

FCC ID: 2A2Y8-FC500C 182518C400018101 Report No.: Page 1 of 32

FCC Test Report

| _ * | - No. |
|-----|--------|
| App | licant |
| F F | |

Guangdong Nanguang Photo&Video Systems Co., Ltd.

- Dongli Section, Highway 324, Chenghai, Address Shantou City, Guangdong Province, China
 - **LED RGBW Spot Light** Product Name
- : Jun. 18, 2024 **Report Date**



Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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| 7. Emissions in non-restricted frequency b | ands | probotek Ant | oret Ar | | | 18 19 |
| 7. Emissions in non-restricted frequency b | ands | probotek Ant | oret Ar | | | 18 19 |
| 7. Emissions in non-restricted frequency b | ands GHz) | | | | | 18 19 19 19 19 20 21 22 23 23 23 24 |

| Shenzhen Anbotek Compliance Laboratory Limited | |
|---|--|
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| 10. Emissions in frequency bands (above 1GHz). | Anbotek Anbote Anu | |
| 10.1. EUT Operation | otek An ^{bo} ' A'' | 27 × |
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|---------------------|--|
| | TEST REPORT |
| Applicant | : Guangdong Nanguang Photo&Video Systems Co., Ltd. |
| Manufacturer | : Guangdong Nanguang Photo&Video Systems Co., Ltd. |
| Product Name | : LED RGBW Spot Light |
| Test Model No. | FC-500C |
| Reference Model No. | : An N/A Anborek Anborek Anborek Anborek Anborek Anborek Anborek |
| Trade Mark | : NANLITE Andorek Andorek Andorek Andorek Andorek Andorek Andorek |
| Rating(s) | : Input: AC100-240V, 50/60Hz, 520W |
| Test Standard(s) | FCC Part15 Subpart C, Section 15.247 ANSI C63.10-2020 KDB 558074 D01 15.247 Meas Guidance v05r02 |

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:

Date of Test:

May 25, 2024

May 25, 2024 to Jun. 06, 2024

Jane

Ella

Prepared By:

(Ella Liang)

Idward pow

(Edward Pan)

Approved & Authorized Signer:

Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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Revision History

| Report Ver | sion | | Description | | | Issued | Date | |
|-------------|-----------|--------------|-----------------|---------|---------|----------|---------|--------|
| R00 | botek Ant | otek | Original Issue. | Inbotek | Anbore. | Jun. 18, | 2024 | Anbote |
| Anbor A | Anbotek | Anboten atek | Anbotek | Anbotek | K Anbe | botek | Anbotek | Anbe |
| ote Antotek | Anboten | Anberbote | k Anborek | Anbore | atek A | Anbotek | Anboten | A K |

Anbc

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1. General Information

1.1. Client Information

| Applicant | : Guangdong Nanguang Photo&Video Systems Co., Ltd. |
|--------------|---|
| Address | Dongli Section, Highway 324, Chenghai, Shantou City, Guangdong Province, China |
| Manufacturer | : Guangdong Nanguang Photo&Video Systems Co., Ltd. |
| Address | Dongli Section, Highway 324, Chenghai, Shantou City, Guangdong Province, China |
| Factory | : Guangdong Nanguang Photo&Video Systems Co., Ltd. |
| Address | Dongli Section, Highway 324, Chenghai, Shantou City, Guangdong Province, China |

1.2. Description of Device (EUT)

| Product Name | : | LED RGBW Spot Light |
|------------------------|---|--|
| Test Model No. | : | FC-500C |
| Reference Model No. | : | N/A hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek |
| Trade Mark | : | NANLITE AND |
| Test Power Supply | : | AC 120V/60Hz for adapter |
| Test Sample No. | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) |
| Adapter | : | N/A tek potek Anbotek Anbotek Anbotek Anbotek Anbotek |
| Power source | : | Model: FC-500B/500C Input: AC100-240V, 50/60Hz Output: DC48V, Max. 10.8A, 518.4W |
| RF Specification | | |
| Operation Frequency | : | 2402MHz to 2480MHz |
| Number of Channel | : | 40 An Anborek Anborek Anborek Anborek Anbor |
| Modulation Type | : | GFSK And |
| Antenna Type | : | PCB Antenna |
| Antenna Gain(Peak) | : | 2.32dBi |
| | | ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the |

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1.3. Auxiliary Equipment Used During Test

| Title | Manufacturer | Model No. | Serial No. |
|-----------------|-------------------|-----------------|-----------------|
| Annotek Anboten | Ant botek Anbotek | Anbor An nbotek | Anboten And And |

1.4. Operation channel list

Operation Band:

| Operation D | | No. No. | O' A''' | | ter up | | X |
|-----------------------|---|-------------|--------------------|----------|--|-------------------------|--------------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| Anboten | 2402 | 10 | 2422 | 20 | 2442 | And 30 tek | 2462 |
| Antoren | 2404 | 1,Botek | 2424 | 21 botek | 2444 | 31 | 2464 |
| 2, nboter | 2406 | 12 12 12 | 2426 | 22 | 2446 | 32 | 2466 not |
| * 3 Anbo | 2408 | otek 13 Ant | 2428 | 23 | pote ^x 2448 pro ⁶⁰ | 33 | 2468 |
| ote ^k 4 pr | 2410 | vote14 | 2430 | 24 | 2450 | 34 | 2470 |
| nb ^{ot} 5 | 2412 | 15 | 2432 | 25 K | 2452 | Anto 35 | 2472 |
| Anl6 rek | 2414 | 16 | 2434 | 26 × | 2454 | 36 | 2474 |
| 7 hotek | 2416 | 17 bote | 2436 | 27 | 2456 | 371001 | 2476 |
| 4 8 Aupot | 2418 | 18 | 2438 | 28 | ote ^x 2458 | ek 38 Anbo | 2478 |
| otek 9 An | oo ^{tek} 2420 ^{Milos} | 19 | 2440 | 29 Am | 2460 | oo ^{tek} 39 Ar | 2480 |
| | 10 | WU. | | 200 | A () - | 10. | - 60 |

1.5. Description of Test Modes

| Pretest Modes | Descriptions |
|---------------------|---|
| Anbotek TM1Anbo | Keep the EUT works in continuously transmitting mode (BLE 1M) |
| ek Anboter TM2 Anbo | Keep the EUT works in continuously transmitting mode (BLE 2M) |

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Anbotek Product Safety

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1.6. Measurement Uncertainty

| Parameter | Uncertainty | | |
|--|---|--|--|
| Conducted emissions (AMN 150kHz~30MHz) | 3.4dB | | |
| Occupied Bandwidth | 925Hz | | |
| Conducted Output Power | 0.76dB | | |
| Power Spectral Density | 0.76dB | | |
| Conducted Spurious Emission | 1.24dB | | |
| Radiated spurious emissions (above 1GHz) | 1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB | | |
| Radiated emissions (Below 30MHz) | 3.53dB | | |
| Radiated spurious emissions (30MHz~1GHz) | Horizontal: 3.92dB; Vertical: 4.52dB | | |

level using a coverage factor of k=2.

1.7. Test Summary

| Test Items | Test Modes | Status |
|---|------------------|------------|
| Antenna requirement | tek nodek Anbo | P Am |
| Conducted Emission at AC power line | Mode1,2 | P |
| Occupied Bandwidth | Mode1,2 | Anbor P |
| Maximum Conducted Output Power | Mode1,2 | Anbor P |
| Power Spectral Density | Mode1,2 | P |
| Emissions in non-restricted frequency bands | Mode1,2 | P Anb |
| Band edge emissions (Radiated) | Mode1,2 | P P |
| Emissions in frequency bands (below 1GHz) | Mode1,2 | Anbore P |
| Emissions in frequency bands (above 1GHz) | Mode1,2 | Ante |
| Note: P: Pass | Anbor Ar Anborek | Anbote |

Anbot

N: N/A, not applicable

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Anbc



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1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited. 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
 - 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
 - 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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1.10. Test Equipment List

| ~00 | | NOTE AND | | | | |
|-----------|--|------------------|-----------|------------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| × 1 | L.I.S.N. Artificial Mains Network | Rohde & Schwarz | ENV216 | 100055 | 2024-01-18 | 2025-01-17 |
| otek 2 | Three Phase V- type Artificial Power Network | CYBERTEK | EM5040DT | E215040D T001 | 2024-01-17 | 2025-01-16 |
| 3 of | Software Name EZ-EMC | Farad Technology | ANB-03A | N/A | Avootek | Anboth |
| 4 | EMI Test Receiver | Rohde & Schwarz | ESPI3 | 100926 | 2023-10-12 | 2024-10-11 |
| | when work | Put | Not No | | where the | en bree |

| Maximum Conducted Output Power | 1 |
|---|---|
| Power Spectral Density | |
| Emissions in non-restricted frequency bands | |
| Occupied Bandwidth | |

| Occu | pied Bandwidth | anbi | Hay. | bor | P.I. | -oter |
|------------|---|-----------------|----------------|-----------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| Ant Ant | Constant Temperature Humidity Chamber | ZHONGJIAN | ZJ- KHWS80B | ek N/Annbol | 2023-10-16 | 2024-10-15 |
| 2 🖋 | DC Power Supply | IVYTECH | IV3605 | 1804D360 510 | 2023-10-20 | 2024-10-19 |
| 3 | Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 101792 | 2024-05-06 | 2025-05-05 |
| An4ote | MXA Spectrum Analysis | KEYSIGHT | N9020A | MY505318 23 | 2024-02-22 | 2025-02-21 |
| 5.00 | Oscilloscope | Tektronix | MDO3012 | C020298 | 2023-10-12 | 2024-10-11 |
| 6 🖻 | MXG RF Vector Signal Generator | Agilent | N5182A | MY474206 47 | 2024-02-04 | 2025-02-03 |

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| | | Anbotan | Ano | Anbotek | Anbo | |
|-------------------------------|---|--|--|---|--|------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date | |
| EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | 2024-01-23 | 2025-01-22 | |
| EMI Preamplifier | SKET Electronic | LNPA- 0118G-45 | SKET-PA- 002 | 2024-01-17 | 2025-01-16 | |
| Double Ridged Horn Antenna | | | | 02555 | 2022-10-16 | 2025-10-15 |
| EMI Test Software EZ-EMC | | N/A | N/A | And | Anbotek | |
| Horn Antenna | A-INFO | LB-180400- KF | J21106062 8 | 2023-10-12 | 2024-10-11 | |
| Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 101792 | 2024-05-06 | 2025-05-05 | |
| Amplifier | Talent Microwave | TLLA18G40 G-50-30 | 23022802 | 2024-05-07 | 2025-05-06 | |
| | sions in frequency ba Equipment EMI Test Receiver EMI Preamplifier Double Ridged Horn Antenna EMI Test Software EZ-EMC Horn Antenna Spectrum Analyzer | EMI Test ReceiverRohde & SchwarzEMI PreamplifierSKET ElectronicDouble Ridged Horn AntennaSCHWARZBECKEMI Test Software EZ-EMCSHURPLEHorn AntennaA-INFOSpectrum AnalyzerRohde & Schwarz | sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.EMI Test ReceiverRohde & SchwarzESR26EMI PreamplifierSKET ElectronicLNPA- 0118G-45Double Ridged Horn AntennaSCHWARZBECKBBHA 9120DEMI Test Software EZ-EMCSHURPLEN/AHorn AntennaA-INFOLB-180400- KFSpectrum AnalyzerRohde & SchwarzFSV40-NAmplifierTalent MicrowaveTLLA18G40 | sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.Serial No.EMI Test ReceiverRohde & SchwarzESR26101481EMI PreamplifierSKET ElectronicLNPA- 0118G-45SKET-PA- 002Double Ridged Horn AntennaSCHWARZBECKBBHA 9120D02555EMI Test Software EZ-EMCSHURPLEN/AN/AHorn AntennaA-INFOLB-180400- KF101792Spectrum AnalyzerRohde & SchwarzFSV40-N101792 | sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.Serial No.Last Cal.EMI Test ReceiverRohde & SchwarzESR261014812024-01-23EMI PreamplifierSKET ElectronicLNPA- 0118G-45SKET-PA- 0022024-01-17Double Ridged Horn AntennaSCHWARZBECKBBHA 9120D025552022-10-16EMI Test Software EZ-EMCSHURPLEN/AN/A/Horn AntennaA-INFOLB-180400- KFJ21106062 | |

Emissions in frequency bands (below 1GHz)

| - 100 | biolite in inequelity be | | | | | |
|--------|-----------------------------|-----------------|---------------|------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | 2024-01-23 | 2025-01-22 |
| 2 | Pre-amplifier | SONOMA | 310N | 186860 | 2024-01-17 | 2025-01-16 |
| 3 | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | 345 | 2022-10-23 | 2025-10-22 |
| Antote | Loop Antenna (9K- 30M) | Schwarzbeck | FMZB1519 B | 00053 | 2023-10-12 | 2024-10-11 |
| 5.nb | EMI Test Software EZ-EMC | SHURPLE | N/A N/A | N/Ambot | ek Anbo | k Anbotek |

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2. Antenna requirement

| | | Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to |
|---|-------------------|--|
| | | ensure that no antenna other than that furnished by the responsible party |
| | Test Requirement: | shall be used with the device. The use of a permanently attached antenna or |
| | Ar otek Anbot | of an antenna that uses a unique coupling to the intentional radiator shall be |
| 8 | Anbo K | considered sufficient to comply with the provisions of this section. |

2.1. Conclusion

The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is 2.32dBi . It complies with the standard requirement.

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3. Conducted Emission at AC power line

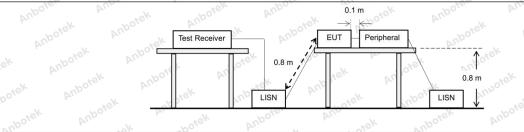
| Test Requirement: | Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the r back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN). | that is designed to be con adio frequency voltage that ny frequency or frequencie of exceed the limits in the fo | nected to the at is conducted s, within the ollowing table, as |
|--------------------|---|---|---|
| botek Anbort | Frequency of emission (MHz) | Conducted limit (dBµV) | A. sotek |
| All boten | Anbo k hotek Anboic | Quasi-peak | Average |
| Anbor An | 0.15-0.5 | 66 to 56* | 56 to 46* |
| Test Limit: | 0.5-5 tek prote And | 56 botek M | 46 |
| | 5-30 | 60 | 50 ten And |
| | *Decreases with the logarithm of t | the frequency. | An hotek Anbr |
| Test Method: | ANSI C63.10-2020 section 6.2 | abotek Anbote. | And |
| Procedure: | Refer to ANSI C63.10-2020 section line conducted emissions from un | | |
| 3.1. EUT Operation | Anbotek Anbone And | stek Anbotek Anbo | otek Anbotek |

3.1. EUT Operation

Operating Environment:

| Operating Env | vironment: | | | | | | |
|---------------|------------|--------|----------|-----|---------|---------|--------------|
| Test mode: | 1M) | to the | otek Ant | | | Anbore. | ng mode (BLE |
| abotek Anbo | 2M) | botek | Anbore | An- | Anbotek | Anbo | Anbotek |

3.2. Test Setup



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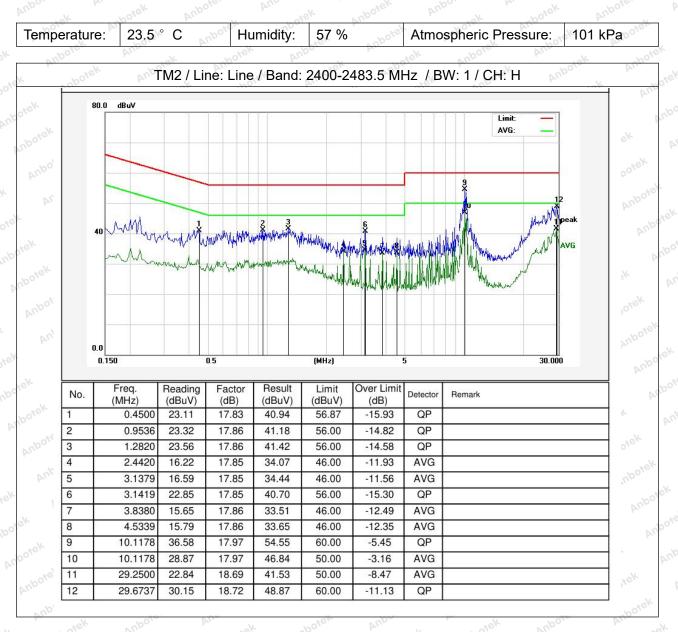
Address:1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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3.3. Test Data

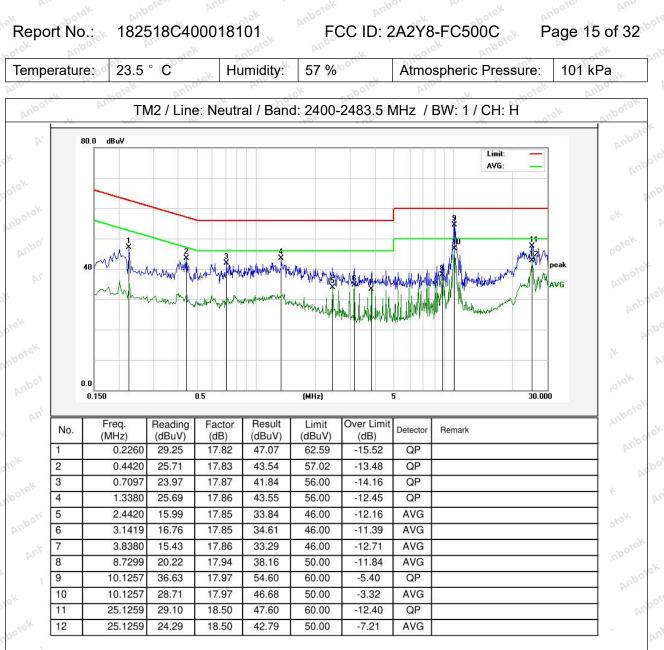


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Note:Only record the worst data in the report.

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4. Occupied Bandwidth

| Test Requirement: | 47 CFR 15.247(a)(2) |
|---|--|
| Test Limit: | Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz. |
| Test Method: | ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek biek Anbotek Anbote nbotek Anbotek | 11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one |
| Procedure: | at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value. |
| tek Anboten Anb hootek Anbotek A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW \ge 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \ge 6 dB. |

4.1. EUT Operation

| Operating Envir | onment: Anbore | Ann | | | | | |
|-----------------|--|---------|---------|--------|------|----|--|
| Test mode: | 1: TX mode(BL 1M) 2: TX mode(BL 2M) | otek an | pote An | abotek | Anbo | .x | |

4.2. Test Setup

| | EUT | Spectrum Ar | alyzer knootek | Anbotek |
|----------------------|---------------|--------------|-----------------------|--------------|
| 4.3. Test Data | Anbotek Anbot | otek Anbotek | Anbotek Anbo | otek Anbotek |
| Temperature: 25.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |

Please Refer to Appendix for Details.

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5. Maximum Conducted Output Power

| Test Requirement: | 47 CFR 15.247(b)(3) |
|---|--|
| Test Limit: Anborek Anborek Test Limit: Anborek Anborek Anborek Anborek Anborek | Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Test Method: | ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power |

5.1. EUT Operation

| Operating Envir | onment: | abotek | Anbo | | hotek | Anbore | | N9. | 000 |
|-----------------|----------------|-----------|------------|----------|-----------|-------------|------------|---------|-----|
| ek nbotek | 1: TX mode(BLE | E 1M): Ke | ep the EUT | ˈworks i | in contir | nuously tra | ansmitting | mode (E | 3LE |
| Test mode: | 1M) 1001 | | | | | | | | |
| Test mode. | 2: TX mode(BLE | E 2M): Ke | ep the EUT | works i | in contir | nuously tra | ansmitting | mode (E | 3LE |
| al de | 2M) | | | | | | | | |

Ant

5.2. Test Setup

| EUT | Spectrum Analyzer |
|-----|-------------------|
| | |

5.3. Test Data

| Temperature: | 25.3 °C | And | lumidity: | 48 % | Atmospheric Pressure | e: 101 kPa |
|--------------|---------|-----|-----------|---------|----------------------|------------|
| 000 | 10. | 200 | h. | N. John | No. VUL | Let 19 |

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6. Power Spectral Density

| Test Requirement: | 47 CFR 15.247(e) |
|-------------------|---|
| Test Limit: | Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
| Test Method: | ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission |

6.1. EUT Operation

| Operating Envir | ronment: | Anbote | Ann | Yex. | obotek | Anbo | ~K. | hotek |
|-----------------|-----------------------|--------------|----------|---------|--------------|----------|-----------|--------|
| Test mode: | 1: TX mode(BLE 1M) | Du. | ek. | | Anbe | | otek | Anbor |
| Anbouce. | 2: TX mode(BLE 2M) | 2M): Keep tl | he EUT w | orks in | continuously | transmit | tting mod | e (BLE |

6.2. Test Setup

| | | EUT | | Spectrum An | alyzer | |
|-----------|---------|-----|--------|-------------|----------|--|
| 10- wotek | Anbotek | Ann | abotek | Anbo. | A" botek | |

6.3. Test Data

| Temperature: | 25.3 °C | Humidity: | 48 % | Atmosph | eric Pressure: | 101 kPa | Þ., |
|--------------|---------|-----------|------|---------|----------------|---------|-----|
| | | | | | | | |

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Anbotek **Product Safety**

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7. Emissions in non-restricted frequency bands

| Test Requirement: | 47 CFR 15.247(d), 15.209, 15.205 |
|---|--|
| Test Limit: Anborek Anborek Diek Diek Anborek Anborek Anborek Anborek Anborek | Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Method: | ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3 |

7.1. EUT Operation

| Operating Envir | onment: | | | | | | |
|-----------------|-----------------------|------------|---------------|------------|-------------|--------------|-----------|
| Test mode: | 1: TX mode(BLE 1M) | : 1M): Kee | ep the EUT | works in c | ontinuously | transmitting | mode (BLE |
| | 2: TX mode(BLE 2M) | : 2M): Kee | ep the EUT | works in c | ontinuously | transmitting | mode (BLE |
| 7.2. Test Set | K hotek | Anbe | *6K 76. VU | abotek | Anbotek | Anbo | Anbotek |

7.2. Test Setup

| | EUT | | Spectru | um Analyzer | | | |
|-------|-----|--|---------|-------------|--|----|--|
| nbor- | b2 | | boter | AUD- | | τ. | |

7.3. Test Data

| Temperature: | 25.3 °C | ANDU | Humidity: | 48 % M ^{bon} | Atmospheric Pressure | : 101 kPa |
|--------------|---------|------|-----------|-----------------------|----------------------|-----------|
| OUD | 10. | 200. | 12. | N | ale. NUL | sk sbo |

Please Refer to Appendix for Details.

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8. Band edge emissions (Radiated)

| Test Requirement: | restricted bands, as defined | In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2 | oly with the |
|-------------------|---|---|--|
| Anbotek Anbo | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| | 0.009-0.490 | 2400/F(kHz) | 300 mb ^{ore} |
| nboten Anbo | 0.490-1.705 | 24000/F(kHz) | 30 |
| | 1.705-30.0 | 30° At Ack Mar | 30 |
| | 30-88 | 100 ** | 3 et noore |
| | 88-216 | 150 ** | 3 |
| | 216-960 | 200 ** | 3 boten And |
| Anbo. A. | Above 960 | 500 hotek Anbo | 3 det of |
| | frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a these three bands are base | ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permit § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the frec above 1000 MHz. Radiated emis ed on measurements employing | 470-806 MHz. ted under other pand edges. measurements juency bands 9– ssion limits in |
| | detector. | | Anbo |
| Test Method: | ANSI C63.10-2020 section KDB 558074 D01 15.247 M | | ek Anbotek |

8.1. EUT Operation

| Operating Envir | onment: | Anbotek | Anbo. | ak Ar | botek | Anbote | Ans | atek N |
|-----------------|-----------------------|-----------|---------|----------|----------|--------------|-----------|----------|
| botek Anboten | 1: TX mode(BLE | 1M): Keep | the EUT | works in | continuo | ously transr | mitting m | ode (BLE |
| Test mode: | 1M) 2: TX mode(BLE | 2M): Keep | the EUT | works in | continuo | ously transr | nitting m | ode (BLE |
| An | 2M) | -1 | otek | Anborc | Plu | Note Note | aboten | Anbe |

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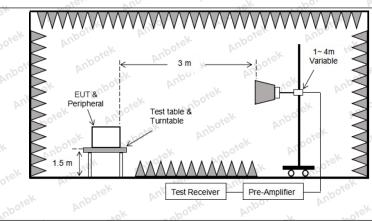
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8.2. Test Setup



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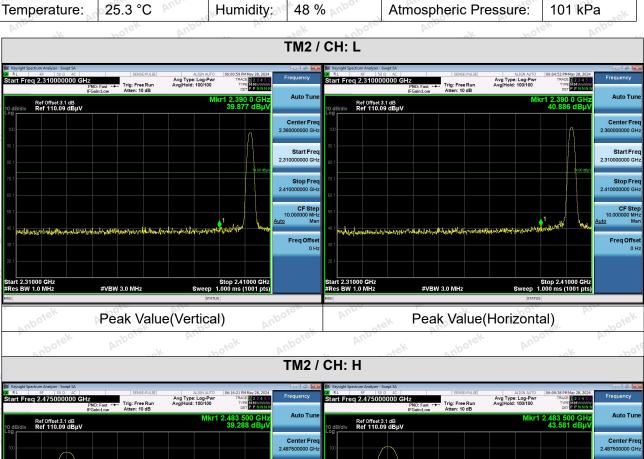
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8.3. Test Data



Ref Offset 31 BB Mikri 2.483 500 GHz Ref offset 31 BB Mikri 2.483 500 GHz 00 0

Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 2. When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.

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Peak Value(Vertical)

Hotline 400–003–0500 www.anbotek.com.cn

Peak Value(Horizontal)



Start Fre

Stop Fr 2.50000000 G

> CF Ste 2.500000 M

Freq Offs

2.47500000



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9. Emissions in frequency bands (below 1GHz)

| Test Requirement: | restricted bands, as defined | In addition, radiated emissions in § 15.205(a), must also comp ccified in § 15.209(a)(see § 15.2 | ly with the wo |
|--|--|--|--|
| k Anbotek Anbot | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| hotek Anbotek | 0.009-0.490 0.490-1.705 | 2400/F(kHz) 24000/F(kHz) | 300 30 |
| the stek subotek | 1.705-30.0 | 30 | 30 |
| Anbo. A. hotek | 30-88 | 100 ** | 3rek Anbore |
| Anbote. And | 88-216 | 150 ** | 3 |
| k abotek Anbor | 216-960 Above 960 | 200 ** 500 | 3 of And |
| Test Limit: oren Anboren Anbor | intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a these three bands are base detector. | e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing | e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in |
| Test Method: | ANSI C63.10-2020 section KDB 558074 D01 15.247 M | | Anbore Anborek |
| Procedure: | ANSI C63.10-2020 section | 6.6.4 Ant | port An hotek |

9.1. EUT Operation

| Operating Envir | onment: | Anbotek | Anbo | K | -botek | Anboter | And | atek | ~ |
|-----------------|-----------------------|------------|-----------|---------------|----------|-------------|-----------|-----------|---|
| hotek Anboten | 1: TX mode(BLE | E 1M): Kee | p the EUT | works ir | continue | ously trans | mitting m | node (BLE | |
| Test mode: | 1M) 2: TX mode(BLE | E 2M): Kee | p the EUT | o works ir | continue | ously trans | mitting m | node (BLE | |
| And | 2M) | -K | notek p | nboter | And | -tek | nbotek | Anbo. | N |

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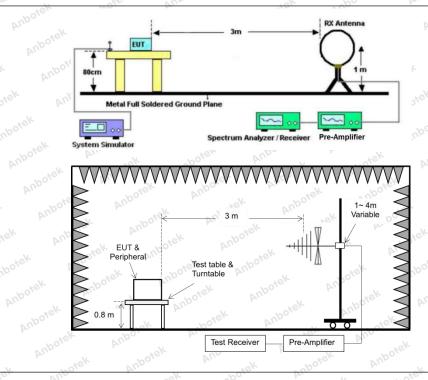
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9.2. Test Setup



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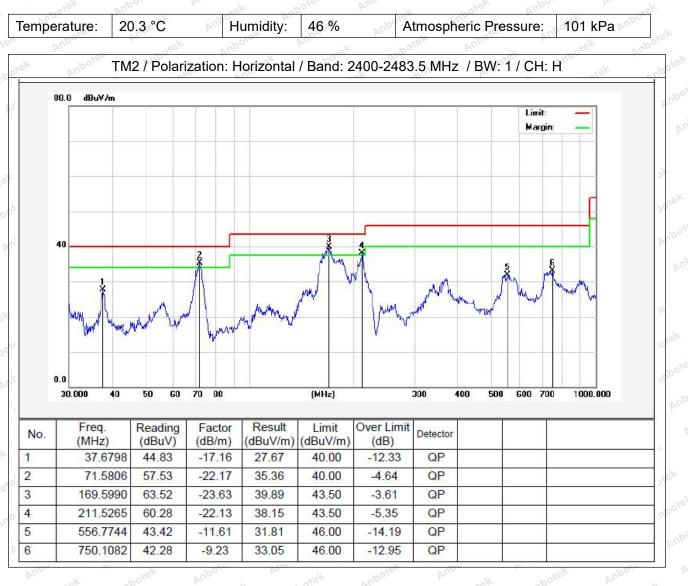




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9.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

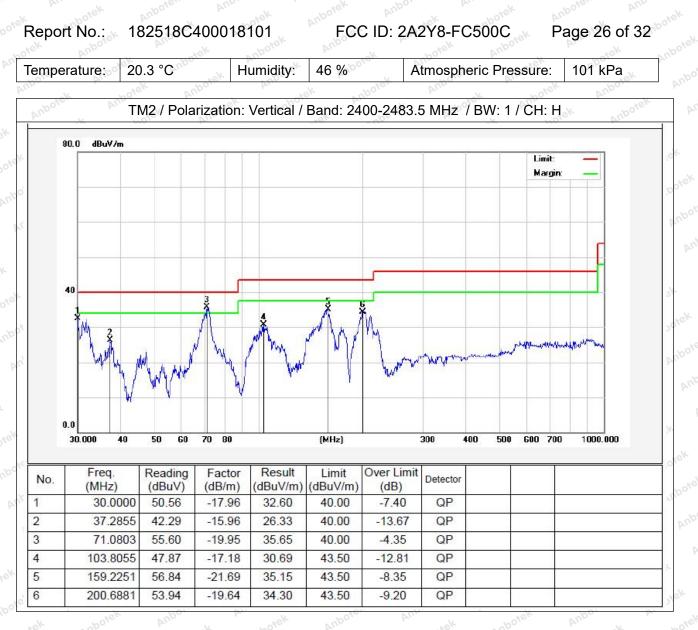


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Note:Only record the worst data in the report.

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10. Emissions in frequency bands (above 1GHz)

| Test Requirement: | in § 15.205(a), must also co | omply with the radiated emissior | |
|---|--|---|---|
| k Anbotek Anbot otek Anbotek Ant | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| Anbotek Anbotek | 0.490-1.705 | 2400/F(kHz) 24000/F(kHz) | 300 30 30 |
| Anbotek Anbotek | 0.009-0.490 2400/F(kHz) | 100 ** 150 ** | 3 |
| Test Limit: | Above 960 | 500 motel Antonia | 3 of the Arriver |
| Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a these three bands are base detector. | ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. a, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emise of on measurements employing | e located in the 470-806 MHz. ted under other pand edges. measurements uency bands 9– ssion limits in |
| Test Method: | | | ak Anbo. |
| Procedure: | ANSI C63.10-2020 section | 6.6.4 | por An |

10.1. EUT Operation

| Operating Envir | onment: | nbotek | Anbo | k bri | botek | Anboter | Ans | stek M |
|-----------------|-----------------------|------------|-----------|----------|------------|-------------|-----------|----------|
| hotek Anboten | 1: TX mode(BLE | : 1M): Kee | p the EUT | works in | i continuc | ously trans | mitting m | ode (BLE |
| Test mode: | 1M) 2: TX mode(BLE | : 2M): Kee | p the EUT | works in | continuo | ously trans | mitting m | ode (BLE |
| Ann | 2M) | - K | otek p | nbore. | Ann | dek. | nbotek | Anbo |

Shenzhen Anbotek Compliance Laboratory Limited

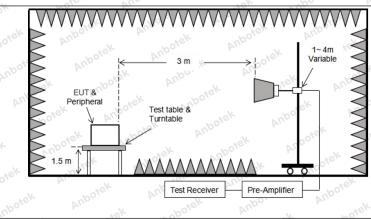
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10.2. Test Setup



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10.3. Test Data

| Temperature: | 25.3 °C | Humidity: | 48 % produce | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|--------------|-----------------------|---------|
| 000 | al you | N | | NOP . | K |

| | | - | TM2 / CH: L | | | |
|--------------------|-------------------|------------------|--------------------|------------------------|--------------------|--------------|
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4804.00 | 28.83 | 15.27 | 44.10 | 74.00 | -29.90 | Vertical |
| 7206.00 | 28.83 | 18.09 | 46.92 | 74.00 | -27.08 | Vertical |
| 9608.00 | 29.81 | 23.76 | 53.57 | 74.00 | -20.43 | Vertical |
| 12010.00 | Anbotet * Ar | lo- | botek Anb | 74.00 | otek Anbott | Vertical |
| 14412.00 | anbo*ek | Anbo | hotek p | 74.00 | stek ont | Vertical |
| 4804.00 | 28.46 | 15.27 | 43.73 | 74.00 | -30.27 | Horizontal |
| 7206.00 | 29.49 | 18.09 | 47.58 | 74.00 | -26.42 | Horizontal |
| 9608.00 | 28.27 | 23.76 | 52.03 | 74.00 | -21.97 | Horizontal |
| 12010.00 | otek * Aupo | ek no | rek Anbotet | 74.00 | r nbotek | Horizontal |
| 14412.00 | botek* An | pore. And | stek anbo | 74.00 | ak pote | Horizontal |

Average value:

| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
|--------------------|-------------------|------------------|--------------------|---|--------------------|--------------|
| 4804.00 | 17.10 | 15.27 | 32.37 | 54.00 | -21.63 | Vertical |
| 7206.00 | 17.88 | 18.09 | 35.97 | 54.00 | -18.03 | Vertical |
| 9608.00 | 19.28 | 23.76 | 43.04 | 54.00 | -10.96 | Vertical |
| 12010.00 | notet. | Anboten An | sek an | 54.00 M ⁰⁰ | -K N | Vertical ** |
| 14412.00 | Ant * tek | nbotek | Anbo, Ar | 54.00 | bote. And | Vertical |
| 4804.00 | 16.79 | 15.27 | 32.06 | 54.00 | -21.94 | Horizontal |
| 7206.00 | 18.52 | 18.09 | 36.61 | 54.00 | -17.39 | Horizontal |
| 9608.00 | 17.78 bote | 23.76 | 41.54 | 54.00 | -12.46 | Horizontal |
| 12010.00 | * * | otek Anbor | ak not | 54.00 | And | Horizontal |
| 14412.00 | nbo * | botek Ant | oto And | 54.00 | ek Anbo | Horizontal |
| | | (n. | 19. | 9 Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | M | No. Dur |

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, Contraction of the second se Hotline of 400-003-0500 www.anbotek.com.cn





Report No .:

14640.00

182518C400018101

| | | • | TM2 / CH: M | | | |
|--------------------|-------------------|------------------------|--------------------|------------------------|----------------------|--------------|
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4880.00 | 28.38 | 15.42 | 43.80 | 74.00 | -30.20 ¹⁰ | Vertical |
| 7320.00 | 28.80 | 18.02 | 46.82 | 74.00 | -27.18 | Vertical |
| 9760.00 | 29.31 | 23.80 | 53.11 | 74.00 | -20.89 | Vertical |
| 12200.00 | ek * abotek | Anbor | Annotek | 74.00 | And | Vertical |
| 14640.00 | * | rek Anbore | Ann | 74.00 | Anbor | Vertical |
| 4880.00 | 28.27 | 15.42 | 43.69 | 74.00 | -30.31 | Horizontal |
| 7320.00 | 29.36 | 18.02 | 47.38 | 74.00 | -26.62 | Horizontal |
| 9760.00 | 27.99 | 23.80 | 51.79 | 74.00 | -22.21 | Horizontal |
| 12200.00 | * tek | Anboten | Ann | 74.00 | mbor pr | Horizontal |
| 14640.00 | Art dek | nbotek | Anbo | 74.00 | Anboro | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4880.00 | 17.19 | 15.42 | 32.61 | 54.00 | -21.39 | Vertical |
| 7320.00 | 17.74 | 18.02 | 35.76 | 54.00 | -18.24 ^{AM} | Vertical |
| 9760.00 | 19.13 | 23.80 | 42.93 | 54.00 | -11.07 | Vertical |
| 12200.00 | K Anbore | Am | anboten | 54.00 | abotek | Vertical |
| 14640.00 | otek * Anbot | Ano | ek obotek | 54.00 | Allotek | Vertical |
| 4880.00 | 16.90 | o ¹⁰¹ 15.42 | 32.32 | 54.00 | -21.68 | Horizontal |
| 7320.00 | 18.87 | 18.02 | 36.89 | 54.00 | -17.11 | Horizontal |
| 9760.00 | 18.08 | 23.80 | 41.88 | 54.00 | one-12.12 pm | Horizontal |
| 12200.00 | Antorien | And | abotek | 54.00 | untek n | Horizontal |

FCC ID: 2A2Y8-FC500C

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com Hotline 400–003–0500 www.anbotek.com.cn

54.00



Horizontal

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botek **Product Safety**

| tek Anbore | Ann | anbotek | Anbo | hotek | Anbore At | atek. |
|--------------------|-------------------|------------------|---|------------------------|--------------------|--------------|
| | | - | TM2 / CH: H | | | |
| Peak value: | | | - | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarizatior |
| 4960.00 | 28.51 | 15.58 | 44.09 | 74.00 | -29.91 | Vertical |
| 7440.00 | 28.96 | 17.93 | 46.89 | 74.00 | -27.11 | Vertical |
| 9920.00 | 30.01 | 23.83 | 53.84 | 74.00 | -20.16 | Vertical |
| 12400.00 | * wotek | Anboten | And | 74.00 | Anbor | Vertical |
| 14880.00 | * And | ek nbotel | Anbor | 74.00 | Anbote | Vertical |
| 4960.00 | 28.41 M | 15.58 | 43.99 | 74.00 | -30.01 | Horizontal |
| 7440.00 | 29.57 | 17.93 | 47.50 | 74.00 | -26.50 | Horizontal |
| 9920.00 | 28.37 | 23.83 | 52.20 | 74.00 | -21.80 | Horizonta |
| 12400.00 | And * | abotek | Anbo, P | 74.00 | inboten Ant | Horizonta |
| 14880.00 | Ar*Dor | hotek | Anbore | 74.00 | anbotek | Horizonta |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarizatio |
| 4960.00 | 18.31 | 15.58 | 33.89 | 54.00 | -20.11 | Vertical |
| 7440.00 | 19.01 | 17.93 | 36.94 | 54.00 | -17.06 | Vertical |
| 9920.00 | 19.78 | 23.83 | 43.61 | 54.00 | -10.39 | Vertical |
| 12400.00 | K * nbotek | Anbo | hotek | 54.00 | And | Vertical |
| 14880.00 | * * | ak Auport | Am | 54.00 | Anbo | Vertical |
| 4960.00 | 18.08 | 15.58 not | 33.66 | 54.00 | -20.34 | Horizonta |
| 7440.00 | 19.67 | 17.93 | o ^{te^k 37.60 ph⁰⁰} | 54.00 | -16.40 | Horizonta |
| 9920.00 | 18.23 | 23.83 | 42.06 | 54.00 | -11.94 | Horizonta |
| 12400.00 | * tek | Anbore | And | 54.00 | 100 pr | Horizonta |

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Remark:

14880.00

- 1. Result =Reading + Factor
- "*" means the test results were attenuated more than 20dB below the permissible limits, so the 2. results don't record in the report.

54.00

Only the worst case is recorded in the report. 3.

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Hotline 400-003-0500 www.anbotek.com.cn



Horizontal



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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report ----

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