



RADIATED EMISSIONS

Test Report #: NC72159704 Test Area: LTS

EUT Model #: 34044-211G Date: 29 Apr 2020

EUT Serial #: n/a EUT Power: 8, 24, & 32Vdc

Test Method: EN 61000-6-3 & EN 61000-6-4 Temperature: 23 °C

Customer: Data Panel Air Pressure: 98.3 kPa

EUT Description: DPBlock I/O Module Relative Humidity: 35 %

Notes: _____

Tested by: Greg Jakubowski Reviewed by: Brad A Reasoner

Signature:  Signature: 

Equipment List Used During Testing

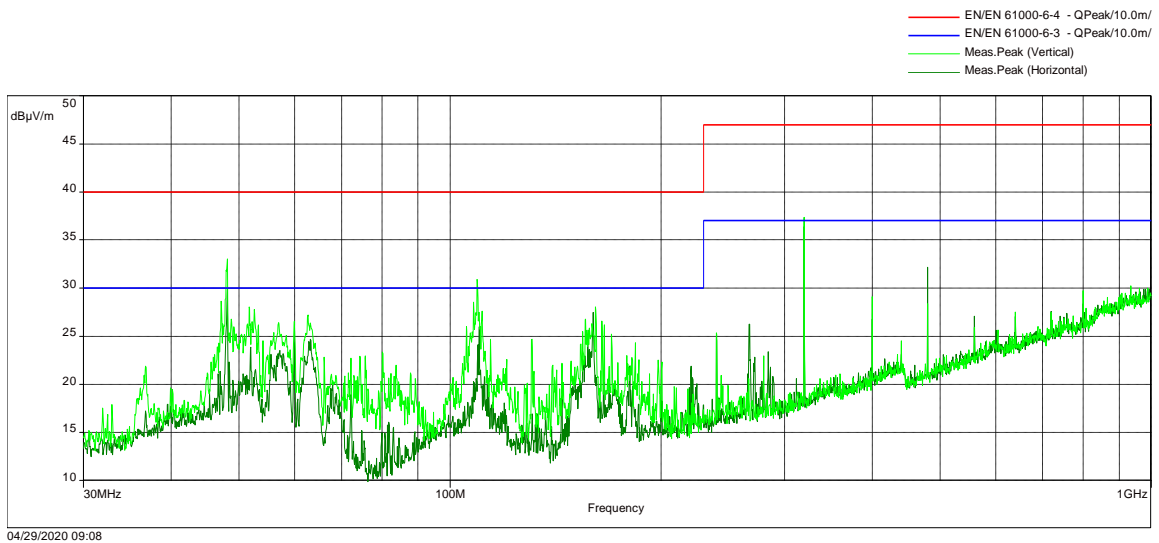
| Equipment Description | Equipment Manufacturer | Equipment Model # | Equipment SN# | Asset # | Frequency Range | Calibrated On | Calibration Due | Calibration Required (Y or N) |
|---------------------------|------------------------|-------------------|---------------|-----------|-----------------|---------------|-----------------|-------------------------------|
| Antenna - Trilog | Schwarzbeck | VULB 9162 | 9162-196 | NBLE11579 | 30 MHz - 8 GHz | 11/20/2018 | 11/20/2020 | Yes |
| Preamplifier - BBV 9743 B | Schwarzbeck | BBV 9743 B | 00075 | NBLE11573 | 10 MHz - 6 GHz | 8/2/2019 | 8/2/2020 | Yes |
| Receiver - R&S ESW | Rohde & Schwarz | ESW44 | 101537 | NBLE11555 | 2 Hz - 44 GHz | 4/26/2019 | 10/26/2020 | Yes |

Note: If Calibration not required, internal verifications are performed

RADIATED EMISSIONS

RE 30M-1GHz 8Vdc

| Frequency Range | Polarity | Antenna Distance | RBW | Step Size | Sweep Time |
|-----------------|------------|------------------|--------|-----------|------------|
| 30MHz- 1GHz | Vertical | 10m | 120kHz | 18001Pts | Auto |
| 30MHz- 1GHz | Horizontal | 10m | 120kHz | 18001Pts | Auto |



Limit:
EN 61000-6-3

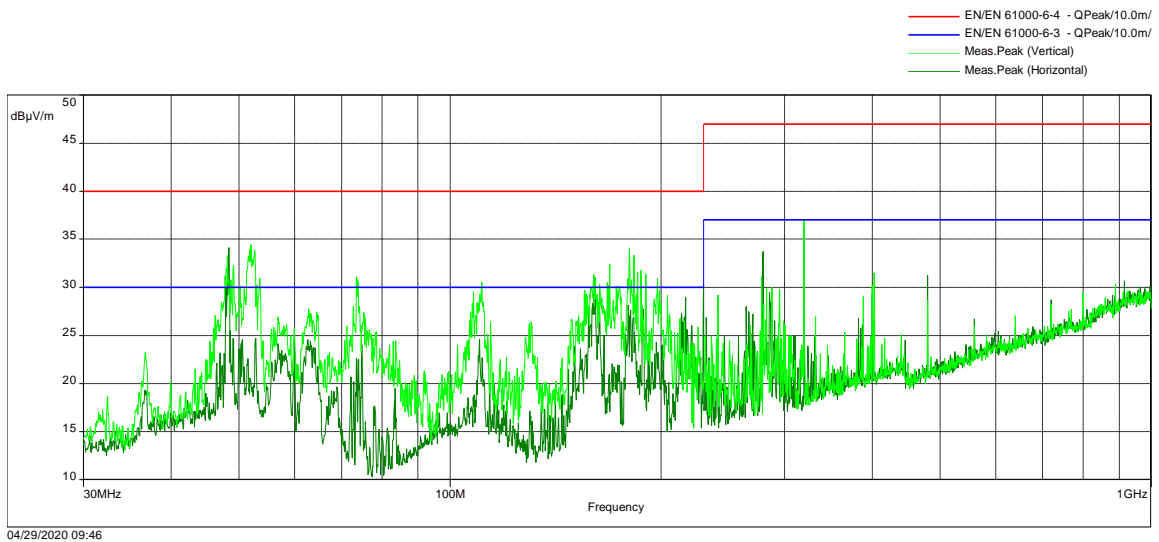
Test Results:
n/a

Test Notes: Pk detector pre-scan only

RADIATED EMISSIONS

RE 30M-1GHz 32Vdc

| Frequency Range | Polarity | Antenna Distance | RBW | Step Size | Sweep Time |
|-----------------|------------|------------------|--------|-----------|------------|
| 30MHz- 1GHz | Vertical | 10m | 120kHz | 18001Pts | Auto |
| 30MHz- 1GHz | Horizontal | 10m | 120kHz | 18001Pts | Auto |



Limit:
EN 61000-6-3

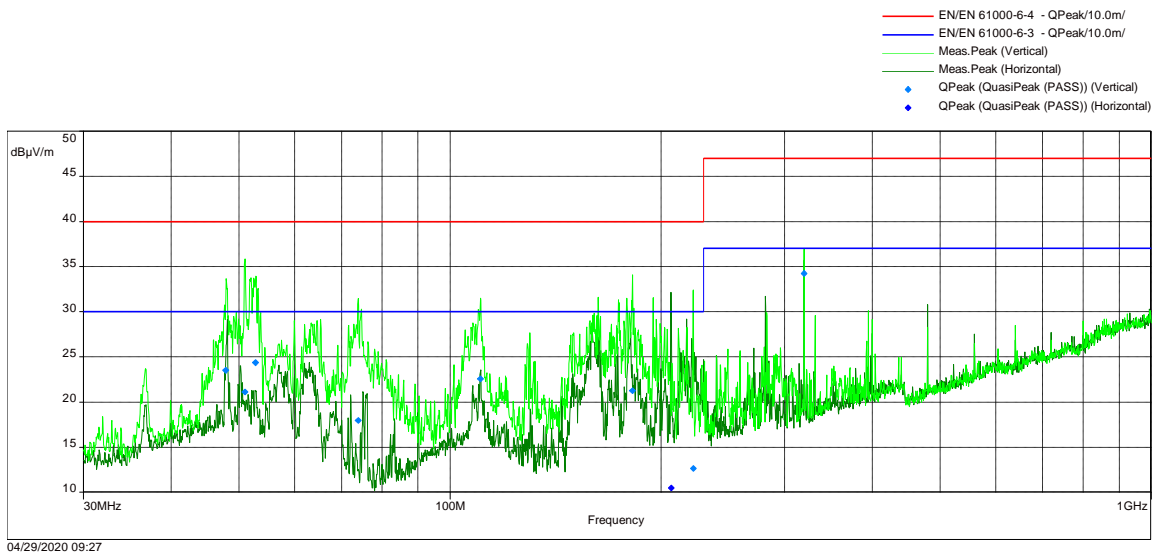
Test Results:
n/a

Test Notes: Pk detector pre-scan only

RADIATED EMISSIONS

RE 30M-1GHz 24Vdc

| Frequency Range | Polarity | Antenna Distance | RBW | Step Size | Sweep Time |
|-----------------|------------|------------------|--------|-----------|------------|
| 30MHz- 1GHz | Vertical | 10m | 120kHz | 18001Pts | Auto |
| 30MHz- 1GHz | Horizontal | 10m | 120kHz | 18001Pts | Auto |



Limit:
EN 61000-6-3

Test Results:
Pass

Test Notes: 24Vdc with QP finals. Worst case pre scan. Margins calculated to Class B limit.

Data Table

| Frequency | QP Level (dBuV/m) | QP Limit (dBuV/m) | Margin (dB) | Azimuth (°) | Height (m) | Polarity | Result |
|--------------|-------------------|-------------------|-------------|-------------|------------|------------|--------|
| 47.890068MHz | 23.53 | 30.00 | -6.47 | 207.00 | 1.60 | Vertical | Pass |
| 50.967661MHz | 21.13 | 30.00 | -8.87 | 35.00 | 1.54 | Vertical | Pass |
| 52.805096MHz | 24.34 | 30.00 | -5.66 | 203.00 | 1.60 | Vertical | Pass |
| 73.940221MHz | 17.95 | 30.00 | -12.05 | 179.00 | 1.96 | Vertical | Pass |
| 110.43246MHz | 22.58 | 30.00 | -7.42 | 259.00 | 1.81 | Vertical | Pass |
| 182.00561MHz | 21.26 | 30.00 | -8.74 | 168.00 | 1.35 | Vertical | Pass |
| 206.66014MHz | 10.47 | 30.00 | -19.53 | 169.00 | 3.36 | Horizontal | Pass |
| 222.24944MHz | 12.65 | 30.00 | -17.35 | 198.00 | 2.43 | Vertical | Pass |
| 319.99976MHz | 34.25 | 37.00 | -2.75 | 23.00 | 1.04 | Vertical | Pass |

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