

TEST REPORT

ACCORDING TO: FCC 47CFR part 96

FOR:

Airspan Networks Inc.

LTE Base Station Radio

Model: AirSpeed 1000, 3.550-3.700 GHz (B48)

FCC ID:PIDAS1000

This report is in conformity with ISO/ IEC 17025. The "A2LA Accredited" symbol endorsement applies only to the tests and calibrations that are listed in the scope of Hermon Laboratories accreditation. The test results relate only to the items tested.
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1 Applicant information

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Telephone: +1 561 893 8670
Fax: +1 561 893 8671
E-mail: zlevi@airspan.com
Contact name: Mr. Zion Levi

2 Equipment under test attributes

Product name: LTE Base Station Radio
Product type: Transceiver
Model(s): AirSpeed 1000 3.550-3.700 GHz (B48)
Serial number: DA5F27CD882A
Hardware version: C0
Software release: SR 16.00
Receipt date 01-Oct-18

3 Manufacturer information

Manufacturer name: Airspan Networks Inc.
Address: 777 Yamato, Road Suite 310 Boca Raton, FL 33431, USA
Telephone: +1 561 893 8670
Fax: +1 561 893 8671
E-Mail: zlevi@airspan.com
Contact name: Mr. Zion Levi

4 Test details




Project ID: 31512
Location: Hermon Laboratories Ltd. P.O. Box 23, Binyamina 3055001, Israel
Test started: 26-Sep-18
Test completed: 01-Nov-18
Test specification(s): FCC 47CFR part 96

5 Tests summary

| Test | Status |
|---|--------|
| Transmitter characteristics | |
| Section 96.41(b), Maximum EIRP and maximum power spectral density | Pass |
| Section 96.41(g), Peak-to- average power ratio | |
| Section 2.1049, Occupied bandwidth | Pass |
| Section 96.41(e), Emission mask | Pass |
| Section 96.41(e)(2), Radiated spurious emissions | Pass |
| Section 96.41(e)(3), Conducted spurious emissions | Pass |
| Section 2.1055, Frequency stability | Pass |

Testing was completed against all relevant requirements of the test standard. The results obtained indicate that the product under test complies in full with the requirements tested.
The test results relate only to the items tested. Pass/ fail decision was based on nominal values.

This test report supersedes the previously issued test report identified by Doc ID: AIR RAD_FCC.31512_rev6

| | Name and Title | Date | Signature |
|---------------------|---|-------------------|---|
| Tested by: | Mr. S. Samokha, test engineer | November 1, 2018 |  |
| Reviewed by: | Mrs. S Peysahov Sheynin test engineer EMC & Radio | November 14, 2019 |  |
| Approved by: | Mr. M. Nikishin, EMC and Radio group manager | November 14, 2019 |  |



6 EUT description

6.1 General information

The EUT, Mobile Digital station, AirSpeed 1000 3.55-3.7 GHz, (B48), is part of a LTE broadband fixed cellular wireless access system. The system provides a radio link between an end-user (a subscriber) and a network to give high-speed data access. The AirSpeed's transceiver/receiver (up to 64 QAM modulation, data rate up to 95 Mbps) equipped with a 20.5 dBi external antenna. The Advanced Antenna Techniques 2x2 MIMO are supported. The maximum RF output power (not including antenna gain) is 23.97 dBm for 20.5 dBi antenna gain and it can be reduced by software. The transmitter output signals are completely uncorrelated, antennas 1/2 is one sector and antennas 3/4 is another sector.

The AirSpeed is installed outdoors. The Subscriber transmits and receives traffic to and from the base station respectively. The transceiver provides subscribers with "always-on" Internet, high speed data only, or data and voice (VoIP) services and is configured with a unique base station reference number, preventing the LTE UE from relocating to another subscriber premises without authorization.

Note: The AS1000 defined as Category B CBSD (Citizens Broadband Radio Service Device).

Antennas 1/2 arrange one sector while antenna 1 is cross polarized to antenna 2 and antennas 3/4 arrange another sector while antenna 3 is cross polarized to antenna 4. The transmitter output signals are completely uncorrelated. The sectors are either non overlapping by operation on different frequency channels or by different sectors coverage without overlapping of antenna beams.

6.2 Ports and lines

| Port type | Port description | Connected from | Connected to | Qty. | Cable type | Cable length, m |
|-----------|------------------|----------------|---------------|------|------------|-----------------|
| Power | DC power | EUT | AC/DC adapter | 1 | Unshielded | 20 |
| Signal | Ethernet | EUT | Laptop | 1 | Shielded | 20 |
| Signal* | Serial* | Not connected | Not connected | 1 | NA | NA |

*for maintenance only

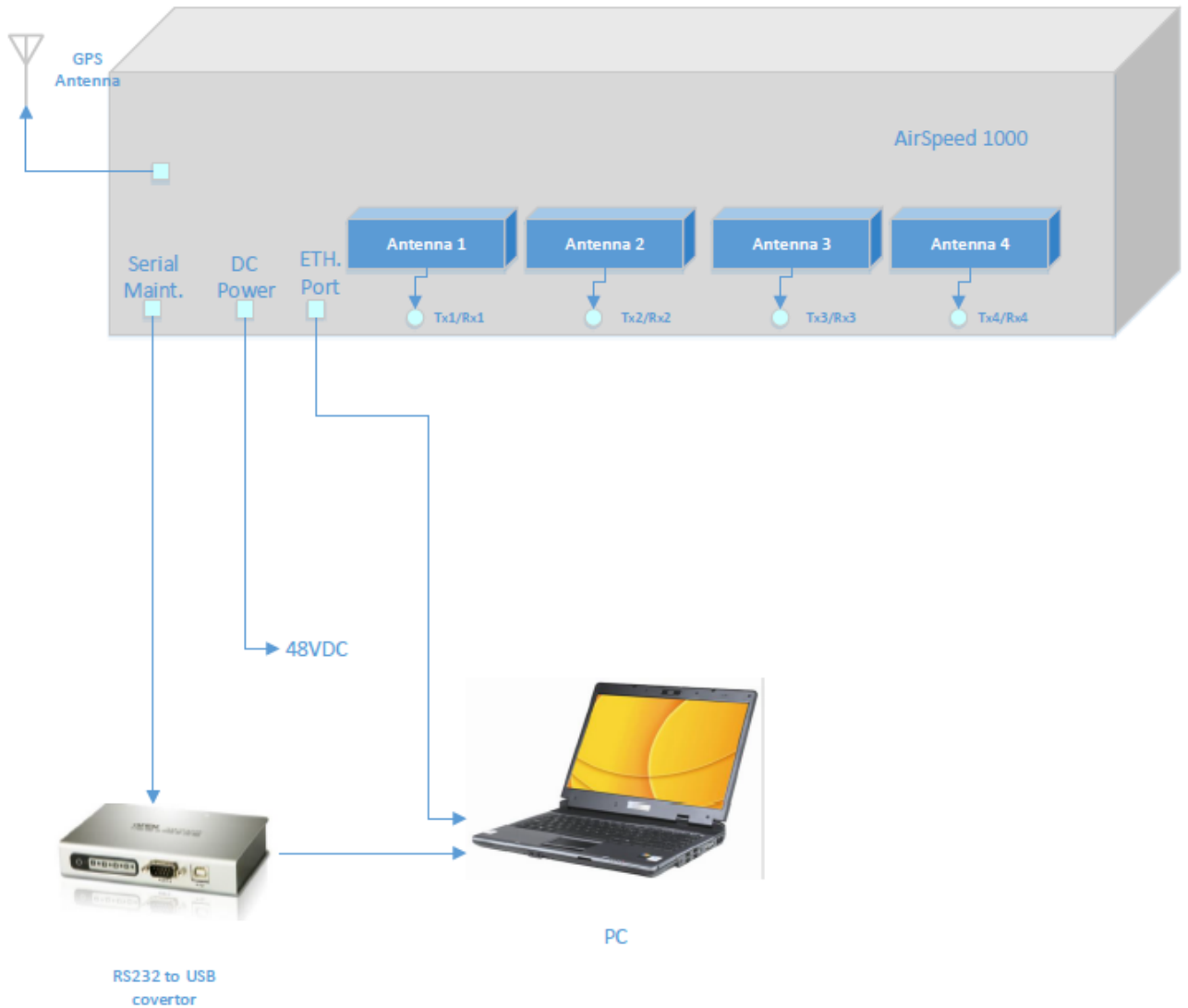
6.3 Support and test equipment

| Description | Manufacturer | Model number | Serial number |
|-------------------------|--------------|-----------------------|-------------------------------|
| Laptop | Dell | E7450 | 8TYRP32 |
| USB to RS-232 convertor | ATEN | UC2324 | NA |
| AC/DC adapter | DVE | DSA-96PFB-12 1 120750 | P/N DSA-96PFB-12 1 120750-W25 |

6.4 Changes made in the EUT

No changes were implemented in the EUT during testing.

6.5 Test configuration





6.6 Transmitter characteristics

| | | | | | |
|---|--|---|--|---------------------------------|---------|
| Type of equipment | | | | | |
| V | Stand-alone (Equipment with or without its own control provisions) | | | | |
| | Combined equipment (Equipment where the radio part is fully integrated within another type of equipment) | | | | |
| | Plug-in card (Equipment intended for a variety of host systems) | | | | |
| Intended use | | Condition of use | | | |
| V | fixed | Always at a distance more than 2 m from all people | | | |
| | mobile | Always at a distance more than 20 cm from all people | | | |
| | portable | May operate at a distance closer than 20 cm to human body | | | |
| Assigned frequency range | | 3550.0 – 3700.0 MHz | | | |
| Operating frequency (full bands) | | 3555.0 – 3695.0 MHz | | | |
| RF channel spacing | | 10 MHz, 20 MHz | | | |
| Maximum rated output power | | At transmitter 50 Ω RF output connector (per port) | 23.97 dBm | | |
| Is transmitter output power variable? | | No | | | |
| | | V | Yes | continuous variable | |
| | | | | stepped variable with step size | 0.25 dB |
| | | | | minimum RF power | -30 dBm |
| | | maximum RF power at antenna connector | dBm | | |
| Antenna connection | | | | | |
| unique coupling | V | standard connector | Integral V with temporary RF connector without temporary RF connector | | |
| Antenna/s technical characteristics | | | | | |
| Type | Manufacturer | Model number | Gain | | |
| External | ALPHA Wireless Ltd. | AW3170 | 20.5 dBi | | |
| External | ALPHA Wireless Ltd. | AW3014 | 18 dBi | | |
| Transmitter aggregate data rate/s, Mbps | | | | | |
| Transmitter 26dBc power bandwidth | | Type of modulation | | | |
| | | QPSK | 16QAM | 64QAM | |
| | | 10 MHz | 10.7 | 22.7 | 47.3 |
| | 20 MHz | 23.4 | 45.4 | 95 | |
| Type of multiplexing | | TDD | | | |
| Modulating test signal (baseband) | | PRBS | | | |
| Maximum transmitter duty cycle in normal use | | 0.74 | | | |
| Transmitter power source | | | | | |
| | | Nominal rated voltage | Battery type | | |
| V | DC | Nominal rated voltage | 48 VDC | | |
| | AC mains | Nominal rated voltage | Frequency | | |
| Common power source for transmitter and receiver | | V | yes no | | |



| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

7 Transmitter tests according to 47CFR part 96

7.1 Maximum EIRP and maximum power spectral density

7.1.1 General

This test was performed to measure the maximum EIRP and maximum spectral power density at the transmitter RF antenna connector. Specification test limits are given in Table 7.1.1, Table 7.1.2.

Table 7.1.1 Maximum EIRP limits

| Assigned frequency range, MHz | EIRP | |
|-------------------------------|----------|------------|
| | W/10 MHz | dBm/10 MHz |
| 3550 - 3700 | 17.0 | 47.0 |

Table 7.1.2 Peak spectral power density limits

| Assigned frequency range, MHz | Measurement bandwidth, MHz | Peak spectral power density, dBm |
|-------------------------------|----------------------------|----------------------------------|
| 3550 - 3700 | 1.0 | 37.0 |

7.1.2 Test procedure

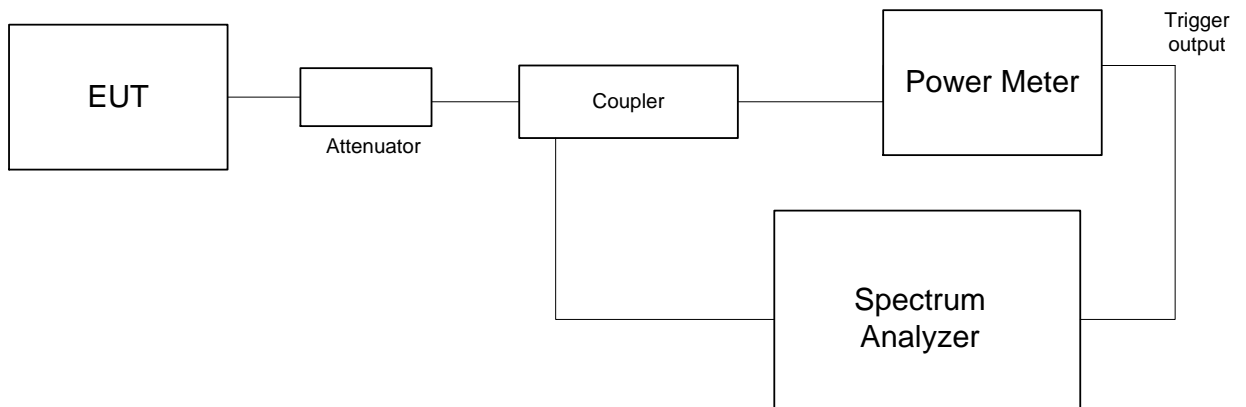
7.1.2.1 The EUT was set up as shown in Figure 7.1.1, energized and its proper operation was checked.

7.1.2.2 The EUT was adjusted to produce maximum available to end user RF output power.

7.1.2.3 The frequency span of spectrum analyzer was set to capture the entire 6 dB band of the transmitter, in average mode with resolution bandwidth set to 1.0 MHz, video bandwidth wider than resolution bandwidth, sweep time and sufficient number of sweeps was allowed for trace stabilization.

7.1.2.4 Spectrum analyzer was set in average mode, sufficient number of sweeps was allowed for trace stabilization and peak spectral power density was measured as provided in Table 7.1.3, Table 7.1.4 and the associated plots.

Figure 7.1.1 Maximum EIRP and power spectral density test setup





| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Table 7.1.3 Maximum EIRP test results

ASSIGNED FREQUENCY RANGE: 3550.0 – 3700.0 MHz
 DETECTOR USED: Average (gated)
 VIDEO BANDWIDTH: ≥ Resolution bandwidth
 CHANNEL SPACING: 10 MHz

| Frequency, MHz | RF Output power | | | | Antenna gain, dBi | EIRP*, dBm/10 MHz | Limit, dBm/10 MHz | Margin, dB** | Verdict |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|--------------|---------|
| | Chain RF#1, dBm | Chain RF#2, dBm | Chain RF#3, dBm | Chain RF#4, dBm | | | | | |
| Modulation QPSK | | | | | | | | | |
| 3555.0 | 23.62 | 23.91 | 23.84 | 23.79 | 20.5 | 44.41 | 47.0 | -2.59 | Pass |
| 3625.0 | 23.40 | 23.35 | 23.44 | 23.54 | 20.5 | 44.04 | 47.0 | -2.96 | Pass |
| 3695.0 | 23.47 | 23.84 | 23.81 | 23.49 | 20.5 | 44.34 | 47.0 | -2.66 | Pass |
| Modulation 16QAM | | | | | | | | | |
| 3555.0 | 23.28 | 23.69 | 23.72 | 23.13 | 20.5 | 44.22 | 47.0 | -2.78 | Pass |
| 3625.0 | 23.07 | 23.36 | 23.25 | 23.15 | 20.5 | 43.86 | 47.0 | -3.14 | Pass |
| 3695.0 | 23.11 | 23.48 | 23.60 | 23.52 | 20.5 | 44.10 | 47.0 | -2.90 | Pass |
| Modulation 64QAM | | | | | | | | | |
| 3555.0 | 23.97 | 23.91 | 23.87 | 23.51 | 20.5 | 44.47 | 47.0 | -2.53 | Pass |
| 3625.0 | 23.48 | 23.72 | 23.42 | 23.73 | 20.5 | 44.23 | 47.0 | -2.77 | Pass |
| 3695.0 | 23.79 | 23.97 | 23.88 | 23.62 | 20.5 | 44.47 | 47.0 | -2.53 | Pass |

* - EIRP = Max SA reading (Chains #1&2 and #3&4) + Antenna gain

** - Margin = EIRP, dBm – specification limit.

CHANNEL SPACING: 20 MHz

| Frequency, MHz | RF Output power | | | | Antenna gain, dBi | EIRP*, dBm/20 MHz | EIRP*, dBm/10 MHz | Limit, dBm/10 MHz | Margin, dB** | Verdict |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|--------------|---------|
| | Chain RF#1, dBm | Chain RF#2, dBm | Chain RF#3, dBm | Chain RF#4, dBm | | | | | | |
| Modulation QPSK | | | | | | | | | | |
| 3560.0 | 23.71 | 23.97 | 23.67 | 23.98 | 20.5 | 44.48 | 41.96 | 47.0 | -5.04 | Pass |
| 3625.0 | 23.41 | 23.85 | 23.65 | 23.54 | 20.5 | 44.35 | 41.83 | 47.0 | -5.17 | Pass |
| 3690.0 | 23.97 | 23.96 | 23.61 | 23.81 | 20.5 | 44.47 | 41.95 | 47.0 | -5.05 | Pass |
| Modulation 16QAM | | | | | | | | | | |
| 3560.0 | 23.97 | 23.67 | 23.48 | 23.93 | 20.5 | 44.47 | 41.95 | 47.0 | -5.05 | Pass |
| 3625.0 | 23.58 | 23.56 | 23.71 | 23.43 | 20.5 | 44.21 | 41.69 | 47.0 | -5.31 | Pass |
| 3690.0 | 23.85 | 23.50 | 23.87 | 23.74 | 20.5 | 44.37 | 41.85 | 47.0 | -5.15 | Pass |
| Modulation 64QAM | | | | | | | | | | |
| 3560.0 | 23.61 | 23.86 | 23.92 | 23.95 | 20.5 | 44.45 | 41.93 | 47.0 | -5.07 | Pass |
| 3625.0 | 23.48 | 23.91 | 23.52 | 23.37 | 20.5 | 44.41 | 41.89 | 47.0 | -5.11 | Pass |
| 3690.0 | 23.83 | 23.93 | 23.71 | 23.88 | 20.5 | 44.43 | 41.91 | 47.0 | -5.09 | Pass |

* - EIRP = Max SA reading (Chains #1&2 and #3&4) - 10*log[OBW(MHz) / 10 MHz] + Antenna gain = Max SA reading – 2.52 dB + Antenna gain

** - Margin = EIRP, dBm – specification limit.



| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Table 7.1.4 Peak spectral power density test results

ASSIGNED FREQUENCY RANGE: 3550.0 – 3700.0 MHz
DETECTOR USED: Average (gated)
VIDEO BANDWIDTH: ≥ Resolution bandwidth
NUMBER OF CHAINS: 4

| Frequency, MHz | SA Reading, dBm/MHz | | | | Antenna gain, dBi | Total PSD*, dBm/ MHz | Limit, dBm/MHz | Margin, dB | Verdict |
|-------------------------------|---------------------|-------------|-------------|-------------|-------------------|----------------------|----------------|------------|---------|
| | Chain RF#1, | Chain RF#2, | Chain RF#3, | Chain RF#4, | | | | | |
| Channel spacing 10 MHz | | | | | | | | | |
| Modulation QPSK | | | | | | | | | |
| 3555.0 | 13.76 | 14.19 | 14.22 | 14.29 | 20.5 | 36.45 | 37.0 | -0.55 | Pass |
| 3625.0 | 13.56 | 13.42 | 13.72 | 13.94 | 20.5 | 36.10 | 37.0 | -0.90 | Pass |
| 3695.0 | 13.97 | 14.11 | 14.10 | 13.57 | 20.5 | 36.27 | 37.0 | -0.73 | Pass |
| Modulation 16QAM | | | | | | | | | |
| 3555.0 | 14.37 | 14.31 | 14.03 | 13.86 | 20.5 | 36.53 | 37.0 | -0.47 | Pass |
| 3625.0 | 14.19 | 13.99 | 13.98 | 14.11 | 20.5 | 36.35 | 37.0 | -0.65 | Pass |
| 3695.0 | 14.28 | 14.06 | 14.12 | 14.19 | 20.5 | 36.44 | 37.0 | -0.56 | Pass |
| Modulation 64QAM | | | | | | | | | |
| 3555.0 | 14.02 | 14.18 | 14.23 | 14.07 | 20.5 | 36.39 | 37.0 | -0.61 | Pass |
| 3625.0 | 13.58 | 13.79 | 13.51 | 13.62 | 20.5 | 35.95 | 37.0 | -1.05 | Pass |
| 3695.0 | 13.77 | 14.32 | 14.08 | 14.18 | 20.5 | 36.48 | 37.0 | -0.52 | Pass |
| Channel spacing 20 MHz | | | | | | | | | |
| Modulation QPSK | | | | | | | | | |
| 3555.0 | 10.22 | 10.64 | 10.57 | 10.12 | 20.5 | 33.75 | 37.0 | -3.25 | Pass |
| 3625.0 | 10.33 | 11.29 | 10.85 | 10.59 | 20.5 | 34.40 | 37.0 | -2.60 | Pass |
| 3695.0 | 11.14 | 11.14 | 10.84 | 11.07 | 20.5 | 34.25 | 37.0 | -2.75 | Pass |
| Modulation 16QAM | | | | | | | | | |
| 3555.0 | 10.07 | 10.16 | 9.83 | 10.37 | 20.5 | 33.48 | 37.0 | -3.52 | Pass |
| 3625.0 | 10.66 | 11.05 | 10.56 | 10.28 | 20.5 | 34.16 | 37.0 | -2.84 | Pass |
| 3695.0 | 11.15 | 10.54 | 10.92 | 11.09 | 20.5 | 34.26 | 37.0 | -2.74 | Pass |
| Modulation 64QAM | | | | | | | | | |
| 3555.0 | 9.79 | 10.71 | 9.92 | 10.30 | 20.5 | 33.82 | 37.0 | -3.18 | Pass |
| 3625.0 | 10.82 | 11.54 | 10.54 | 10.31 | 20.5 | 34.65 | 37.0 | -2.35 | Pass |
| 3695.0 | 11.31 | 11.21 | 10.65 | 11.03 | 20.5 | 34.42 | 37.0 | -2.58 | Pass |

* - Total PSD = Max SA reading (Chains #1&2 or chains #3&4) + Antenna Gain

** - Margin = Total PSD, dBm – specification limit.

Reference numbers of test equipment used

| | | | | | | |
|---------|---------|---------|--|--|--|--|
| HL 3868 | HL 4275 | HL 4355 | | | | |
|---------|---------|---------|--|--|--|--|

Full description is given in Appendix A.

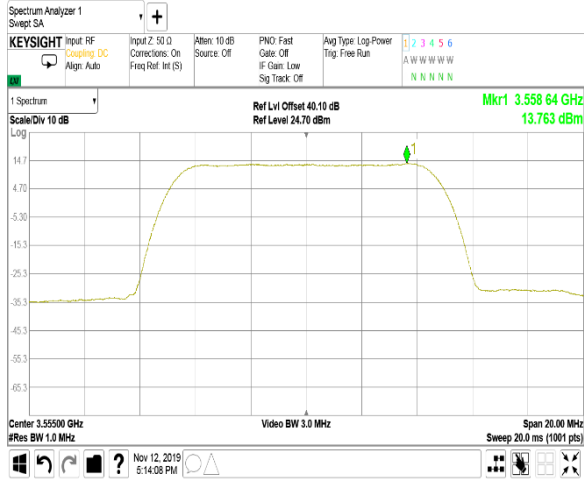


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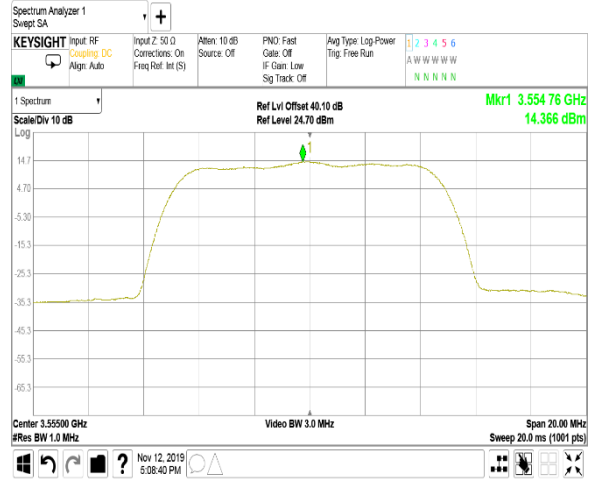
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.1 Peak spectral power density at low frequency

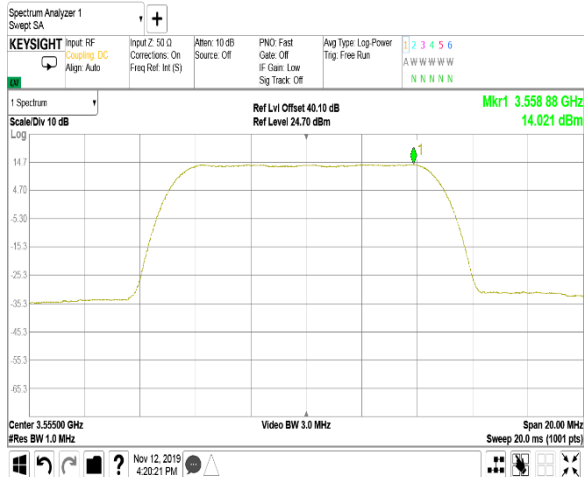
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
10 MHz
1
Modulation: 16QAM



Modulation: 64QAM



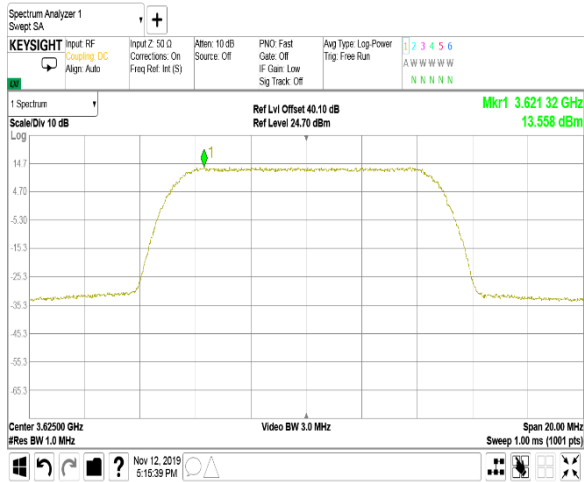


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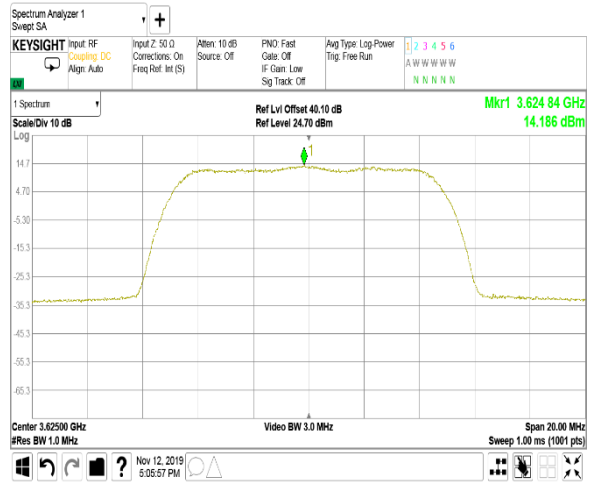
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.2 Peak spectral power density at mid frequency

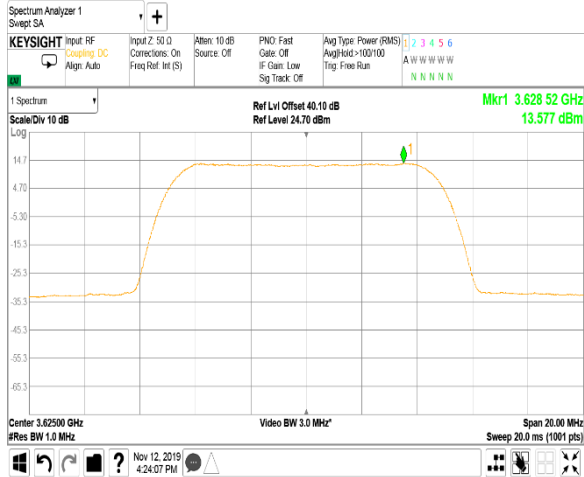
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
10 MHz
1
Modulation: 16QAM



Modulation: 64QAM



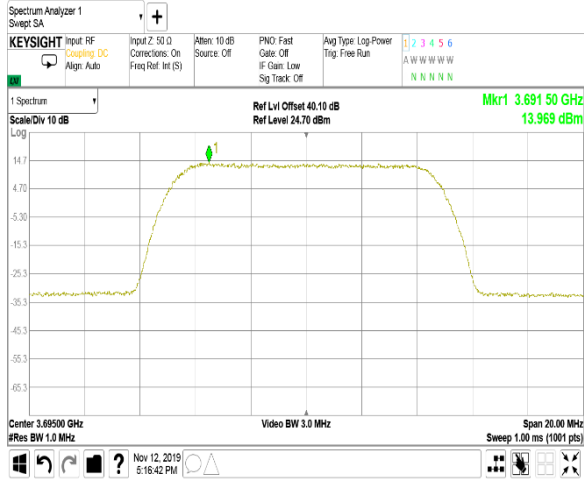


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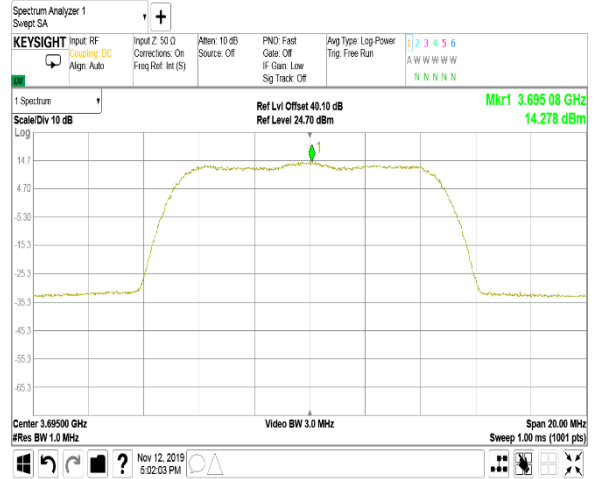
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.3 Peak spectral power density at high frequency

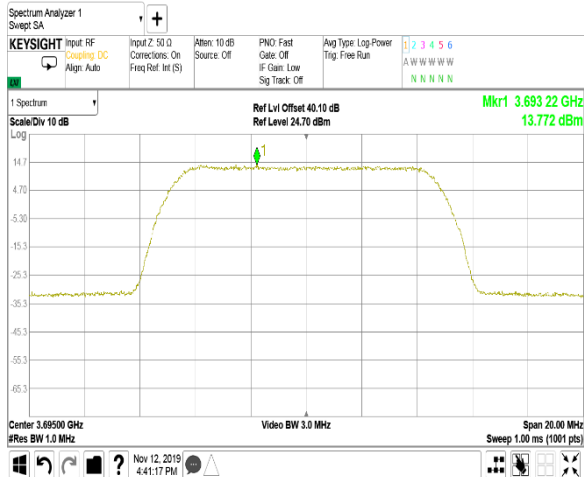
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
10 MHz
1
Modulation: 16QAM



Modulation: 64QAM



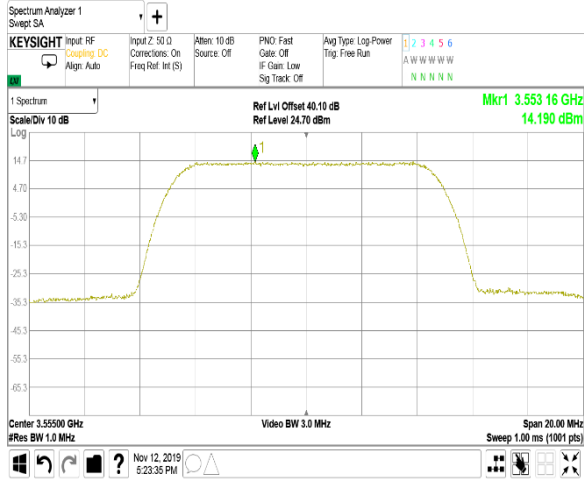


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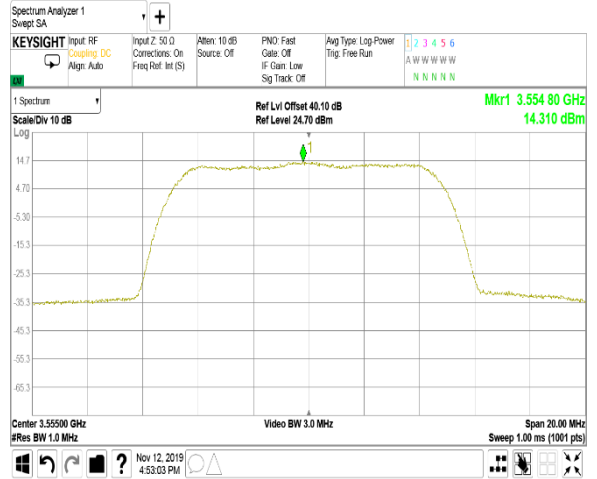
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|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.4 Peak spectral power density at low frequency within

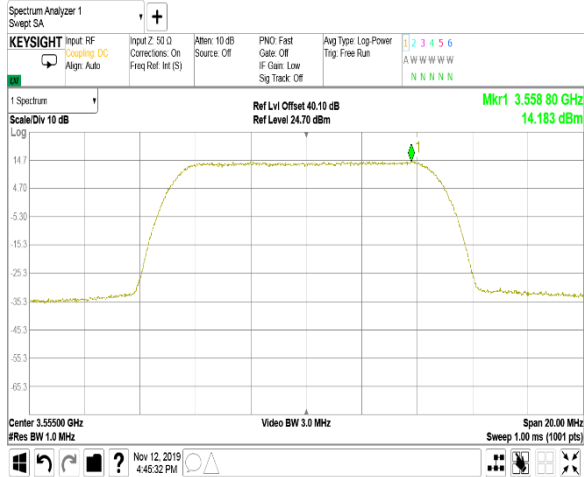
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
10 MHz
2
Modulation: 16QAM



Modulation: 64QAM



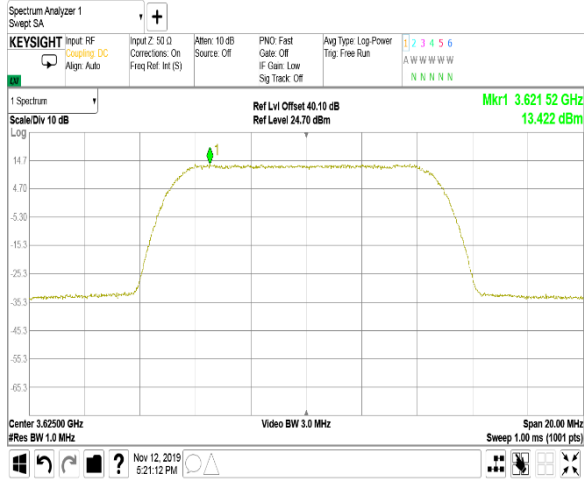


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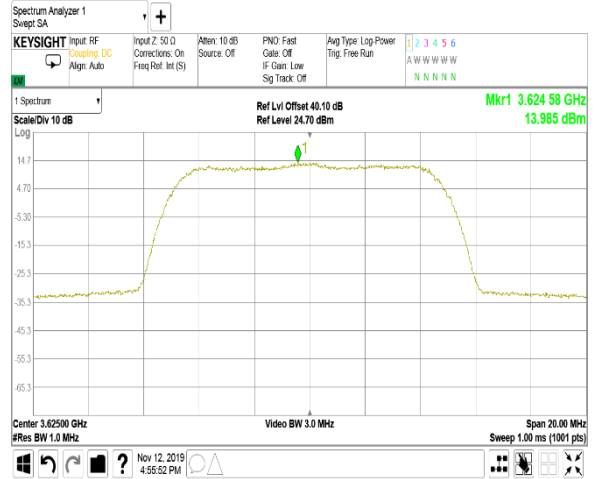
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.5 Peak spectral power density at mid frequency

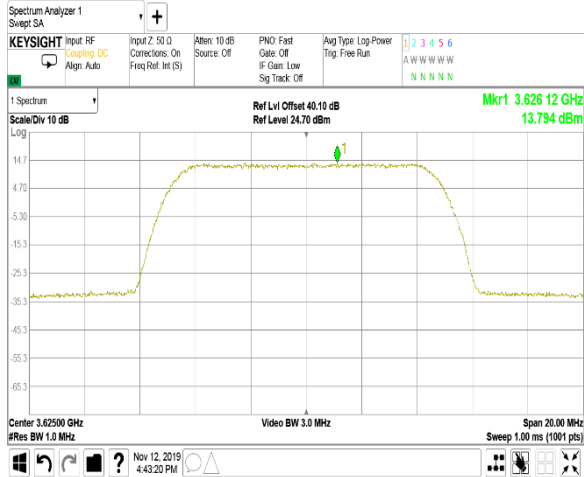
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
10 MHz
2
Modulation: 16QAM



Modulation: 64QAM





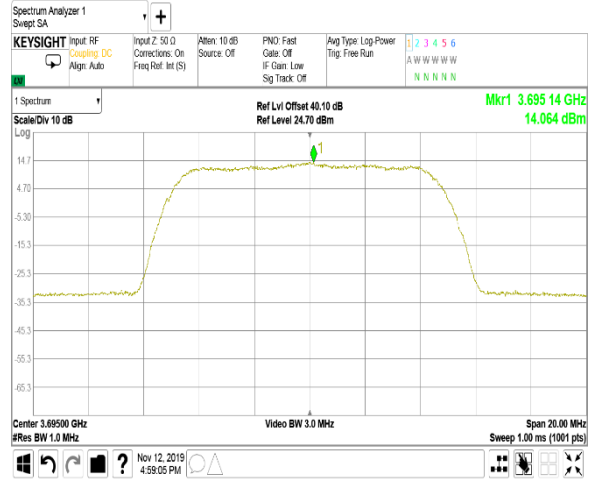
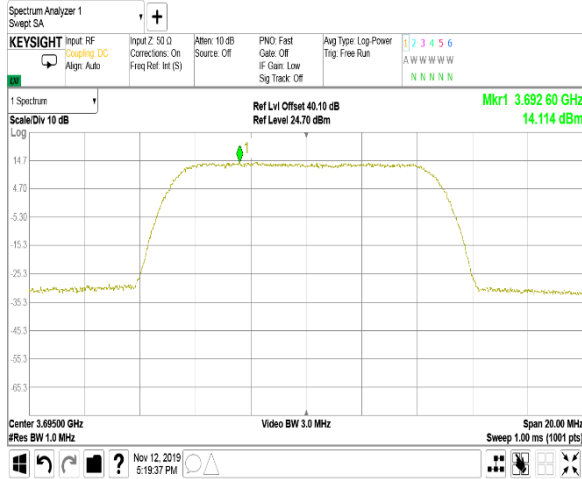
HERMON LABORATORIES

| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

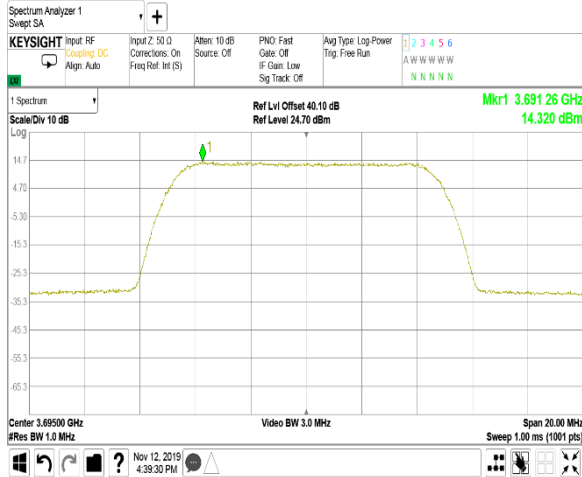
Plot 7.1.6 Peak spectral power density at high frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK

QPSK
10 MHz
2
Modulation: 16QAM



Modulation: 64QAM



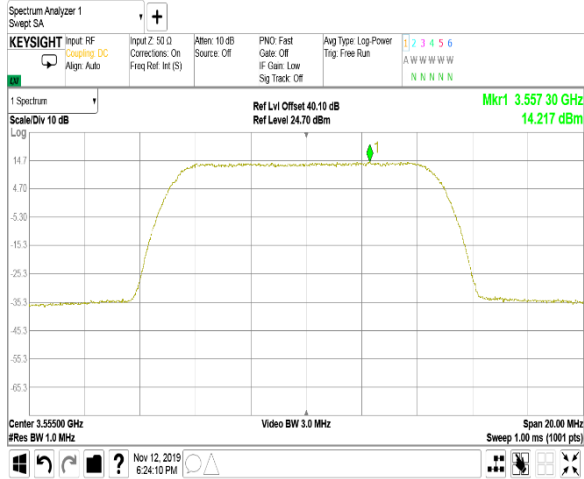


HERMON LABORATORIES

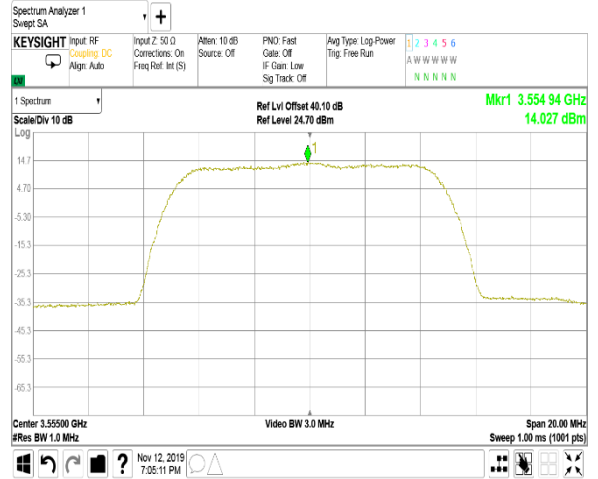
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.7 Peak spectral power density at low frequency

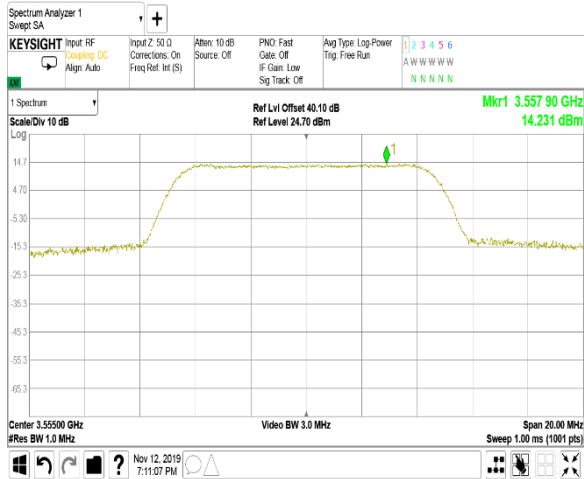
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
10 MHz
3
Modulation: 16QAM



Modulation: 64QAM



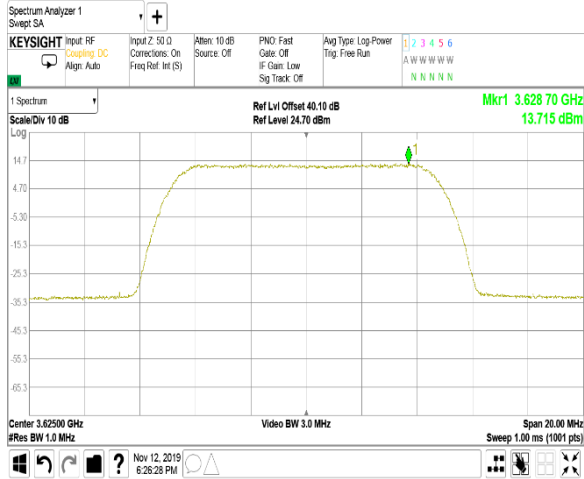


HERMON LABORATORIES

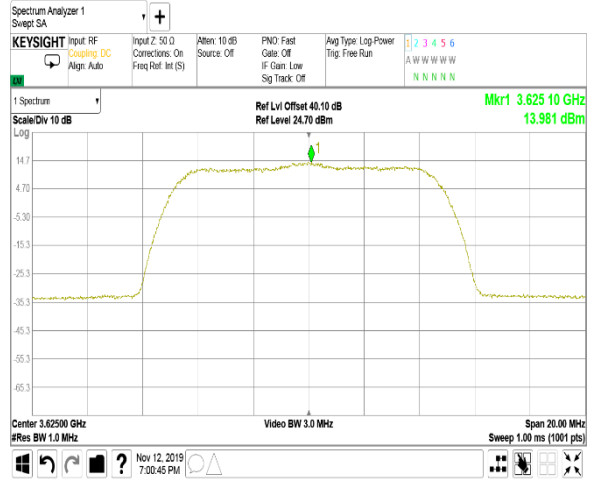
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.8 Peak spectral power density at mid frequency

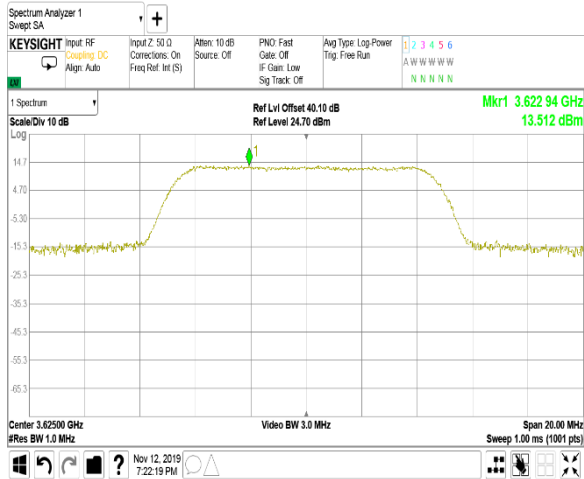
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
10 MHz
3
Modulation: 16QAM



Modulation: 64QAM



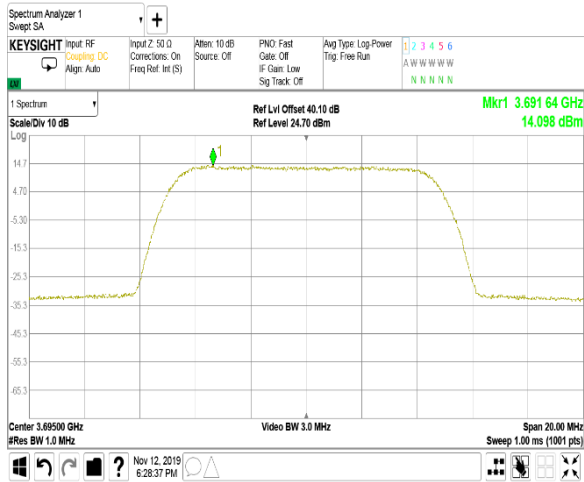


HERMON LABORATORIES

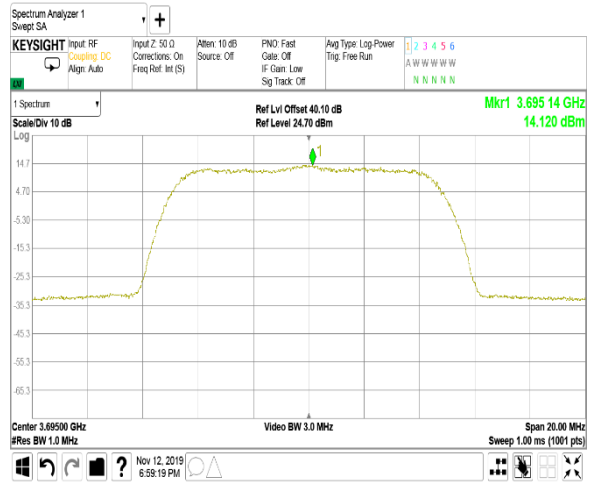
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.9 Peak spectral power density at high frequency

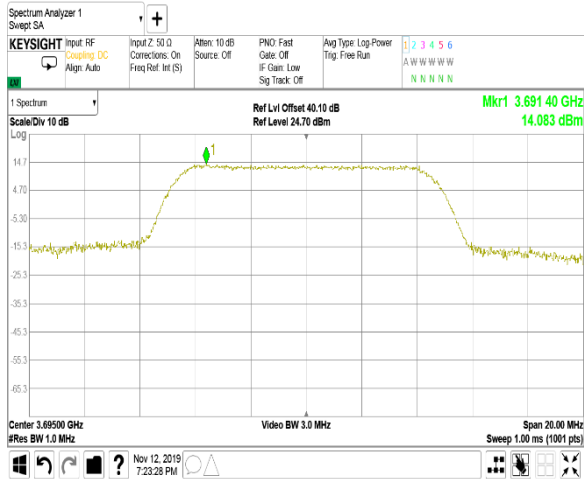
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
10 MHz
3
Modulation: 16QAM



Modulation: 64QAM



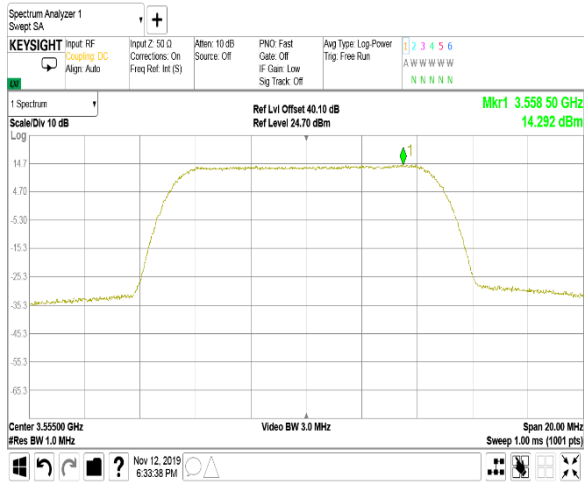


HERMON LABORATORIES

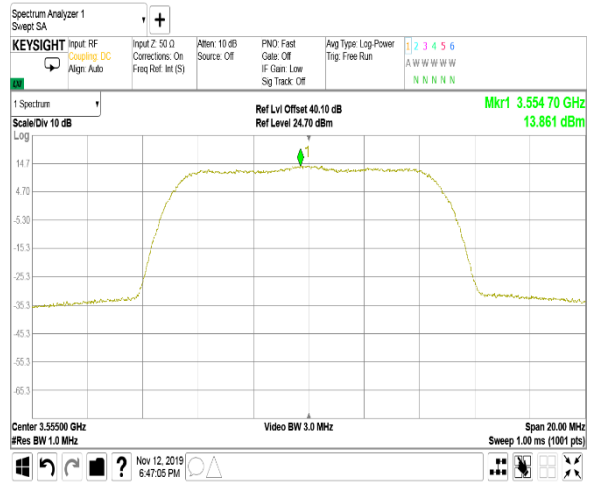
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.10 Peak spectral power density at low frequency

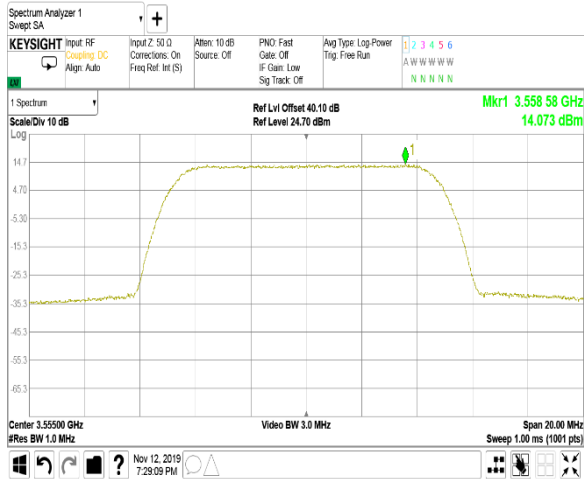
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
10 MHz
4
Modulation: 16QAM



Modulation: 64QAM



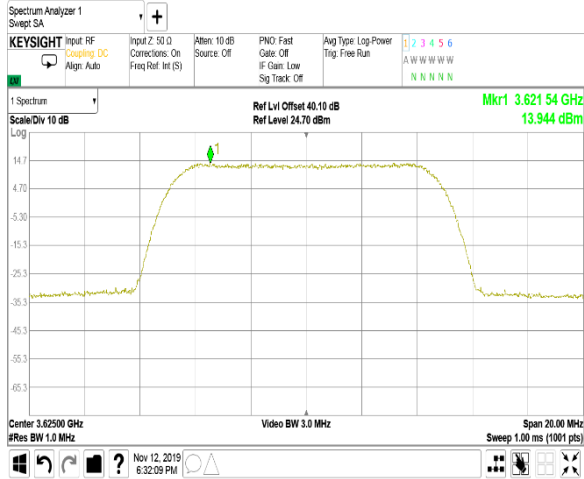


HERMON LABORATORIES

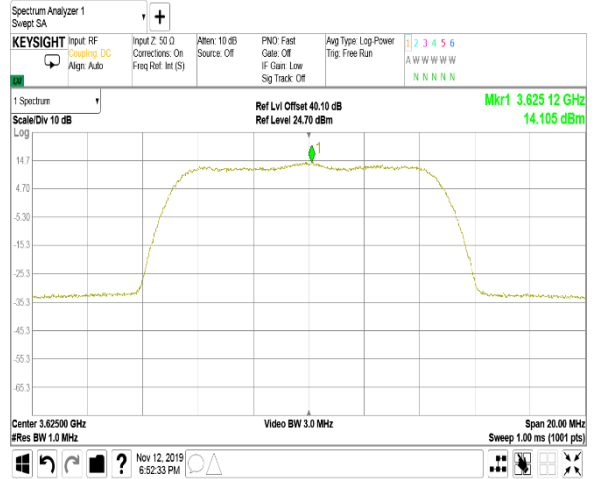
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.11 Peak spectral power density at mid frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
10 MHz
4
Modulation: 16QAM



Modulation: 64QAM



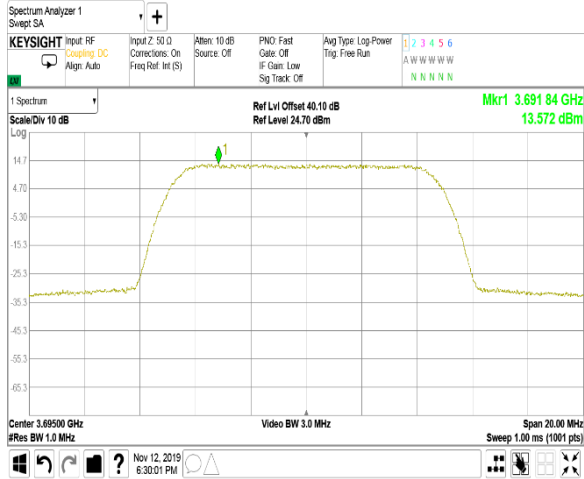


HERMON LABORATORIES

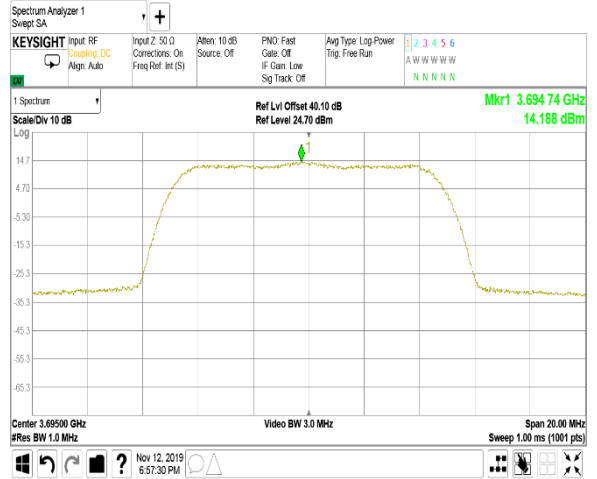
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.12 Peak spectral power density at high frequency

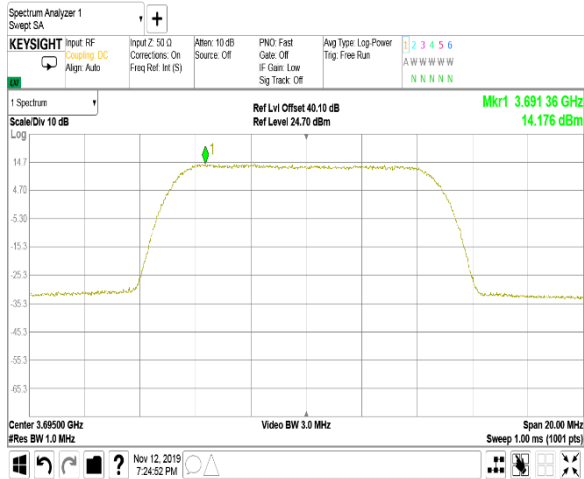
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
10 MHz
4
Modulation: 16QAM



Modulation: 64QAM



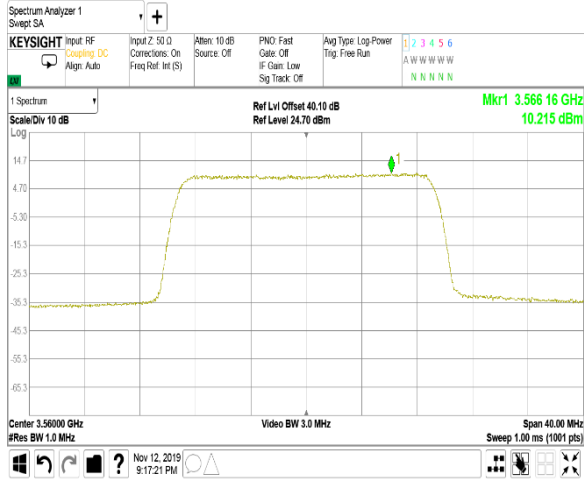


HERMON LABORATORIES

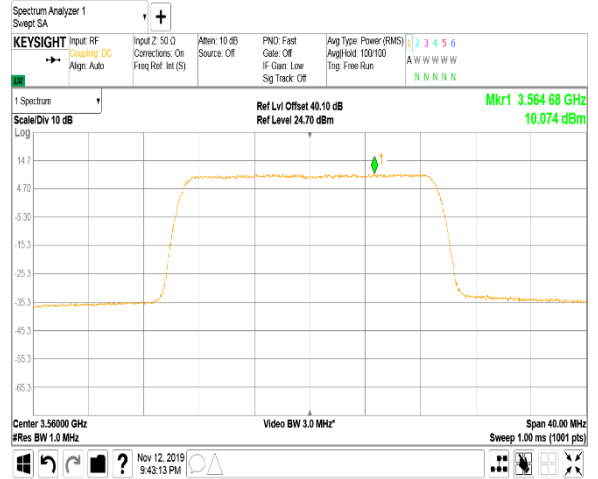
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.13 Peak spectral power density at low frequency within

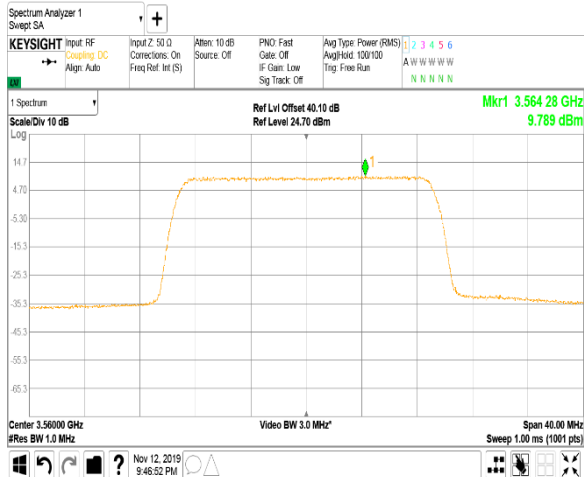
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
20 MHz
1
Modulation: 16QAM



Modulation: 64QAM



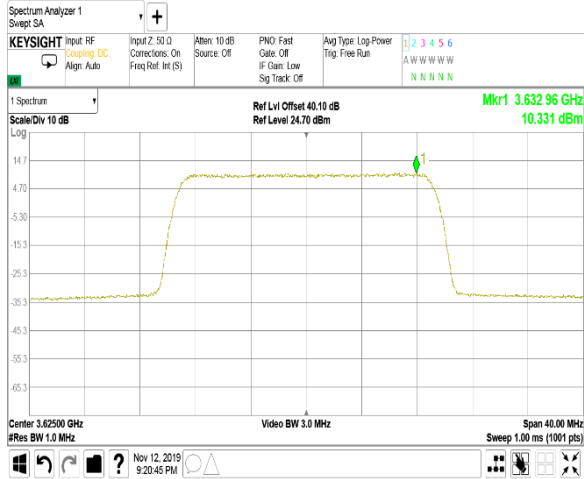


HERMON LABORATORIES

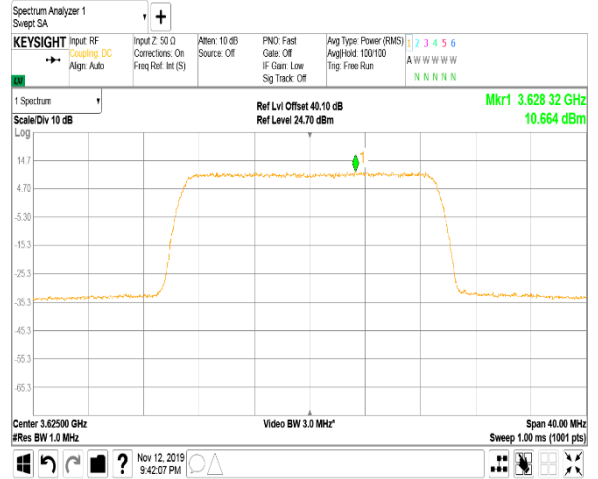
| | | | |
|--|--------------------------------|-------------------------------|----------------------|
| Test specification: Section 96.41(b), Maximum EIRP and maximum power spectral density | | | |
| Test procedure: Section 96.41(e)(3) | | | |
| Test mode: Compliance | | Verdict: PASS | |
| Date(s): 01-Oct-18 - 24-Oct-18 | | | |
| Temperature: 24 °C | Relative Humidity: 55 % | Air Pressure: 1011 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.1.14 Peak spectral power density at mid frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK



QPSK
20 MHz
1
Modulation: 16QAM



Modulation: 64QAM

