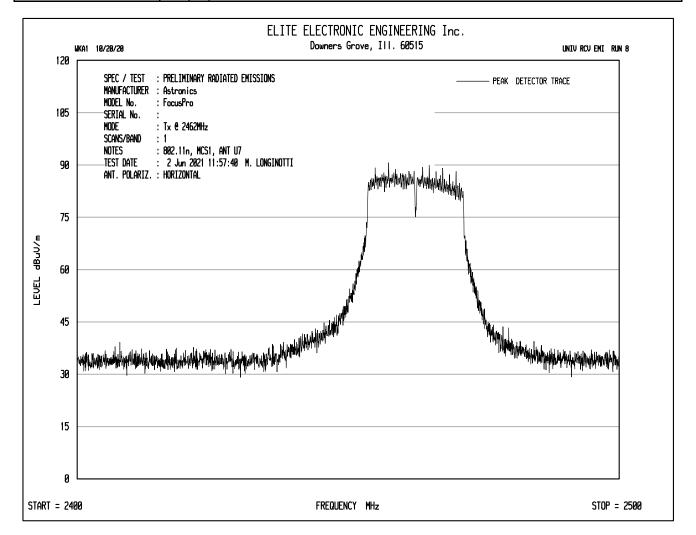
| | Test Details | | | | | |
|------------------|--------------------|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| EUT | Resideo Thermostat | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378290 | | | | | |
| Mode | 802.11n | | | | | |
| Frequency Tested | 2402MHz, MCS7 | | | | | |
| Notes | Low Band Edge | | | | | |

| | | Spectrum 🔆 🔀 | Spectrum 2 🛛 🔆 | Spectrum 3 | Spectrum 4 | s 🔆 🕅 Spec | trum 5 | | |
|-----------------------------|--|----------------|----------------|----------------|------------|------------|-----------------|---------------|----------------------------|
| Ref Level 4 Att Input | 0.60 dBm Offe 10 dB • SW 1 AC PS | | | Mode Auto Swee | p | | Fn | equency 2.40 | 000000 GHz |
| 1 Frequency | | | otten on | | | | | | ●1Pk Max |
| | | | | | | | | M1[1] | -3.49 dBm 2.4144860 GHz |
| 30 dBm | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| 0 dBm | | | | | | | M1 | | |
| -10 dBm | | | | | prob | hunder | my palad | Mr. Walnah | 14g |
| -20 dBm | | | | | | | Ų | | |
| -30 dBm | H1 -23.490 d | | | | , All | | | | h h |
| -40 dBm | | | | Ale | MAN | | | | March Mar |
| hannan | mmmmm | when have made | mount | Munhante | | | | | |
| -50 dBm——— | | | | √1 2.40 | 00 GHz | | | | |
| CF 2.4 GHz | <u> </u> | | 1001 pt | <u> </u> | 5 | .0 MHz/ | 1 | <u> </u> | Span 50.0 MHz |
| |)[] | | 1001 pc | - |) | (| 02.06.2 01:4 | 021 Ref Level | |

01:46:21 02.06.2021

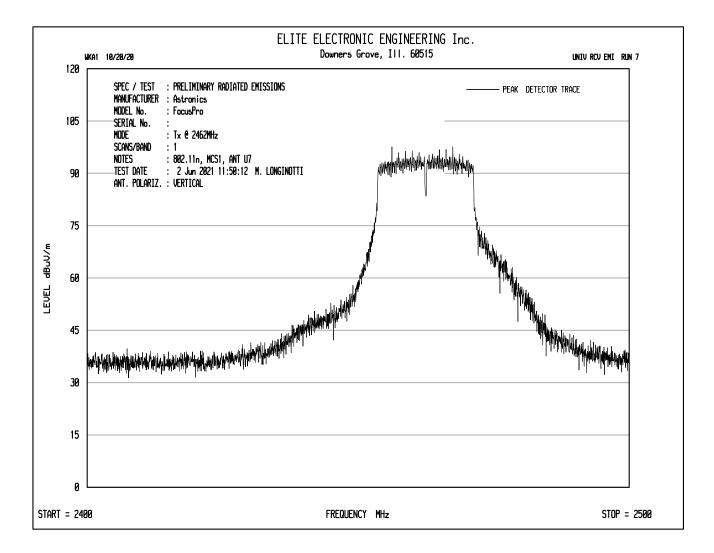


| | Test Details | | | | | |
|-------------------|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378317 | | | | | |
| Mode | 802.11n- MCS1 | | | | | |
| Carrier Frequency | 2462MHz | | | | | |
| Parameters | Peak Measurements at the High Band Edge | | | | | |
| Notes | Antenna U7; Power Setting = 87 Duty Cycle Factor = 0.46 | | | | | |





| | Test Details | | | | | |
|-------------------|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378317 | | | | | |
| Mode | 802.11n– MCS1 | | | | | |
| Carrier Frequency | 2462MHz | | | | | |
| Parameters | Peak Measurements at the High Band Edge | | | | | |
| Notes | Antenna U7; Power Setting = 87 Duty Cycle Factor = 0.46 | | | | | |





| | Test Details | | | | | |
|-------------------|---|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378317 | | | | | |
| Mode | 802.11n- MCS1 | | | | | |
| Carrier Frequency | 2462MHz | | | | | |
| Parameters | Peak Measurements at the High Band Edge | | | | | |
| Notes | Antenna U7; Power Setting = 87 | | | | | |
| 10003 | Duty Cycle Factor = 0.46 | | | | | |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | CBL Fac (dB) | Ant Fac (dB/m) | 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) |
|--------------|------------|----------------------------|---------|--------------------|----------------------|--------------------|----------------------------------|---------------------------------|---------------------------------|----------------|
| 2484.30 | Н | 23.3 | | 2.7 | 33.1 | 0.0 | 59.1 | 897.5 | 5000.0 | -14.9 |
| 2483.90 | V | 31.0 | | 2.7 | 33.1 | 0.0 | 66.8 | 2177.2 | 5000.0 | -7.2 |



| | Test Details | | | | | |
|-------------------|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378317 | | | | | |
| Mode | 802.11n – MCS1 | | | | | |
| Carrier Frequency | 2462MHz | | | | | |
| Parameters | Average Measurements at the High Band Edge | | | | | |
| Notes | Antenna U7; Power Setting = 87 Duty Cycle Factor = 0.46 | | | | | |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | CBL Fac (dB) | Ant Fac (dB/m) | Pre Amp (dB) | Duty Cycle (dB) | Average Total dBuV/m at 3m | Average Total uV/m at 3 m | Average Limit uV/m at 3 m | Margin (dB) |
|--------------|------------|----------------------------|---------|--------------------|----------------------|--------------------|-----------------------|-------------------------------------|------------------------------------|------------------------------------|----------------|
| 2484.30 | Н | 8.5 | Ambient | 2.7 | 33.1 | 0.0 | 0.5 | 44.7 | 172.2 | 500.0 | -9.3 |
| 2483.90 | V | 12.6 | Ambient | 2.7 | 33.1 | 0.0 | 0.5 | 48.8 | 276.0 | 500.0 | -5.2 |



30. Power Spectral Density

| EUT Information | | | | | |
|-----------------|---------------------------|--|--|--|--|
| Manufacturer | Astronics | | | | |
| Product | Resideo Thermostat | | | | |
| Model No. | Focus Pro | | | | |
| Serial No. | 1378290 | | | | |
| Mode | 802.11b, 802.11g, 802.11n | | | | |

| Test Information | | | | | |
|--------------------|-------------------|--|--|--|--|
| Setup Format | Tabletop | | | | |
| Measurement Method | Antenna Conducted | | | | |
| Notes | None | | | | |

Requirements

The power spectral density from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

Procedures

- 1) The antenna port of the EUT was connected to the spectrum analyzer through a 20dB pad.
- 2) The EUT was then placed in the normal operation mode.
- 3) To determine the power spectral density, the following spectrum analyzer settings were used:
 - a) Center Frequency = Transmit Frequency
 - b) Span = 1.5× the DTS (6dB) bandwidth
 - c) Resolution Bandwidth (RBW) = $3kHz \le RBW \le 100kHz$
 - d) Sweep time = Auto
 - e) Detector = Peak
 - f) Trace Function = Max-Hold
- 4) A display line was then placed on the corresponding +8dBm level.
- 5) The analyzers display was then screenshot and saved.



| | Test Details | | | | | |
|--------------|------------------------------|--|--|--|--|--|
| Manufacturer | Astronics | | | | | |
| EUT | Resideo Thermostat | | | | | |
| Model No. | Focus Pro | | | | | |
| Serial No. | 1378290 | | | | | |
| Mode | 802.11b | | | | | |
| Notes | Measured in a 3kHz bandwidth | | | | | |

| Protocol | Freq. (MHz) | Data Rate (Mbps) | Power (dBm) |
|----------|----------------|---------------------|----------------|
| | 2412 | | -3.4 |
| | 2437 | 1 | -3.56 |
| | 2462 | | -3.35 |
| | 2412 | | -3.59 |
| | 2437 | 2 | -3.74 |
| 802.11b | 2462 | | -3.78 |
| 002.110 | 2412 | | -4.63 |
| | 2437 | 5.5 | -3.32 |
| | 2462 | | -2.87 |
| | 2412 | | -4.44 |
| | 2437 | 11 | -3.94 |
| | 2462 | | -4.01 |



| Test Details | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | |
| Model | Focus Pro | | | | | | |
| S/N | 1378290 | | | | | | |
| Mode | 802.11b – 1Mbps | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | |
| Parameters | PSD = -3.4dBm | | | | | | |
| Notes | N/A | | | | | | |

| MultiView 8 | Receiver | x s | Spectrum | Spectrum | 12 🕱 | | | | |
|--------------------------------|-------------------------------------|----------------|------------------------------------|-------------|-----------|-----------------------------|--------------|-------------|--|
| Ref Level 40.6 Att Input | 50 dBm Offs 10 dB SWT 1 AC PS | | | lode Sweep | | | Fred | quency 2.41 | 20000 GHz |
| 1 Frequency Sv | veep | | | | | | | | ⊙1Pk Max |
| | | | | | | | | M1[1] | -3.40 dBm |
| | | | | | | | | 2 | .4127190 GHz |
| 30 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | H1 8,000 dBn | | | | | | | | |
| | | | | | | | | | |
| 0 dBm | | | | | | | | | |
| U UBM | | | | | M1 V | | | | |
| | | | | who when he | Marmingh | | | | |
| -10 dBm | | | - while the with the second second | whenther | Museum | Mar Martin | | | |
| | | diar | And I | 1 | | $ \uparrow \rangle_{\ell}$ | more have | | |
| -20 dBm | | a de contra de | V | | | Y | and when the | | |
| -30 dBm | M | <u>ar</u> | | | | | * *** | | |
| | Mark | | | | | | | No. | |
| -40 dBm | Vm. | | | | | | | Υ. | |
| -50 dBm | \mathbb{V} | | | | | | | | where the second se |
| CF 2.412 GHz | | | 1001 p | ots | 9 | 1 3.0 MHz/ | II | | pan 30.0 MHz |
| | | | 1001 p | /03 | | | 01.06.20 | | |
| | | | | | Measuring | g ())) | 20:19:4 | 49 | |

20:19:50 01.06.2021



| | Test Details | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| Model | Focus Pro | | | | | | | |
| S/N | 1378290 | | | | | | | |
| Mode | 802.11b – 2Mbps | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | |
| Parameters | PSD = -3.59dBm | | | | | | | |
| Notes | N/A | | | | | | | |

| MultiView 88 | eceiver | Spec | trum | X | Spectrum 2 | X | Spectrum 3 | Spectrum - | 4 🔆 🔀 Spec | trum 5 🛛 🔆 🔀 | l | | |
|-----------------------------|----------|---------|--------------------------|--------|-------------|---------|-------------------|---|-----------------|---------------------|-----------|-------|--------------|
| Ref Level 4 Att Input | | SWT | 40.60 dB 223 ms On | | 🛛 10 kHz | Mode | : Sweep | | | F | requency | 2.41 | 20000 GHz |
| 1 Frequency | | | | | | | | | | | | | ●1Pk View |
| | | | | | | | | | | | M | 1[1] | -3.59 dBm |
| | | | | | | | | | | | | | .4126390 GHz |
| 30 dBm | | | | | | | | | | | | | |
| SU UBIII | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | |
| 20 0011 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 10 dBm | | | | | | _ | | | | | | | |
| | H1 8.000 |) dBm — | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | M1 | | | - | | |
| | | | | | | | e e babe | And in | | | | | |
| | | | | | menteradure | "Worky" | And M. Con and M. | A NAME AND A DAY OF A | Mmphallyyyhandy | | | | |
| -10 dBm | | | North | Way of | | | | 1 | | W. | | | |
| | MANN | MM | h M | | | | \ | / | | $ \land \downarrow$ | when when | w. | |
| -20 dBm | Marina | | t. | | | | | | | 1 | | WW P | 4 |
| | 100 | | м | | | | | | | P | | | month |
| -30 dBm | | | | | | | | | | | | | . card |
| all a | | | | | | | | | | | | | N. |
| ∽≁ -40 dBm——— | | | | | | | | | | | | | <u>^∖</u> |
| 40 abiii | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| -50 dBm | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| CF 2.412 GH | z | | | | 1001 p | ots | | 2 | .0 MHz/ | 1 | | S | pan 20.0 MHz |
| | | | | | | _ | | |) (IIIIII) | 1106. | .2021 Ref | Level | RBW |
| | | | | | | | | Measuring | | 20: | 50:33 | • | |

20:50:34 01.06.2021



| | Test Details | | | | | | | |
|-------------------|-------------------|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| Model | Focus Pro | | | | | | | |
| S/N | 1378290 | | | | | | | |
| Mode | 802.11b – 5.5Mbps | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | |
| Parameters | PSD = -4.63dBm | | | | | | | |
| Notes | N/A | | | | | | | |

| MultiView 88 | Receiver | XX s | pectrum | X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum | 4 🔆 🖾 | Spectrum 5 🛛 🦂 | * | | | |
|---------------------------|----------------------------|--------------------|----------------------------|-------|---|-------|------------|------|-----------|------------|------------------|---------|---------|-------|--------------|
| Ref Level Att Input | 40.60 dBm 10 dB 1 AC | SWT | t 40.60 dB 223 ms On | VB | | ۸ode | e Sweep | | | | | Fre | quency | 2.41 | 20000 GHz |
| 1 Frequence | | 10 | 011 | 140 | | | | | | | | | | | ●1Pk View |
| | | | | | | | | | | | | | M | 1[1] | -4.63 dBm |
| | | | | | | | | | | | | | | | .4125790 GHz |
| 30 dBm | | | | | | | | | | | | | | | |
| 00 00. | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | _ | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 10 dBm | H1 8.0 | 000 dBm | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | _ | | | | | | | | | |
| | | | | | | | | M1 | | | | | | | |
| | | | | | mar how | month | monthemal | MANN | Windows | Marahan 10 | | | | | |
| -10 dBm | | | | which | All and a construction of the construction of | - | | | | | * Vall Www. myh. | | | | |
| | | . M | when W | | | | | | | | | moun | My | | |
| -20 dBm | Mod | W ^{RXXII} | | | Ages and the And | | | | | | | | 1. when | line. | |
| 20 0011 | Wanter | | | | | | | | | | | | | " My | 6.1 |
| 11 | WW T | | | | | | | | | | | | | | Mr. |
| -30 dBm | | | | | | _ | | | | | | | | | 144 |
| N. | | | | | | | | | | | | | | | "My |
| J | | | | | | | | | | | | | | | M. |
| , [⊈] 40 dBm—— | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | |
| -50 dBm | | | | | | _ | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| CF 2.412 G | Hz | | | | 1001 p | ts | | | 2 | .0 MHz/ | | | | S | pan 20.0 MHz |
| ſ | | | | | | | | 1 | leasuring | g | D ()() | 01.06.2 | D21 Ref | Level | RBW |
| L | | | | | | | | | | | | 21:11 | :45 | | |

21:11:45 01.06.2021



| | Test Details | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| Model | Focus Pro | | | | | | | |
| S/N | 1378290 | | | | | | | |
| Mode | 802.11b – 11Mbps | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | |
| Parameters | PSD = -4.44dBm | | | | | | | |
| Notes | N/A | | | | | | | |

| MultiView 88 | Receiver | S SF | pectrum | X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum | 4 🛛 🕅 SI | pectrum 5 🛛 🔆 🔀 |) | | |
|---------------------------|----------------------------|----------|----------------------------|----------|----------------------|-------|---------------------|-------------|-----------|---------------------------|---|--------------------|-------|--------------|
| Ref Level Att Input | 40.60 dBm 10 dB 1 AC | SWT | t 40.60 dB 223 ms On | VB | | Mode | Sweep | | | | F | requency | 2.41 | 20000 GHz |
| 1 Frequenc | | 10 | 011 | 140 | | | | | | | | | | ●1Pk View |
| | <u> </u> | | | | | | | | | | | M | 1[1] | -4.44 dBm |
| | | | | | | | | | | | | | | .4128590 GHz |
| 30 dBm | | | | | | | | | | | | | | |
| 30 UBIII | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 20 dBm | | | | | | _ | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10 dBm | | 00 dBm - | | | | _ | | | | | | | | |
| | H1 0.0 | 00 0811 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | M | | | | | | |
| | | | | | | . are | Austria Australia | . washing | well have | . h | | | | |
| -10 dBm | | | | بارين . | upper shall when the | | International Lines | and a state | W Y Y | and the second second for | m | | | |
| | | 1 | aluthar | la de la | | | | 1 | | | the second se | | | |
| | | Juppople | 1 W . | | | | | | | | | mary have | | |
| -20 dBm | - which Mr | Y | | | | | | | | | | | ma | |
| | Aller | | | | | | | | | | | | my | White |
| M | AM | | | | | | | | | | | | | WW A |
| -30 dBm | | | | | | | | | | | | | | Thy . |
| MARINA | | | | | | | | | | | | | | SAM |
| | | | | | | | | | | | | | | |
| 10 4011 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| -50 dBm | | | | | | + | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| CF 2.412 G | Hz | | | | 1001 p | ts | | | 2 | 2.0 MHz/ | | | S | pan 20.0 MHz |
| | T T | | | | | | | 1 | leasurind | g | 🔰 01.06 | .2021 Ref 32:24 | Level | RBW |

21:32:25 01.06.2021



| | Test Details | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| Model | Focus Pro | | | | | | | |
| S/N | 1378290 | | | | | | | |
| Mode | 802.11b – 1Mbps | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | |
| Parameters | PSD = -3.56dBm | | | | | | | |
| Notes | N/A | | | | | | | |

| Multi¥iew 🔠 Ree | eiver 🛛 | Spectrum | Spectrum 2 | Spectrum 3 | 🔆 🕅 Spectrum | 4 🔆 🕅 Spec | :trum 5 🛛 🎽 🕱 | | |
|------------------------------|------------------------------------|--------------------------------|-------------------|-----------------|----------------------|-------------|--------------------|-------------------|---------------------------------------|
| Ref Level 40 Att Input | 0.60 dBm Of 10 dB SW 1 AC PS | | | Mode Sweep | | | Fr | equency 2.4 | 370000 GHz |
| 1 Frequency S | Sweep | | | | | | | | ⊙1Pk View |
| | | | | | | | | M1[1] | -3.56 dBm |
| | | | | | | | | | 2.4375190 GHz |
| | | | | | | | | | |
| 30 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| TO dBm | H1 8.000 d | Bm | | | | | | | |
| | | | | | | | | | |
| 0 dBm | | | | | | | | | |
| U UBIII | | | | | M1 | | | | |
| | | | | William and Mar | A Markan in the rich | March 11 | | | |
| -10 dBm | | | and water and the | Mention dans | N. abhilte de | manutations | When the second | | |
| 10 0011 | | Value Mand | - Marine - | | 1 | | ACACOMMANN' | | |
| | . A Walt | [™] Ni I ^r | | 4 | 1 | | 1 V J | Mar at | |
| -20 dBm | Hrad Why with | <u> </u> | | | | | L d | And Marken Marken | |
| | h-ha | 1 V | | | 1 | | I V | [MA | were where a |
| JULIAN CONTRACT | | | | | | | | | Wu . |
| -30 dBm | | | | | | | | | 141 |
| J ^{AC} | | | | | | | | | |
| W.M. | | | | | | | | | Ny. |
| -40 dBm | | | | | | | | | ۶۷V |
| | | | | | | | | | |
| | | | | | | | | | |
| -50 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| CF 2.437 GHz | 1 | | 1001 | nts | | 2.0 MHz/ | Í. | 1 | Span 20.0 MHz |
| | | | 1001 | p.co | | | 110 01.06.2 | | · · · · · · · · · · · · · · · · · · · |
| | | | | | Measuring | g | 20:3 | 8:56 | |

20:38:57 01.06.2021



| | Test Details | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| Model | Focus Pro | | | | | | | |
| S/N | 1378290 | | | | | | | |
| Mode | 802.11b – 2Mbps | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | |
| Parameters | PSD = -3.74dBm | | | | | | | |
| Notes | N/A | | | | | | | |

| MultiView 88 | Receiver | X | pectrum | X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum | 4 🔆 🕅 Spe | ectrum 5 🛛 🔆 🔀 | | | |
|---------------------------|--|----------|----------------------------|-------|-----------------------|--------|------------|-----------|------------|-----------|----------------|----------|--------------|--|
| Ref Level Att Input | 40.60 dBm 10 dB 1 AC | | t 40.60 dB 223 ms On | ● VBV | V 10 kHz | Mode | Sweep | | | - | F | requency | 2.43 | 370000 GHz |
| 1 Frequence | | | | | | | | | | | | | | ⊙1Pk View |
| | | | | | | | | | | | | N | 11[1] | -3.74 dBm |
| | | | | | | | | | | | | | | .4360410 GHz |
| aa daw | | | | | | | | | | | | | | |
| 30 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | |
| 20 0011 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | |
| | H18 | .000 dBm | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | M | | | | | | | |
| | | | | | | | I I TAK | 1000 | a state of | | | | | |
| | | | 6.5 | . 6 | and and so that My My | Strate | your my | - All the | MANANA | mulhudown | Ali ar | | | |
| -10 dBm | | h | | Abor | malyalarval | | 1 | 1 | | | Mr. M. | | | |
| | M | howww | Ν/ – | | | | | 1 | | | | MMMM | M | |
| -20 dBm | . all Marthe | | | | | | | | | | + | | - Profestory | A |
| | on the second se | | | | | | | | | | V | | | M. W. Way |
| -30 dBm | | | | | | | | | | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| N | | | | | | | | | | | | | | M. |
| 140 dBm | | | | | | | | | | | | | | <u> </u> |
| 10 dBill | | | | | | | | | | | | | | · |
| | | | | | | | | | | | | | | |
| -50 dBm | | | | | | | | | | | | _ | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| CF 2.437 G | Hz | | 1 | | 1001 | pts | | 1 | 2 | .0 MHz/ | | 1 | S | pan 20.0 MHz |
| r | | | | | | | | | | (| 100 01.00 | | f Level | |
| L | | | | | | | | | casaning | | 20 | :59:37 | • | |

20:59:37 01.06.2021



| | Test Details | | | | | | | | |
|-------------------|-------------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11b – 5.5Mbps | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | |
| Parameters | PSD = -3.32dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 88 | Receiver | X | pectrum | X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | 4 🔆 🖾 | Spectrum 5 | ×X | | | |
|---------------------------|----------------------------|----------|----------------------------|----------|-----------------|-------|------------------------|--------------|------------|------------------|------------|----------|---------|---------------|--|
| Ref Level Att Input | 40.60 dBm 10 dB 1 AC | SWT | t 40.60 dB 223 ms On | 🗢 VB' | W 10 kHz | Mode | Sweep | | | | | Fn | equency | 2.43 | 370000 GHz |
| 1 Frequence | | 10 | 011 | 140 | | | | | | | | | | | ●1Pk View |
| · · · · | <u> </u> | | | | | | | | | | | | M | 1[1] | -3.32 dBm |
| | | | | | | | | | | | | | | | .4380990 GHz |
| aa daw | | | | | | | | | | | | | | | |
| 30 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 10 dBm | | .000 dBm | | | | | | | | | | | | | |
| | 110 | .000 ubm | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | M1 ▼ | | | | | | |
| | | | | | | and - | an an ar bhan sha ar A | a Marchale | Aller | de la color | | | | | |
| -10 dBm | | | | لاستيسيع | AMAMANA | vvr | Achd | and a second | Maran | and worth Annual | WAA ANA | | | | |
| | | | achyman | 101 F | | | | | | | · • • • • | Mary and | | | |
| | | WWWAR | | | | | | | | | | | moun. | | |
| -20 dBm | ANWARA | | | | | _ | | | | | | | - My | welly Alma | |
| . Lw | NV | | | | Amerikanika | | | | | | | | | | Mar . |
| -30 dBm | | | | | | | | | | | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| . Jan | | | | | | | | | | | | | | | WW. |
| -40 dBm | | | | | | | | | | | | | | | |
| TO GBII | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| -50 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| CF 2.437 G | Hz | | | | 1001 | ots | | | 2 | .0 MHz/ | | | | S | pan 20.0 MHz |
| | | | | | | | | N | leasuring | j (****** | | 01.06.2 | 2021 Re | f Level | RBW |
| <u> </u> | | | | | | | | | | | | 21:2 | 0:32 | | |

21:20:33 01.06.2021



| | Test Details | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11b – 11Mbps | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | |
| Parameters | PSD = -3.94dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 🔠 Rece | iver 🛛 🕅 | Spectrum 2 | Spectrum 2 | Spectrum 3 | Spectrum - | 4 🦂 🕅 Spec | :trum 5 🛛 🔆 🔀 | | ▽) |
|----------------------|--------------------------|--|-----------------|--|------------|-------------------|---------------------|-------------|---|
| Ref Level 40. Att | .60 dBm Offs 10 dB SW | set 40.60 dB ● T 223 ms ● ' | | Mode Sweep | | | Fn | equency 2.4 | 370000 GHz |
| Input | 1 AC PS | | Notch Off | | | | | | |
| 1 Frequency S | weep | | | | | | | | ●1Pk View |
| | | | | | | | | M1[1] | -3.94 dBm |
| | | | | | | | | | 2.4367800 GHz |
| 30 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| 10 0611 | H1 8.000 dB | m | | | | | | | |
| | | | | | | | | | |
| 0 dBm | | | | | | | | | |
| | | | | Ţ | | | | | |
| | | | | Mannanan | Merrinahan | Albertonderingen | L. | | |
| -10 dBm | | up the Walk of the general second sec | Mar Maria S. 10 | and the second sec | | - ALCO AN ADDREAM | Mon White way a way | | |
| | Mark . | And Walkery | | | | | - TANK | WW. | |
| -20 dBm | - Annthe | | | | | | | myhula | |
| 20 0011 | Martin | | | | | | | | Wand Longer |
| L. WINNE | | | | | | | | | Munk |
| -30 dBm | | | | | | | | | - mt |
| Nº. | | | | | | | | | N. W. |
| Mar | | | | | | | | | Nu Nu |
| №40 dBm | | | | | | | | | ų, su |
| | | | | | | | | | |
| -50 dBm | | | | | | | | | |
| So dbin | | | | | | | | | |
| | | | | | | | | | |
| CF 2.437 GHz | I | | 1001 p | ots | 2 | L.0 MHz/ | <u> </u> | <u> </u> | Span 20.0 MHz |
| | Υ | | 1001 | |) | | 1106.2 | | · · · · · · · · · · · · · · · · · · · |
| L | | | | | measuring | j | 21:4 | 0:19 | |

21:40:19 01.06.2021



| | Test Details | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11b – 1Mbps | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | |
| Parameters | PSD = -3.35dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 88 | Receiver | X | Spectrum | X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | 4 🔆 🖾 SI | ectrum 5 🛛 🔆 🛛 | Z | | |
|---------------------------|--|----------------------------|----------------------------|---------------------|--------------------------|-------|---------------|----------|------------|----------------|-----------------|-----------|---------|---------------|
| Ref Level Att Input | 10 | Bm Offs dB SW1 AC PS | et 40.60 df 223 m Oi | s 🖷 VB | W 10 kHz | Mode | sweep | | | - | | Frequency | 2.46 | 520000 GHz |
| 1 Frequence | | | | | | | | | | | | | | ●1Pk View |
| | | | | | | | | | | | | N | 11[1] | -3.35 dBm |
| | | | | | | | | | | | | | | 2.4613210 GHz |
| 30 dBm | | | | | | | | | | | | | | |
| 30 dBm- | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | |
| 20 0011 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | |
| | | 1 8.000 dBi | n | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | M1 | | | | | | | |
| | | | | | | | 1 | de. | | | | | | |
| | | | | | - he washing | month | Mr. Marine M. | الاستقار | Manut | annound | N. L. N. I. | | | |
| -10 dBm | | | Nº Nº | 1 th degraph of the | anter anter and a second | | <u>1</u> | | | 0.00 () [[] | ma wand | | | |
| | | MARINA | m / | | | | | 1 | | | N N | MANNALTH | Mary | |
| -20 dBm | M | | | | | | | | | | 1 | | | M. |
| 20 JOHN WWW | <i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | | | | u | | | Month March |
| -30 dBm | | | | | | | | | | | | | | here . |
| Jaw | | | | | | | | | | | | | | N. |
| -40 dBm | | | | | | | | | | | | | | ~ |
| 10 0.011 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| -50 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| CF 2.462 G | iHz | | | | 1001 | pts | | | 2 | .0 MHz/ | | | | pan 20.0 MHz |
| | | | | | | | | | | | 1)(01.0 | | f Level | |
| L | Л | | | | | | | M | easuring | | 2 | 0:44:52 | • | |

20:44:53 01.06.2021



| | Test Details | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11b – 2Mbps | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | |
| Parameters | PSD = -3.78dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 88 | Receiver | X | pectrum | X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum | 4 🔆 🕅 S | pectrum 5 🛛 🔆 | | | |
|---------------------------|----------------------------|----------|----------------------------|-------------|------------|------|--------------|-------------|----------|---------|--------------------|---------------------------|----------|---------------|
| Ref Level Att Input | 40.60 dBm 10 dB 1 AC | | t 40.60 dB 223 ms On | VBV | 🛿 10 kHz | Mode | sweep | | | | | Frequency | 2.46 | 520000 GHz |
| 1 Frequence | | | | | | | | | | | | | | ●1Pk View |
| | | | | | | | | | | | | Ň | 41[1] | -3.78 dBm |
| | | | | | | | | | | | | | | 2.4611210 GHz |
| 00 d0 | | | | | | | | | | | | | | |
| 30 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | |
| 20 0011 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | |
| | HIE | .000 dBm | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | MI | | | | | | | |
| | | | | | | an 1 | | المديد ا | | | | | | |
| | | | | | hersterner | Why | Mr. Alan and | North March | walnut | Muluhan | 6 | | | |
| -10 dBm | | | /^* | April April | 002-00-1 | | | 1 | | | - Marth - Alerthan | | | |
| | where the part of the los | handlin | M/ | | | | | 1 | | | No No | particular and the second | ٨. | |
| -20 dBm | J. Mayour | | \square | | | | | | | | - Y | / | - June | As a |
| 1444 | AND CONTRACT | | V V | | | | | | | | \ \ | | | Mulunday |
| -30 dBm | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | Y. |
| 40 dBm | | | | | | | | | | | | | | 1 |
| to abiii | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| -50 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| CF 2.462 G | Hz | | | | 1001 | ots | | | 2 | .0 MHz/ | 1 | | 5 | Span 20.0 MHz |
| | | | | | | | | | | j (| 1X 01. | 06.2021 R | ef Level | |
| L | | | | | | | | | casaring | | 2 | 1:05:33 | • | |

21:05:33 01.06.2021



| | Test Details | | | | | | | | | |
|-------------------|-------------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11b – 5.5Mbps | | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | | |
| Parameters | PSD = -2.87dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| MultiView 88 | Receiver | X s | pectrum | X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | 4 🔆 🕅 S | pectrum 5 🔹 | ×x | | | |
|---------------------|--------------------|------------|----------------------|-------|-------------------|-------|---------------|------------|------------|-----------------------------|-----------------------------|-------------|---------|---------|---------------|
| Att | 40.60 dBm 10 dB | S₩T | t 40.60 dB 223 ms | 🗢 VB | W 10 kHz | Mode | Sweep | | | | | Fre | equency | 2.46 | 520000 GHz |
| Input 1 Frequend | 1 AC V Sweep | PS | On | INC | otch Off | | | | | | | | | | ●1Pk View |
| | | | | | | | | | | | | | M | 1[1] | -2.87 dBm |
| | | | | | | | | | | | | | | | 2.4621000 GHz |
| 30 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | |
| | H1 8.0 | 000 dBm | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | V | | | | | | | |
| | | | | | | duran | Marynuthistry | Mapleville | and haven | underes Alexan | | | | | |
| -10 dBm | | | A. Market | Anton | WWW wand in other | • | | | | and the second of the state | Month and the second second | and a | | | |
| | | 1. Durchal | Munimum | | | | | | | Window Neighende | | where where | Mulling | | |
| -20 dBm | have | Week 1 | | | | | | | | | | | . JARAM | Martin | |
| | have when | | | | | | | | | | | | | -own | M |
| -30 dBm | | | | | | | | | | | | | | | - MAN |
| -30 ubm | | | | | | | | | | | | | | | er al |
| Jul 1 | | | | | | | | | | | | | | | JN N |
| √-40 dBm | | | | | | | | | | | | | | | \ |
| | | | | | | | | | | | | | | | |
| -50 dBm | | | | | | | | | | | | | | | |
| 50 dbm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| CF 2.462 G | Hz | | 1 | | 1001 | ots | | 1 | 2 | .0 MHz/ | | | 1 | 5 | pan 20.0 MHz |
| | | | | | | | | M | 1easuring | j (111111 | 1,0 | 01.06.2 | 021 Re | f Level | RBW |

21:26:12 01.06.2021



| | Test Details | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11b – 11Mbps | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | |
| Parameters | PSD = -4.01dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 88 Receiver | r 🖾 s | pectrum 🛛 | Spectrum 2 | Spectrum 3 | Spectrum 4 | 4 🔆 🕅 Spec | trum 5 🛛 🔆 🔀 | | |
|---|-------------------------------------|--|------------------|---|---------------|---------------|---------------------------------|------------------------|---------------|
| | 0 dBm Offse 10 dB SWT 1 AC PS | t 40.60 dB ● RI 223 ms ● VI On N | | lode Sweep | | | Fre | equency 2.46 | 520000 GHz |
| 1 Frequency Swo | | | | | | | | | ●1Pk View |
| | | | | | | | | M1[1] | -4.01 dBm |
| | | | | | | | | | 2.4614210 GHz |
| 30 dBm | | | | | | | | | |
| 30 ubm | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| 20 00.0 | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| | H1 8.000 dBm | | | | | | | | |
| | | | | | | | | | |
| 0 dBm | | | | M1 | | | | | |
| | | | | have been | | | | | |
| 10.10 | | | a month half and | on all states and a second states and a | WHEN NO VENER | Martholomente | | | |
| -10 dBm | | La Laborary happened | | | | | White White and a second second | | |
| | . Walter | How we are | | | | | | they a | |
| -20 dBm | A BOT STOL | | | MI | | | | W. Why | |
| Lo doni | ηγ.vr. | | | | | | | - and the second | testa |
| Nº4 | | | | | | | | | "Why |
| -30 dBm | | | | | | | | | "allow |
| and the second se | | | | | | | | | Nr. |
| June 1 | | | | | | | | | "hos |
| ^V -40 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| -50 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | 1001 | - | | | | ļ | |
| CF 2.462 GHz | | | 1001 pt | S | | .0 MHz/ | 04.06.0 | | Span 20.0 MHz |
| | Л | | | | Measuring | J () | 1.06.2 21:5 | 2021 Ref Level 7:18 | |

21:57:19 01.06.2021



| | Test Details | | | | | | | |
|--------------|------------------------------|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | |
| Model | Focus Pro | | | | | | | |
| S/N | 1378290 | | | | | | | |
| Mode | 802.11g | | | | | | | |
| Notes | Measured in a 3kHz bandwidth | | | | | | | |

| Protocol | Freq. (MHz) | Data Rate (Mbps) | Power (dBm) |
|----------|---------------------|---------------------|------------------|
| | 2412 2437 | 6 | -13.35 -12.88 |
| | 2462 2412 | | -13.44 -13.42 |
| | 2437 | 9 | -12.15 |
| | 2462 2412 | | -13.19 -14.52 |
| | 2437 2462 | 12 | -13.57 -12.96 |
| | 2412 | | -13.46 |
| 000.44 | 2437 2462 | 18 | -14.11 -12.52 |
| 802.11g | 2412 | 24 | -13.32 |
| | 2437 2462 | 24 | -12.45 -13.19 |
| | <u>2412</u> 2437 | 36 | -12.89 -13.06 |
| | 2462 | | -12.32 |
| | 2412 2437 | 48 | -13.24 -12.04 |
| | 2462 | | -13.51 |
| | 2412 2437 | 54 | -17.01 -17.29 |
| | 2462 | | -16.72 |



| | Test Details | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11g – 6Mbps | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | |
| Parameters | PSD = -13.35dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 88 | Receiver | SX SI | pectrum | ¥X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔆 🖾 | Spectrum 5 | ×x | | | | ▽ |
|---------------------------|----------------------------|---------------------|----------------|---------------|--------------------|---------|------------|-------------|--------------|----------|-------------------|-------------|---------|---------|----------|--------|
| Ref Level Att Input | 40.60 dBm 10 dB 1 AC | S₩T | | ns 🗢 VE | | Mode | Sweep | | | | | Fre | equency | 2.41 | 20000 | GHz |
| 1 Frequency | | | | | in the second | | | | | | | | | | ⊙1Pk V | /iew |
| | | | | | | | | | | | | | M1[1] | | -13.35 | |
| | | | | | | | | | | | | | | 2 | .4166950 | |
| | | | | | | | | | | | | | | Ĩ | | 0.0112 |
| 30 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | | |
| TO UBIII | H1 8.0 | 00 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | |
| 0 ubiii | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | w | | | | | |
| 10 0.011 | | | | | | | | | | | | | | | | |
| | u ha ta | | N.M. M. D. | MNW | MAMAA | a the s | MAMA | Alus | MAA | LI AND. | not the A | nMhr | AN | на в | | |
| -20 dBm | P4 / 1. M. / M. / M. | $\Delta \Delta \mu$ | <u>M N N N</u> | <u>1 M M.</u> | <u>Y Y Y Y Y Y</u> | ANV. | VVVV | JW Y | <u> vvvr</u> | A MARINE | <u> 2 W W Y I</u> | <u>NYYY</u> | VAA | ዮንፖኒ | Δ | |
| | 1 1 1 1 1 | | · • | 10 | | | 1 - N | | | [` | P P | 1 I. I. I. | | · • • | | |
| | | | | | | | | / | | | | | | | | |
| -30 dBm | | | | | | | * | · · · · · · | | | | | | | M | |
| 1 | | | | | | | | | | | | | | | U. | |
| K (* M | | | | | | | | | | | | | | | Nº Mad | |
| -40 dBm | | | | | | | | | | | | | | | · | 1 Mar |
| Mal A | | | | | | | | | | | | | | | | work. |
| | | | | | | | | | | | | | | | | |
| -50 dBm | | | | | | | | | | | | | | | | - |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| CF 2.412 GH | z | | | | 1001 | ots | | | 2 | .0 MHz/ | | | · | S | pan 20.0 | MHz |
| ſ | | | | | | | | | leasuring | | n (| 02.06.2 | 2021 Re | f Level | | 3W |
| L | Л | | | | | | | | | | - | 00:23 | 2:56 | • | | |

00:22:57 02.06.2021



| | Test Details | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11g – 9Mbps | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | |
| Parameters | PSD = -13.42dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 88 | Receiver | X | Spectrum | | Spectrum 2 | X | Spectrum 3 | *** | Spectrum 4 | 4 🔆 🖾 | Spectrum 5 | * | | | |
|---------------------------|----------|-----------|-----------------|---------|--------------|--------|------------------|-----------|-------------|------------|------------|------------------|----------|----------------------|--------------|
| Ref Level Att Input | 10 c | | et 40.60 223 | ms 🖷 V | | Mode | e Sweep | | | | | Fre | equency | 2.41 | .20000 GHz |
| 1 Frequence | | | | | oten on | | | | | | | | | | ●1Pk View |
| | | | | | | | | | | | | | M1[1] | | -13.42 dBm |
| | | | | | | | | | | | | | | 2 | .4138580 GHz |
| 30 dBm | | | _ | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 20 dBm | | | - | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | |
| 10 ubiii | HI | 8.000 dBr | n | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | M1 V | | | | | | |
| | | k iM | | A M H . | N an A B M A | . Is h | nulana | 6 16 16 1 | uhh A | . 6 1 6. 6 | All de a | m de 18 M | Δ | 10 M | |
| -20 dBm | AAN | YmyAll | | ANYA | <u>MUWW</u> | M.M.M. | <u>wantuk ta</u> | LAW. | <u>₩'₩₩</u> | han and | MUY VV | my ynyr | 1/1AM | $\gamma\gamma\gamma$ | <u>M</u> |
| | 11. | | | | 1 1 | | | \{ \{ | | 1 1 1 1 | · · · · | 1.1 | a e de e | Y ' ' | 1 |
| | | | | | | | 1 | | | | | | | | |
| -30 dBm | w/ | | | | | | | 1 | | | | | | | Δ. |
| N/ | ч | | | | | | | | | | | | | | MAA |
| -40 dBm | | | | | | | | | | | | | | | I MA |
| WWW T | | | | | | | | | | | | | | | i v vv |
| 1 | | | | | | | | | | | | | | | T |
| -50 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| CF 2.412 G | iHz | | | | 1001 | pts | | | | .0 MHz/ | | 00.06.0 | | | pan 20.0 MHz |
| l | Л | | | | | | | N | 1easuring | | • | 02.06.2 00:34 | 1:13 Re | f Level | RBW |

00:34:13 02.06.2021



| | Test Details | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11g – 12Mbps | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | |
| Parameters | PSD = -14.52dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 88 | Receiver | X | Spectrum | | Spectrum 2 | X | Spectrum 3 | *** | Spectrum 4 | 4 🔆 🖾 | Spectrum 5 | × 🕅 | | | |
|------------------|------------------|-------------|----------|--------------------|-----------------|-------------|--------------|-----------|------------|----------|------------|--------------|-----------------|---------|--------------|
| Ref Level Att | 40.60 dB 10 d | | et 40.60 |) dB 🖷 R ms 🖷 V | | Mode | Sweep | | | | | Fn | equency | 2.41 | 20000 GHz |
| Input | 1 A | AC PS | | | lotch Off | | | | | | | | oquene, | | |
| 1 Frequence | sy Sweep |) | | | | | | | | | | | _ | | ●1Pk View |
| | | | | | | | | | | | | | M1[1] | | -14.52 dBm |
| | | | | | | | | | | | | | | 2 | .4179140 GHz |
| 30 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | |
| | | L 8.000 dBr | n — | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 0 dBm | | | - | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | | |
| -10 uBm | | | | | | | | | | | | м | 1 | | |
| | | 11 JL A | A M. M. | A no dia | A A L L L I | <u>х</u> и. | a ha h na na | Sec. A. A | LA A M | Non MA | A Numb | . In he that | Ma | ا د ه ا | |
| -20 dBm | -N/14-14- | MM AM | MAA | <u>AMMA</u> | (\mathcal{W}) | 4 May May 1 | WVVV | L WY | <u>WWW</u> | LAYACV V | 4 Y VY | VVV₩ | MAAM | WAA | Δ |
| | - p y v m | i pi vi ri | 1.6 | en y | p • • • • | | 11.1 | 11 1 1 | 1 | | 1 F - 1 | 11. | 1 ° Y - 1 | וייי | |
| | | | | | | | | N I | | | | | | | |
| -30 dBm | | | - | | | | | | | | | | | | N |
| m | ¥ | | | | | | | | | | | | | | Ma |
| -40,dBm | | | | | | | | | | | | | | | The second |
| MW | | | | | | | | | | | | | | | 1 Min |
| N | | | | | | | | | | | | | | | |
| -50 dBm | | | | | + | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| CF 2.412 G | Hz | | | | 100 | l pts | | | 2 | .0 MHz/ | | | | | pan 20.0 MHz |
| [| | | | | | | | N | 1easuring | (| | 02.06.2 | 2021 Re 7:04 | f Level | RBW |

00:37:05 02.06.2021



| | Test Details | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11g – 18Mbps | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | |
| Parameters | PSD = -16.72dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 88 | Receiver | X | Spectrum | × 🕅 | Spectrum 2 | X | Spectrum 3 | *** | Spectrum 4 | 4 🔆 🕅 SI | ectrum 5 🛛 🐳 | X | | |
|----------------------|-------------------|--------------|-------------|-------------------------|-------------------------|--------|---------------------------------------|--------|------------------------|----------------|----------------|--|-----------------|---------------|
| Att | 40.60 dBr 10 d | 3 SWI | | ms 👄 VE | 3W 10 kHz | Mode | Sweep | | | - | | Freque | ency 2.4 | 120000 GHz |
| Input 1 Frequence | | C PS | | On No | otch Off | | | | | | | | | o1Pk View |
| | ., e | | | | | | | | | | | M | 11[1] | -16.72 dBm |
| | | | | | | | | | | | | | | 2.4169750 GHz |
| 30 dBm | | | _ | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| oo dhuu | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10 dBm | | 8.000 dBr | 1 | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | M1 | | | |
| | 1001 | MAA | his in an i | N.M.M.A | MMMM | AM1 | MARIA | Jack | | M. M. M. M. M. | (Autura) | 1 M.M.M. | 1 Ano to | h n |
| -20 dBm | J MM V | <u>₩₩₩</u> | Milli Mi A | - In Int Arr | n dur h ha d | 19 - V | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 10 | ₩ 0 L# : | <u> </u> | M ALM M + | <u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u> | ~~~~ | W) |
| | | | | | | | ' I | w/ | | | | | ·) | |
| -30 dBm | | | | | | | | Ψ | | | | | | 1 |
| | | | | | | | | | | | | | | When. |
| -40 dBm | | | | | | | | | | | | | | TWM |
| AWV V | | | | | | | | | | | | | | 1 MA |
| • -50 dBm | | | | | | | | | | | | | | |
| co abiii | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| CF 2.412 G | Hz | | | | 1001 | pts | | | 2 | .0 MHz/ | | | | Span 20.0 MHz |
| [| | | | | | | | N | 1easuring | (| i iya 0 | 2.06.2021 00:39:52 | Ref Leve | |

00:39:52 02.06.2021



| | Test Details | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11g – 24Mbps | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | |
| Parameters | PSD = -13.32dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 88 | Receiver | X s | pectrum 👌 | X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔆 🕅 s | pectrum 5 🛛 🦂 | * | | | | ▽ |
|---------------------------|----------------------------|---------------------|----------------------------|------------------------|------------|--------|--|----------|------------------------------------|----------|--------------------------|---------|---------|-------|------------|------|
| Ref Level Att Input | 40.60 dBm 10 dB 1 AC | SWT | t 40.60 dB 223 ms On | VB | W 10 kHz I | Mode | Sweep | | | | | Fre | equency | 2.41 | .20000 (| GHz |
| 1 Frequenc | | 13 | OII | NO | | | | | | | | | | | ●1Pk Vie | ew |
| | <u> </u> | | | | | | | | | | | | M1[1] | | -13.32 (| |
| | | | | | | | | | | | | | | 2 | .4091230 | GHz |
| 30 dBm | | | | | | | | | | | | | | | | |
| 50 dbm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 10 dBm | H1 8. | 000 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | |
| o ubm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | Mi | _ | | | | | | | | | | |
| | | | 1. | | | | | | | | | 8. | | | | |
| | W M M W | A A A | n M M Ann | I. M. M. | MARKE | n N. I | MAA AVA | Asher | A. An As | しょうれんかん | A Materia A. A. | A Iu ti | LA MAL | A A | 6 | |
| -20 dBm | MIVYW | $\forall \forall b$ | 1444. | 7 1 | <u> </u> | 17 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 1 / M | $\mathbb{A},\mathbb{A},\mathbb{A}$ | <u> </u> | - ^/ W W W [/ | 147 | 1011 | 1111 | Υ. | |
| | 11 11 | | ''' | | | 1 | · · · · · · · · · · · · · · · · · · · | ∐ ' ` | | | 1 | | r 1 ' | | | |
| -30 dBm | | | | | | _ | k | <u>/</u> | | | | | | | | |
| 1 | | | | | | | | | | | | | | | M.J. | |
| i hN | | | | | | | | | | | | | | | March | |
| -40 dBm | | | | | | | | | | | | | | | | Ann |
| Malau | | | | | | | | | | | | | | | · · · · · | 1999 |
| 50 JD | | | | | | | | | | | | | | | | |
| -50 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| CF 2.412 G | -17 | | | | 1001 p | te | | | · · · | .0 MHz/ | | | | c | pan 20.0 N | ЛНZ |
| GF 2,412 G | | | | | 1001 μ | 1.3 | | | | | | 02.06.2 | 021 Ref | Level | | |
| l | Л | | | | | | | N N | leasuring | | LXI | 00:42 | 2:54 | • | | |

00:42:55 02.06.2021



| | Test Details | | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | |
| Mode | 802.11g – 36Mbps | | | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | | | |
| Parameters | PSD = -12.89dBm | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | |

| Multi¥iew 88 | Receiver | Σ | Spec | trum 👌 | ×X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | ı 🎽 🖾 sı | oectrum 5 🛛 🔆 | X | | | ▽ |
|--------------------------|----------|----------|---------------|--------------------------|--------------------|------------|--------|---------------|-------|--------------|--------------|------------------------|--------------|---------------|------------|---------|
| Ref Leve Att Input | 1 | | WT | 40.60 dB 223 ms On | : 🗢 VB | | Mode | Sweep | | | | | Frequency | 2.41 | .20000 (| GHz |
| 1 Frequen | | | 0 | 011 | 1 140 | | | | | | | | | | ⊙1Pk Vi | ew |
| | · · | | | | | | | | | | | | M1[1] | | -12.89 | |
| | | | | | | | | | | | | | | | .4156960 | GHz |
| 30 dBm | | | | | | | | | | | | | | | | |
| 30 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | | |
| | | AT 8.000 | asm | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | м | 1 | | | | |
| 10 0.000 | | | | | | | | | | | | F | | | | |
| | | ~ 0 | A | λλ | 1 I.a | h Jul | . N. 1 | CILL N. K. J. | 1.1.2 | A | . ha | K.A. | Mr. Jan Ja | 1.1.4 | | |
| -20 dBm | AA | 4.AA | WW | <u>MARIAN</u> | 4 _e β₁M | MAALMA | W. | | LA A. | بالالميرالان | M.M. MWA MAP | ∖∦∖/∖/∖/∖/∖ | AAMAAN | <u>AAA</u> | <u> </u> | |
| | - (W Y | N N V | 1 1 1 | hu Al M | "" ¥ | Andmaa. | THE R | 1. u.kľ | / V " | | e e pi ny | al a a de a l | . v h 4. v A | i v Y m | ή | |
| -30 dBm | | | | | | | | | | | | | | | | |
| MA | N I | | | | | | | | , | | | | | | MAN | |
| -40 dBm+ | | | | | | | | | | | | | | | *. M | MM |
| FO dDay | | | | | | | | | | | | | | | | · · · · |
| -50 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| CF 2.412 (| 20-2 | | | | | 1001 p | | | | | .0 MHz/ | | | | pan 20.0 M | |
| | 2112 | - | | | | 1001 | 115 | | | | | | 06.2021 Re | 5 of Level | | |
| l | | | | | | | | | I N | leasuring | |) 4/0 02. | 00:45:17 | • | | |

00:45:18 02.06.2021



| | Test Details | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11g – 48Mbps | | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | | |
| Parameters | PSD = -13.24dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| MultiView 88 | Receiver | X | Spectrum | * | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | 4 🔆 🕅 Spi | ectrum 5 🛛 🔆 🔀 | | | |
|---------------------------|-----------|-------------|-------------|---------|---|-------|------------|-----------|------------|-------------|----------------|-------------|---------|--------------|
| Ref Level Att Input | 10 | | | ns 🗢 VE | | Mode | Sweep | | | - | | Frequency | 2.41 | 20000 GHz |
| 1 Frequence | | | | | | | | | | | | | | ⊙1Pk View |
| | | | | | | | | | | | | M1[1] | | -13.24 dBm |
| | | | | | | | | | | | | | 2 | .4079440 GHz |
| 30 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10 dBm | | 1 8.000 dBr | n | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | |
| 0 0.011 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| -10 dBm | | | | M | | - | | | | | | | | |
| | | | | | a. | | | | | | | | | |
| | - 1 M | cal at a Mi | W. K. Maltu | A A M | A sult Miller | Uh.M | A. Land | L.A.A. A | i di Aimi | | A MAKAN | IN B WAR | nd A | n |
| -20 dBm | AM | ከለውለኪ | | 4 M V. | V 1/10 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/ | 400.4 | . Willing | 1111 | V TV | | 47 7 7 7 7 M | 1 W W W W | WWW | 1 |
| | 1 1 1 1 1 | | | 1.15 | .0.0.4 | 1 | · · · · | $\Gamma $ | 1.1.1 | r e - J a r | 1 1 | r () | | N . |
| -30 dBm | | | | | | | | | | | | | | |
| | N I | | | | | | | ř | | | | | | (A |
| M | " | | | | | | | | | | | | | 'YUHLA |
| -40, dBm | · | | | | | - | | | | | | | | WWW. |
| WW 1 | | | | | | | | | | | | | | 1 N N |
| -50 dBm | | | | | | | | | | | | | | I I |
| -30 ubm | | - | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| CF 2.412 G | Hz | | | | 1001 p | | | 1 | 2 | .0 MHz/ | | | < | pan 20.0 MHz |
| |) [| | | | 1001 p | | | | | | 🙌 02.0 | 6.2021 (Re | f Level | |
| | . П | | | | | | | 1 | reasuring | | | :48:09 | • | |

00:48:10 02.06.2021



| | Test Details | | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | |
| Mode | 802.11g – 54Mbps | | | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | | | |
| Parameters | PSD = -17.01dBm | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | |

| MultiView 88 | Receiver | X | Spectrum 🐳 | X | Spectrum 2 | Spectrum 3 | × 🕅 | Spectrum | 4 🤆 🕅 Sp | ectrum 5 🛛 🔆 🛛 | K | | | ▽ |
|------------------|--------------------|-----------|-----------------------|-------|------------------|--------------|---------|------------|--------------------|------------------|------------|---------|----------|-------|
| Ref Level Att | 40.60 dBn 10 df | | et 40.60 dB 223 ms | | | ode Sweep | | | | | Frequency | 2 41 | 20000 | GH7 |
| Input | 1 A0 | PS | On | | tch Off | oue oncep | | | | | requency | 2.71 | 20000 | UIIZ |
| 1 Frequence | y Sweep | | | | | | | | | | | | ⊙1Pk V | iew |
| | | | | | | | | | | | M1[1] | | -17.01 | dBm |
| | | | | | | | | | | | | 2 | .4107210 |) GHz |
| 30 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | _ | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10 dBm | | 8.000 dBm | | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | |
| 0 uBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | |
| | | | | | | M1 | | | | | | | | |
| | | | | | | T | | | | | | | | |
| -20 dBm | 11 11 1 | | L . d d t | to to | at a sector to | 1 h H Harr | 1 6 | M x M | and I all | | 40 1 - 0 | 1. 1 | k | |
| | - M A AM | MJM. | AWAJNJ M | MN" | PANANA | EWAY MENENYA | - ANAAN | 17 40 1011 | 111111111111111111 | N 1920 DA WINGLI | ATT WAANT | MAX U | | |
| | - <u>7 4</u> 17 M | n Mirv () | 1.1.6.16.1 | r p | , 1. J. J. L. H. | i kirikiri (| TUNE | i j r | י אורך | Nullander | . N 14 M V | 'Y V V | l M | |
| -30 dBm | | | | | 1 | | | | | | | + | | |
| | w l | | | | | | rr - | | | | | | 14 | |
| -40 dBm | N | | | | | | | | | | | | 19 Male | |
| | · | | | | | | | | | | | | - 19 Ma | dl |
| J. WY | | | | | | | | | | | | | 1 1144 | Mila |
| 150 dBm | | | | | | | | | | | | | | - id |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| CF 2.412 G | Hz | | 1 | | 1001 pt | S | | 2 | .0 MHz/ | I | | S | pan 20.0 | MHz |
| | | | | | | | N | 1easuring | | 1/1 02.0 | 6.2021 Re | f Level | RB | w |

00:51:16 02.06.2021



| | Test Details | | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | |
| Mode | 802.11g – 6Mbps | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | |
| Parameters | PSD = -12.88dBm | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | |

| MultiView 😷 Receiver 🛛 Spectrum 🦂 🖾 Spectrum 2 💢 Spectrum 3 🔆 🖾 Spectrum 4 🔆 🖾 Spectrum 5 🔆 🛣 | |
|--|-----------------------------|
| Ref Level 40.60 dBm Offset 40.60 dB RBW 3 kHz Att 10 dB SWT 223 ms VBW 10 kHz Mode Sweep Frequency | 2.4370000 GHz |
| Input 1 AC PS On Notch Off 1 Frequency Sweep | ●1Pk View |
| M1[1] | -12.88 dBm 2.4428540 GHz |
| 30 dBm | |
| 20 dBm | |
| 10 dBm | |
| | |
| 0 dBm | |
| | |
| -20 dBm ANAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMA | VAM |
| -30 dBm | |
| when he was a second | Mymm |
| χ ^{40[°]äβň} | , mm |
| -50 dBm | |
| CF 2.437 GHz 1001 pts 2.0 MHz/ | Span 20.0 MHz |
| | f Level RBW |

00:20:48 02.06.2021



| | Test Details | | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | |
| Mode | 802.11g – 9Mbps | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | |
| Parameters | PSD = -12.15dBm | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | |

| Multi¥iew 88 | Receiver | | Spectrum | ×x | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔆 🖾 | Spectrum 5 | ×x | | | |
|----------------------|--------------------|-----------|----------|--------------|---------------|------------------|---------------|--------|------------|--------------|------------|-----------------|---------|---------|--------------|
| Att | 40.60 dBm 10 dE | SWT | | ns 👄 VB | W 10 kHz | Mode | Sweep | | | | | Fre | equency | 2.43 | 70000 GHz |
| Input 1 Frequence | | PS | (| Dn No | otch Off | | | | | | | | · · | _ | ●1Pk View |
| Triequenc | у эмеер | | | | | | | | | | | | M1[1] | | -12.15 dBm |
| | | | | | | | | | | | | | | 2 | 4335830 GHz |
| 30 dBm | | | | | | | | | | | | | | | |
| 55 dbm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | _ | | | | | | | | | |
| | H18 | 3.000 dBm | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| -10 dBm | | | | | M1 | | | | | | | | | | |
| | | | h in a | . k s | a ha i m | | she and a | 1 A 1 | 1. | a here bet | Lann a | a hara | | | |
| -20 dBm | NAAA | MAM | MMA I | 11 mm | \mathcal{M} | $\sqrt{\Lambda}$ | <u>MMAAMA</u> | MAG | MAA | M^{γ} | | MAMW | MAN | M | M |
| 20 0011 | / V # W | 4 - 4 - | 1. I W | V I | | | | 1/ ' ' | W a c | с <u>і</u> р | | к. (* | Y Y X Y | V V V | |
| | | | | | | | 1 | V | | | | | | | |
| -30 dBm | Y | | | | | - | | | | | | | | | M |
| L.M. | 1 | | | | | | | | | | | | | | ĭV\ ≬ |
| -40 dBm | | | | | | _ | | | | | | | | | · · · · · |
| (m) | | | | | | | | | | | | | | | r ×γ |
| FO dow | | | | | | | | | | | | | | | |
| -50 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| CF 2.437 G | Hz | | | | 1001 | ots | | | 2 | .0 MHz/ | | | | S | pan 20.0 MHz |
| | | | | | | | | N | leasuring | | . 4 | 02.06.2 00:3 | 021 Re | f Level | |

00:35:26 02.06.2021



| | Test Details | | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | |
| Mode | 802.11g – 12Mbps | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | |
| Parameters | PSD = -13.57dBm | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | |

| MultiView 🔠 | Receiv | rer | 2 | spectrum | × 🕅 | Spectrum | 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔆 🖾 | Spectrum 5 | ×x | | | | ▼ |
|--------------------------|----------------|-------------------------|---------------|----------|---------------------------|----------|----------------------------|------|--------------|----------|------------|--------------|------------|--------------------|---------------|--------------|----------|---------------------|
| Ref Leve Att Input | el 40.6 | 50 dBm 10 dB 1 AC | SWT | 223 | ∣dB ● R ms ● V On N | | kHz kHz N Off | 1ode | Sweep | | | | | Fr | equency | 2.43 | 370000 |) GHz |
| 1 Frequer | ncy Sv | | | | 011 11 | 0.001 | 011 | | | | | | | | | | O1Pk | View |
| | | | | | | | | | | | | | | | M1[1] | | | 7 dBm |
| | | | | | | | | | | | | | | | | 2 | .440716 | |
| 30 dBm | | | | | | | | | | | | | | | | | | |
| 30 dBm- | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | | | | |
| | | H1 8. | UUU dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | | | | | |
| -10 dBm- | | | | | | | | | | | | | M1 | | | | | |
| | | | | L | h. h. h. h | Sec 1 A | | h. a | A. J. M. a. | AL ON A | A same | . A to be so | A. L. A. | h. d. a. d. d | <u>с.</u> к., | L. I | | |
| -20 dBm | M | M A A L | <u> 4 A A</u> | A MA | עשער | VVV | V W V' | MY. | <u>rivin</u> | L MWW | $\sqrt{2}$ | | | <u>"WWW</u> | MAAN | h March | M | |
| | - 1 ľ | A h k | 2.67 | ` | P • 1 | 4 m 4 | Y T | 1 | * • • 1 | 17 | × () | a di A | | | 1 1 1 1 | | | |
| | | | | | | | | | | J) | | | | | | | | |
| -30 dBm | A | | | | | | | | | | | | | | | | | |
| M | / I | | | | | | | | | | | | | | | | l Y∖j , | |
| AN AN | · | | | | | | | | | | | | | | | | WWW I | ulit . |
| -40.dBm | | | | | | | | | | <u> </u> | | | | | | | ų | Mr. |
| or 1 | | | | | | | | | | | | | | | | | | . A n W |
| -50 dBm | | | | | | | | | | | | | | | | | | |
| -30 ubm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| CF 2.437 | | | | | | | 1001 pi | | | | | .0 MHz/ | | | | | pan 20.0 | |
| UF 2,437 U | υΠΖ | | | | | | 1001 p | เร | | | | | - | 110 02.06.2 | 2021 CBa | 5 f Level | | U MHZ |
| l | | Д | | | | | | | | . ► | leasuring | | | 02.06.2 00:3 | 8:09 | ever | | • • |

00:38:09 02.06.2021



| | Test Details | | | | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | | | |
| Mode | 802.11g – 18Mbps | | | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | | | |
| Parameters | PSD = -14.11dBm | | | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | | | |

| Multi¥iew 88 | Receiver | X | Spectrun | • 🔆 | X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔆 🖾 | Spectrum 5 | ×x | | | | ▼ |
|--------------------------|---|---------------------------------------|--|---------------------------|-----|----------------------|------|------------------|-----------|-----------------------|----------|-------------------------|--------------------------|----------------|---------|---------|---------------------|
| Ref Leve Att Input | 1 | | WT 23 | .60 dB ● 23 ms ● On | | VIO kHz N | 1ode | Sweep | | | | | Fre | equency | 2.43 | 370000 |) GHz |
| 1 Frequen | | | | | | | | | | | | | | | | ⊙1Pk | View |
| | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | M1[1] | | | 1 dBm |
| | | | | | | | | | | | | | | | 2 | .431985 | |
| | | | | | | | | | | | | | | | | | |
| 30 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | |
| 20 0011 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | | | |
| | | H1 8.000 | dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | M1 | | | | | | | | | | | | | |
| | | | | | | | | | | | 1 N | | | | | | |
| | A Bar | M.M. N. A | MMA | A.A. N.N | ۱AI | na han ha a | Mad | h Mi Ali Ali Ali | MAA | W.M.A | A M.A.A. | MAAA | MANI | ALAS | 1.1.1 | a l | |
| -20 dBm | MV | M. M. M. | | 1 W W W W | - W | ~~₩₩₩₩₩ ₩ | ᠮ | ᡩ᠉ᠬᢂ | 1 18 19 1 | * 7 /*** 1 | ╔┟┙┟┈┙ | ⊢ nd h. dt × | - 10 - | n <u>n h h</u> | WY | ή | |
| | 11. | Y | 1 | | | | | 1 | 1 | | | | 1 | 1 | 1 | | |
| -30 dBm | | | | | | | | Ŋ | 1 | | | | | | | | |
| -30 ubiii | N | | | | | | | | | | | | | | | - Ma | |
| n (W | $(\cdot \mid \cdot $ | | | | | | | | | | | | | | | - Wiki | 1 |
| -40,d8m | | | | | | | | | | | | | | | | VI | Aller . |
| 1 Martin | | | | | | | | | | | | | | | | | ** Y W |
| 1 | | | | | | | | | | | | | | | | | 1.0 |
| -50 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| CF 2.437 0 | GHz | | | | | 1001 p | ts | | | 2 | .0 MHz/ | | | 1 | S | pan 20. | 0 MHz |
| ſ |) | | | | | | | | | leasuring | | | 02.06.2 | 021 Re | f Level | | RBW |
| L | | l | | | | | | | | | | - | 00:40 | 0:36 | | | • |

00:40:36 02.06.2021



| | Test Details | | | | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | | | |
| Mode | 802.11g – 24Mbps | | | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | | | |
| Parameters | PSD = -12.45dBm | | | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | | | |

| MultiView 88 | Receiver | X | Spectrum | * | Spectrum 2 | X | Spectrum 3 | ** | Spectrum 4 | 4 🔆 🖾 | Spectrum 5 | ×x | | | |
|---------------------------|----------------------------|-----------|-------------|---------|--------------------|-------|------------------|----------|----------------------|----------------|------------|-----------|---------------------|-------------------|--------------|
| Ref Level Att Input | 40.60 dBm 10 dB 1 AC | | | ns 😑 VE | | /lode | Sweep | | | | | Fre | equency | 2.43 | 70000 GHz |
| 1 Frequence | | | | | | | | | | | | | | | ●1Pk View |
| | | | | | | | | | | | | | M1[1] | | -12.45 dBm |
| | | | | | | | | | | | | | | 2 | .4419750 GHz |
| 30 dBm | | | | | | | | | | | | | | | |
| 30 dbm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | _ | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 10 dBm | | .000 dBm | | | | | | | | | | | | | |
| | | .000 0011 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | _ | | | | | | M1 | | | |
| | | | | 1 | | | | | | | | T. | | | |
| | 1110 | A . A | A. M. to Me | 1. 4.1 | LAND A DUN | . A A | word what | N. K. I | N. W. | a treat in the | A & A & | Andred | 1 | a la | al. |
| -20 dBm | <u>_Aby^\Aby</u> ^by | <u>AW</u> | ur nu h | halla | ₩₩₩₽₩₩₩ | ųųų | ⅈ₩₩₩₽ | 1144 | Ar Mark t | 1741/17/PAPA | ୲ୄ୲୰ୄ୲୶ | | Ŋ″₩Ŋ ₩₩₽ | Y MY M | Δ |
| | | 1 / " | 1.0.00 | N V V | 1 - 1 1 - 1 | 1 " | (1))) | 11 1 1 | ¥ 1 | , , , , , | 1.1.1.1.1 | A A | 1 Y ' | N Y Y | |
| | | | | | | | | V | | | | | | | A |
| -30 dBm | | | | | | | | p | | | | | | | M., |
| . h. | 1 | | | | | | | | | | | | | | 1 M.a. |
| -40 dBm | · | | | | | | | | | | | | | | 1 Million |
| NO VIA | | | | | | | | | | | | | | | " MMMA |
| ω., | | | | | | | | | | | | | | | · |
| -50 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| CF 2.437 G | Hz | | <u> </u> | | 1001 p | ts | | | 2 | .0 MHz/ | | | | S | pan 20.0 MHz |
| | T T | | | | | | | | leasuring | j 🗰 💷 💷 | 0 4 | 02.06.2 M | 2021 Ref | fLevel | RBW |

00:43:40 02.06.2021



| | Test Details | | | | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | | | |
| Mode | 802.11g – 36Mbps | | | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | | | |
| Parameters | PSD = -13.06dBm | | | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | | | |

| Multi¥iew 🗧 | Recei | ver | X s | spectrum | * | Spect | rum 2 | X | Spectrum 3 | ×x | Spectrum 4 | 4 🔆 🖾 | Spectrum | s 🔆 🕅 | | | | ▼ |
|-------------------------|----------------|-------------------------|--------------|-----------|---------------------------|---------|--------------------------|-------|------------|---------|----------------------------------|----------------|---------------|----------------|---------|---------|----------|---------------------|
| Ref Lev Att Input | /el 40. | 50 dBm 10 dB 1 AC | SWT | 223 | dB • R ms • VI On N | | 3 kHz L0 kHz 1 Off | Mode | Sweep | | | | | Fre | equency | 2.43 | 370000 | GHz |
| 1 Freque | ency Sv | | РЭ | | ON N | σταπ | Oli | | | | | | | | | | ⊙1Pk | View |
| | | | | | | | | | | | | | | | M1[1] | | | 6 dBm |
| | | | | | | | | | | | | | | | | 2 | .438259 | |
| 30 dBm | | | | | | | | | | | | | | | | | | |
| oo abiii | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | | | | |
| TO UBIN | | H1 8.0 | 000 dBm | | | | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | - | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | 64.1 | | | | | | | |
| -10 dBm- | | | | | | | | | | | Y | | | | | | | |
| | | 1.11 | | a . 16 | had a s | Ann | the sector | с И – | the work | 1 | And | 6 16 16 18 1 | dhi | i la Aliki i 👘 | A U | a t | | |
| -20 dBm- | <u> </u> | ⋈₩₩₩ | 4 <u>A</u> A | <u>AM</u> | I¶M,A¶° | L M M M | HWH | hhr | HAMA M | L M C W | ∖/<mark>\</mark>∕\/II | <u> APANAM</u> | <u>r vi v</u> | \mathcal{M} | () AAA | MANG | Μ | |
| |] | VYW | ·γγ | 1 6 | 1.1.1 | | . J . W | 1 " | איזיא | 17 1. |) " " ' | a di la second | 11. | Mar winers | ካ ግ ነ ከ | ' 1 I | | |
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| -30 dBm— | N | | | | | | | | | Ţ | | | | | | | W., | |
| 5 M | N° | | | | | | | | | | | | | | | | M | |
| -40 dBm | | | | | | | | _ | | | | | | | | | `M / | h the second |
| What I | | | | | | | | | | | | | | | | | | . Antwo |
| · . | | | | | | | | | | | | | | | | | | т (|
| -50 dBm— | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| CF 2.437 | ' GHz | | | | | | 1001 p | uts . | | | 2 | L 2.0 MHz/ | | | | 5 | pan 20.0 | 0 MHz |
| 01 21 107 | 5112 | 1 | | | | | 1001 | /13 | | | | . | | 02.06.2 | 2021 Re | f Level | | RBW |
| l | | Л | | | | | | | | | reasaring | . | | 00:4 | 6:13 | • | | • |

00:46:13 02.06.2021



| | Test Details | | | | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | | | |
| Mode | 802.11g – 48Mbps | | | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | | | |
| Parameters | PSD = -12.04dBm | | | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | | | |

| Ref Level 40.60 dbm Offset 40.60 db BBW 3 kHz Mode Sweep Trequency 2.4370000 GHz 10 db 98 0 m Notch 0 ff 10 kHz 0 m 10 kHz 0 m 10 kHz 0 m 10 kHz 10 kHz 0 m 10 kHz | MultiView 88 | Receiver | Spec | trum 🔆 | X | Spectrum 2 | X | Spectrum 3 | * | Spectrum 4 | • ≱ ⊠(| Spectrum | n 5 🛛 🔆 🔀 | | | | ▼ |
|---|--------------|------------|---------|-------------|-------|-------------|------|------------|----------|------------|----------------|----------|-------------------|----------|-------|----------|---------------------|
| 1 Frequency Sweep 1 Plc View 30 dbm M1[1] -12.04 dbm 20 dbm 2.4423350 GHz -12.04 dbm 20 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm | Att | 10 dB | SWT | 223 ms 🖷 | VBV | VI 10 kHz M | lode | Sweep | | | | | Fr | equency | 2.43 | 370000 |) GHz |
| 30 dBm | | | P3 | UI | NUU | un on | | | | | | | | | | O1Pk | View |
| 30 dBm 2.4423350 GHz 20 dBm 20 dBm 10 dBm 20 dBm 10 dBm 20 dBm 20 dBm 20 dBm 10 dBm 20 dBm | | | | | | | | | | | | | | M1[1] | | | |
| 20 dBm Image: Second Secon | | | | | | | | | | | | | | | 2 | | |
| 20 dBm Image: Second Secon | 30 dBm | | | | | | | | | | | | | | | | |
| 10 dBm Image: stand stan | 30 uBili | | | | | | | | | | | | | | | | |
| 10 dBm Image: state of the | | | | | | | | | | | | | | | | | |
| Bit Exception Ma 0 dBm | 20 dBm | | | | | | | | | | | | | | | | |
| Bit Exception Ma 0 dBm | | | | | | | | | | | | | | | | | |
| Bit Exception Ma 0 dBm | | | | | | | | | | | | | | | | | |
| -10 dBm -20 dBm -30 dBm -40 dB | 10 dBm | H1 8.00 | 0 dBm | | | | | | | | | | | | | | |
| -10 dBm -20 dBm -30 dBm -40 dB | | | | | | | | | | | | | | | | | |
| -10 dBm -20 dBm -30 dBm -40 dB | 0 dBm | | | | | | | | | | | | | | | | |
| -20 dBm | 0 0.0 | | | | | | | | | | | | | | | | |
| -20 dBm | | | | | | | | | | | | | | | | | |
| | -10 dBm | | | | | | | | | | | | M1 | | | | |
| | | | | | | | | N . 1 . | | | | 1. | | | | | |
| | | til as his | n M.M. | in to Artha | l, rW | 6 A M A A A | MA | A.K.K. | . and | M. M. M | m Aust drilled | Mille | n A. K. ale del | kn mah l | лМ IN | 1 | |
| -40 dBhAN | -20 dBm | TWWWW | 1 V V 1 | AN IC P P | 14 11 | A Mar Ward | 101 | | NV V | <u> </u> | 1 M W. L. M. | r hjih | C. M. M. Market | VVVV | W W Y | rh. | |
| -40 dBhAN | | //** 1 | 1 I I ' | | | · v | יו | 1.1 | | | er til | - T | * * 1 * * | 1 1 3 | 1.1 | | |
| | -30 dBm | | | | | | | \ | | | | | | | | <u> </u> | |
| | Λ. | | | | | | | | ľ | | | | | | | 11. | |
| | LA AN | | | | | | | | | | | | | | | L ͶN. | ia – |
| -50 dBm | -40 dBm | | | | | | | | | | | | | | | | MH |
| -50 dBm | A AV WY | | | | | | | | | | | | | | | | ~ V (M |
| So dam | -50 dBm | | | | | | | | | | | | | | | | |
| | CO UDIT | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| CF 2.437 GHz 1001 pts 2.0 MHz/ Span 20.0 MHz | CF 2.437 GH | lz | | | | 1001 pt | S. | | I | 2 | .0 MHz/ | | | 1 | S | pan 20.0 | 0 MHz |
| Measuring 02.06.2021 Ref Level RBW 00:48:55 | ſ | | | | | | | | M | | | | UM 02.06.2 | 2021 Re | | | |

00:48:55 02.06.2021



| | Test Details | | | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | | |
| Mode | 802.11g – 54Mbps | | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | | |
| Parameters | PSD = -12.88dBm | | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | | |

| MultiView 88 | Receiver | X | Spectrum 🔆 | | Spectrum 2 | Spe Spe | ectrum 3 | * | Spectrum 4 | • ≱⊠ (́ | Spectrum 5 | × 🕅 | | | \bigtriangledown |
|---------------------------|----------|-----------|---------------------------------|------------|--------------------|---------|----------|-------|------------|-----------------|--------------|---------|---------------|---------|--------------------|
| Ref Level Att Input | 10 d | | et 40.60 dB (223 ms (On | VB' | W 10 kHz M | ode Sw | eep | | | | | Fre | equency | 2.43 | 70000 GHz |
| 1 Frequenc | | | | | | | | | | | | | | | ●1Pk View |
| | | | | | | | | | | | | | M1[1] | | -17.29 dBm |
| | | | | | | | | | | | | | | 2 | .4316850 GHz |
| 30 dBm | | | | | | | | | | | | | | | |
| So abii | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 10 dBm | | 8.000 dBm | | | | | | | | | | | | | |
| | | 6.000 UBN | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | | |
| | | | M1 | | | | | | | | | | | | |
| | | | V | | | | | | | | | | | | |
| -20 dBm | | t d with | to the A star A | <u>k k</u> | to the state to be | Ant | h h m | 1.00 | the st | . 8 10 1 10 | the back | A | | | 1 |
| | - NIMU | MAJAM | WWWWWWWWW | ЛЛ | MUMMUNA | ' WWA | ANNA - | MN | l MANA | Մահելի հանդ | PATYA, A | Nun M | il Markal And | YMA. | AL. |
| | TKAM | i k k k j | The LAI | ין אין | ייין אייאי ו | (p, h) | Cale II | J T V | h i h | idd for first o | אי ארי ען א | ի հերին | A A ALM | y n y | Ψ <u>(</u> |
| -30 dBm | | | ++ ++ | | | | | | 1 | | | | | | |
| hs | | | | | | | | | | | | | | | \k |
| -40 dBm | | | | | | | | | | | | | | | N.A. |
| | | | | | | | | | | | | | | | 19Mil |
| IL MAY 1 | · | | | | | | | | | | | | | | Y Y Million |
| 50 dBm | | | | | | | | | | | | | | | <u> </u> |
| | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | |
| CF 2.437 GF | | | | | 1001 pt | 5 5 | | | 2 | .0 MHz/ | | | 1 | S | pan 20.0 MHz |
| | Ì | | | | | | | | | | n <i>1</i> / | 02.06.2 | 2021 Re | f Level | |

00:51:55 02.06.2021



| | Test Details | | | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | | |
| Mode | 802.11g – 6Mbps | | | | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | | | | |
| Parameters | PSD = -12.88dBm | | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | | |

| Multi¥iew 🔠 R | eceiver | Spect | rum 🔆 | x) s | spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔌 🖾 | Spectrur | n 5 🛛 🔆 🕅 | | | | ▽ |
|-----------------------------|---------|-------|-----------------------------|-------|---------------|--------|------------|------|--------------|------------|----------|-------------------|----------------------|---------|------------|------|
| Ref Level 4 Att Input | | SWT | Ю.60 dB ● 223 ms ● On | | / 10 kHz / | Mode | Sweep | | | | | F | requency | 2.46 | 520000 (| GHz |
| 1 Frequency | | Fð | UI | Note | | | | | | | | | | | ⊙1Pk Vi | ew |
| | | | | | | | | | | | | | M1[1] | | -13.44 | |
| | | | | | | | | | | | | | | 2 | .4636180 | GHz |
| 30 dBm | | | | | | | | | | | | | | | | |
| oo abiii | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 10 dBm | H1 8.00 | 0 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | M1 | | | | | | | |
| | 6.8.4 | | a da la la la | اسا م | ka seste de s | in the | Abol | | A day | 1. 17 8. 1 | di di | | A 1 J | 1 | | |
| -20 dBm | MMAMA | NW | WWVV | 'W | M M M M | UU. | VYVVA. | L WW | \mathbb{W} | MEV VIV | V V W | W V V V V | WWW | VM | M | |
| -20 uBm- | | | 1 | | @ H · · · | | | | | | | | | | | |
| | | | | | | | | V | | | | | | | | |
| -30 dBm — 👫 | | | | | | _ | P. | 1 | | | | | | | | |
| . A ^{r v} | | | | | | | | | | | | | | | ' W., | |
| . ANV | | | | | | | | | | | | | | | | at . |
| -40/d8m | | | | | | | | | | | | | | | | MM. |
| 141 | | | | | | | | | | | | | | | | |
| -50 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| CF 2.462 GH | Z | | | | 1001 p | ts | | | 2 | .0 MHz/ | | | | S | pan 20.0 M | MHz |
| | | | | | | | | N | leasuring | | | 102.06 | .2021 Re 23:42 Re | f Level | RBV | W |

00:23:43 02.06.2021



| | Test Details | | | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | | |
| Mode | 802.11g – 9Mbps | | | | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | | | | |
| Parameters | PSD = -13.19dBm | | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | | |

| Multi¥iew 88 | Receiver | X | Spectrum | *** | Spectrum 2 | X | Spectrum 3 | ** | Spectrum 4 | • 🔆 🖾 | Spectrum 5 | ×x | | | |
|---------------------------|----------------------------|-----------|----------|---------------|-------------------|----------------|------------|-----|------------|--|------------|---------|---------|---------|---------------------------------------|
| Ref Level Att Input | 40.60 dBm 10 dE 1 AC | | | ms 👄 VE | | Mode | Sweep | | | - | | Fre | equency | 2.46 | 20000 GHz |
| 1 Frequence | | | | | | | | | | | | | | | ●1Pk View |
| | | | | | | | | | | | | | M1[1] | | -13.19 dBm |
| | | | | | | | | | | | | | | 2 | .4638780 GHz |
| 30 dBm | | | | | | | | | | | | | | | |
| 30 ubm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | |
| 20 45 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | |
| | H1 8 | 8.000 dBm | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | | |
| | L | ы. X | 6.0 7 | C. M | . La n | A | N 10 14 | | he . A | and a | 1 And | A 16 | | | |
| oo dhuu | - ALIAN M | MAN | NMM/ | \mathcal{M} | ፤ ለ ምክለግ እ | ΔľΨ | MMM | IMN | W 4M/1 | 1. N. W. | WWW | MAN | MAMY | h/hAl | M |
| -20 dBm | 14.44 | Y 14 | | | v | , 1 , 1 | | | | | · · · · · | , | 1 V 1 V | W | |
| | | | | | | | ۱. ۱ | J | | | | | | | |
| -30 dBm | | | | | | | 1 | 4 | | | | | | | |
| oo abiii | YI | | | | | | | | | | | | | | Mu - |
| \sim | · | | | | | | | | | | | | | | WA. |
| -40/dBm | | | | | | | | | | | | | | | NA |
| ANCA . | | | | | | | | | | | | | | | "My |
| | | | | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| -50 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| CF 2.462 G | Hz | | | | 1001 | pts | | | 2 | .0 MHz/ | | | | S | pan 20.0 MHz |
| | | | | | | | | N | leasuring | | • • | 02.06.2 | 2021 Re | f Level | RBW |

00:36:07 02.06.2021



| | Test Details | | | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | | |
| Mode | 802.11g – 12Mbps | | | | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | | | | |
| Parameters | PSD = -12.96dBm | | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | | |

| MultiView 88 | Receiver | X | Spectrum | ×x | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔆 🖾 📢 | pectrum 5 | ×X | | | | ▼ |
|---------------------------------------|----------|--|----------|------------|------------|--------------------|------------------------------|-------|--------------------|----------------------|--------------------|------------------|----------------------|-------------------|----------|---------------------|
| Ref Level Att Input | 10 | Bm Offe I dB SW ⁻ AC PS | | ms 👄 VE | | Mode | Sweep | | | | | Fre | equency | 2.46 | 20000 | GHz |
| 1 Frequence | y Swee | p | | | | | | | | | | | | | 01Pk \ | View |
| | | | | | | | | | | | | | M1[1] | | -12.96 | |
| | | | | | | | | | | | | | | 2 | .458244 | |
| | | | | | | | | | | | | | | | | |
| 30 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | |
| 20 ubiii- | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | | |
| | | H1 8.000 dB | m ——— | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 0 dBm | | | _ | | | _ | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| -10 dBm | | | - | | 141 | - | | | | | | | | | | |
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| | - In And | IN A AN | H MAU |). Autoria | เมาสุญญา | MA) | MAAN. | MAA | MMA | IN MARKAY | ላለሌለ | N.M.M. | A. a. M. | AM | 1 | |
| -20 dBm | - M A | $\Lambda \Lambda \Lambda \Lambda$ | A m. M w | M x. h | ╕ᆥᄴᅛᆠᄿᆎ | - " " | | / / * | \ \ \ \ | ┡ ╸╢╫╟╫╓┢ | * *~~~~ | ₩ ₩ ₩ | h.J.J.A.M | VI W Y | 4 | |
| | | | | | | | | 1 | | | | | · · | | | |
| -30 dBm | | | | | | | <u>ار</u> | 1 | | | | | | | 0 | |
| -30 dBm- | V | | | | | | | • | | | | | | | W. | |
| . Wi | ' | | | | | | | | | | | | | | Mrd. | |
| -40 dBm | | | | | | | | | | | | | | | Y 44 | Val . |
| A A A A A A A A A A A A A A A A A A A | | | | | | | | | | | | | | | | TYP |
| 10 C | | | | | | | | | | | | | | | | |
| -50 dBm | | | _ | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| CF 2.462 G | Hz | | | | 1001 p | ots | | | 2 | .0 MHz/ | | | 1 | S | pan 20.0 | MHz |
| 01 21 102 0 |) (| | | | 1001 p | | | | | | DO | 02.06.2 | 021 Rei | f Level | | BW |
| l | Л | | | | | | | , N | leasuring | | 1 ,XI | 00:38 | B:57 | • | | • |

00:38:58 02.06.2021



| | Test Details | | | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | | |
| Mode | 802.11g – 18Mbps | | | | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | | | | |
| Parameters | PSD = -12.52dBm | | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | | |

| Multi¥iew 88 | Receiver | (| XX (s) | pectrum | - \} [X | Spec | ctrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | 4 🔆 🕱 | Spectrum | s 🔆 🕅 | l | | | ▼ |
|--------------------|------------------|---------|--------|---------|--------------------|-------|-----------------|-------|------------|-----|------------|------------|----------|----------------|----------|---------|-----------|---------------------|
| Ref Leve • Att | 1 | l0 dB | SWT | 223 | dB 🖷 R ms 🖷 V | B₩ | 3 kHz 10 kHz | Mode | Sweep | | | | | Fr | equency | 2.46 | 520000 | GHz |
| Input 1 Frequen | | 1 AC | PS | | On N | otch | Off | | | | | | | | | | ⊙1Pk ' | View |
| THOQUON | cy o n c | -op | | | | | | | | | | | | | M1[1] | | -12.52 | |
| | | | | | | | | | | | | | | | | 2 | .463179 | 0 GHz |
| 30 dBm | | | | | | | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | | |
| 20 uBm- | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 10 dBm | | H1 8.00 | 00 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | _M1 | | | | | | | |
| | | | 1 | | N . | | | | 1.5 | | Τ. | | | | | | | |
| | AA | ANA | лħ | nnA. | NMM | 1/1/1 | ባለሉለ | AM | how MMM. | LAM | UM MM | AN AM | WW | 1 M A AM | MM A.A.S | MAA | A. | |
| -20 dBm | 141 | 14.44 | 4 Y X | | | Y | <u> </u> | 1 1 1 | 4.4.4.1 | 1 P | 1.0.1 | 1 4 10 4 4 | , | <u> </u> | 1.4.2.4 | AN | | |
| | | | | | | | | | | W. | | | | | | | | |
| -30 dBm | \mathbb{W}^{+} | | | | | | | | | , | | | | | | | W. | |
| 1. 1. MAN | (11 | | | | | | | | | | | | | | | | 'MU | λ. |
| -40 dBm | | | | | | | | _ | | | | | | | | | ~~ | White 1 |
| MM | | | | | | | | | | | | | | | | | | " Why |
| -50 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| CF 2.462 C | GHz | _ | | | | | 1001 | pts | | | 2 | .0 MHz/ | | | _ | | ipan 20.0 | |
| |] | | | | | | | | | N | 1easuring | j (| | 02.06. 00:4 | 2021 Re | f Level | | BW |

00:41:31 02.06.2021



| | Test Details | | | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | | |
| Mode | 802.11g – 24Mbps | | | | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | | | | |
| Parameters | PSD = -13.19dBm | | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | | |

| Multi¥iew 88 | Receiver | X | Spectrum | *** | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔆 🖾 | Spectrum 5 | * | | | | ▼ |
|--------------------------|----------|-------------|----------|--------------|----------------|------|------------|-----------------|------------|---------|------------|--------------|---------|---------|----------|---------------------|
| Ref Leve Att Input | 10 (| | | ms 👄 VE | | Mode | Sweep | | | | | Fre | equency | 2.46 | 20000 | GHz |
| 1 Frequen | | | | | | | | | | | | | | | ⊙1Pk | View |
| | | | | | | | | | | | | | M1[1] | | | 9 dBm |
| | | | | | | | | | | | | | | 2 | .466056 | |
| 30 dBm | | | | | | | | | | | | | | | | |
| 30 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 10 dBm | _ | | | | | _ | | | | | | | | | | |
| | | 1 8.000 081 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | 0.1 | | | | | |
| 10 0.011 | | | | | | | | | | | T | | | | | |
| | A ALL IN | he i wh | han H | h A return | As a here the | | Mund | JAM D | A. K. W. | Alexa | Alana | all in | And | ا م ال | | |
| -20 dBm | AMA | AMAP | ներա | <u>44477</u> | ╟Ű┝╈╨┦╞┉ᡘ╲╟╶╻╸ | MV4 | | I /V ₩ | X V M | מאייעימ | ℍℿℿ | <u>WW MU</u> | | MM | <u> </u> | |
| | 11 | 1.1.2.2 | " ' ≬ ` | 1.4.5 | k i constru | ΥY. | 7 T T T | $V \rightarrow$ | 1.60 | | | 4 I | 7 Y Y Y | V Y M | - F | |
| | | | | | | | | | | | | | | | | |
| -30 dBm | M | | | | | | | 1 | | | | | | | 1 | |
| hold . | | | | | | | | | | | | | | | - MA | |
| -40 dBm | · . | | | | | | | | | | | | | | - "W | ø. |
| MUNUPIN- | | | | | | | | | | | | | | | . 1 | "Malu |
| N - | | | | | | | | | | | | | | | | - P. Wo |
| -50 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| CF 2.462 C | Hz | | | | 1001 p | ots | | 1 | 2 | .0 MHz/ | 1 | | 1 | S | pan 20.0 |) MHz |
| (| | | | | • | | | | | | | 02.06.2 | 021 Re | f Level | · | BW |
| L | JL | | | | | | | | | | | 00:44 | 4:27 | • | | • |

00:44:28 02.06.2021



| | Test Details | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11g – 36Mbps | | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | | |
| Parameters | PSD = -12.32dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| MultiView 88 | Receiver | X | Spectrum | ×x | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | 4 🔆 💥 Sp | ectrum 5 🛛 🔆 🔀 | | | ▽) |
|----------------------|--------------------|-----------|------------|---------|------------------------|---------|------------|----------|------------|-------------------|------------------|------------|---------------|-------------|
| Att | 40.60 dBm 10 dE | | | ms 🖷 VE | | Mode | Sweep | | | | I | Frequency | 2.46 | 20000 GHz |
| Input 1 Frequence | | , PS | | Un Na | oten on | | | | | | | | | ●1Pk View |
| | | | | | | | | | | | | M1[1] | | -12.32 dBm |
| | | | | | | | | | | | | | 2. | 4600820 GHz |
| 30 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | |
| | H18 | 3.000 dBm | 1 | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| -10 dBm | | | | | | - 11 | | | | | | _ | | |
| | | × | | , | | ľ. | har a b | 1.11 | | | 1 1 1 | | | |
| 00.40.0 | LANA MAN | MAAN | A also had | 气佩测力 | MAN A MARI | AM | MAAA. | L M M M | W. A.M | IN MAAAA | A ALMANA AVAN | NAAAA | n A Ala | |
| -20 dBm | 1111 | h w A I | a hund ad | 11 Y Y | <u>1. de c. Mare d</u> | - Y Y - | MARM | 111 | * W V 1 | <u>lu kh kh k</u> | 1017 PV | A N KIA W | 1 1 1 | l I |
| | | | | | | | 1 | II ' | | | | · · · | 1 | |
| -30 dBm | | | | | | | | <u> </u> | | | | _ | | W |
| ь. M | | | | | | | | | | | | | | Mar. |
| -40.08m | ¥ | | | | | | | | | | | | | M Mullet |
| AN IT IT | | | | | | | | | | | | | | " PMu |
| , vî | | | | | | | | | | | | | | n hi |
| -50 dBm | | | | | | | | | | | | - | | |
| | | | | | | | | | | | | | | |
| CF 2.462 G | | | | | 1001 | nte | | | | .0 MHz/ | | | 6.5 | an 20.0 MHz |
| UF 2,402 G | | | | | 1001 | pts | | | | | 100 02.00 | 5.2021 Rei | 5p f Level | |
| l | Л | | | | | | | N | leasuring | | 00 | :47:02 | • | |

00:47:03 02.06.2021



| | Test Details | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11g – 48Mbps | | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | | |
| Parameters | PSD = -13.51dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| Multi¥iew 8 | Receive | r | S s | pectrum | ¥ 🛛 | Spec | ctrum 2 | X | Spectrum 3 | ¥2 | 3 Spectrum | 4 🔆 🕅 | Spect | trum 5 🛛 🔆 🔀 |) | | | ▼ |
|-------------------------|----------|------------------------|----------|---------|---------------------------|-------|------------------------|-------|------------|------------|--------------|---------------|-------|---------------------|-------------------|---------|-----------|---------------------|
| Ref Lev Att Input | | 0 dBm 10 dB 1 AC | SWT | | ∣dB ● R ms ● V On N | | 3 kHz 10 kHz Off | Mode | Sweep | | | | | F | requency | 2.46 | 520000 | GHz |
| 1 Freque | ncv Sw | | гð | | | ottin | 01 | | | | | | | | | | ⊙1Pk | View |
| | | | | | | | | | | | | | | | M1[1] | | | 1 dBm |
| | | | | | | | | | | | | | | | | 2 | 463878 | |
| 30 dBm | | | | | | | | | | | | | | | | | | |
| 00 00. | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | - | | | | | | | - | | | |
| | | | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | | | | |
| TO UBIII | | H1 8.0 | 000 dBm | | | | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | _ | | _ | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | M | 7 | | | | | | |
| | 1 | 1. | K. | e ha | A. S. M. | 1. | | | et alle a | 1.1 | . 14 1 1 | Ante | ll a | undha | 1 1 | N 1. | | |
| -20 dBm | <u> </u> | _AAA | 4.4.414. | A.A. | ЩА.М/ | 444 | <u>l RAAA</u> A | 1.1.1 | M M M M | <u>/</u> / | 5./K./K./K./ | <u>IN MAM</u> | փղ, | <u>դ Բախի Այեթե</u> | AAAA | A.A.M | M | |
| | - (W) | 9 Y P | as Mal. | עיין | (| 1.4 | in hin h | ry v | 1111 | | had d | 1 V V V V | 17 | dh an Ann | 1 1 1 1 1 1 | (((| 11 | |
| | | | | | X | | | | | W. | | | | | - r - r | | | |
| -30 dBm | 1 | | | | | | | - | | 7 | | | | | | | 1.8 | |
| | 14 | | | | | | | | | | | | | | | | YMM . | |
| -40 dBm | ۲ | | | | | | | | | | | | | | | | H'NN, | wh. |
| | | | | | | | | | | | | | | | | | 11 | MMr. |
| Mutai . | | | | | | | | | | | | | | | | | | 1.4.1 |
| -50 dBm | | | | | | | | - | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | <u> </u> | | | | | | |
| CF 2.462 | GHz | | | | | | 1001 p | ots | | | | 2.0 MHz/ | _ | | | | Span 20.0 | |
| | | Л | | | | | | | | J | Measurin | g 💶 💷 | | 🚧 02.06 00: | .2021 Re 49:47 | f Level | | RB₩ |

00:49:47 02.06.2021



| | Test Details | | | | | | | | | |
|-------------------|------------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11g – 54Mbps | | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | | |
| Parameters | PSD = -16.72dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| Multi¥iew 88 | Receiver | Spectru | m 🔆 🔀 | Spectrum 2 | Spectrum 3 | Spectrum - | 4 🔆 🕅 Spec | :trum 5 🛛 🔆 🔀 | | ▽) |
|---------------------------|---|----------|------------------------------------|--------------------|---------------|-------------------|----------------|----------------|-------------------|---------------|
| Ref Level Att Input | 40.60 dBm 40.60 dBm 40.60 dBm 40.60 dBm 40.50 | SWT 2 | .60 dB ● RI 23 ms ● VI On No | 3W 10 kHz M | lode Sweep | | | Fre | equency 2.4 | 620000 GHz |
| 1 Frequenc | | | | | | | | | | ⊙1Pk Max |
| | | | | | | | | | M1[1] | -16.72 dBm |
| | | | | | | | | | | 2.4613810 GHz |
| 00 d0 | | | | | | | | | | |
| 30 dBm | | | | | | | | | | |
| | | | | | | | | | | |
| 20 dBm | | | | | | | | | | |
| 20 0011 | | | | | | | | | | |
| | | | | | | | | | | |
| 10 dBm | | | | | | | | | | |
| | H1 8.00 |) dBm | | | | | | | | |
| | | | | | | | | | | |
| 0 dBm | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| -10 dBm | | | | | | | | | | |
| | | | | | M1 | | | | | |
| 00 dB | | . 6 | | also a second | I I. | 11.1 | A. A. A. | 1 | A 4 | |
| -20 dBm | M. A. M. M. K. | A NUUM | 从八版 (41) | A Multiple Augusta | Low Arna A. | MALA AND | A MAX MANA | ald Arth Malka | A hadred at | al as |
| | ₩WW V'₩V | " V VIWP | () () () (V) ()A | የ የማለግ እን | 4 M AV WY Y A | በ እስስ እስ እስ እስ እስ | ለ ህጊዮ ህገጥ ጋር ዛ | 1°Y V Y V WW. | 1Y 'Y W W W W ' | M. |
| -30 dBm | | 1 | 1 | 1 1 1 | | | 1111 | - 1 B | Les des altres de | |
| | | | | | L V | | | | | 1 |
| I I A | | | | | | | | | | M. I |
| -40 dBm | | | | | | | | | | |
| 1 la M | | | | | | | | | | Mh.C. |
| h MY W 1 | | | | | | | | | | THINK |
| 450 dBm | | | | | | | | | - | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| CF 2.462 GI | lz | | | 1001 pt | S | 2 | .0 MHz/ | | | Span 20.0 MHz |
| | T T | | | | | Measuring | () | 02.06.2 00:52 | 2021 Ref Level | RBW |

00:52:51 02.06.2021



| | Test Details | | | | | | | | | |
|--------------|------------------------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11n | | | | | | | | | |
| Notes | Measured in a 3kHz bandwidth | | | | | | | | | |

| Drata sel | Freq. | Data Rate | Power |
|-----------|-------|-----------|--------|
| Protocol | (MHz) | (Mbps) | (dBm) |
| | 2412 | | -15.56 |
| | 2437 | MCS0 | -15.26 |
| | 2462 | | -15.87 |
| | 2412 | | -16.05 |
| | 2437 | MCS1 | -15.45 |
| | 2462 | | -15.73 |
| | 2412 | | -14.89 |
| | 2437 | MCS2 | -15.09 |
| | 2462 | | -14.75 |
| | 2412 | | -14.68 |
| | 2437 | MCS3 | -13.37 |
| 802.11n | 2462 | | -14.54 |
| 002.1111 | 2412 | | -16.6 |
| | 2437 | MCS4 | -16.31 |
| | 2462 | | -15.23 |
| | 2412 | | -15.6 |
| | 2437 | MCS5 | -15.5 |
| | 2462 | | -15.61 |
| | 2412 | | -16.64 |
| | 2437 | MCS6 | -17.64 |
| | 2462 | | -17.83 |
| | 2412 | | -16.99 |
| | 2437 | MCS7 | -17.23 |
| | 2462 | | -15.82 |



| | Test Details | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11n – MSC0 | | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | | |
| Parameters | PSD = -15.56dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| Multi¥iew 🔠 Rece | iver 🕅 | Spectrum 🔆 🔀 | Spectrum 2 | Spectrum 3 | Spectrum - | 4 🔆 🕅 Spec | trum 5 🛛 🔆 🔀 | | ▽ |
|-------------------------------|---------------------------------------|---|-------------------------|-------------|----------------|-------------|---------------|-------------------|---------------|
| Ref Level 40. Att Input | .60 dBm Offse 10 dB SWT 1 AC PS | et 40.60 dB ● RI 223 ms ● VI On N | | lode Sweep | | | Fre | equency 2.4 | 120000 GHz |
| 1 Frequency S | | | | | | | | | ●1Pk View |
| | · | | | | | | | M1[1] | -15.56 dBm |
| | | | | | | | | | 2.4082440 GHz |
| 00 ID | | | | | | | | | |
| 30 dBm | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| 20 UBIII | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| | H1 8.000 dBm | | | | | | | | |
| | | | | | | | | | |
| 0 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| -10 dBm | | | | | | | | | |
| | | | M1 | | | | | | |
| | a constant. | . haarna | Jun to Maria | a seal of A | A LA A DA A IA | A a dia a | hin n. Karata | A | 1.1 |
| -20 dBm | ᢔᡛᢦᡳᡃᢉᡃᠮᡃᠮᠮ | ᠕᠕ᢉ᠕ᠰᢉᡀᠮ | ╊╋ ╋ ╔╔╖╝╝╱╕ | | <u> </u> | ᢞ᠋ᡰᡗ᠊ᡀᡃᡀᡀᡃᢑ | ╔┢╋┲┲╄╋┹┟╒ | ᠋ᡰᢧᡟᡃᡰ᠕ᠰᠧᢪᡀᡯᠧᢞᡆᢞᡟ | ግ ለአለ |
| / "V" "N | | | L & M , L I | | | - 4 - W | | a s s s b s | (~ Y (|
| -30 dBm- | | | | 1 | l I | | | | |
| -30 dBm- | | | | | | | | | 1. |
| <i>I</i> V | | | | | | | | | N N |
| -40 dBm | | | | | | | | | UN. |
| Notabili | | | | | | | | | r vy |
| , | | | | | | | | | V |
| -50 dBm | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| CF 2.412 GHz | 1 | 1 | 1001 pt | S | 2 | 2.0 MHz/ | 1 | ۱ ۲ | Span 20.0 MHz |
| | Υ | | | | | g (| 02.06.2 00:54 | | |
| | | | | | measuring | | 00:54 | 4:11 | |

00:54:12 02.06.2021



| | Test Details | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11n – MSC1 | | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | | |
| Parameters | PSD = -16.05dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| Multi¥iew 88 | Receive | r | X s | pectrum | | x) s | ipectrum 2 | X | Spectrum 3 | *** | Spectrum 4 | 4 🔆 🖾 | Spectrum | s 🔆 🕱 | | | (| ▽ |
|--------------------------|----------|------------------------|------------|----------------|--------|-------|--------------|------|------------|----------|------------|-----------------|----------|-----------------|-----------------|---------|----------|-------|
| Ref Leve Att Input | | 0 dBm 10 dB 1 AC | SWT | t 40.60 223 | ms 🖷 🔪 | | ' 10 kHz M | Mode | Sweep | | | | | Fn | equency | 2.41 | 20000 | GHz |
| 1 Frequen | icy Sw | | | | | | | | | | | | | | | | ○1Pk | Мах |
| | | | | | | | | | | | | | | | M1[1] | | -16.05 | i dBm |
| | | | | | | | | | | | | | | | | 2 | .4170150 |) GHz |
| 30 dBm | | | | | | _ | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | _ | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 10 dBm | | H1 8.0 | 000 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | | | |
| o ubiii | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | _ | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | M1 | | | | |
| | | 1.1. | | | Mark | 1 6 | خد المنات | | A set o | | Anna | يقدان المراقد و | 1 | and in the | A | . 1 | | |
| -20 dBm | MAN | ᡰᡒᡃᡳᡗᡰᡗ | ներություն | 代八州 | ԻԽՐՆՈՒ | 1 d | WWW VIV | WWW. | ∇ | | ₩₩₩₩ | ┢┶ᡣᢦᡟᡧᢪ₩ | 11111 | ᢦᠲᡗᠯᢂᡃᠰᡁ | ฬฬฬ | MA | MAA | |
| $\Gamma \cap O$ | γwγ. | Lua | YEY | A M. A | Ψ. Ψ. | · / · | na d na d ai | | 1, 1, 1 | 11 . | 11 Y Y | | · · · · | | 8 V W W | Y Y 4 | i W W V | |
| -30 dBm | ` | | | | | | | | | J. | | | | | | | | |
| So dbiii | | | | | | | | | | Y | | | | | | | 11 | |
| . N | | | | | | | | | | | | | | | | | N | nu. |
| -40 dBm | | | | | | _ | | | | | | | | | | | Į į | MACK. |
| WWW . | | | | | | | | | | | | | | | | | | M |
| - | | | | | | | | | | | | | | | | | | |
| -50 dBm | | | | | | + | | | | 1 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | L | | | | | | |
| CF 2.412 (| GHz | 2 | | | | | 1001 p | ts | | <u>,</u> | 2 | .0 MHz/ | _ | | | | pan 20.0 | |
| | | 1 | | | | | | | | N | leasuring | g 🔳 💷 💷 | | 02.06.2 00:5 | 2021 Re 6:42 | f Level | R | ∎w |

00:56:43 02.06.2021



| | Test Details | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11n – MSC2 | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | |
| Parameters | PSD = -14.89dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 88 | Receiv | /er | SX S | pectrum | X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔆 🕅 s | pectrum 5 | ×X | | | | ▼ |
|--------------------|---------|-----------------|--------------|------------------|--------------------|-----------------------|-------|----------------|-----|------------|-----------|------------|-------------|---------|-------|----------|---------------------|
| Ref Leve Att | el 40.6 | 50 dBm 10 dB | Offse SWT | t 40.60 223 r | dB 🖷 RI ms 🖷 VI | BW 3 kHz BW 10 kHz | Mode | Sweep | | | | | Fra | equency | 2.41 | 20000 | GHz |
| Input 1 Eroquor | | 1 AC | PS | | On No | otch Off | | | | | | | | , | | ●1Pk | |
| 1 Frequer | ICY SV | veep | | | | | | | | | | | | M1[1] | | | 9 dBm |
| | | | | | | | | | | | | | | mili | 2 | .415397 | |
| 30 dBm | | | | | | | | | | | | | | | | | |
| So abiii | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | | | |
| | | H1 8.0 | 100 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | _ | | | | M1 | | | | | | |
| | | | | | | | | | | | Ť | | | | | | |
| -20 dBm | | | | | ب المر من ا | M. W. w. A. M. | n a v | La Mar 1 | AAN | Lik Hil | s mar all | A A.A.A. | A. L. Nr. A | A.M. | 1.1 | ۸., | |
| Lo doni M | MAN | NY W | V, A M | VVV | M.H. M. | N. M. M. M. M. M. | WW | M. M. M. M. V. | INW | huhuhu | ትሎ ለ አሳሌላ | MINNIN | WWWV | MANM | 777 | (WYM) - | |
| | V Y I | 1 | | | 1 1 | | 1 | · · · · · · | 1 | | 1 | | 1.1.1 | | • • · | 11 | |
| -30 dBm | | | | | | | | | ų – | | | | | | | | |
| M | | | | | | | | | | | | | | | | 1 | \ |
| -40 dBm | | | | | | | | | | | | | | | | | Www. |
| AVV I | | | | | | | | | | | | | | | | | i "W |
| -50 dBm | | | | | | | | | | | | | | | | | |
| -30 ubm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| CF 2.412 | GHz | | | | | 1001 p | ots | | 1 | 2 | .0 MHz/ | | | 1 | S | pan 20.0 |) MHz |
| | | | | | | | | | N | leasuring | | 4 X | 02.06.2 | 021 Ref | Level | | BW |

00:58:55 02.06.2021



| | Test Details | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11n – MSC3 | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | |
| Parameters | PSD = -14.68dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| MultiView 8 | Receiver | 2 | Sp. | ectrum 🧳 | | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔆 🖾 | Spectrum 5 | ×X | | | | |
|----------------|------------------|-----------------|---------------|--------------------|-------|-----------------|--------|------------|--------|------------|-----------|------------|-------------|-----------------|---------|--------------|-------|
| Ref Lev Att | vel 40.60 | | Offset SWT | 40.60 dB 223 ms | | | ode | Sweep | | | | | Fra | equency | 2 41 | 20000 | GHz |
| Input | | 1 AC F | | On | | tch Off | | | | | | | | equency | 2.13 | | |
| 1 Freque | ency Swe | еер | | | | | | | | | | | | | | O1Pk ∖ | |
| | | | | | | | | | | | | | | M1[1] | | -14.68 | |
| | | | | | | | | | | | | | | | 2 | .405726 | 0 GHz |
| 30 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | | | |
| | | H1 8.000 |) dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| -10 dBm— | | | | | | | | | | | | | | | | | |
| | | | M1 | | | | | | | | | | | | | | |
| | | | | | | | 8 | λ | | and a | | | | | | | |
| -20 dBm- | ai in Alak | <u>A 14 M</u> . | o Ad | ta A Ad | • M.h | And R. M. K. M. | Pr the | MAAA | ╏╋╋ | ҝӍӤѨ | RAMAN | M. H. Au | kah. Mahar | Mr. March | ᠳ᠘ᡰᡅ | Charles also | |
| (| MM V V V | l A A a | ' Y 19 | A.A.A.M | MAL | M M M M A A A | 10, | 2 Y W II (| / M V. | •• Ψ.Ψ.I | r y y p v | r y w r | a. h. h. a. | N V W V | vvv | VW | |
| -30 dBm- | | | Y | | | 1 | | | | | | 1 | | | | | |
| So abiii | | | | | | | | | 1 | | | | | | | 10 | |
| UNV. | | | | | | | | | | | | | | | | L VI | а — Г |
| -40 dBm— | | | | | | | | | | | | | | | | · · · | MA- |
| Mar . | | | | | | | | | | | | | | | | | 2 (M) |
| | | | | | | | | | | | | | | | | | |
| -50 dBm— | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| CF 2.412 | P GHz | | | | | 1001 pt | s S | | | 2 | .0 MHz/ | | | | S | pan 20.0 |) MHz |
| | | | | | | 1001 pt | | | | | | | 02.06.2 | 021 <u>Re</u> i | f Level | | BW |
| L | | | | | | | | | | reasuring | | | 01:0 | 1:27 | • | | • |

01:01:28 02.06.2021



| | Test Details | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11n – MSC4 | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | |
| Parameters | PSD = -16.60dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| Multi¥iew 88 | Receiver | X | Spectrum | * | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • | pectrum 5 🛛 🔆 | X | | |
|--|-------------|--------------------|--------------------|----------------------|----------------------|------|------------|-------|------------|-----------------|---------------------------------------|-----------|-----------|----------------------------|
| Ref Leve Att | | dBm Offe DdB SW | set 40.60 T 223 |) dB 🖷 RI ms 🖷 VI | | Mode | Sweep | | | | | Frequenc | v 2.4 | 120000 GH |
| Input | 1 | AC PS | | | otch Off | | | | | | | | , | |
| 1 Frequen | cy Swee | ep | | | | | | | | | | | 17 | • 1Pk View |
| | | | | | | | | | | | | M1[| | -16.60 dBr 2.4101220 GH |
| | | | | | | | | | | | | | | 2,4101220 GH |
| 30 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | |
| TO UBIN | | H1 8.000 dE | m | | | _ | | | | | | | | |
| | | | | | | | | | | | | | | |
| 0 dBm | | | | | | _ | | | | | | | | |
| | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | |
| 10 0.011 | | | | | | М1 | | | | | | | | |
| | | | | | | 1. | A | | and the | the | 1 1 1 1 1 | ALL. | | |
| -20 dBm | h nhr | WAAT | 1.1.MM | MAAA | <u> የ</u> ለሰራ ለአስዲዮሌ | ۳/// | ttth And | MAM | UMALA. | ሌሌሌሌ | | HAMA I | n M M M | Mary A |
| L M | 1. M. M. M. | N.N. M. W. | WEY WA | h nha nan an | w huw w v v | γv | 11111 | 1 X X | W C WY I | h de la serie a | M. J. W. M. W. | ARAIN | (Y & V 4 | (10 V V |
| -30 dBm | | | | | | _ | <u> </u> | | | | | | | |
| | | | | | | | r | • | | | | | | <u>امل</u> |
| N AND AND AND AND AND AND AND AND AND AN | | | | | | | | | | | | | | V Pust |
| -40 dBm | | | | | | | | | | | | | | 1 MW |
| W | | | | | | | | | | | | | | ניי ן |
| -50 dBm | | | _ | | | _ | | | | | | | | |
| | | | | | | | | | | | | | | |
| 05.0.440.6 | | | | | 1001 | _ | | | | | | | | |
| CF 2.412 C | iHz Y | | | | 1001 p | ots | | | | .0 MHz/ | · · · · · · · · · · · · · · · · · · · | 2.06.2021 | Ref Level | Span 20.0 MH |
| l | | | | | | | | M | leasuring | | | 01:04:01 | er Level | RBW |

01:04:01 02.06.2021



| | Test Details | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11n – MSC5 | | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | | |
| Parameters | PSD = -15.60dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| Multi¥iew 8 | Receiv | er | X s | pectrum | - \} [X | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | 4 🔆 🕅 | pectrum 5 | ×X | | | | ▼ |
|--------------------|----------------|--------|---------|---------|--------------------|------------|---------|------------|--------|------------|------------|-----------|---------|---------|--------------|----------|---------------------|
| Ref Lev Att | el 40.6 | 10 dB | SWT | | ms 🖷 VI | 3W 10 kH: | z Mode | e Sweep | | | | | Fre | equency | 2.41 | 20000 | GHz |
| Input 1 Frequer | ncv Sw | 1 AC | PS | | On N | otch Of | † | | | | | | | | | o1Pk | View |
| 11100400 | | oop | | | | | | | | | | | | M1[1] | | | 0 dBm |
| | | | | | | | | | | | | | | | 2 | 408244 | O GHz |
| 30 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | |
| 20 0011 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 10 dBm | | H1 8.0 | 000 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | _ | | | | | | | | |
| | | | | | | M1 | | | | | | | | | | | |
| -20 dBm | | 11 | a i h | l a h | 14.00 | Aun | d al | 1.0.0.0 | | A. | L. L. uk | 6. 16 | d. un | here | | | |
| 20 0011 | 11/11/ | VM/ | WMA), | NW | VWY | N WWW | MANY | "Y V MA | I MANN | WIM | INNMAN | WWW | 1.m/W | WM/174M | MA | AA.A. | |
| | γvų | W IT W | ''' Y V | 11.1 | 2 Y Y | n la mur i | - i V | | | | , "' ' " " | 10.1 10.1 | ÷γ, | 1.1.1 | Y " Y | i y my | |
| -30 dBm | + | | | | | | | | N | | | | | | | | |
| M | | | | | | | | | V | | | | | | | | 1 |
| -40 dBm | | | | | | | | | | | | | | | | Ч | MM |
| M | | | | | | | | | | | | | | | | |) (M) |
| -50 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 05.0.410 | | | | | | | <u></u> | | | | | | | | | | |
| CF 2.412 | GHZ | 1 | | | | 100 |)1 pts | | | | .0 MHz/ | | 02.06.2 | 2021 Re | S f Level | pan 20.0 | D MHZ |
| l | | Л | | | | | | | P. | leasuring | J | | 01:02 | 7:55 | • | | • |

01:07:56 02.06.2021



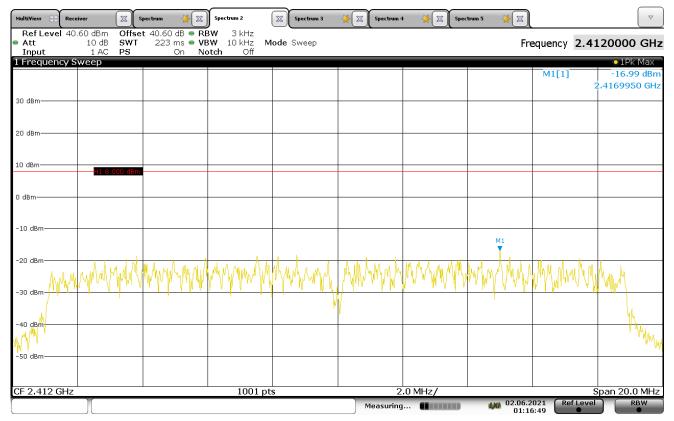
| | Test Details | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11n – MSC6 | | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | | |
| Parameters | PSD = -16.64dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| Multi¥iew 🔠 Red | eiver 🛛 | Spectrum 🔆 🔀 | Spectrum 2 | Spectrum 3 | Spectrum 4 | 4 🔆 🕅 Spec | trum 5 🛛 🔆 🔀 | | ~ |
|------------------------|-----------------|---------------------------------|--------------------|--|----------------|---------------|------------------------------|---|------------------|
| RefLevel 40 Att | 10 dB SWT | et 40.60 dB ● RI 223 ms ● VI | 3W 10 kHz M | ode Sweep | | | Fre | equency 2.4 | L20000 GHz |
| Input 1 Frequency S | 1 AC PS | On No | otch Off | | | | | | ●1Pk View |
| 1 mequency t | | | | | | | | M1[1] | -16.64 dBm |
| | | | | | | | | | 2.4132790 GHz |
| 30 dBm | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| 20 0011 | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | H1 8.000 dBm | | | | | | | | |
| | | | | | | | | | |
| 0 dBm | | | | | | | | | |
| | | | | | | | | | |
| -10 dBm | | | | | | | | | |
| | | | | | M1 | | | | |
| -20 dBm | | | | | | | | | |
| 20 abii | ANN ANNA | ALA MARANA | I an an da h.A. A. | MAALMAA - | hell soul A de | KAMA AA | ል ለሌርሳ ለ ሌ | A.A. Merry Mr. A. | B I A M |
| - MIV | ለዚህ ነት ለወት ነል ነ | Aloun Marita Ala Al | N. A.M. M. A. A. | 11 V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | WAR WIN N Y | N Y W WIN Y V | 1 \{ \!/ \!/ \!/ \!/ \!/ \!/ | A A MAR A MI | MANA MAR |
| -30 dBm | | | | , 1 | | | ₩ <u>'</u> | <u>, , , , , , , , , , , , , , , , , , , </u> | |
| al a | | | | , | M | | | | hi |
| -40 dBm | | | | | | | | | |
| MAY | | | | | | | | | "Mul |
| -50 dBm | | | | | | | | | · |
| | | | | | | | | | |
| CE 2 412 CU- | | | 1001 -+ | | | | | ļ | Prop 20,0 Milita |
| CF 2.412 GHz | 1 | | 1001 pt | 5 | 2 | .0 MHz/ | 102.06.2 | | Span 20.0 MHz |
| l | Л | | | | Measuring | | 01:10 | 0:49 | |

01:10:49 02.06.2021



| | Test Details | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11n – MSC7 | | | | | | | | |
| Carrier Frequency | 2412MHz | | | | | | | | |
| Parameters | PSD = -16.99dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |



01:16:50 02.06.2021



| | Test Details | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11n – MSC0 | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | |
| Parameters | PSD = -15.26dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| MultiView 88 | Receive | r | X s | pectrum | ¥ 🛙 | Spe | ectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | 4 🔆 🖾 | Spectrur | m 5 🛛 💥 🖾 | l | | | ▼ |
|--------------------------|---------|------------------------|---------|---------|---------------------------|-------|----------|-------|------------|-----|------------|------------|----------|--------------|-----------------|---------|---------|---------------------|
| Ref Leve Att Input | | 0 dBm 10 dB 1 AC | SWT | | idB ● P ms ● V On N | | | Mode | Sweep | | | | | Fr | equency | 2.43 | 370000 |) GHz |
| 1 Frequen | icv Sw | | гJ | | | otten | Oli | | | | | | | | | | ⊙1Pk | View |
| | | <u> </u> | | | | | | | | | | | | | M1[1] | 5 | | 6 dBm |
| 30 dBm | | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | | |
| 20 UBM | | | | | | | | | | | | | | | | | | |
| 10 dBm | | H1 8.0 |)00 dBm | | | _ | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | M1 | | | | | | | |
| -20 dBm | mh | WW | WA | my h | AMA. | AA | AApph | n Myr | hand | MAY | WAAAA | MAMAA | γ | ALAMAN | A CAR | WA/A | And | |
| -30 dBm- | () ľ | | 1 . 1 | | | | | | | | | , | | | | | - " (| |
| N | | | | | | | | | | | | | | | | | Y | M. |
| , 40 dBm | | | | | | | | | | | | | | | | | | 1 11 M |
| -50 dBm | | | | | | + | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| CF 2.437 0 | GHz | | | | | | 1001 p | ots | | | 2 | .0 MHz/ | | | | | pan 20. | |
| | | | | | | | | | | N | leasuring | j (111111) | D | 02.06.2 00:5 | 2021 Re 5:09 | f Level | | RBW |

00:55:10 02.06.2021



| | Test Details | | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | |
| Mode | 802.11n – MSC1 | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | |
| Parameters | PSD = -15.45dBm | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | |

| Multi¥iew 8 | Recei | ver | X s | pectrum | * | Spectrum 2 | 2 | X | Spectrum 3 | ×x | Spectrum | 4 🎽 🕱 | Spectru | m 5 🛛 🔆 🖾 | | | | ▼ |
|-------------------|----------|---------|---------|---------|---------|------------|--------|----------|------------------|-------|-----------|-----------|---------|----------------|-----------|----------|-----------|---------------------|
| Ref Lev Att | rel 40.0 | 10 dB | SWT | | ms 🖷 VI | BW 10 k | Hz M | lode | Sweep | | | | | F | requency | 2.43 | 370000 |) GHz |
| Input 1 Freque | ncv Sv | 1 AC | PS | | On N | otch | Off | _ | | | | | | | | | ⊙1Pk | View |
| 1110440 | | | | | | | | | | | | | | | M1[1] | | | 5 dBm |
| | | | | | | | | | | | | | | | | 2 | .439458 | 30 GHz |
| 30 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | | |
| 20 0.011 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 10 dBm | | H1 8.0 | 000 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | M1 | | | | | | |
| -20 dBm | | <u></u> | h a d | h.h.h. | h her (| 1 A dia | AAA | 11 | March de | how | Ma. | a h s A l | nd at | LA LAL | I A M A J | 1 | h a c | |
| 20 000 | \p^Y/4 | rwww | WV V | 17 V V | WWW | W Y 194 | ry V | (W) | h deserved the f | L) YW | Y YW" | ኯዀኯዾጚ | ™ ₩ \ | (N.N.M.M.M. | (W V V V | A. Maril | M | |
| | V V | | | | 1 | , | | | | | | | | | 1 | T | '` | |
| -30 dBm | | | | | | | | | | ۳ | | | | | | | 6 | |
| . NA | | | | | | | | | | | | | | | | | P | N. |
| -40 dBm- | | | | | | | | | | | | | | | | | | M |
| 4 × | | | | | | | | | | | | | | | | | | . M |
| -50 dBm | | | | | | | | <u> </u> | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 05.0.407 | | | | | | L . | | | | | | | | | | | | |
| CF 2.437 | GHZ | | | | | 1 | 001 pt | S | | | | 2.0 MHz/ | | 02.06 | 2021 Re | f Level | 5pan 20.0 | O MHZ |
| l | | Л | | | | | | | | r | leasuring | g 🚺 📰 📰 | | W 02.06 | 57:21 Ke | ever | | • |

00:57:22 02.06.2021



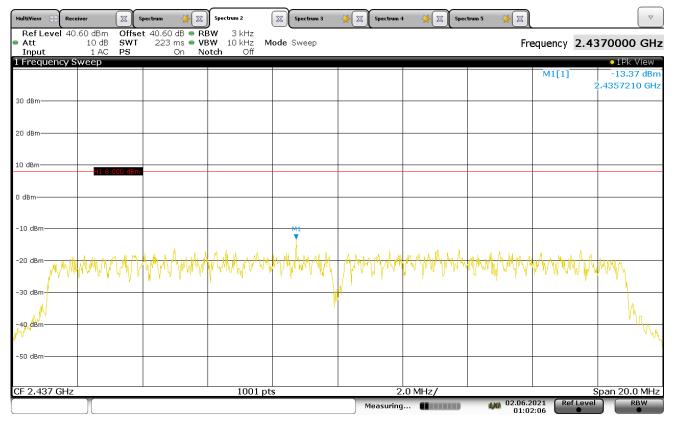
| | Test Details | | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | |
| Mode | 802.11n – MSC2 | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | |
| Parameters | PSD = -15.09dBm | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | |

| MultiView 🔠 | Receive | r | XX S | pectrum | * | Spectrum | 12 | X | Spectrum 3 | | Spectrum | 4 🔆 🕱 | Spectrun | n 5 🛛 🔆 🕱 | l | | | ▼ |
|--------------------|---------|--------|--------|---------|-------------------|--------------|---------------------|-------|------------|--------|-----------|----------------|----------|---|------------------|---------|----------|---------------------|
| Ref Leve Att | | 10 dB | SWT | 223 | dB 🖷 R ms 🖷 VI | 3W 10 | kHz kHz N | /lode | Sweep | | | | | Fr | equency | 2.43 | 370000 |) GHz |
| Input 1 Frequer | icv Sw | 1 AC | PS | | On N | otch | Off | | | | | | | | | | ⊙1Pk | View |
| | | | | | | | | | | | | | | | M1[1] | | | 9 dBm |
| | | | | | | | | | | | | | | | | 2 | .441995 | 50 GHz |
| 30 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | | |
| 20 0011 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 10 dBm | | H1 8.0 | 00 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | M1 | | | | |
| | | N 14 | a 1 | 6 .k. 6 | N JE BEA | M. A. a | . 11. 1 | 6.4. | And | | al d as a | no de la de la | M | dal ha | N 10 | . N . | 1.1. | |
| -20 dBm | JUN/ | ሞፍትፖ | WVW | YV | WW | יעייק | WWY | A.M | <u> </u> | - Mary | WYW | 1 Y V V Y | V W V | $\gamma \gamma \gamma \gamma \gamma \gamma$ | WWW | WVV | MAN N | |
| [] [] | a e e | | 1 Y . | | 1 | | | | , | W - 1 | | | 1.1 | | U . | 1.4 | | |
| -30 dBm | | | | | | | | | | ₩ | | | | | | | | |
| ,N∕ | | | | | | | | | | | | | | | | | V | ۱ _۸ |
| -40 dBm | | | | | | | | _ | | | | | | | | | | VIA |
| NY X | | | | | | | | | | | | | | | | | | V١ |
| -50 dBm | | | | | | | | | | | | | | | | | | |
| SS abiii | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| CF 2.437 (| GHz | | | | | | 1001 p | ts | | | 2 | 2.0 MHz/ | | | | | pan 20.0 | |
| [| | | | | | | | | | | Measuring | g (****** | | 02.06. 00:5 | 2021 Re i9:57 | f Level |) F | RBW |

00:59:58 02.06.2021



| | Test Details | | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | |
| Mode | 802.11n – MSC3 | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | |
| Parameters | PSD = -13.37dBm | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | |



01:02:07 02.06.2021



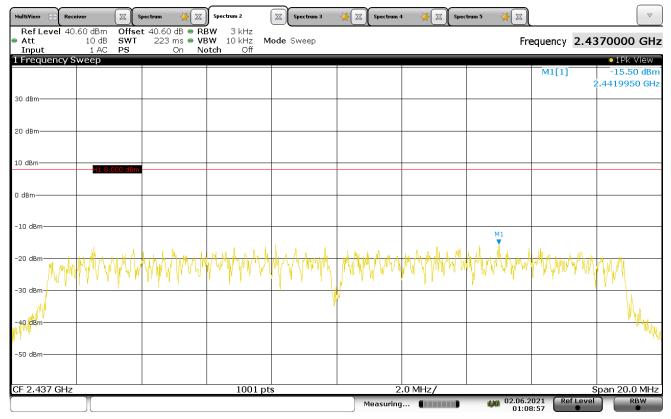
| | Test Details | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11n – MSC4 | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | |
| Parameters | PSD = -21.74dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| MultiView 8 | Receiv | rer | X s | spectrum | ¥ 🕱 | Spectrum 2 | Σ | Spectrum 3 | ×x | Spectrum 4 | 4 🔆 🕅 | Spectrum 5 | ×X | | | | |
|--------------------|----------------|-----------|---------|----------|------------------|------------|--------|------------|----------------------------------|------------|---------------|------------|---------|---------|---------|----------|-------|
| Ref Leve Att | el 40.6 | 10 dB | SWT | 223 | dB 🖷 R ms 🖷 V | 3W 10 kH | lz Mo | de Sweep | | | | | Fre | equency | 2.43 | 70000 | GHz |
| Input 1 Frequer | ncv Sv | 1 AC | PS | | On N | otch (| Off | | | | | | | | | ⊙1Pk \ | View |
| | | | | | | | | | | | | | | M1[1] | | -21.74 | |
| | | | | | | | | | | | | | | | 2 | 432085 | 0 GHz |
| 30 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | | | | |
| | | H1 8. | 000 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 0 dBm—— | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | | | | |
| | | . h | له ، ، | | 1 | | | | | | N IL N | | a | | | | |
| -20 dBm | Lu Ma | MAA | hAA | to Make | N A | Mound | MA | \sqrt{h} | MAL | al datate | th Millath A. | Mart Al | 17LM | AAN | Mak | h.mir | |
| p p | /"¥], | i y ma yi | YVY | l M k. A | ի կի դի թ | YUYY | ųτų | a Ward | $ \langle V^{\prime} \rangle $ | h. when | L. I. II A | A A N. W. | M M at | የየምም | W W W | n A Mal | |
| -30 dBm- | | | - | | | | | 1 | ₩ <u>'</u> | | | | | | | <u> </u> | |
| 8.0 | | | | | | | | | γj | | | | | | | | |
| -40 dBm | | | | | | | | | | | | | | | | પુષ | h |
| NU | | | | | | | | | | | | | | | | | * Y%M |
| -50 dBm | | | | | | | | | | | | | | | | | |
| -30 ubm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| CF 2.437 | GHz | 2.6 | | | | 10 | 01 pts | | | 2 | .0 MHz/ | | | | | pan 20.0 | |
| | | J. | | | | | | | N | leasuring | j (|) (X | 02.06.2 | 021 Ret | f Level | R | B₩ |

01:05:13 02.06.2021



| | Test Details | | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | |
| Mode | 802.11n – MSC5 | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | |
| Parameters | PSD = -15.50dBm | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | |



01:08:57 02.06.2021



| | Test Details | | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | |
| Mode | 802.11n – MSC6 | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | |
| Parameters | PSD = -17.64dBm | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | |

| MultiView 🔠 | Receiu | rer | X s | pectrum | * | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔆 🖾 | Spectrum 5 | * | | | | ▼ |
|-------------|----------------|-----------------|--------------|----------------|--------|-----------------------|-------|------------|------|------------|--------------|---------------|-----------------|------------------|---------|----------|---------------------|
| Ref Leve | el 40.6 | 50 dBm 10 dB | Offse SWT | t 40.60 223 | | SW 3 kHz SW 10 kHz | Mode | sweep | | | | | Fre | equency | 2.43 | 70000 | GHz |
| Input | | 1 AC | | | | otch Off | | | | | | | | oquene, | | | |
| 1 Frequer | ncy Sv | veep | | | | | | | | | | | | _ | | ●1Pk | |
| | | | | | | | | | | | | | | M1[1] | | | 4 dBm |
| | | | | | | | | | | | | | | | 2 | .437939 | 0 GHz |
| 30 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | |
| 20 00111 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 10 dBm | | U1 0 1 | 000 dBm | | | | | | | | | | | | | | |
| | | H1 0. | | | | | | | | | | | | | | | |
| 0. 40 | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | м | 1 | | | | | | | |
| | | | | | | | | | 1 1 | | | | | | | | |
| -20 dBm | 1 4 | u la aru | | a h had | A.A. | Arlal | N No. | A MAN A MA | | i A is lu | A AL A INLA. | <u>MAJA (</u> | l l n i | MM 1 A | A. 8 | તે કો | |
| Δ. | J.M | <u>ዓ/ዓ/ዓ/</u> | WM | MWW | YYW ₩4 | ℕ⋎₩₩₩ | MANN | ov w www. | 17WW | YI\ | V V V WW | I MANY V | VWW. | VV VMM | N NY N | ∩n×M – | |
| -30 dBm | 21 Y. Y | 111 | <u>4</u> . u | 111 | 1.1 | | P | 1 1 1 1 | | y uj | 1 | | (1) | <u> </u> | 7 . 7 | V W | |
| | | | | | | | | 7 | N | | | | | | | <u> </u> | |
| M | | | | | | | | | 1 | | | | | | | - M | |
| -40 dBm | | | | | | | | | | | | | | | | , i i | Make . |
| MV1 - | | | | | | | | | | | | | | | | 1 | INV |
| -50 dBm | | | | | | | | | | | | | | | | | _!!\\ |
| | | | | | | | | | | | | | | | | | · · · · · · · |
| | | | | | | | | | | | | | | | | | |
| CF 2.437 (| GHz | | | | | 1001 | pts | | | 2 | .0 MHz/ | 1 | | | S | pan 20.0 |) MHz |
| | | | | | | | | | M | easuring | (111111) | | 02.06.2 01:1 | 2021 Ref | f Level | | RBW |

01:11:46 02.06.2021



| | Test Details | | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | | |
| Mode | 802.11n – MSC7 | | | | | | | | | | |
| Carrier Frequency | 2437MHz | | | | | | | | | | |
| Parameters | PSD = -24.76dBm | | | | | | | | | | |
| Notes | N/A | | | | | | | | | | |

| Multi¥iew 88 | Receiver | | Spectrum 🔾 | X | Spectrum 2 | ×X | Spectrum 3 | ×x | Spectrum 4 | • 🔆 🖾 | Spectrum 5 | * | | | | • |
|--------------------------------|--------------------|-------------------------|-----------------------------|------|-------------------|---------------|------------------|-------|------------|-------------|-------------|---------------------|-----------------|---------|-------------|----|
| Ref Level Att Input | 40.60 dBm 10 dB | | et 40.60 dB 223 ms On | | 🖊 10 kHz | Mode | Sweep | | | | | Fre | equency | 2.43 | 72000 GH | ١z |
| 1 Frequent | | Pð | UI | NOT | un on | | | | | | | | | | ⊙1Pk View | |
| · · · · | | | | | | | | | | | | | M1[1] | | -24.76 dB | |
| | | | | | | | | | | | | | | 2 | .4395770 GI | Ηz |
| 30 dBm | | | | | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | _ | | | | | | | | | | |
| | H1 8 | .000 dBm | | | | | | | | | | | | | | _ |
| | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | _ | | | | | | | | | | _ |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 1. | . J | | 1 | | | |
| -20 dBm | . I & NI | 1.1 | LAN. AA | AL A | AN JA MAK | h h h | A An | a ha | W. A. M. | M h.L.L | had the | As Level | . II | I AL N | h . | _ |
| 1M | LMAAN I | MAA | MAMA'N. | MM N | N (M) / N (M) / N | nrv. | V NMMMA . | I /WW | MANN. | MAL MARA | I NAMUN | °'104°'10 | ~\{`_M | W W | MAA | |
| -30 dBm- | <u> </u> | ⁿ t in bit i | 1 1 V. V | · · | A AL MALE | <u>' 14 4</u> | <u>, , , 1 (</u> | | 1 | L. M. L. d. | א איז אין א | <u> </u> | | | <u> </u> | |
| 5 | | | | · | | 11 | 1 | N | | | | | | | · ' \ | |
| | | | | | | | | 4 | | | | | | | ll. | |
| -40 dBm | | | | | | | | | | | | | | | 100 | _ |
| AM ^a Y ^y | | | | | | | | | | | | | | | יאי | M |
| -50 dBm | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| CF 2.4372 | GHz | | | | 1001 թ | ots | | | 2 | .0 MHz/ | | | | | pan 20.0 M⊦ | Ιz |
| | | | | | | | | N | leasuring | | • • | 02.06.2 (0) 01:1 | 2021 Re 7:36 | f Level | RBW | |

01:17:36 02.06.2021



| | Test Details |
|-------------------|-----------------|
| Manufacturer | Astronics |
| Model | Focus Pro |
| S/N | 1378290 |
| Mode | 802.11n – MSC0 |
| Carrier Frequency | 2462MHz |
| Parameters | PSD = -15.87dBm |
| Notes | N/A |

| MultiView 🔠 Rec | eiver 🕅 | Spectrum 🔆 🔀 | Spectrum 2 | Spectrum 3 | Spectrum 4 | 4 🔆 🔀 Spec | trum 5 🛛 🔆 🔀 | | |
|------------------------------|---------------------------------------|---|------------|------------|-------------|------------|---------------|---------------|-----------------------------|
| Ref Level 40 Att Input | .60 dBm Offse 10 dB SWT 1 AC PS | t 40.60 dB ● RI 223 ms ● VE On No | | ode Sweep | | | Fre | equency 2.40 | 520000 GHz |
| 1 Frequency S | | | | | | | | | ●1Pk View |
| | | | | | | | | M1[1] | -15.87 dBm 2.4639180 GHz |
| 30 dBm | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| 10 dBm | H1 8,000 dBm | - | | | | | | | |
| 0 dBm | HI 8.000 UBM | | | | | | | | |
| | | | | | | | | | |
| -10 dBm | 1.1 | | | | м | | | 1 | |
| -20 dBm | ψ | | | hwww. | -ppr/hangyd | | www | MMMM | MM |
| -30 dBm | | | | | 1 | | | | MM |
| , <mark>,,,40\dB</mark> m | | | | | | | | | (1 7)M |
| -50 dBm | | | | | | | | | |
| CF 2.462 GHz | 1 | 1 | 1001 pt | s | 2 | .0 MHz/ | I | 5 | Span 20.0 MHz |
| |)[| | | | Measuring | (| 02.06.2 00:55 | 021 Ref Level | RBW |

00:55:50 02.06.2021



| | Test Details |
|-------------------|-----------------|
| Manufacturer | Astronics |
| Model | Focus Pro |
| S/N | 1378290 |
| Mode | 802.11n – MSC1 |
| Carrier Frequency | 2462MHz |
| Parameters | PSD = -15.73dBm |
| Notes | N/A |

| Multi¥iew 88 | Receiver | X | Spectrum | ¥ 🛛 | Spectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • | pectrum 5 🛛 🔆 | X | | |
|---------------------------|----------|---------------------------|----------|------------------------|-------------|-------------|--------------------------------------|------------------|--------------------|----------|-----------------|-------------------------|----------|--------------|
| Ref Level Att Input | 10 | Bm Offs dB SW AC PS | | ms 🖷 VE | | Mode | Sweep | | | | | Frequency | 2.46 | 520000 GHz |
| 1 Frequent | | | | | | | | | | | | | | ●1Pk View |
| · · · · | <u> </u> | | | | | | | | | | | M1[1 |] | -15.73 dBm |
| | | | | | | | | | | | | | | .4594430 GHz |
| 30 dBm | | | _ | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | | | | | | | | |
| | | 11 8.000 de | m | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| -10 dBm | | | _ | | | | | | | | | | | |
| | | | | | M1 | | | | | | | | | |
| | | a b a b | 1. 6 | 0.15.06.6 | . M. L A L. | | Marchan | la ha | N K an | a Karabi | 14.66.8 | AND A SHOP | | A & |
| -20 dBm | ᡃ᠋ᡶ᠕ᡃᡰᠺᡟ | d d d d d | ᡃᡁᠯᢑᡃᢦᡗᢧ | ╎∖∖∕°∖∕° レ/ | V V M V V V | <u>∖</u> ¶¶ | $\nabla \nabla \nabla \nabla \nabla$ | 1707 | $\sqrt{W}\sqrt{1}$ | ▛╲ᡐᡭᡟᡃᢥᠺ | ᠊ᠮᢪᡛᢪᡟᢪᠮᡃᠺᡃᠯ | ᢦᡃᡃᡃᡅᠯᠵᡃᡀᡘᡃᠺᡟᡃᡕ | AM | ለሌላ |
| Į į v | | y, w i i | 1 | ¥ í | 1 N N N | | | ∫ [*] ' | | r i r | | | Y . A J | |
| -30 dBm- | | | | | | | | V | | | | | | |
| M. | | | | | | | | ľ | | | | | | l M. |
| | | | | | | | | | | | | | | l MAL |
| -40 dBm | | | | | | | | | | | | | | Y W |
| 7 W | | | | | | | | | | | | | | |
| -50 dBm | | | _ | | | _ | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| CF 2.462 C | Hz | | | | 1001 թ | ots | | | 2 | .0 MHz/ | | | | pan 20.0 MHz |
| | | | | | | | | N | leasuring | | i 400 00 | 2.06.2021 R 00:58:05 | ef Level | RBW |

00:58:05 02.06.2021



| | Test Details | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11n – MSC2 | | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | | |
| Parameters | PSD = -14.75dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| Ref Level 40.60 dBm Offset 40.60 dB RBW 3 kHz Mode Sweep Prequency 2.4620000 GH Input 14 C PS On Notch Off 10 kHz Mode Sweep 10 kHz | Multi¥iew 🔠 Receiv | ver 🛛 |
|--|--------------------|-------------------|
| 1 Frequency Sweep • 1Pk View 30 dBm 2.4632390 GH 20 dBm 10 dBm 10 dBm 10 dBm | Att | 10 dB SW1 |
| 30 dBm 10 dBm 11 8000 dBm 11 8000 dBm -10 dBm -10 dBm -11 4,75 dB | | |
| 30 dBm 2.4632390 GH 20 dBm 10 dBm 10 dBm 10 dBm | , í | - |
| 20 dBm- 10 dBm- -10 dBm- | | |
| 20 dBm- 10 dBm- -10 dBm- | 30. dBm | |
| 10 dBm BI BICIO dom Image: Second dom Image: Second dom Image: Second dom 0 dBm Image: Second dom Image: Second dom Image: Second dom Image: Second dom -10 dBm Image: Second dom Image: Second dom Image: Second dom Image: Second dom | 50 UBII | |
| 10 dBm BI BICIO dom Image: Second dom Image: Second dom Image: Second dom 0 dBm Image: Second dom Image: Second dom Image: Second dom Image: Second dom -10 dBm Image: Second dom Image: Second dom Image: Second dom Image: Second dom | | |
| | 20 dBm | |
| | | |
| | | |
| | 10 dBm- | H1 8.000 dB |
| | | |
| | 0 dBm | |
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| | | |
| | -10 dBm | |
| -20 dBm Jan Augurt Warder Ward | | |
| -so apu ta catala a la aliana a la aliana a la aliana a a aliana a a a a a a a a a a a a a a a a a a | | A. J. N. N. J. A. |
| | -20 dBm | เพางหม |
| | 4 VV | |
| -30 dBm | -30 dBm | |
| | . M | |
| | M^{\times} | |
| k94,d8m | +40,dBm | |
| | y y | |
| -50 dBm | -50 dBm | |
| | | |
| | | |
| CF 2.462 GHz 1001 pts 2.0 MHz/ Span 20.0 MH | CF 2.462 GHz | |
| Measuring (02.06.2021 01:00:43 (Ref Level) RBW | ſ | Υ |

01:00:43 02.06.2021



| | Test Details | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | |
| Model | Focus Pro | | | | | | | | |
| S/N | 1378290 | | | | | | | | |
| Mode | 802.11n – MSC3 | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | |
| Parameters | PSD = -19.08dBm | | | | | | | | |
| Notes | N/A | | | | | | | | |

| Multi¥iew 88 | Receiver | X | Spectrum | * | X) : | Spectrum 2 👌 | • 🖾 | Spectrum 3 | * | Spectrum 4 | • 🔆 🕅 🕅 | pectrum 5 | ×X | | | | ▼ |
|--------------------|----------|----------|--------------------|--------------------|--------|------------------------|------|------------------|----------|-----------------|--------------------------|--------------|---------------|---------|---------|---------|-----------------------|
| Ref Leve • Att | | | ffset 40. WT 22 | 60 dB 🖷 23 ms 🖷 | | | Mode | Sweep | | | | | Fn | equency | 2.46 | 522000 |) GHz |
| Input | 1 | AC P | | | Note | | | | | | | | | oquene, | | | |
| 1 Frequen | cy Swee | ep | | | | | | | | | | | | | | ●1Pk | |
| | | | | | | | | | | | | | | M1[1] | | | 8 dBm |
| | | | | | | | | | | | | | | | 2 | .461640 | 00 GHz |
| 30 dBm | | | | | | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | | _ | | ļ | | | | | | | | |
| | | H1 8.000 | dBm | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | i . | | цк | . ni . | tin a. | | | 4.8 | J. N. N. | | h | | ۸ | 1 | | |
| -20 dBm | A.M. A.J | lmm 1 | Autono | ᡰᡁᠲᢧᠣ | WW | Ŋ,᠕᠗ᠰᡗ᠘ᢞᡰ ᢦ | 4 | WWW.M | MAN | tr tr the state | t h (William) | thhu | $\frac{1}{2}$ | MALALIC | Mit. | Michal | |
| (¹ /1) | an in la | ni y v. | w Hell N | 411 | V | WU Y U | N 4 | W 4.16 | l v v | A.A.A. | i Vite - v | MANA | V Y Y | A 1.X.M | . I J | · * \/Y | |
| -30 dBm | | | | | | | _ | | <u> </u> | | | | | | | | |
| N | | | | | | | | | | | | | | | | 0 | 4 |
| Les Mart | | | | | | | | | | | | | | | | | 1.00 |
| -40 dBm | | | | | | | | | | | | | | | | | MAN |
| 1 N 1 | | | | | | | | | | | | | | | | | - 1 M |
| -50 dBm | | | | | | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| CF 2.4622 | GHz | | | | | 1001 p | ots | | | 2 | .0 MHz/ | | | | S | pan 20. | 0 MHz |
| | | | | | | | | | N | leasuring | |) <i>U</i> X | 02.06.2 | 2:50 Re | f Level | | RBW) |

01:02:50 02.06.2021



| | Test Details |
|-------------------|-----------------|
| Manufacturer | Astronics |
| Model | Focus Pro |
| S/N | 1378290 |
| Mode | 802.11n – MSC4 |
| Carrier Frequency | 2462MHz |
| Parameters | PSD = -15.23dBm |
| Notes | N/A |

| Multi¥iew 88 | Receiv | er | X s | pectrum | ¥ 🛙 | Spe | ectrum 2 | X | Spectrum 3 | ×x | Spectrum 4 | • 🔌 🖾 | Spectrum 5 | ×x | | | | ▼ |
|--------------------------|----------------|------------------------|---------|---------|---------------------------|-------|----------|------|------------|------|------------|-----------|------------|-----------------|-----------------|---------|---------|---------------------|
| Ref Leve Att Input | el 40.6 | 0 dBm 10 dB 1 AC | SWT | 223 | ∣dB ● P ms ● V On N | | | Mode | Sweep | | | | | Fr | equency | 2.46 | 520000 |) GHz |
| 1 Frequen | icv Sv | | 13 | | | loten | 011 | | | | | | | | | | o1Pk | View |
| | | | | | | | | | | | | | | | M1[1] | | | 23 dBm |
| | | | | | | | | | | | | | | | | 2 | .46323 | 90 GHz |
| 30 dBm | | | | | | _ | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | _ | | | | | | | | | | | | |
| | | H1 8.0 | 000 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | M1 | | | | | | | |
| | | 1 | | | ALA | | and the | 11 | | . 11 | d Nh | 14.1 | NUT | | 4 | | | |
| -20 dBm | 1.11 | ኬዮስቲ | 1.01/1. | RAN | han tu | λM | 1444 | ᢂᡟᠧᢔ | hruma | | htatii | ለካለክለስ | JWW | *////// | MARIA | A IN IN | NA A | |
| - YY | V V V | " W Y | u la se | mhið | - Y ' | 1 | W P | ۹V. | A A A A A | 1 | A. K. C. | 1 Y U W V | " | V A | r vγ⊽ | WVV | "Y V \ | |
| -30 dBm- | 1 | | | | | _ | | | | 1 | | | | | | | | |
| N. | | | | | | | | | | 1 | | | | | | | | |
| . M ¹¹ | | | | | | | | | | | | | | | | | V V | Jan |
| -40 dBm | | | | | | | | | | | | | | | | | | Mad |
| Man, 1 | | | | | | | | | | | | | | | | | | - 1944 1944 |
| -50 dBm | | | | | | _ | | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| CF 2.462 (| GHz | | | | | | 1001 p | ots | | | 2 | .0 MHz/ | | | | | pan 20. | |
| | | | | | | | | | | | leasuring | | | 02.06.2 01:0 | 2021 Re 6:24 | f Level | | RBW |

01:06:24 02.06.2021



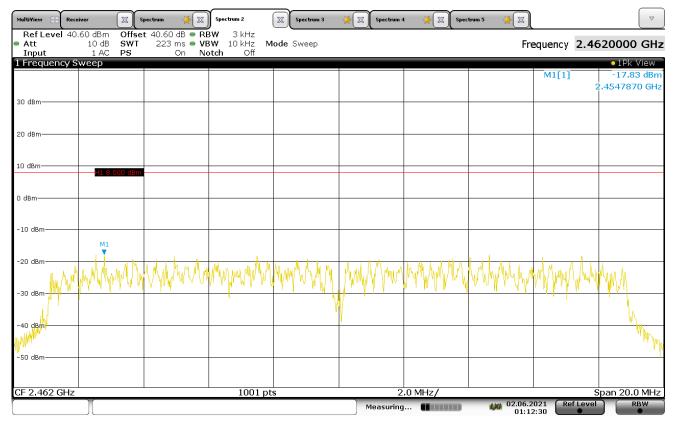
| | Test Details | | | | | | | | | |
|-------------------|-----------------|--|--|--|--|--|--|--|--|--|
| Manufacturer | Astronics | | | | | | | | | |
| Model | Focus Pro | | | | | | | | | |
| S/N | 1378290 | | | | | | | | | |
| Mode | 802.11n – MSC5 | | | | | | | | | |
| Carrier Frequency | 2462MHz | | | | | | | | | |
| Parameters | PSD = -15.61dBm | | | | | | | | | |
| Notes | N/A | | | | | | | | | |

| Multi¥iew 88 | Receiver | (| X s | pectrum | - \} [X |) st | pectrum 2 | X | Spectrum 3 | * | Spectrum 4 | • 🔆 🖾 | Spectrun | n 5 🛛 🔆 🕅 |) | | | |
|-------------------|----------|--------------|--------------|---------|--------------------|------|----------------|----------|-----------------------|--------|------------|----------------|----------|------------------|-------------------|----------|----------|--------|
| Ref Leve • Att | | dBm .0 dB | Offse SWT | | dB 🖷 R ms 🖷 V | | | ode | Sweep | | | | | F | requency | 2.40 | 520000 |) GHz |
| Input | | 1 AC | PS | | | otcl | | | | | | | | | requeitey | 2. 1 | | |
| 1 Frequen | icy Swe | ер | | | | | | | | | | | | | | | ⊙1Pk | |
| | | | | | | | | | | | | | | | M1[1] | | | 51 dBm |
| | | | | | | | | | | | | | | | | 2 | 2.460741 | 10 GHz |
| 30 dBm | | | | | | + | | <u> </u> | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 20 dBm | | | | | | | | | | | | | | | | - | | |
| | | | | | | | | | | | | | | | | | | |
| 10 dBm | | | | | | _ | | | | | | | | | | | | |
| | | H1 8.00 | 00 dBm | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | | | | | | - | | |
| | | | | | | | | | | | | | | | | | | |
| -10 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | м1 | | | | | | | | | |
| | | | | | 1. 6 | | | | | | 0 | h in | 6 | | 1 | | | |
| -20 dBm | h sh he | Ashin | AA. | holds. | \mathbb{A} | 1A | A RUA Auto | Mt | ah mite A- | Alla | MA N | Antaka | ML | ՠՠֈֈֈՠ | ANALAN | will h | 10 AM | |
| .Mu | /\/M\\ | `\W. | 4 V V | WW Y | ' V Y Y | (Y) | A ALE MENT A L | [₩' | W W W V L |] W 78 | የጥህነ | u. Al Anal a 7 | - UN | an NU ANA I | (Y Y W | יוע איי | @ W WN | |
| -30 dBm | 14 | | | · | | | | | · · · · | / | | | | | | <u> </u> | 1.1.1 | |
| 00 0.0 | | | | | | | | | | | | | | | | | | |
| L N | | | | | | | | | | | | | | | | | V | 4 |
| -40 dBm | | | | | | + | | | | | | | | | | | | Ma |
| JMN' | | | | | | | | | | | | | | | | | | 1 M.A |
| FO dBm | | | | | | | | | | | | | | | | | | . V . |
| -50 dBm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| CF 2,462 C | GHz | | | I | | | 1001 pt | s S | | | 2 | .0 MHz/ | | | | | Span 20. | 0 MHz |
| | ١ | ſ | | | | | | | | | | | | 100 02.06 | .2021 Re 09:36 | ef Level | | RBW |
| L | | | | | | | | | | | | | | 01: | 09:36 🕒 | | | |

01:09:37 02.06.2021



| | Test Details |
|-------------------|-----------------|
| Manufacturer | Astronics |
| Model | Focus Pro |
| S/N | 1378290 |
| Mode | 802.11n – MSC6 |
| Carrier Frequency | 2462MHz |
| Parameters | PSD = -17.83dBm |
| Notes | N/A |



01:12:31 02.06.2021



| | Test Details |
|-------------------|-----------------|
| Manufacturer | Astronics |
| Model | Focus Pro |
| S/N | 1378290 |
| Mode | 802.11n – MSC7 |
| Carrier Frequency | 2462MHz |
| Parameters | PSD = -15.82dBm |
| Notes | N/A |

| MultiView 🔠 Receiver | SI SI | pectrum 🔆 🔀 | Spectrum 2 | Spectrum 3 | Spectrum 4 | 4 🔆 🔀 Spec | trum 5 🛛 🔆 🔀 | | |
|----------------------|--------------|--------------------------------|-------------------|-------------|---|-------------|-----------------------------|---|-------------------------|
| | lodb SWT | t 40.60 dB • RE 223 ms • VE | 3WI 10 kHz M | ode Sweep | | | Fre | equency 2.40 | 520000 GHz |
| | 1 AC PS | On No | otch Off | - | | | | | |
| 1 Frequency Swe | ep | | | | | | | M1[1] | ●1Pk View -15.82 dBm |
| | | | | | | | | | 2.4604020 GHz |
| 30 dBm | | | | | | | | | |
| 00 00. | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | H1 8.000 dBm | | | | | | | | |
| | H1 8.000 UBM | | | | | | | | |
| 0 dBm | | | | | | | | | |
| o ubiii | | | | | | | | | |
| | | | | | | | | | |
| -10 dBm | | | | M1 | | | | | |
| | | | | Ţ | | | | | |
| -20 dBm | See Fill | the Maria | a. J. s. M | N PAJA | A A A A A A | bet in the | | ald c Aa | () |
| A Andrew | MMMM MA | N MANANANA | 14. A AN AN AN AN | 1. WWWWWWW | 111111111111111111111111111111111111111 | NA WANA 🛛 🕅 | i Manana Katana | የየየትዲሞት እስከ የነ | M.A.A. |
| -30 dBm | 1 4 M 1 1 1 | 1 4 1 11 1 41 | | 1 1 1 1 1 1 | hill have the | ern try t | A.D. I. W. W. | <u>, , , , , , , , , , , , , , , , , , , </u> | r yrwy |
| | | · · · · | | প | V | | | (| 11 |
| | | | | | | | | | M. |
| -40 dBm | | | | | | | | | Man. |
| M ^r 1 | | | | | | | | | 1410 |
| -50 dBm | | | | | | | | | |
| | | | | | | | | | |
| CF 2.462 GHz | | | 1001 pt | s | 2 | .0 MHz/ | | (| Span 20.0 MHz |
| | ſ | | 1001 pt | 5 | | I | 1/1 02.06.2 01:19 | 021 Ref Level | |

01:19:01 02.06.2021

31. Scope of Accreditation



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELITE ELECTRONIC ENGINEERING, INC. 1516 Centre Circle Downers Grove, IL 60515 Robert Bugielski (QA Manager) Phone: 630 495 9770 ext. 168 Email: rbugielski@elitetest.com Craig Fanning (EMC Lab Manager) Phone: 630 495 9770 ext. 112 Email: cfanning@elitetest.com Brandon Lugo (Automotive Team Leader) Phone: 630 495 9770 ext. 163 Email: blugo@elitetest.com Richard King (FCC/Commercial Team Leader) Phone: 630 495 9770 ext. 123 Email: reking@elitetest.com Website: www.elitetest.com

ELECTRICAL

Valid to: June 30, 2021

Certificate Number: 1786.01

In recognition of the successful completion of the A2LA Accreditation Program evaluation process, accreditation is granted to this laboratory to perform the following <u>automotive electromagnetic</u> <u>compatibility and other electrical tests</u>:

| Test Technology: | Test Method(s) 1: | | | | |
|-------------------------------|--|--|--|--|--|
| Transient Immunity | ISO 7637-2 (including emissions); ISO 7637-3; | | | | |
| | ISO 16750-2:2012, Sections 4.6.3 and 4.6.4; | | | | |
| | CS-11979, Section 6.4; CS.00054, Section 5.9; | | | | |
| | EMC-CS-2009.1 (CI220); FMC1278 (CI220, CI221, CI222); | | | | |
| | GMW 3097, Section 3.5; | | | | |
| | SAE J1113-11; SAE J1113-12; | | | | |
| | ECE Regulation 10.06 Annex 10 | | | | |
| Electrostatic Discharge (ESD) | ISO 10605 (2001, 2008); | | | | |
| ••• | CS-11979 Section 7.0; CS.00054, Section 5.10; | | | | |
| | EMC-CS-2009.1 (CI 280); FMC1278 (CI280); SAE J1113-13; | | | | |
| | GMW 3097 Section 3.6 | | | | |
| Conducted Emissions | CISPR 25 (2002, 2008), Sections 6.2 and 6.3; | | | | |
| | CISPR 25 (2016), Sections 6.3 and 6.4; | | | | |
| | CS-11979, Section 5.1; CS.00054, Sections 5.6.1 and 5.6.2; GMW 3097, Section 3.3.2; | | | | |
| | EMC-CS-2009.1 (CE 420); FMC1278 (CE420, CE421) | | | | |

(A2LA Cert. No. 1786.01) Revised 12/02/2020

Page 1 of 8

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org



| Test Technology: | Test Method(s) ¹ : |
|--|--|
| Radiated Emissions Anechoic | CISPR 25 (2002, 2008), Section 6.4; CISPR 25 (2016), Section 6.5; CS-11979, Section 5.3; CS.00054, Section 5.6.3; GMW 3097, Section 3.3.1; EMC-CS-2009.1 (RE 310); FMC1278 (RE310); ECE Regulation 10.06 Annex 7 (Broadband) ECE Regulation 10.06 Annex 8 (Narrowband) |
| Vehicle Radiated Emissions | CISPR 12; ICES-002; ECE Regulation 10.06 Annex 5 |
| Bulk Current Injection (BCI) | ISO 11452-4; CS-11979, Section 6.1; CS.00054, Section 5.8.1; GMW 3097, Section 3.4.1; SAE J1113-4; EMC-CS-2009.1 (RI112); FMC1278 (RI112); ECE Regulation 10.06 Annex 9 |
| Bulk Current Injections (BCI) (Closed Loop Method) | ISO 11452-4; SAE J1113-4 |
| Radiated Immunity Anechoic (Including Radar Pulse) | ISO 11452-2; ISO 11452-5; CS-11979, Section 6.2; CS.00054, Section 5.8.2; GMW 3097, Section 3.4.2; EMC-CS-2009.1 (RI114); FMC1278 (RI114); SAE J1113-21; ECE Regulation 10.06 Annex 9 |
| Radiated Immunity Magnetic Field | ISO 11452-8 |
| Radiated Immunity Reverb | ISO/IEC 61000-4-21; GMW 3097, Section 3.4.3; EMC-CS-2009.1 (RI114); FMC1278 (RI114); ISO 11452-11 |
| Radiated Immunity (Portable Transmitters) | ISO 11452-9; EMC-CS-2009.1 (RI115); FMC1278 (RI115) |
| Vehicle Radiated Immunity (ALSE) | ISO 11451-2; ECE Regulation 10.06 Annex 6 |
| Electrical Loads | ISO 16750-2, Sections 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.11, and 4.12 |
| Dielectric Withstand Voltage | MIL-STD-202, Method 301; EIA-364-20D |
| Insulation Resistance | MIL-STD-202, Method 302; SAE/USCAR-2, Revision 6, Section 5.5.1; EIA-364-21D |
| Contact Resistance | MIL-STD-202, Method 307; SAE/USCAR-2, Revision 6, Section 5.3.1; EIA-364-23C; USCAR21-3 Section 4.5.3 |
| (A2LA Cert. No. 1786.01) Revised 12/02/2 | |



| Test Technology: | Test Method(s) ¹ : |
|--|--|
| DC Resistance | MIL-STD-202, Method 303 |
| Contact Chatter | MIL-STD-202, Method 310; |
| | SAE/USCAR-2, Revision 6, Section 5.1.9 |
| Voltage Drop | SAE/USCAR-2, Revision 6, Section 5.3.2; USCAR21-3 Section 4.5.6 |
| Emissions Radiated and Conducted (3m Semi-anechoic chamber, up to 40 GHz) | 47 CFR, FCC Part 15 B (using ANSI C63.4:2014); 47 CFR, FCC Part 18 (using FCC MP-5:1986); ICES-001; ICES-003; ICES-005; IEC/CISPR 11, Ed. 4.1 (2004-06); AS/NZS CISPR 11 (2004); IEC/CISPR 11 Ed 5 (2009-05) + A1 (2010); KN 11 (2008-5) with RRL Notice No. 2008-3 (May 20, 2008); CISPR 11; EN 55011; KN 11; CNS 13803 (1997, 2003); CISPR 14-1; EN 55014-1; AS/NZS CISPR 14.1; KN 14-1; IEC/CISPR 22 (1997); EN 55022 (1998) + A1(2000); EN 55022 (1998) + A1(2000) + A2(2003); EN 55022 (2006); IEC/CISPR 22 (2008-09); AS/NZS CISPR 22 (2004); AS/NZS CISPR 22, 3rd Edition (2006); KN 22 (up to 6 GHz); CNS 13438 (up to 6 GHz); VCCI V-3 (up to 6 GHz); |
| | CISPR 32; EN 55032; KN 32; ECE Regulation 10.06 Annex 14 |
| Current Harmonics | IEC 61000-3-2; EN 61000-3-2; KN 61000-3-2; ECE Regulation 10.06 Annex 11 |
| Flicker and Fluctuations | IEC 61000-3-3; EN 61000-3-3; KN 61000-3-3; ECE Regulation 10.06 Annex 12 |
| Immunity | |
| Electrostatic Discharge | IEC 61000-4-2, Ed. 1.2 (2001); IEC 61000-4-2 (1995) + A1(1998) + A2(2000); EN 61000-4-2 (1995); EN 61000-4-2 (2009-05); KN 61000-4-2 (2008-5); RRL Notice No. 2008-4 (May 20, 2008); IEC 61000-4-2; EN 61000-4-2; KN 61000-4-2; IEEE C37.90.3 2001 |
| Radiated Immunity | IEC 61000-4-3 (1995) + A1(1998) + A2(2000); IEC 61000-4-3, Ed. 3.0 (2006-02); IEC 61000-4-3, Ed. 3.2 (2010); KN 61000-4-3 (2008-5); RRL Notice No. 2008-4 (May 20, 2008); IEC 61000-4-3; EN 61000-4-3; KN 61000-4-3; IEEE C37.90.2 2004 |
| Electrical Fast Transient/Burst | IEC 61000-4-4, Ed. 2.0 (2004-07); IEC 61000-4-4, Ed. 2.1 (2011); IEC 61000-4-4 (1995) + A1(2000) + A2(2001); KN 61000-4-4 (2008-5); RRL Notice No. 2008-5 (May 20, 2008); IEC 61000-4-4; EN 61000-4-4; KN 61000-4-4; ECE Regulation 10.06 Annex 15 |
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| Test Technology: | Test Method(s) 1: |
|--|---|
| Immunity (cont'd) Surge | IEC 61000-4-5 (1995) + A1(2000); IEC 61000-4-5, Ed 1.1 (2005-11); EN 61000-4-5 (1995) + A1(2001); KN 61000-4-5 (2008-5); RRL Notice No. 2008-4 (May 20, 2008); IEC 61000-4-5; EN 61000-4-5; KN 61000-4-5; IEEE C37.90.1 2012; IEEE STD C62.41.2 2002; ECE Regulation 10.06 Annex 16 |
| Conducted Immunity | IEC 61000-4-6 (1996) + A1(2000); IEC 61000-4-6, Ed 2.0 (2006-05); IEC 61000-4-6 Ed. 3.0 (2008); KN 61000-4-6 (2008-5); RRL Notice No. 2008-4 (May 20, 2008); EN 61000-4-6 (1996) + A1(2001); IEC 61000-4-6; EN 61000-4-6; KN 61000-4-6 |
| Power Frequency Magnetic Field Immunity | IEC 61000-4-8 (1993) + A1(2000); IEC 61000-4-8 (2009); EN 61000-4-8 (1994) + A1(2000); KN 61000-4-8 (2008-5); RRL Notice No. 2008-4 (May 20, 2008); IEC 61000-4-8; EN 61000-4-8; KN 61000-4-8 |
| Voltage Dips, Short Interrupts, and Line Voltage Variations | IEC 61000-4-11, Ed. 2 (2004-03); KN 61000-4-11 (2008-5); RRL Notice No. 2008-4 (May 20, 2008); IEC 61000-4-11; EN 61000-4-11; KN 61000-4-11 |
| Ring Wave | IEC 61000-4-12, Ed. 2 (2006-09); EN 61000-4-12:2006; IEC 61000-4-12; EN 61000-4-12; KN 61000-4-12; IEEE STD C62.41.2 2002 |
| Generic and Product Specific EMC Standards | IEC/EN 61000-6-1; AS/NZS 61000-6-1; KN 61000-6-1; IEC/EN 61000-6-2; AS/NZS 61000-6-2; KN 61000-6-2; IEC/EN 61000-6-3; AS/NZS 61000-6-3; KN 61000-6-3; IEC/EN 61000-6-4; AS/NZS 61000-6-4; KN 61000-6-4; EN 50130-4; EN 61326-1; IEC/CISPR 14-2; EN 55014-2; AS/NZS CISPR 14.2; KN 14-2; IEC/CISPR 24; AS/NZS CISPR 24; EN 55024; KN 24; IEC 60601-1-2; JIS T0601-1-2 |
| TxRx EMC Requirements | EN 301 489-1; EN 301 489-3; EN 301 489-9; EN 301 489-17; EN 301 489-19 |
| European Radio Test Standards | ETSI EN 300 086-1; ETSI EN 300 086-2; ETSI EN 300 113-1; ETSI EN 300 113-2; ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 300 330-1; ETSI EN 300 330-2; ETSI EN 300 440-1; ETSI EN 300 440-2; ETSI EN 300 422-1; ETSI EN 300 422-2; |
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| Test Technology: | Test Method(s) 1: |
|--|---|
| European Radio Test Standards (cont'd) | ETSI EN 300 328; ETSI EN 301 893; ETSI EN 301 511; ETSI EN 301 908-1; ETSI EN 908-2; ETSI EN 908-13; ETSI EN 303 413; ETSI EN 302 502 |
| Canadian Radio Tests | RSS-102 (RF Exposure Evaluation only); RSS-111; RSS-112; RSS-117; RSS-119; RSS-123; RSS-125; RSS-127; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-137; RSS-139; RSS-140; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-191; RSS-192; RSS-194; RSS-195; RSS-196; RSS-197; RSS-199; RSS-210; RSS-211; RSS-213; RSS-215; RSS-216; RSS-220; RSS-222; RSS-236; RSS-238; RSS-243; RSS-244; RSS-247; RSS-251; RSS-252; RSS-287; RSS-288; RSS-310; RSS-GEN |
| Mexico Radio Tests | IFT-008-2015; NOM-208-SCFI-2016 |
| Japan Radio Tests | Radio Law No. 131, Ordinance of MPT No. 37, 1981, MIC Notification No. 88:2004, Table No. 22-11; ARIB STD-T66, Regulation 18 |
| Taiwan Radio Tests | LP-0002 |
| Australia/New Zealand Radio Tests | AS/NZS 4268; Radiocommunications (Short Range Devices) Standard (2014) |
| Hong Kong Radio Tests | HKCA 1039 Issue 6; HKCA 1042; HKCA 1033 Issue 7; HKCA 1061; HKCA 1008; HKCA 1043; HKCA 1057; HKCA 1073 |
| Korean Radio Test Standards | KN 301 489-1; KN 301 489-3; KN 301 489-9; KN 301 489-17; KN 301 489-52 |
| Unlicensed Radio Frequency Devices (3 Meter Semi-Anechoic Room) | 47 CFR FCC Part 15C, 15D, 15E, 15F, 15G, 15H (using ANSI C63.10:2013, ANSI C63.17:2013 and FCC KDB 905462 D02 (v02)) |
| Licensed Radio Service Equipment | 47 CFR FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80, 87, 90, 95, 96, 97, 101; ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015; |
| OTA (Over the Air) Performance GSM, GPRS, EGPRS UMTS (W-CDMA) LTE including CAT M1 A-GPS for UMTS/GSM LTS A-GPS, A-GLONASS, SIB8/SIB16 Large Device/Laptop/Tablet Testing Integrated Device Testing WiFi 802.11 a/b/g/n/a | CTIA Test Plan for Wireless Device Over-the-Air Performance (Method for Measurement for Radiated Power and Receiver Performance) V3.8.2; CTIA Test Plan for RF Performance Evaluation of WiFi Mobile Converged Devices V2.1.0 |

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| Test Technology: | Test Method(s) ¹ : |
|-----------------------------|-------------------------------|
| Electrical Measurements and | |

| Simulation | |
|--|---------------------|
| AC Voltage / Current | FAA AC 150/5345-10H |
| (1mV to 5kV) 60 Hz | FAA AC 150/5345-43J |
| (0.1V to 250V) up to 500 MHz | FAA AC 150/5345-44K |
| (1µA to 150A) 60 Hz | FAA AC 150/5345-46E |
| DC Voltage / Current | FAA AC 150/5345-47C |
| (1mV to 15-kV) / (1µA to 10A) | FAA EB 67D |
| Power Factor / Efficiency / Crest Factor | |
| (Power to 30kW) | |
| Resistance | |
| (1mΩ to 4000MΩ) | |
| Surge | |
| (Up to 10 kV / 5 kA) (Combination | |
| Wave and Ring Wave) | |

On the following products and materials:

Telecommunications Terminal Equipment (TTE), Radio Equipment, Network Equipment, Information Technology Equipment (ITE), Automotive Electronic Equipment, Automotive Hybrid Electronic Devices, Maritime Navigation and Radio Communication Equipment and Systems, Vehicles, Boats and Internal Combustion Engine Driven Devices, Automotive, Aviation, and General Lighting Products, Medical Electrical Equipment, Motors, Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment, Household Appliances, Electric Tools, Low-voltage Switchgear and Control gear, Programmable Controllers, Electrical Equipment for Measurement, Control and Laboratory Use, Base Materials, Power and Data Transmission Cables and Connectors

¹When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is expected to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA *R101* - *General Requirements* - *Accreditation of ISO-IEC* 17025 Laboratories.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

| Rule Subpart/Technology | Test Method | Maximum Frequency (MHz) |
|--|--------------------------|-------------------------------|
| <u>Unintentional Radiators</u> Part 15B | ANSI C63.4:2014 | 40000 |
| Industrial, Scientific, and Medical Equipment Part 18 | FCC MP-5 (February 1986) | 40000 |
| Intentional Radiators Part 15C | ANSI C63.10:2013 | 40000 |
| <u>Unlicensed Personal Communication</u> <u>Systems Devices</u> Part 15D | ANSI C63.17:2013 | 40000 |
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Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

| Rule Subpart/Technology | Test Method | Maximum Frequency (MHz) |
|--|---|-------------------------------|
| <u>U-NII without DFS Intentional Radiators</u> Part 15E | ANSI C63.10:2013 | 40000 |
| <u>U-NII with DFS Intentional Radiators</u> Part 15E | FCC KDB 905462 D02 (v02) | 40000 |
| <u>UWB Intentional Radiators</u> Part 15F | ANSI C63.10:2013 | 40000 |
| BPL Intentional Radiators Part 15G | ANSI C63.10:2013 | 40000 |
| White Space Device Intentional Radiators Part 15H | ANSI C63.10:2013 | 40000 |
| <u>Commercial Mobile Services (FCC Licensed</u> <u>Radio Service Equipment)</u> Parts 22 (cellular), 24, 25 (below 3 GHz), and 27 | ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015 | 40000 |
| <u>General Mobile Radio Services (FCC</u> <u>Licensed Radio Service Equipment)</u> Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97, and 101 (below 3 GHz) | ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015 | 40000 |
| <u>Citizens Broadband Radio Services (FCC</u> <u>Licensed Radio Service Equipment)</u> Part 96 <u>Maritime and Aviation Radio Services</u> | ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015 | 40000 |
| Parts 80 and 87 | ANSI/TIA-603-E; ANSI C63.26:2015 | 40000 |
| <u>Microwave and Millimeter Bands Radio</u> <u>Services</u> Parts 25, 30, 74, 90 (above 3 GHz), 97 (above 3 GHz), and 101 | ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015 | 40000 |
| Broadcast Radio Services Parts 73 and 74 (below 3 GHz) | ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015 | 40000 |
| | | |

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Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

| Rule Subpart/Technology | Test Method | Maximum Frequency (MHz) |
|--|------------------|-------------------------------|
| <u>Signal Boosters</u> Part 20 (Wideband Consumer Signal Boosters, Provider-specific signal boosters, and Industrial Signal Boosters) Section 90.219 | ANSI C63.26:2015 | 40000 |

²Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.

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Accredited Laboratory

A2LA has accredited

ELITE ELECTRONIC ENGINEERING INC.

Downers Grove, IL

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 8th day of August 2019.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 1786.01 Valid to June 30, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.