



Informe de ensayo nº:
Test report No:

NIE: 41308REM.001

Test report

Radio frequency devices Subpart B. Unintentional radiators ; ICESS-003 ISSUE 5 &
American National standard for Testing Unlicensed Wireless Devices

| | |
|---|--|
| Identificación del objeto ensayado.....: Identification of item tested | BRCK V1 |
| Marca Trade | BRCK |
| Modelo y/o referencia tipo Model and /or type reference | BRCK V1 |
| Other identification of the product | S/N: 0001 & 0002 FCC ID: 2ACBL002725001 IC ID: 11959A-002725001 |
| Final HW version | V10 |
| Final SW version | V10 |
| Características Features | N/A |
| Peticionario Applicant | BRCK Inc. 12472 Lake Underhill Rd #525, Orlando, FL 32828. USA. VAT: 463878519 Reg Orton +254 0700 196 429 reg@brck.com |
| Método de ensayo solicitado, norma.....: Test method requested, standard | FCC Rules and Regulations 47 CFR Chapter I Part 15 Subpart B (10-01-12 Edition); ICESS-003 ISSUE 5 & ANSI C63.10-2009: American National standard for Testing Unlicensed Wireless Devices. |
| Resultado.....: Summary | IN COMPLIANCE |
| Aprobado por (nombre / cargo y firma) Approved by (name / position & signature) | Rafael López EMC LAB Manager |
| Fecha de realización Date of issue | 2014-05-09 |
| Formato de informe No.: Report template No | FDT08_15 |

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Competences and guarantees

AT4 wireless is a testing laboratory accredited by the National Accreditation Body (ENAC - Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

This certificate of conformity was issued in accordance with the decision N° 3/2000 of the Joint Committee established under the Agreement on Mutual Recognition between the European Community and the United States of America. By this decision, AT4 wireless can act as Conformity Assessment Body (CAB) on Electromagnetic Compatibility. This Certificate applies to the samples listed at technical reports.

This laboratory is designed by the Federal Communications Commission (ES0004)

AT4 wireless is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, AT4 wireless has a calibration and maintenance program for its measurement equipment.

AT4 wireless guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at AT4 wireless at the time of performance of the test.

AT4 wireless is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of AT4 wireless.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of AT4 wireless and the Accreditation Bodies.

Uncertainty

Uncertainty (factor $k=2$) was calculated according to the AT4 wireless internal document PODT000.

Usage of samples

Samples under test have been selected by: The client.

Sample S/01 is composed of the following elements:

| Control N° | Description | Model | Serial N° | Date of reception |
|------------|--------------------------|---------------------------|-------------|-------------------|
| 41308/002 | WiFi / 3G Router BRCK V1 | BRCK V1 | Prototype | 2014-03-27 |
| 41308/008 | AC/DC Adapter | HUNTKEY HKA00605010-2B | 13057000510 | 2014-03-27 |

The sample incorporates a ferrite WÜRTH model 742 712 22 with two turns on the USB cable.

Test sample description

The test sample consists of a WiFi / 3G Router.

Test samples supplier

BRCK Inc.
12472 Lake Underhill Rd #525, Orlando, FL. 32828. USA.
VAT: 463878519
Reg Orton
+254 0700 196 429
reg@brck.com

Testing period

The performed test started on 2014-04-07 and finished on 2014-04-11.

The tests have been performed at AT4 wireless.

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

| | |
|--------------------------------------|------------------------------|
| Temperature | Min. = 15 °C Max. = 35 °C |
| Relative humidity | Min. = 20 % Max. = 80 % |
| Shielding effectiveness | > 100 dB |
| Electric insulation | > 10 kΩ |
| Reference resistance to earth | < 0,5 Ω |

In the semianechoic chamber (21 meters x 11 meters x 8 meters), the following limits were not exceeded during the test.

| | |
|--------------------------------------|---|
| Temperature | Min. = 15 °C Max. = 30 °C |
| Relative humidity | Min. = 45 % Max. = 60 % |
| Air pressure | Min. = 860 mbar Max. = 1060 mbar |
| Shielding effectiveness | > 100 dB |
| Electric insulation | > 10 kΩ |
| Reference resistance to earth | < 0,5 Ω |
| Normal site attenuation (NSA) | < ±4 dB at 10 m distance between item under test and receiver antenna, (30 MHz to 1000 MHz) |
| Field homogeneity | More than 75% of illuminated surface is between 0 and 6 dB (26 MHz to 1000 MHz). |

In the chamber for conducted measurements, the following limits were not exceeded during the test:

| | |
|--------------------------------------|-------------------------------------|
| Temperature | Min. = 15 °C Max. = 30 °C |
| Relative humidity | Min. = 45 % Max. = 60 % |
| Air pressure | Min. = 860 mbar Max. = 1060 mbar |
| Shielding effectiveness | > 100 dB |
| Electric insulation | > 10 kΩ |
| Reference resistance to earth | < 0,5 Ω |

Remarks and comments

The tests have been realized by the technical personnel: Pedro Manuel Valenzuela, José Manuel Márquez, Juan Miguel del Pino & José Manuel Gómez.

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 150 kHz to 30 MHz is $I = \pm 3,60$ dB for quasi-peak measurements, $I = \pm 3,48$ dB for peak measurements ($k = 2$).

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 30 MHz to 1 GHz is $I = \pm 4,57$ dB for quasi-peak measurements, $I = \pm 4,48$ dB for peak measurements ($k = 2$) and from 1 to 12,75 GHz is $I = \pm 3,43$ dB for average and peak measurements.

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 12,75 GHz to 26 GHz is $I = \pm 4,09$ dB for average and peak measurements.

Testing verdicts

| | |
|----------------------|-----|
| Not applicable | N/A |
| Pass | P |
| Fail | F |
| Not measured | N/M |

| List of equipment used during the test | | | | | |
|--|------------------------------|-----------------|--------------|------------------|------------------|
| CONTROL NUMBER | DESCRIPTION | MANUFACTURER | MODEL | LAST CALIBRATION | NEXT CALIBRATION |
| 1999 | EMI Receptor | ROHDE & SCHWARZ | ESIB 26 | 2013-05-30 | 2015-05-30 |
| 1935 | EMI Receptor | ROHDE & SCHWARZ | ESPI 3 | 2013-12-11 | 2015-12-11 |
| 2932 | Bilog Hybrid Antenna | SUNOL | JB6 | 2011-05-11 | 2014-05-11 |
| 0245 | Horn Antenna | HP | 11966E | 2011-05-20 | 2014-05-20 |
| 1920 | Horn Antenna | AGILENT | 11966J | 2011-09-27 | 2014-09-27 |
| 1658 | RF Amplifier | SCHAFFNER | CPA9231A | 2013-06-11 | 2015-06-11 |
| 1975 | RF Amplifier | MITEQ | JS4 | 2013-04-18 | 2014-04-18 |
| 3783 | RF Amplifier | BONN ELEKTRONIK | BLMA 0118-3A | 2013-04-23 | 2014-04-23 |
| 0258 | Transient Limiter | HP | 119471A | 2012-09-19 | 2014-09-19 |
| 1650 | Artificial Network | SCHWARZBECK | NNLK - 8121 | 2013-06-25 | 2015-06-25 |
| 3545 | Temperature & Humidity probe | PICO TECHNOLOGY | HUMIDIPROBE | 2014-01-21 | 2015-01-21 |
| 3548 | Temperature & Humidity probe | PICO TECHNOLOGY | HUMIDIPROBE | 2014-01-21 | 2015-01-21 |
| 3556 | Temperature & Humidity probe | T & D | TR-72W | 2014-01-21 | 2015-01-21 |

Appendix A – Test result

APPENDIX A CONTENT:

| | |
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DESCRIPTION OF THE OPERATION MODES

The operation modes described in this paragraph constitute a functionality of the sample under test for itself. Every operation mode takes a failure criteria for the immunity test that they were applying to it and a monitoring to guarantee performance of the same ones.

In the following table appears the operation modes used by the samples tested to that it refers the present test report.

| OPERATION MODE | DESCRIPTION |
|----------------|---|
| OM#01 | EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery. Power supply: 115Vac. |
| OM#02 | EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac). |
| OM#03 | EUT ON. Equipment in computer peripheral device mode working in TCH 900MHz mode with WiFi enabled and charging battery. Power supply: 115Vac. |
| OM#04 | EUT ON. Equipment charging battery, WiFi enabled and working in TCH 900MHz mode. Power supply: AC/DC Adapter (115Vac). |

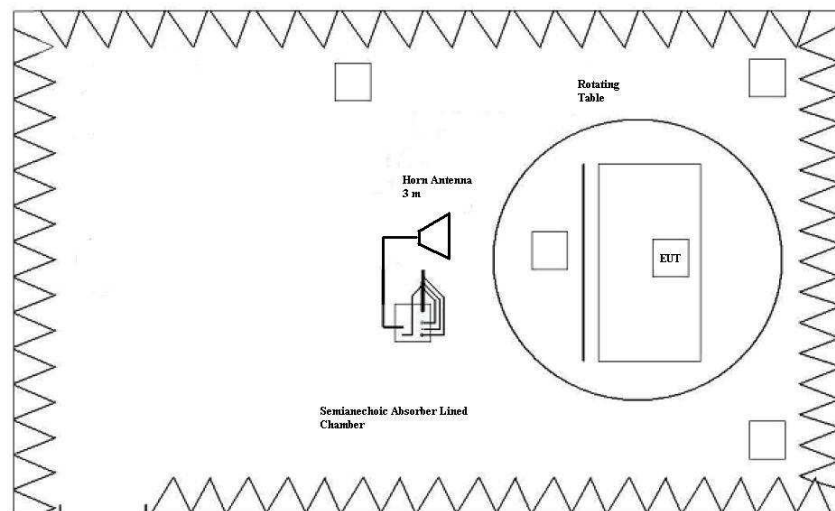
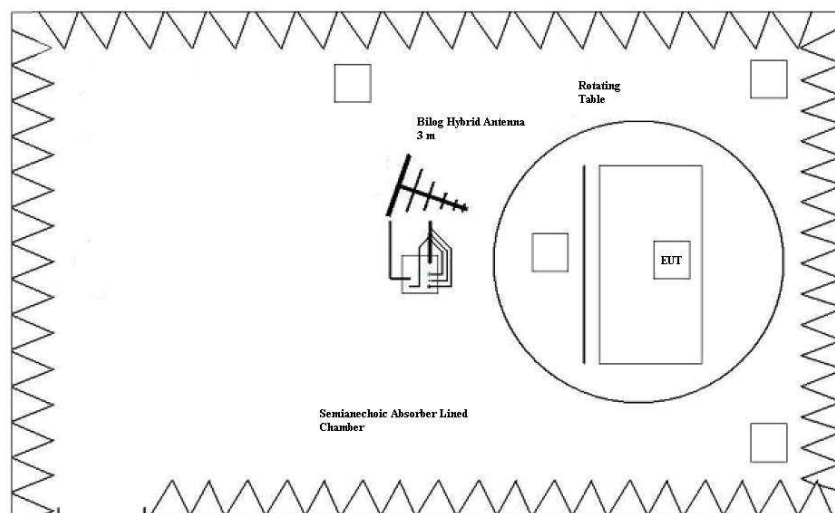
RADIATED EMISSION. ELECTROMAGNETIC FIELD MEASURE.

| | | |
|----------------|-------------------|---|
| LIMITS: | Product standard: | FCC RULES AND REGULATIONS 47 CFR PART 15, SUBPART B (10-01-12 Edition); ICES-003 ISSUE 5 & ANSI C63.10-2009 |
| | Test standard: | FCC RULES AND REGULATIONS 47 CFR PART 15, SUBPART B (10-01-12 Edition); ICES-003 ISSUE 5 & ANSI C63.10-2009 |

LIMITS OF INTERFERENCE CLASS B

The applied limit for radiated emissions, 3 m distance, according with the requirements of FCC Rules and Regulations 47 CFR Part 15.109, Subpart B (10-01-12 Edition); ICES-003 ISSUE 5 & ANSI C63.10-2009 in the frequency range 30 MHz to 26 GHz, for Class B equipment, which is a transmitter in a band over 500 MHz, was:

| Frequency range (MHz) | Limit for 3 m ($\mu\text{V/m}$) | Limit for 3 m ($\text{dB}\mu\text{V/m}$) |
|-----------------------|-----------------------------------|--|
| 30 to 88 | 100 | 40 |
| 88 to 216 | 150 | 43,52 |
| 216 to 960 | 200 | 46,02 |
| Above 960 | 500 | 53,98 |

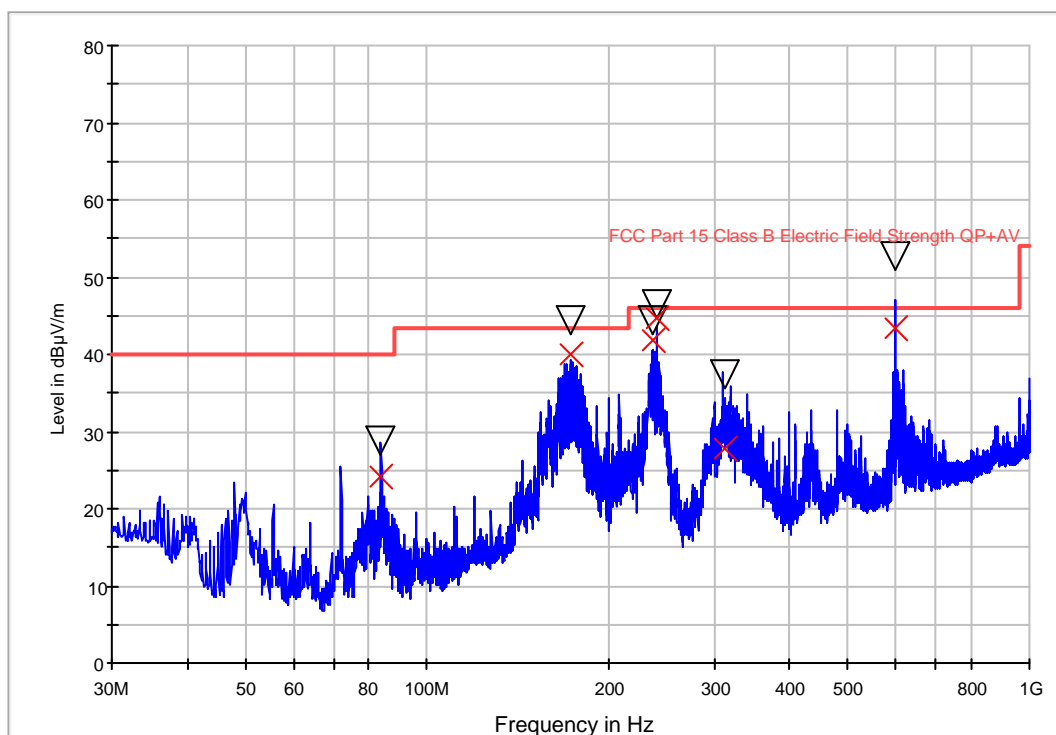


| | | |
|-------------------------|--|--------|
| TESTED SAMPLES: | S/01 | |
| TESTED OPERATION MODES: | OM#01 & 02 | |
| TEST RESULTS : | CRmmnn: CR, Radiation Condition; mm: Sample number; nn: Operation mode, xx: Polarisation. | |
| | | |
| CRmmnn | Description | Result |
| CR0101 | EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery. Power supply: 115Vac. Range 30-1000 MHz. | P |
| CR0101_RA1_PH | EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery. Power supply: 115Vac. Range 1-18 GHz. Horizontal pol. | P |
| CR0101_RA1_PV | EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery. Power supply: 115Vac. Range 1-18 GHz. Vertical pol. | P |
| CR0101_RA2_PH | EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery. Power supply: 115Vac. Range 18-26 GHz. Horizontal pol. | P |
| CR0101_RA2_PV | EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery. Power supply: 115Vac. Range 18-26 GHz. Vertical pol. | P |
| CR0102 | EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac). Range 30-1000 MHz. | P |
| CR0102_RA1_PH | EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac). Range 1-18 GHz. Horizontal pol. | P |
| CR0102_RA1_PV | EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac). Range 1-18 GHz. Vertical pol. | P |
| CR0102_RA2_PH | EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac). Range 18-26 GHz. Horizontal pol. | P |
| CR0102_RA2_PV | EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac). Range 18-26 GHz. Vertical pol. | P |

Radiated Emission: CR0101 (30MHz to 1GHz)

Project: 41308REM.001
Company: BRCK Inc.
Sample: S/01
Operation mode: OM#01
Description: EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery.
Power supply: 115Vac.

FCC class B Bilog Hybrid



FCC Part 15 Class B Electric Field Strength QP+AV
 MaxPeak
 Peak Preview
 QuasiPeak

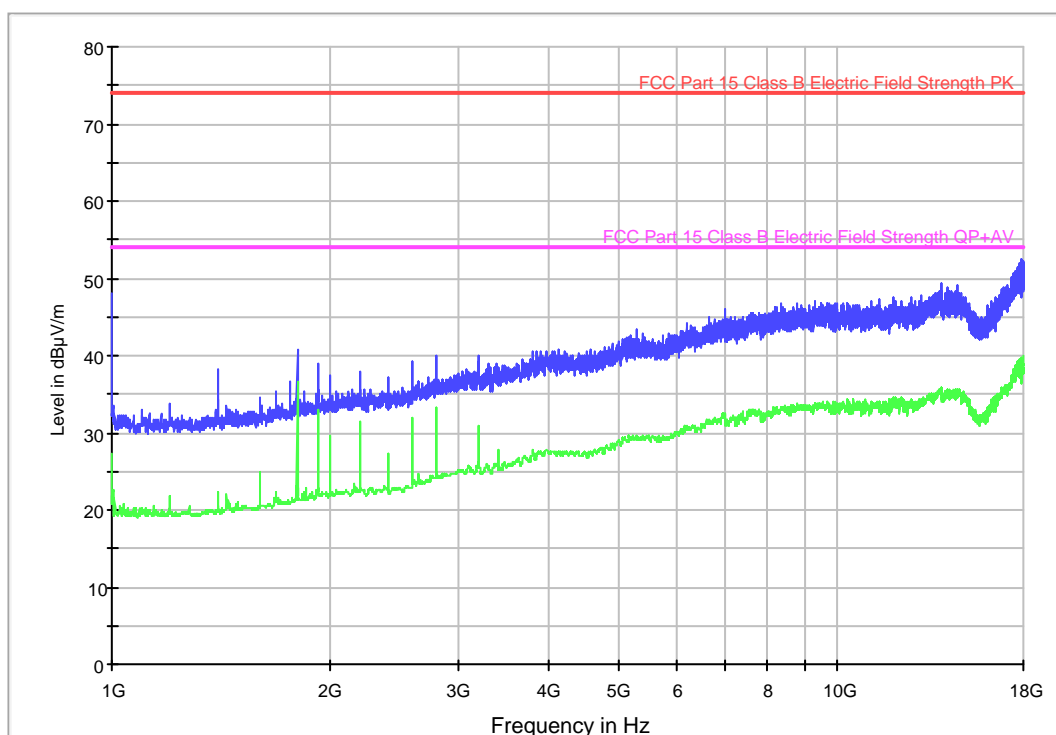
Maximizations

| Frequency (MHz) | MaxPeak (dBµV/m) | QuasiPeak (dBµV/m) | Height (cm) | Polarization | Azimuth (deg) |
|-----------------|------------------|--------------------|-------------|--------------|---------------|
| 83.982966 | 28.9 | 24.1 | 101.0 | V | 91.0 |
| 172.915030 | 44.3 | 39.9 | 142.0 | H | 311.0 |
| 236.561122 | 44.4 | 41.8 | 138.0 | H | 141.0 |
| 240.015030 | 46.5 | 44.8 | 116.0 | H | 132.0 |
| 311.233868 | 37.3 | 27.7 | 118.0 | H | 274.0 |
| 599.956914 | 52.8 | 43.5 | 123.0 | H | 123.0 |

Radiated Emission: CR0101_RA1_PH (1 – 18 GHz)

Project: 41308REM.001
 Company: BRCK Inc.
 Sample: S/01
 Operation mode: OM#01
 Description: EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery.
 Power supply: 115Vac. Horizontal polarization.

FCC 1-18GHz class B ESIB Horn 0245 AMP3783



— MaxPeak-ClearWrite-PK+ — Average-ClearWrite-AVG
— FCC Part 15 Class B Electric Field Strength PK — FCC Part 15 Class B Electric Field Strength QP+AV

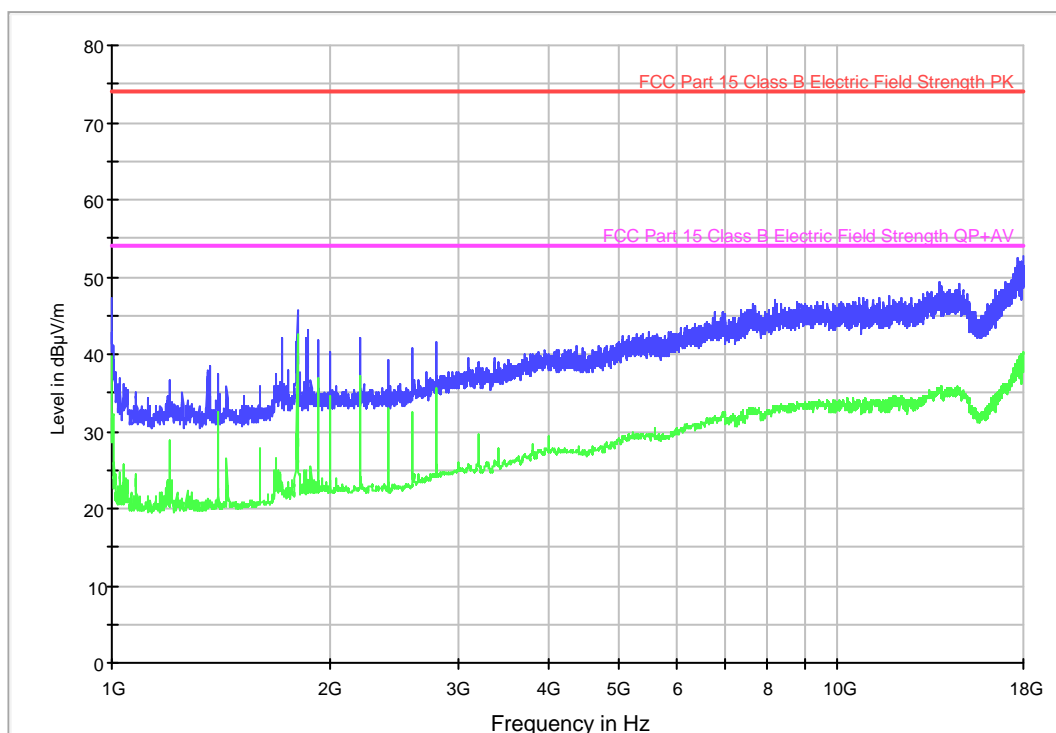
Max PK-AVG

| Frequency (MHz) | MaxPeak-ClearWrite (dBμV/m) | Average-ClearWrite (dBμV/m) |
|-----------------|-----------------------------|-----------------------------|
| 1000.000000 | 48.0 | 27.3 |
| 1400.000000 | 38.3 | 22.5 |
| 1800.000000 | 40.8 | 36.7 |
| 2800.000000 | 39.9 | 33.2 |
| 4134.000000 | 40.7 | 27.5 |
| 5271.000000 | 43.3 | 29.4 |
| 6996.000000 | 46.0 | 32.0 |
| 9302.000000 | 47.0 | 33.5 |
| 12988.000000 | 47.8 | 33.8 |
| 17884.000000 | 52.5 | 39.1 |

Radiated Emission: CR0101_RA1_PV (1 – 18 GHz)

Project: 41308REM.001
Company: BRCK Inc.
Sample: S/01
Operation mode: OM#01
Description: EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery.
Power supply: 115Vac. Vertical polarization.

FCC 1-18GHz class B ESIB Horn 0245 AMP3783



— MaxPeak-ClearWrite-PK+ — Average-ClearWrite-AVG
— FCC Part 15 Class B Electric Field Strength PK — FCC Part 15 Class B Electric Field Strength QP+AV

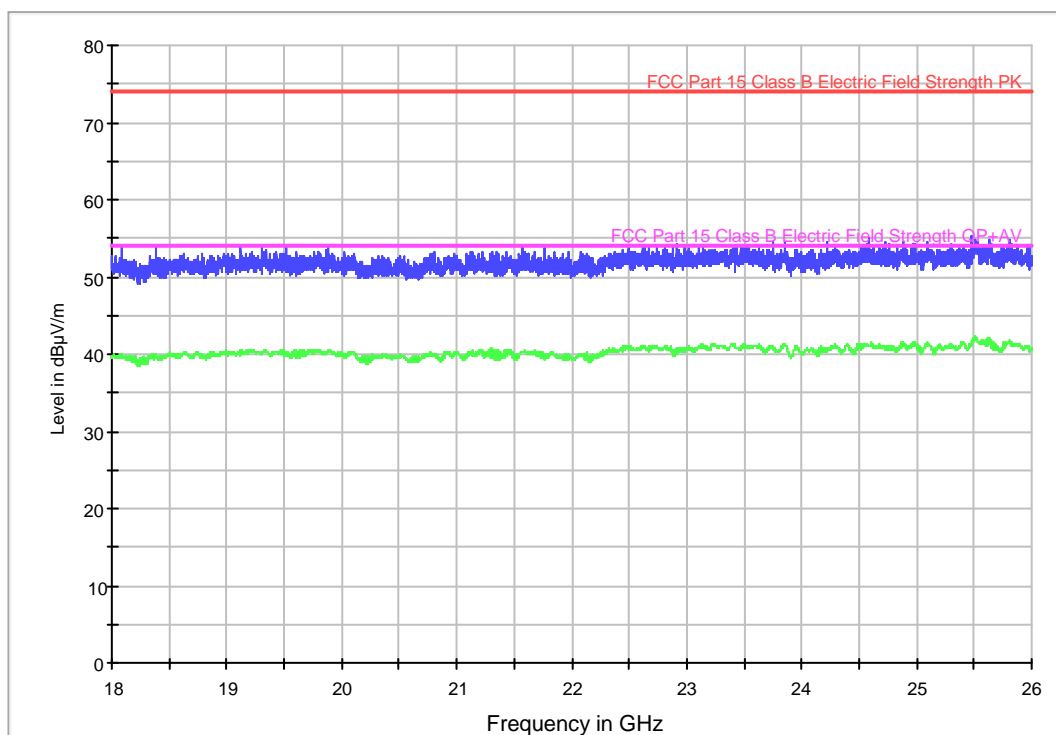
Max PK-AVG

| Frequency (MHz) | MaxPeak-ClearWrite (dBµV/m) | Average-ClearWrite (dBµV/m) |
|-----------------|-----------------------------|-----------------------------|
| 1000.000000 | 47.1 | 39.8 |
| 1717.000000 | 42.2 | 23.1 |
| 1800.000000 | 45.7 | 42.5 |
| 2800.000000 | 41.5 | 35.5 |
| 4093.000000 | 40.6 | 27.2 |
| 5499.000000 | 42.8 | 29.4 |
| 7531.000000 | 45.7 | 32.6 |
| 8164.000000 | 47.0 | 33.1 |
| 13416.000000 | 48.1 | 34.7 |
| 18000.000000 | 52.7 | 40.1 |

Radiated Emission: CR0101_RA2_PH (18 – 26 GHz)

Project: 41308REM.001
 Company: BRCK Inc.
 Sample: S/01
 Operation mode: OM#01
 Description: EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery.
 Power supply: 115Vac. Horizontal polarization.

FCC 18-26GHz class B ESIB Horn 1920 AMP1975



— MaxPeak-ClearWrite-PK+ — Average-ClearWrite-AVG
 — FCC Part 15 Class B Electric Field Strength PK — FCC Part 15 Class B Electric Field Strength QP+AV

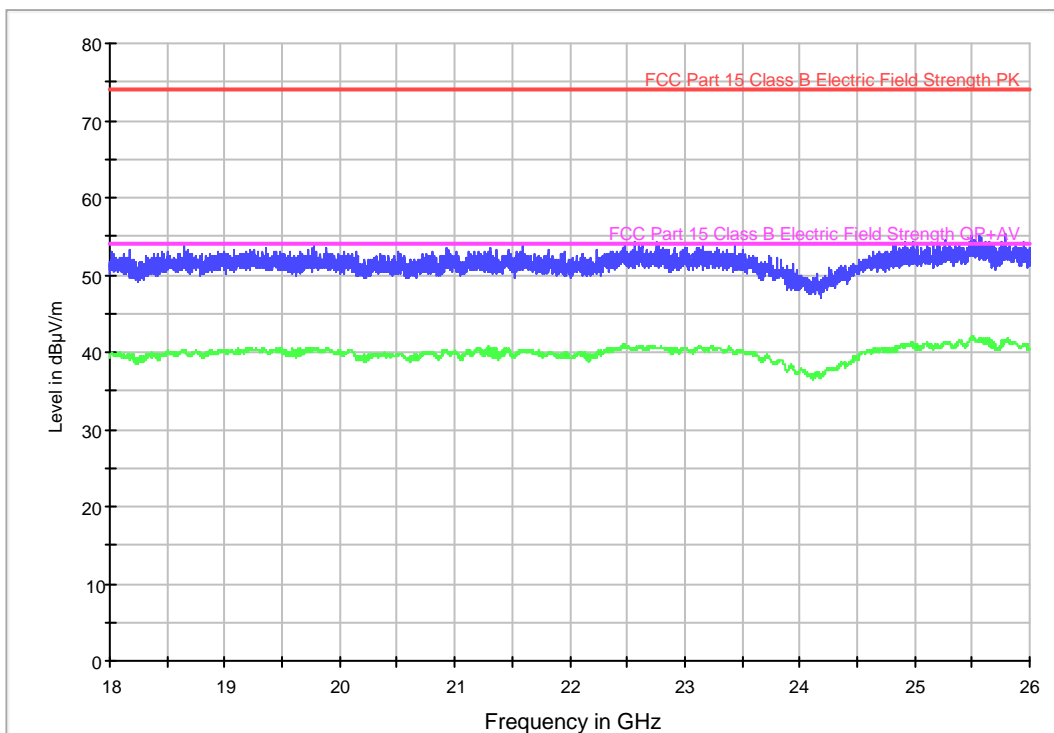
Max PK-AVG

| Frequency (MHz) | MaxPeak-ClearWrite (dBµV/m) | Average-ClearWrite (dBµV/m) |
|-----------------|-----------------------------|-----------------------------|
| 18085.000000 | 54.0 | 39.7 |
| 19124.000000 | 53.9 | 40.1 |
| 19521.000000 | 54.1 | 40.2 |
| 20813.000000 | 53.2 | 40.0 |
| 21577.000000 | 53.9 | 40.3 |
| 21758.000000 | 53.7 | 39.8 |
| 22920.000000 | 54.4 | 40.7 |
| 23857.000000 | 54.6 | 41.3 |
| 24580.000000 | 54.9 | 41.0 |
| 25477.000000 | 55.2 | 41.4 |

Radiated Emission: CR0101_RA2_PV (18 -26 GHz)

Project: 41308REM.001
 Company: BRCK Inc.
 Sample: S/01
 Operation mode: OM#01
 Description: EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery.
 Power supply: 115Vac. Vertical polarization.

FCC 18-26GHz class B ESIB Horn 1920 AMP1975



— MaxPeak-ClearWrite-PK+ — Average-ClearWrite-AVG
 — FCC Part 15 Class B Electric Field Strength PK — FCC Part 15 Class B Electric Field Strength QP+AV

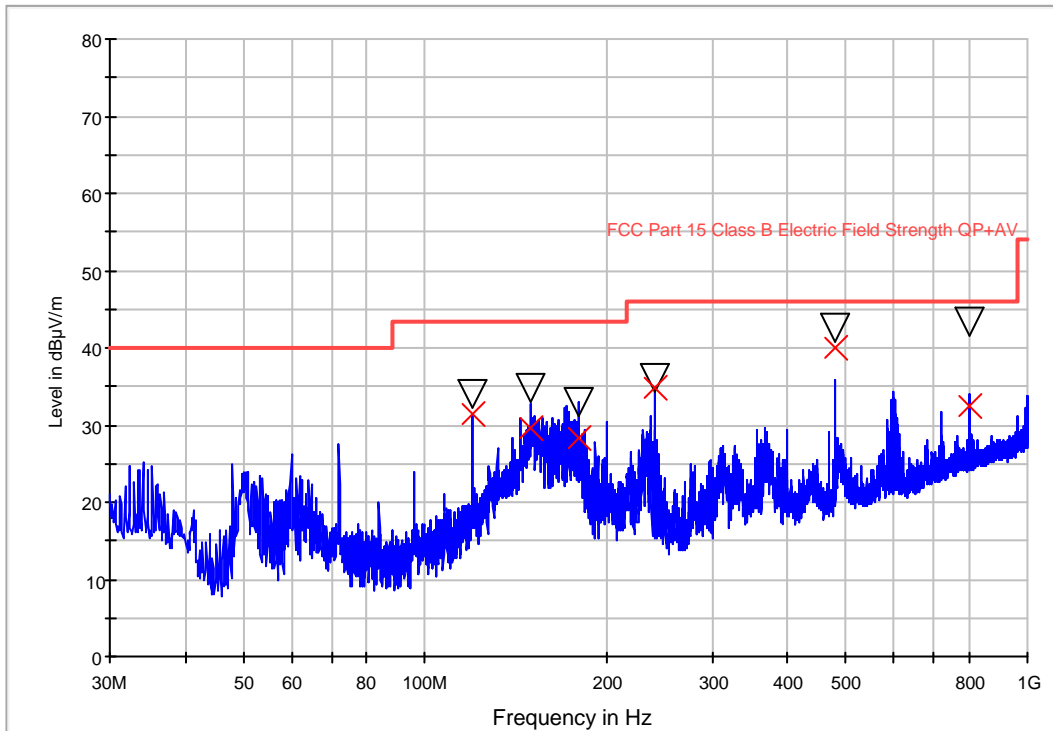
Max PK-AVG

| Frequency (MHz) | MaxPeak-ClearWrite (dBµV/m) | Average-ClearWrite (dBµV/m) |
|-----------------|-----------------------------|-----------------------------|
| 18646.000000 | 53.8 | 40.1 |
| 19358.000000 | 53.6 | 40.2 |
| 19774.000000 | 53.9 | 40.4 |
| 20515.000000 | 53.0 | 39.7 |
| 21587.000000 | 53.6 | 40.2 |
| 21821.000000 | 53.2 | 39.9 |
| 22750.000000 | 54.4 | 40.6 |
| 23434.000000 | 53.8 | 39.9 |
| 24921.000000 | 54.3 | 41.0 |
| 25791.000000 | 55.4 | 41.4 |

Radiated Emission: CR0102 (30MHz to 1GHz)

Project: 41308REM.001
Company: BRCK Inc.
Sample: S/01
Operation mode: OM#02
Description: EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac).

FCC class B Bilog Hybrid



▽ FCC Part 15 Class B Electric Field Strength QP+AV MaxPeak
× Peak Preview QuasiPeak

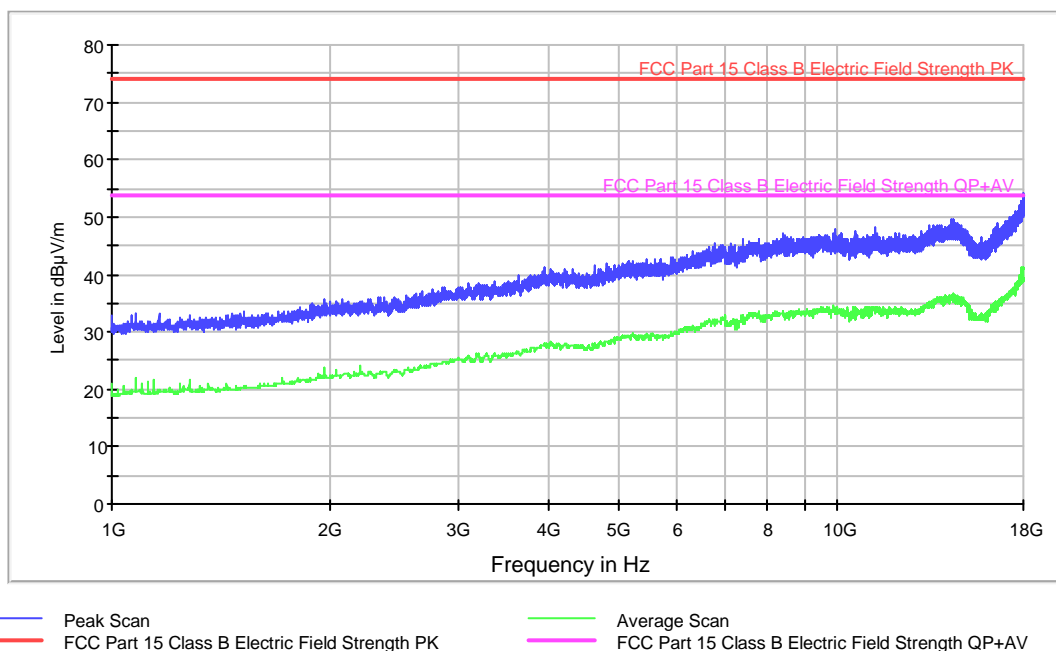
Maximizations

| Frequency (MHz) | MaxPeak (dBµV/m) | QuasiPeak (dBµV/m) | Height (cm) | Polarization | Azimuth (deg) |
|-----------------|------------------|--------------------|-------------|--------------|---------------|
| 119.974950 | 34.0 | 31.3 | 98.0 | V | 321.0 |
| 150.001002 | 34.8 | 29.7 | 162.0 | H | 96.0 |
| 179.522044 | 33.0 | 28.3 | 101.0 | V | 3.0 |
| 239.996994 | 36.2 | 34.8 | 135.0 | H | 107.0 |
| 480.021042 | 42.6 | 39.9 | 99.0 | V | 290.0 |
| 800.001002 | 43.4 | 32.5 | 126.0 | V | 7.0 |

Radiated Emission: CR0102_RA1_PH (1 – 18 GHz)

Project: 41308REM.001
 Company: BRCK Inc.
 Sample: S/01
 Operation mode: OM#02
 Description: EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac). Horizontal Polarization.

FCC 1-18GHz class B ESIB Horn 0245 AMP3783



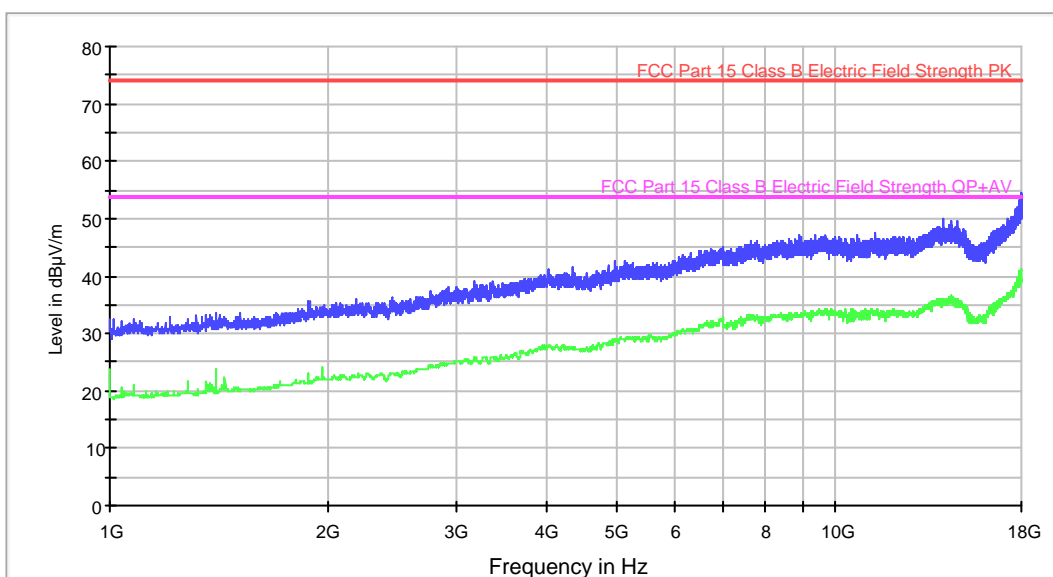
Max PK-AVG

| Frequency (MHz) | MaxPeak-ClearWrite (dBµV/m) | Average-ClearWrite (dBµV/m) |
|-----------------|-----------------------------|-----------------------------|
| 1080.000000 | 33.1 | 22.1 |
| 1782.000000 | 33.7 | 21.1 |
| 2342.000000 | 36.1 | 22.9 |
| 3100.000000 | 38.3 | 25.6 |
| 3952.000000 | 41.1 | 27.8 |
| 5584.000000 | 42.6 | 29.3 |
| 7376.000000 | 46.1 | 32.9 |
| 9898.000000 | 47.8 | 33.6 |
| 13378.000000 | 48.6 | 34.9 |
| 17960.000000 | 54.0 | 41.0 |

Radiated Emission: CR0102_RA1_PV (1 – 18 GHz)

Project: 41308REM.001
Company: BRCK Inc.
Sample: S/01
Operation mode: OM#02
Description: EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac). Vertical Polarization.

FCC 1-18GHz class B ESIB Horn 0245 AMP3783



— Peak Scan
— FCC Part 15 Class B Electric Field Strength PK
— Average Scan
— FCC Part 15 Class B Electric Field Strength QP+AV

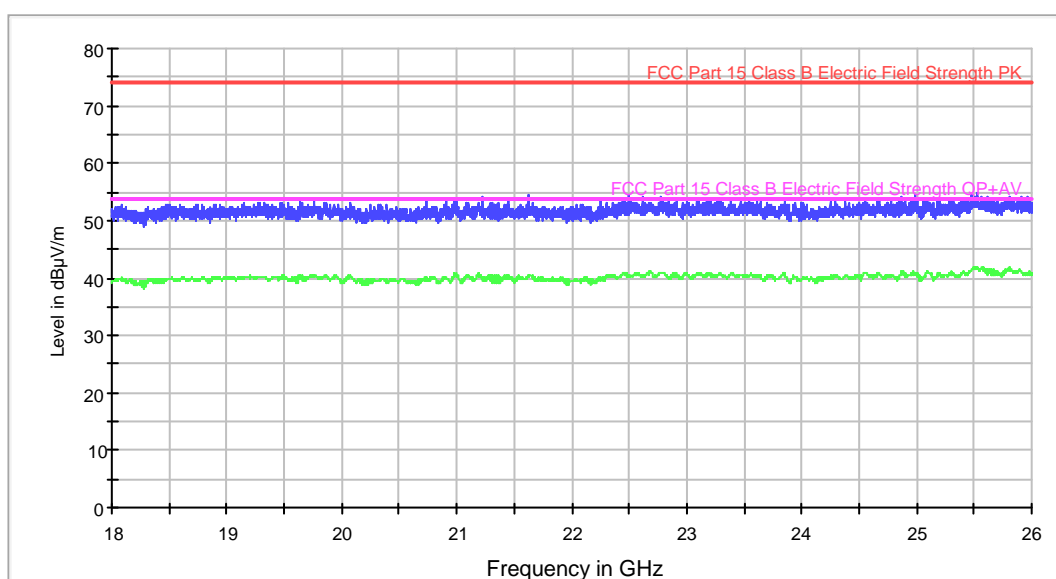
Max PK-AVG

| Frequency (MHz) | MaxPeak-ClearWrite (dBµV/m) | Average-ClearWrite (dBµV/m) |
|-----------------|-----------------------------|-----------------------------|
| 1040.000000 | 36.1 | 29.7 |
| 1400.000000 | 33.5 | 23.6 |
| 1882.000000 | 38.7 | 21.7 |
| 2442.000000 | 36.2 | 23.1 |
| 3182.000000 | 39.3 | 25.7 |
| 4007.000000 | 41.3 | 27.8 |
| 4944.000000 | 42.6 | 28.8 |
| 6745.000000 | 44.6 | 31.9 |
| 8625.000000 | 46.6 | 33.6 |
| 9377.000000 | 47.2 | 33.5 |
| 14084.000000 | 49.8 | 35.2 |
| 17950.000000 | 54.5 | 41.1 |

Radiated Emission: CR0102_RA2_PH (18 – 26 GHz)

Project: 41308REM.001
 Company: BRCK Inc.
 Sample: S/01
 Operation mode: OM#02
 Description: EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac). Horizontal Polarization.

FCC 18-26GHz class B ESIB Horn 1920 AMP1975



— Peak Scan
 — Average Scan
 — FCC Part 15 Class B Electric Field Strength PK
 — FCC Part 15 Class B Electric Field Strength QP+AV

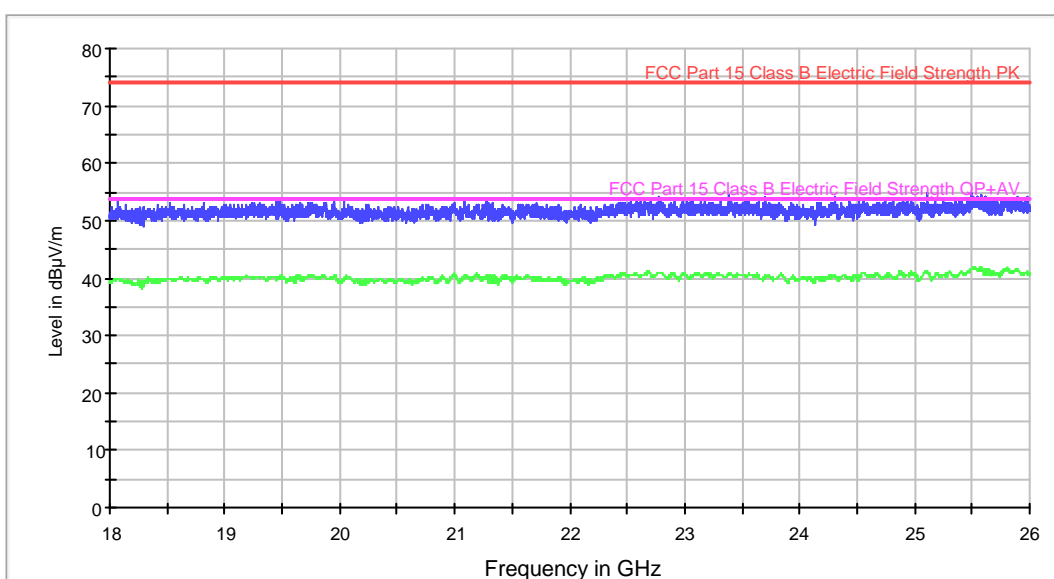
Max PK-AVG

| Frequency (MHz) | MaxPeak-ClearWrite (dBµV/m) | Average-ClearWrite (dBµV/m) |
|-----------------|-----------------------------|-----------------------------|
| 18463.000000 | 52.8 | 39.6 |
| 18913.000000 | 52.9 | 40.0 |
| 19647.000000 | 53.4 | 40.5 |
| 19758.000000 | 53.3 | 40.4 |
| 20743.000000 | 53.3 | 39.8 |
| 21630.000000 | 54.7 | 40.3 |
| 22255.000000 | 53.3 | 40.3 |
| 22504.000000 | 54.6 | 40.3 |
| 23103.000000 | 53.8 | 40.8 |
| 24289.000000 | 53.4 | 40.4 |
| 24992.000000 | 54.4 | 40.9 |
| 25525.000000 | 54.9 | 41.7 |

Radiated Emission: CR0102_RA2_PV (18 -26 GHz)

Project: 41308REM.001
Company: BRCK Inc.
Sample: S/01
Operation mode: OM#02
Description: EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac). Vertical Polarization.

FCC 18-26GHz class B ESIB Horn 1920 AMP1975



— Peak Scan
— FCC Part 15 Class B Electric Field Strength PK
— Average Scan
— FCC Part 15 Class B Electric Field Strength QP+AV

Max PK-AVG

| Frequency (MHz) | MaxPeak-ClearWrite (dBµV/m) | Average-ClearWrite (dBµV/m) |
|-----------------|-----------------------------|-----------------------------|
| 18067.000000 | 53.3 | 39.8 |
| 18813.000000 | 53.0 | 39.8 |
| 19472.000000 | 53.5 | 40.3 |
| 20045.000000 | 54.0 | 40.1 |
| 20755.000000 | 52.7 | 39.7 |
| 21082.000000 | 53.9 | 40.4 |
| 21721.000000 | 53.1 | 40.0 |
| 22776.000000 | 54.1 | 40.8 |
| 23381.000000 | 54.5 | 40.6 |
| 24313.000000 | 54.0 | 40.4 |
| 25107.000000 | 54.7 | 40.9 |
| 25494.000000 | 54.7 | 41.6 |

CONTINUOUS CONDUCTED EMISSION ON POWER LEADS

| | | |
|----------------|--------------------|--|
| LIMITS: | Product standard : | FCC RULES AND REGULATIONS 47 CFR PART 15, SUBPART B (10-01-12 Edition); ICESS-003 ISSUE 5 & ANSI C63.10-2009 |
| | Test standard : | FCC RULES AND REGULATIONS 47 CFR PART 15, SUBPART B (10-01-12 Edition); ICESS-003 ISSUE 5 & ANSI C63.10-2009 |

CLASS B

The applied limit for continuous conducted emissions in power leads, according with the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B (10-01-12 Edition); ICESS-003 ISSUE 5 & ANSI C63.10-2009, in the frequency range 0,15 to 30 MHz, for Class B equipment was:

| Frequency range (MHz) | Limit (dB μ V) | |
|--------------------------|--------------------|---------|
| | Quasi-peak | Average |
| 0,15 to 0,5 | 66-56 | 56-46 |
| 0,5 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

| | |
|--------------------------------|--|
| TESTED SAMPLES: | S/01 |
| TESTED OPERATION MODES: | OM#01; 02; 03 & 04 |
| TEST RESULTS : | CCmmnnhh: CC, Conducted Condition; mm: Sample number; nn: Operation mode; hh: wire |

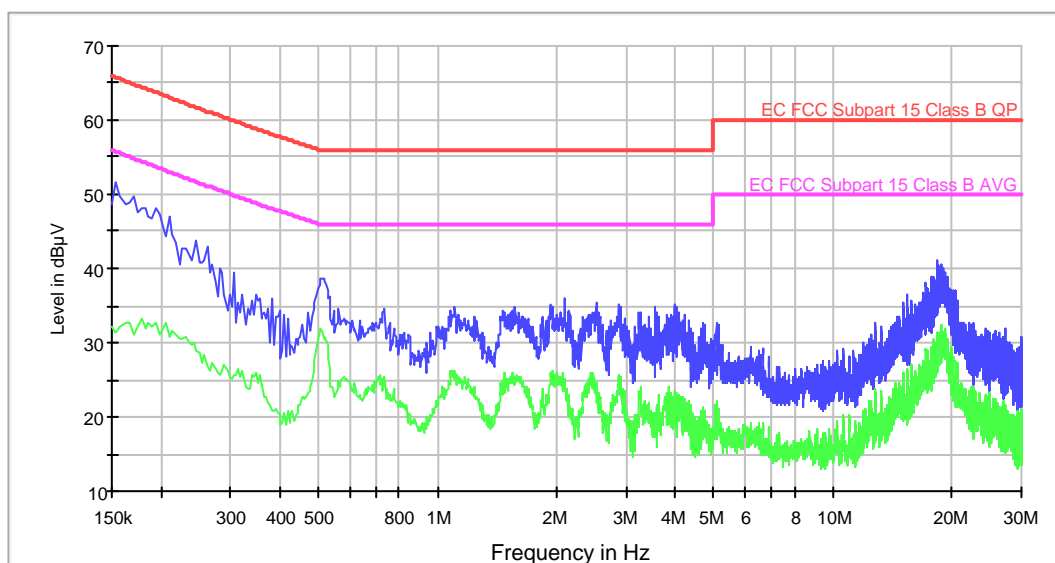
| CCmmnnhh | Description | Result |
|----------|--------------------|--------|
| CC01010N | Neutral wire noise | P |
| CC0101L1 | Phase wire noise | P |
| CC01020N | Neutral wire noise | P |
| CC0102L1 | Phase wire noise | P |
| CC01030N | Neutral wire noise | P |
| CC0103L1 | Phase wire noise | P |
| CC01040N | Neutral wire noise | P |
| CC0104L1 | Phase wire noise | P |

Continuous Conducted emission : CC01010N

Detector : Peak / Average / Cuasi-peak

Project: 41308REM.001
Company: BRCK Inc.
Sample: S/01
Operation mode: OM#01
Description: EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery.
Power supply: 115Vac. Neutral wire noise.

EMI EC FCC Subpart 15 Class B ESPI CC



— Peak Scan — Average Scan
— EC FCC Subpart 15 Class B QP — EC FCC Subpart 15 Class B AVG

Subrange Maxima

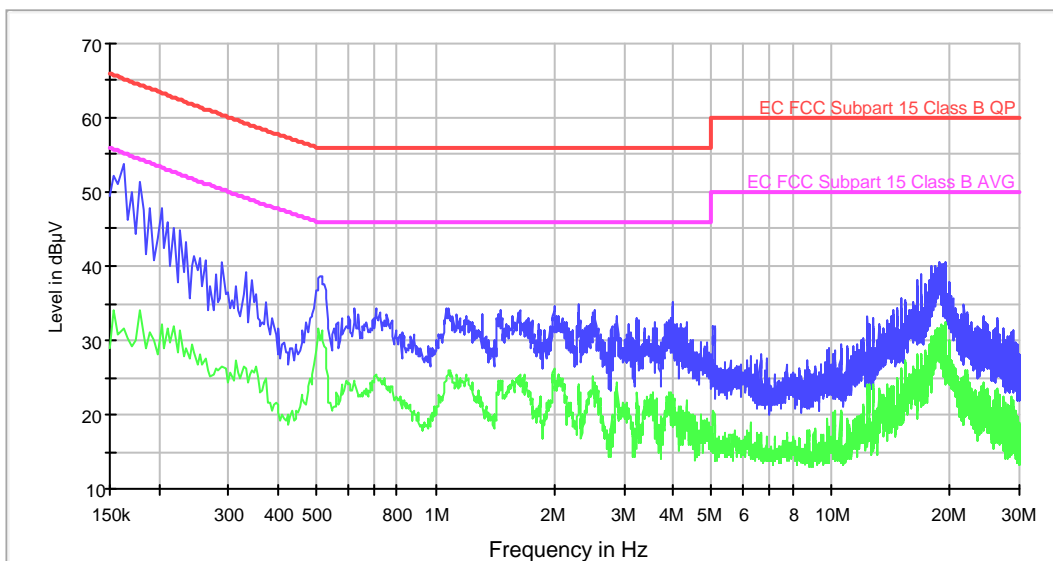
| Frequency (MHz) | MaxPeak-ClearWrite (dBµV) | Average-ClearWrite (dBµV) |
|-----------------|---------------------------|---------------------------|
| 0.154000 | 51.6 | 31.4 |
| 0.262000 | 43.0 | 26.9 |
| 0.510000 | 38.8 | 31.6 |
| 1.106000 | 34.9 | 26.3 |
| 2.094000 | 36.0 | 24.8 |
| 2.518000 | 35.5 | 23.4 |
| 3.974000 | 35.2 | 21.7 |
| 6.198000 | 29.5 | 17.7 |
| 17.658000 | 39.0 | 27.7 |
| 18.350000 | 41.2 | 31.4 |

Continuous Conducted emission : CC0101L1

Detector : Peak / Average / Cuasi-peak

Project: 41308REM.001
Company: BRCK Inc.
Sample: S/01
Operation mode: OM#01
Description: EUT ON. Equipment in computer peripheral device mode working in IDLE 900MHz mode with WiFi disabled and charging battery.
Power supply: 115Vac. Phase wire noise.

EMI EC FCC Subpart 15 Class B ESPI CC



— Peak Scan — Average Scan
— EC FCC Subpart 15 Class B QP — EC FCC Subpart 15 Class B AVG

Subrange Maxima

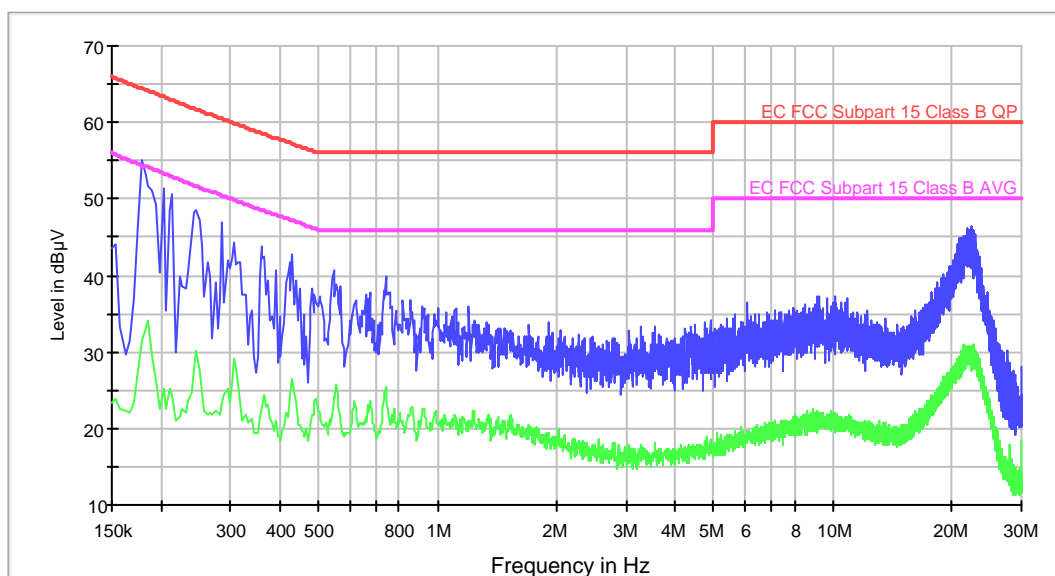
| Frequency (MHz) | MaxPeak-ClearWrite (dBµV) | Average-ClearWrite (dBµV) |
|-----------------|---------------------------|---------------------------|
| 0.162000 | 53.9 | 31.7 |
| 0.262000 | 40.7 | 27.5 |
| 0.514000 | 38.7 | 31.3 |
| 1.082000 | 34.4 | 26.0 |
| 1.994000 | 34.7 | 26.0 |
| 2.310000 | 34.8 | 23.9 |
| 3.966000 | 35.0 | 20.8 |
| 9.910000 | 29.0 | 17.8 |
| 16.930000 | 38.9 | 27.9 |
| 19.474000 | 40.6 | 31.4 |

Continuous Conducted emission : CC01020N

Detector : Peak / Average / Cuasi-peak

Project: 41308REM.001
Company: BRCK Inc.
Sample: S/01
Operation mode: OM#02
Description: EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac). Neutral wire noise.

EMI EC FCC Subpart 15 Class B ESPI CC



— Peak Scan — Average Scan
— EC FCC Subpart 15 Class B QP — EC FCC Subpart 15 Class B AVG

Subrange Maxima

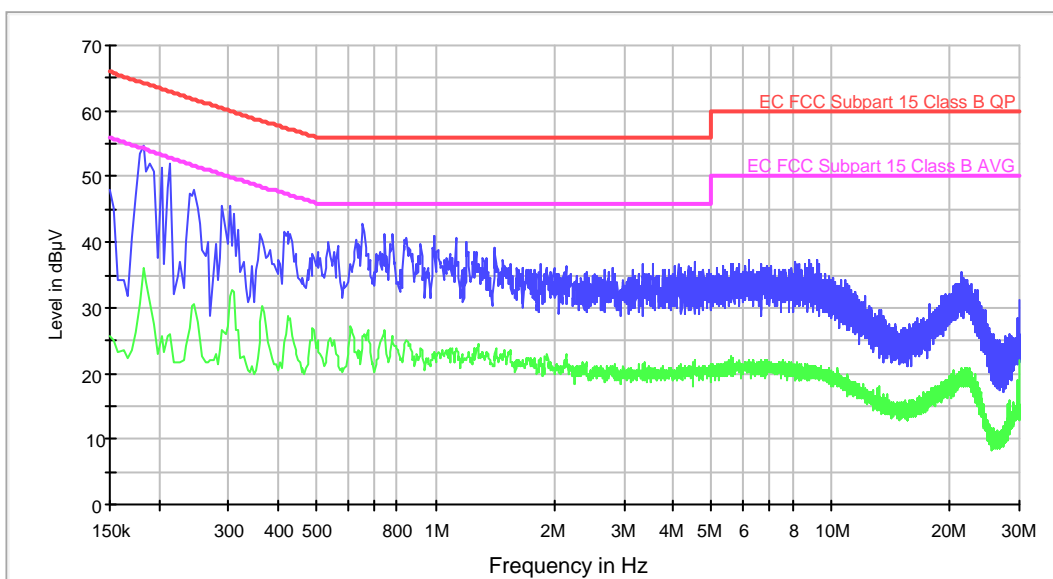
| Frequency (MHz) | MaxPeak-ClearWrite (dBµV) | Average-ClearWrite (dBµV) |
|-----------------|---------------------------|---------------------------|
| 0.178000 | 55.0 | 31.4 |
| 0.286000 | 46.9 | 23.4 |
| 0.546000 | 40.7 | 24.1 |
| 0.738000 | 39.8 | 25.4 |
| 1.330000 | 33.9 | 21.2 |
| 3.262000 | 33.4 | 17.8 |
| 6.058000 | 36.5 | 19.6 |
| 10.126000 | 37.3 | 21.1 |
| 10.882000 | 36.9 | 21.3 |
| 22.514000 | 46.3 | 29.6 |

Continuous Conducted emission : CC0102L1

Detector : Peak / Average / Cuasi-peak

Project: 41308REM.001
Company: BRCK Inc.
Sample: S/01
Operation mode: OM#02
Description: EUT ON. Equipment charging battery, WiFi disabled and working in IDLE 900MHz mode. Power supply: AC/DC Adapter (115Vac).
Phase wire noise.

EMI EC FCC Subpart 15 Class B ESPI CC



— Peak Scan
— Average Scan
— EC FCC Subpart 15 Class B QP
— EC FCC Subpart 15 Class B AVG

Subrange Maxima

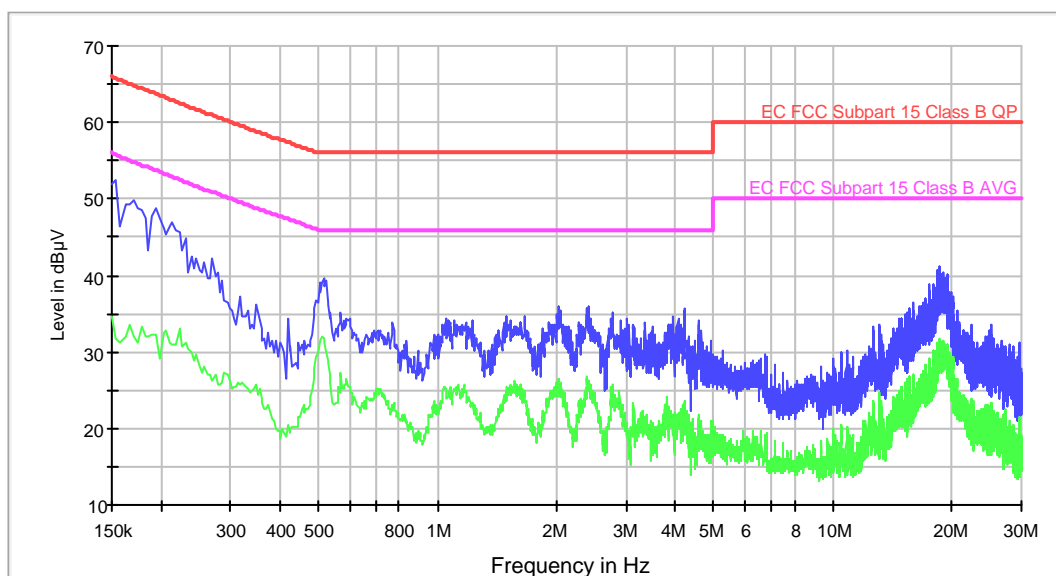
| Frequency (MHz) | MaxPeak-ClearWrite (dBµV) | Average-ClearWrite (dBµV) |
|-----------------|---------------------------|---------------------------|
| 0.182000 | 54.6 | 36.2 |
| 0.290000 | 45.7 | 26.5 |
| 0.654000 | 42.8 | 25.8 |
| 0.782000 | 41.3 | 24.7 |
| 1.410000 | 39.2 | 22.6 |
| 3.530000 | 36.6 | 20.0 |
| 4.526000 | 36.9 | 22.0 |
| 6.238000 | 37.4 | 22.1 |
| 10.890000 | 34.3 | 18.3 |
| 21.362000 | 35.6 | 20.1 |

Continuous Conducted emission : CC01030N

Detector : Peak / Average / Cuasi-peak

Project: 41308REM.001
 Company: BRCK Inc.
 Sample: S/01
 Operation mode: OM#03
 Description: EUT ON. Equipment in computer peripheral device mode working in TCH 900MHz mode with WiFi enabled and charging battery.
 Power supply: 115Vac. Neutral wire noise.

EMI EC FCC Subpart 15 Class B ESPI CC



— Peak Scan — Average Scan
— EC FCC Subpart 15 Class B QP — EC FCC Subpart 15 Class B AVG

Subrange Maxima

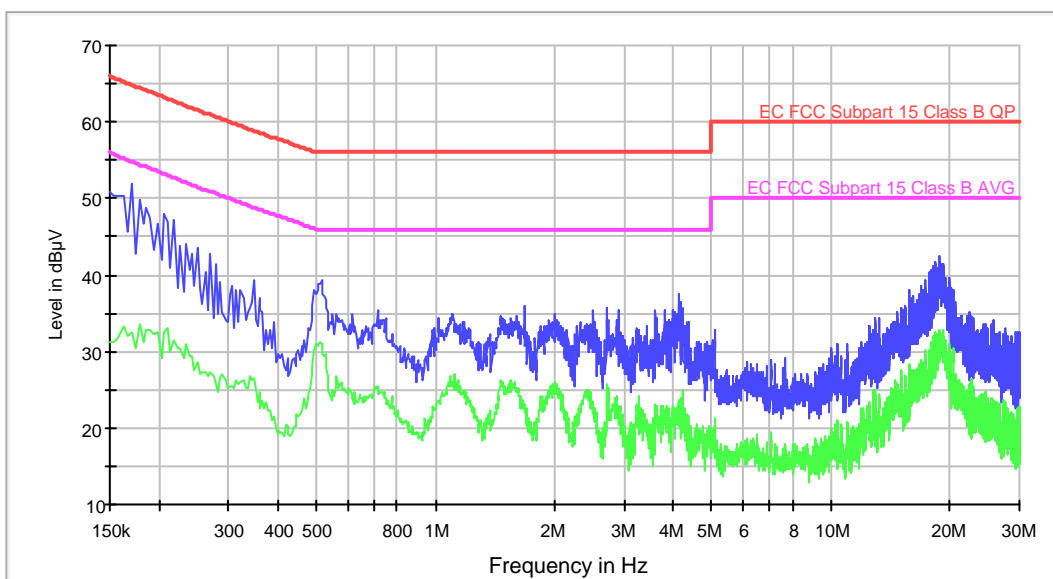
| Frequency (MHz) | MaxPeak-ClearWrite (dBµV) | Average-ClearWrite (dBµV) |
|-----------------|---------------------------|---------------------------|
| 0.154000 | 52.6 | 31.7 |
| 0.270000 | 42.3 | 26.1 |
| 0.514000 | 39.6 | 31.6 |
| 1.054000 | 34.4 | 24.9 |
| 2.022000 | 35.9 | 26.5 |
| 2.402000 | 35.9 | 26.3 |
| 4.202000 | 35.7 | 23.3 |
| 6.754000 | 29.5 | 18.9 |
| 17.530000 | 38.9 | 29.1 |
| 18.494000 | 41.3 | 31.4 |

Continuous Conducted emission : CC0103L1

Detector : Peak / Average / Cuasi-peak

Project: 41308REM.001
 Company: BRCK Inc.
 Sample: S/01
 Operation mode: OM#03
 Description: EUT ON. Equipment in computer peripheral device mode working in TCH 900MHz mode with WiFi enabled and charging battery.
 Power supply: 115Vac. Phase wire noise.

EMI EC FCC Subpart 15 Class B ESPI CC



— Peak Scan — Average Scan
 — EC FCC Subpart 15 Class B QP — EC FCC Subpart 15 Class B AVG

Subrange Maxima

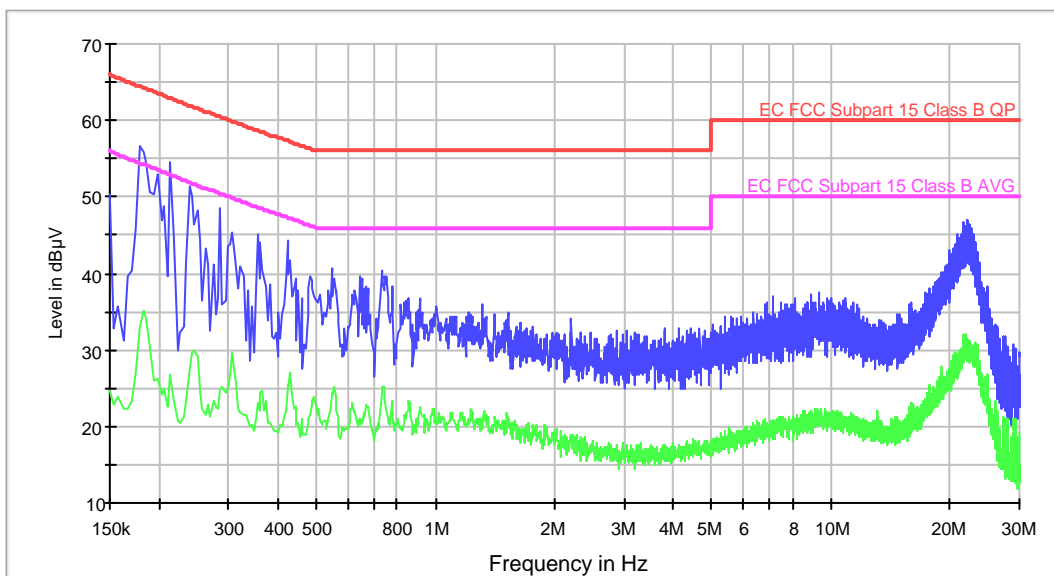
| Frequency (MHz) | MaxPeak-ClearWrite (dBµV) | Average-ClearWrite (dBµV) |
|-----------------|---------------------------|---------------------------|
| 0.170000 | 51.8 | 32.5 |
| 0.270000 | 42.7 | 27.2 |
| 0.514000 | 39.3 | 31.0 |
| 1.098000 | 34.8 | 26.1 |
| 1.678000 | 36.0 | 23.1 |
| 2.714000 | 35.8 | 25.0 |
| 4.138000 | 37.4 | 23.6 |
| 10.322000 | 30.9 | 20.7 |
| 17.302000 | 39.2 | 28.7 |
| 18.798000 | 42.6 | 32.0 |

Continuous Conducted emission : CC01040N

Detector : Peak / Average / Cuasi-peak

Project: 41308REM.001
Company: BRCK Inc.
Sample: S/01
Operation mode: OM#04
Description: EUT ON. Equipment charging battery, WiFi enabled and working in TCH 900MHz mode. Power supply: AC/DC Adapter (115Vac). Neutral wire noise.

EMI EC FCC Subpart 15 Class B ESPI CC



— Peak Scan — Average Scan
— EC FCC Subpart 15 Class B QP — EC FCC Subpart 15 Class B AVG

Subrange Maxima

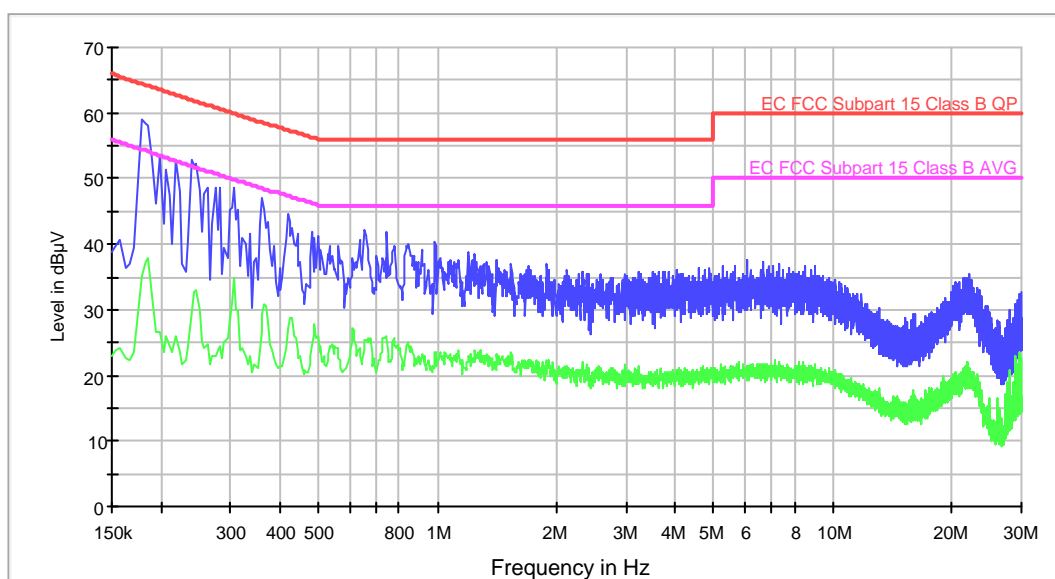
| Frequency (MHz) | MaxPeak-ClearWrite (dBµV) | Average-ClearWrite (dBµV) |
|-----------------|---------------------------|---------------------------|
| 0.178000 | 56.6 | 33.0 |
| 0.286000 | 48.5 | 24.7 |
| 0.546000 | 40.6 | 24.3 |
| 0.754000 | 39.7 | 22.0 |
| 1.318000 | 35.9 | 20.4 |
| 2.206000 | 34.1 | 18.9 |
| 5.946000 | 34.4 | 19.3 |
| 9.354000 | 37.5 | 21.9 |
| 17.294000 | 37.5 | 23.2 |
| 22.202000 | 46.9 | 30.6 |

Continuous Conducted emission : CC0104L1

Detector : Peak / Average / Cuasi-peak

Project: 41308REM.001
Company: BRCK Inc.
Sample: S/01
Operation mode: OM#04
Description: EUT ON. Equipment charging battery, WiFi enabled and working in TCH 900MHz mode. Power supply: AC/DC Adapter (115Vac).
Phase wire noise.

EMI EC FCC Subpart 15 Class B ESPI CC



— Peak Scan
— Average Scan
— EC FCC Subpart 15 Class B QP
— EC FCC Subpart 15 Class B AVG

Subrange Maxima

| Frequency (MHz) | MaxPeak-ClearWrite (dBµV) | Average-ClearWrite (dBµV) |
|-----------------|---------------------------|---------------------------|
| 0.178000 | 59.0 | 35.1 |
| 0.282000 | 48.7 | 24.5 |
| 0.654000 | 42.3 | 25.3 |
| 0.746000 | 41.8 | 25.8 |
| 1.414000 | 37.6 | 23.1 |
| 2.130000 | 36.1 | 21.4 |
| 6.054000 | 37.5 | 21.4 |
| 6.638000 | 37.2 | 20.9 |
| 10.538000 | 33.8 | 20.3 |
| 22.198000 | 35.3 | 21.2 |

Appendix B - Photographs

