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FCC Test Report

Applicant : Shenzhen Minrray Industry Co.,Ltd

Room 101, 2-8F, 14-15F, Minrray Building, Ganli

Address : 6th Road No.5, Gankeng Community, Jihua

Street, Longgang District, Shenzhen, China

Product Name : Android-based Video Conferencing Terminal

Report Date : Apr. 19, 2024

Shenzhen Anbotek Con



ce Laboratory Limited









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| | T T | | | | -03 |





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TEST REPORT

Shenzhen Minrray Industry Co.,Ltd Applicant

Manufacturer Shenzhen Minrray Industry Co.,Ltd

Android-based Video Conferencing Terminal **Product Name**

UT680 Test Model No.

: N/A Reference Model No.

Minrray Trade Mark

Input: 12V== 2.0A Rating(s)

47 CFR Part 15E

ANSI C63.10-2020 Test Standard(s)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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: | Jun. 28, 2023 |
|---|-------------------------------|
| Anbote Ans Anbotek Anbo Kek | |
| Date of Test: | ın. 28, 2023 to Mar. 12, 2024 |
| Anbotek Anbotek Anbotek Anbotek | Tooley Japoner Aupo |
| | Ella Liang |
| Prepared By: | tek upotek bipaser vin |
| Anbotek Anbotek Anbotek Anbotek Anbotek | (Ella Liang) |
| Anbotek Anbotek Anbotek Anbote | Idward pan |
| k Anbotek Anbotek Anbotek Anbote | gol ward you |
| Approved & Authorized Signer: | Ar And And And |
| ak hotek Anbors An atak anbotek | (Edward Pan) |

lun 28 2023



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Revision History

| Report Version | Description | Issued Date |
|----------------------|-------------------------|-----------------------|
| Anbore ROO aborek An | Original Issue. | Apr. 19, 2024 |
| W Auporek Auporek | Anbotek Anbotek Anbotek | K Anbotek Anbotek Anb |
| ors Anbotek Anbotek | Anbotek Anbotek Anbot | tek Anbotek Anbotek |





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1. General Information

1.1. Client Information

| Applicant | : Shenzhen Minrray Industry Co.,Ltd |
|--------------|--|
| Address | Room 101, 2-8F, 14-15F, Minrray Building, Ganli 6th Road No.5, Ganke Community, Jihua Street, Longgang District, Shenzhen, China |
| Manufacturer | : Shenzhen Minrray Industry Co.,Ltd |
| Address | Room 101, 2-8F, 14-15F, Minrray Building, Ganli 6th Road No.5, Ganke Community, Jihua Street, Longgang District, Shenzhen, China |
| Factory | : Shenzhen Minrray Industry Co.,Ltd |
| Address | Room 101, 2-8F, 14-15F, Minrray Building, Ganli 6th Road No.5, Ganke Community, Jihua Street, Longgang District, Shenzhen, China |

1.2. Description of Device (EUT)

| 1.2. Description (| Tek hotek And K hotek Andor An |
|------------------------|---|
| Product Name | : Android-based Video Conferencing Terminal |
| Test Model No. | : NT680 Anborek Anborek Anborek Anborek Anborek |
| Reference Model No. | : N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek |
| Trade Mark | Minrray |
| Test Power Supply | : DC 12V from adapter input AC 120V/60Hz |
| Test Sample No. | : 1-2-1(Normal Sample), 1-2-2(Engineering Sample) |
| Adapter | Manufacturer: GME Technology (Shenzhen) Co., Ltd. Model No.: GME24A-120200FDS2 Input: 100-240V~ 50-60Hz 0.8A Output: 12.0V= 2.0A 24.0W |
| RF Specification | |
| Operation Frequency | 802.11a/n(HT20)/ac(HT20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 2A: 5260MHz to 5320MHz; U-NII Band 2C: 5500MHz to 5700MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(HT40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 2A: 5270MHz to 5310MHz; U-NII Band 2C: 5510MHz to 5670MHz; U-NII Band 3: 5755MHz to 5795MHz; 802.11ac(HT80): U-NII Band 1: 5210MHz; U-NII Band 2A: 5290MHz; U-NII Band 2A: 5290MHz; U-NII Band 2C: 5530MHz to 5610MHz; |







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| 20, b., | | U-NII Band 3: 5775MHz |
|--------------------|---|--|
| | | Spotek Vupo, k. Notek Vupose Vu |
| | | 802.11a/n(HT20)/ac(HT20): U-NII Band 1: 4; |
| | | |
| | | U-NII Band 2A: 4; |
| | | U-NII Band 2C: 11; U-NII Band 3: 5; |
| | | arek and key about All |
| | | 802.11n(HT40)/ac(HT40): |
| | | 802.11n(HT40)/ac(HT40): U-NII Band 1: 2; U-NII Band 24: 2: |
| Number of Channel | | |
| | | LI NII Dand 20, F. |
| | | U-NII Band 3: 2; |
| | | 802.11ac(HT80): |
| | | 802.11ac(HT80): |
| | | U-NII Band 1: 1; |
| | | U-NII Band 2A: 1; |
| | | U-NII Band 2C: 2; |
| | | U-NII Band 3: 1 |
| | | 802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); |
| Modulation Type | : | 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); |
| | | 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); |
| Antenna Type | : | External Antenna |
| | | WiFi 5.2G: 4.11dBi WiFi 5.3G: 5.24dBi |
| Antenna Gain(Peak) | : | WIFI 5.3G. 5.24dbl |
| - () | | WiFi 5.6G: 5.81dBi |
| | | WiFi 5.8G: 4.81dBi |
| Device Type | | Outdoor AP |
| | | ⊠ Client |
| TPC Function | : | ☐ With TPC ⊠ Without TPC |
| DFS Type | | ⊠ Slave without radar detection ☐ Slave with radar detection |
| | • | Master Anboret Anboret Anboret |
| Remark: | K | Aupon Aurotek Aupotek Aupon |
| | | ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the |

User's Manual.





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1.3. Auxiliary Equipment Used During Test

| Title | Manufacturer | Model No. | Serial No. |
|---|-------------------------|---|---------------------|
| ROG Rapture Quad- band Gaming Router | ASUSTeK Computer Inc | GT-AXE16000 (FCC ID: MSQ-RTAX5D00 IC: 3568A-RTAX5D00) | RAIG5D2020695N L |

1.4. Operation channel list

Operation Band: U-NII Band 1

| Bandwidth: | 20MHz | Bandwidth: | 40MHz | Bandwidth: | 80MHz |
|------------|--------------------|------------|--------------------|-----------------|--------------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 36 stek | 5180 | atek 38 | 5190 | 42 | 75210 Andrews |
| 40 | 5200 | 46 | otek 5230 bott | k hotek | Anbotek And |
| 44 | 5220 | Aupo Tek | upotek / Aupot | Pur Potek | Aupolek t |
| 48 | 5240 | And otek | Anbotek Ani | oot / All shore | k Motor |

Operation Band: U-NII Band 2A

| Bandwidth: | 20MHz | Bandwidth: | 40MHz | Bandwidth: | 80MHz |
|------------------|--------------------|------------------|--------------------|--------------|--------------------|
| Channel Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| Anborek 52 Anbor | 5260 | Arri 54 | 5270 | 58 | 5290 |
| 56 An | 5280 | 62 | 5310 | hotek / Ando | tek Inbotek |
| 60 | 5300 | otek / Anbors | Purek | Anbore! Anb | otek / anbote |
| 64 | 5320 | inposek / Aupore | tek I potek | Aupores A | potek / Aup |



Hotline



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Operation Band: U-NII Band 2C

| Operation band. | O-IVII Dana 20 | | | | |
|-------------------|--------------------|------------------|--------------------|-----------------|--------------------|
| Bandwidth: | 20MHz | Bandwidth: | 40MHz | Bandwidth: | 80MHz |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 100 | 5500 | botek 102 Anbote | 5510 | 106 An | 5530 |
| 104 | 5520 | Anbote 110 Anbo | 5550 | 122 | 5610 |
| hotek 108 Anbotek | 5540 | 118 A | 5590 | sk Wpotek | Ando |
| abote 112 Anbo | 5560 | 126 | 5630 | ootek / Anboter | And I otek |
| 116 | 5580 | 134 | 5670 | abotek / Anbot | k And work |
| 120 | 5600 | otek / Anbotek | Aupor | Wholeh Wup | JAME 100 |
| 124 | 5620 | hotek / Anbot | A po | n nb dek | Anbore / Anb |
| 128 128 | 5640 | Ans hotely An | otek / Anbo | k hotek | Wipole V |
| 132 | 5660 | Arrabbiek | Anboren / Anbo | otek Inbotek | Anbore |
| 136 | 5680 NOOTE | A Shotek | Anboten Ant | notek / Anbote | A APOOTO |
| 140 | 5700 | lek / sporek | Aup Otes | rup Potekl Wup | otek /Anbore |

Operation Band: U-NII Band 3

| Bandwidth: | 20MHz | Bandwidth: | 40MHz | Bandwidth: | 80MHz |
|------------------|--------------------|--------------|--------------------|------------|--------------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 149 | 1001e 5745 Anbore | 151 | 5755 | 155 | 5775 oto |
| 153 | 5765 And | 159 | 5795 | Anbor Ar | potek / Anbote |
| 157 | 5785 | inpoter. Aug | tek Anbotek | Aupo, | abotek / Anbo |
| 161 nbox | 5805 | Anbore / And | hotek / Anbotek | Au)o | W. Opoldy M. |
| inbotek 165 Anbo | 5825 | Aupolo A | hotek/ Anbe | tek Vupo | Motek |



Hotline



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1.5. Description of Test Modes

| Pretest Modes | Descriptions |
|--|---|
| Anbotek Anbotek Anbotek Anbotek | Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. |
| otek Anbotek Anbotek Anbotek Anbotek Anbotek | Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |
| Anbotek TM3 Anbotek Anbotek | Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |
| TM4 | Keep the EUT works in normal operating mode and connect to companion device |

1.6. Measurement Uncertainty

| Parameter | Uncertainty |
|---|---|
| Conducted emissions (AMN 150kHz~30MHz) | ak 3.4dBortek Anbortek Anbortek |
| Conducted Output Power | 0.76dB And |
| Power Spectral Density | 0.76dB Anbotek Anbotek Anbo |
| Occupied Bandwidth | 925Hz Anborek Anborek M |
| Radiated spurious emissions (above 1GHz) | 1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB |
| Radiated emissions (Below 30MHz) | 3.53dB Anborek Anborek |
| Radiated spurious emissions (30MHz~1GHz) | Horizontal: 3.92dB; Vertical: 4.52dB |
| The measurement uncertainty and decision risk e | avaluated according to AB/MI RE-E-032 |

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.









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1.7. Test Summary

| Test Items | Test Modes | Status |
|--|-----------------|------------------|
| Conducted Emission at AC power line | Mode1,2,3 | And Porek |
| Duty Cycle | Mode1,2,3 | P |
| Maximum conducted output power | Mode1,2,3 | P P |
| Power spectral density | Mode1,2,3 | P |
| Emission bandwidth and occupied bandwidth | Mode1,2,3 | upo. Pk |
| Channel Move Time, Channel Closing Transmission Time | Mode4 | Anb P rek |
| DFS Detection Thresholds | Mode4 | P |
| Band edge emissions (Radiated) | Mode1,2,3 | P _{OUR} |
| Band edge emissions (Conducted) | Mode1,2,3 | P An |
| Undesirable emission limits (below 1GHz) | Mode1,2,3 | upore P |
| Undesirable emission limits (above 1GHz) | Mode1,2,3 | Anboy P |
| Note: P: Pass N: N/A not applicable | Anbotek Anbotek | Anbore |





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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

- 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.
- 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

| Cond | ucted Emission at A | C power line | Aupr | k spoiel | Anbore | All |
|--------|--|------------------|-----------|------------------|--------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | L.I.S.N. Artificial Mains Network | Rohde & Schwarz | ENV216 | 100055 | 2023-10-12 | 2024-10-11 |
| 2 2 | Three Phase V- type Artificial Power Network | CYBERTEK | EM5040DT | E215040D T001 | 2023-07-05 | 2024-07-04 |
| 3 | EMI Test Receiver | Rohde & Schwarz | ESCI | 100627 | 2023-10-12 | 2024-10-11 |
| 4 | Software Name EZ-EMC | Farad Technology | ANB-03A | N/A | rek /Anbotek | Anborotek |

Duty Cycle

Maximum conducted output power

Power spectral density

Emission bandwidth and occupied bandwidth

Band edge emissions (Conducted)

Channel Move Time, Channel Closing Transmission Time

DFS Detection Thresholds

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
|------------------|---|-----------------|----------------|-----------------|------------|--------------|
| e ^X 1 | Constant Temperature Humidity Chamber | ZHONGJIAN | ZJ- KHWS80B | N/A | 2023-10-16 | 2024-10-15 |
| 2 | DC Power Supply | IVYTECH | IV3605 | 1804D360 510 | 2023-10-20 | 2024-10-19 |
| Anboard 3 | Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 101792 | 2023-05-26 | 2024-05-25 |
| 4 | MXA Spectrum Analysis | KEYSIGHT | N9020A | MY505318 23 | 2024-02-22 | 2025-02-21 |
| × 5 | Oscilloscope | Tektronix | MDO3012 | C020298 | 2023-10-12 | 2024-10-11 |
| 6 | MXG RF Vector Signal Generator | Agilent | N5182A | MY474206 47 | 2023-02-23 | 2024-10-22 |





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| | edge emissions (Ra | | Anborok | Auporg | Aurotek | Aupotek Ar |
|-------------------|-------------------------------|------------------|----------------------|-----------------|------------|--------------|
| Unde | sirable emission limi | ts (above 1GHz) | borek | Aupo. | h. Hek | Cupole. |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 00 | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | 2023-10-12 | 2024-10-11 |
| 2 | EMI Preamplifier | SKET Electronic | LNPA- 0118G-45 | SKET-PA- 002 | 2023-10-12 | 2024-10-11 |
| 3 | Double Ridged Horn Antenna | SCHWARZBECK | BBHA 9120D | 02555 | 2022-10-16 | 2025-10-15 |
| 7 ¹⁰ 4 | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | Andotek | Aupolok |
| 5 | Horn Antenna | A-INFO | LB-180400- KF | J21106062 8 | 2023-10-12 | 2024-10-11 |
| 6 | Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 101792 | 2023-05-26 | 2024-05-25 |
| e ^k 7 | Amplifier | Talent Microwave | TLLA18G40 G-50-30 | 23022802 | 2023-05-25 | 2024-05-24 |

| Unde | sirable emission limit | ts (below 1GHz) | | | | |
|-------|-----------------------------|-----------------|---------------|------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | 2023-10-12 | 2024-10-11 |
| 2 | Pre-amplifier | SONOMA | 310N | 186860 | 2023-10-12 | 2024-10-11 |
| 34 | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | 345 | 2022-10-23 | 2025-10-22 |
| 4ntel | Loop Antenna (9K- 30M) | Schwarzbeck | FMZB1519 B | 00053 | 2023-10-12 | 2024-10-11 |
| 5,00 | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | y Aupon | k Anbotek |





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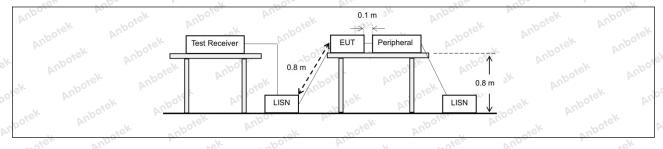
2. Conducted Emission at AC power line

| Test Requirement: | 47 CFR Part 15.207(a) | ek hotek Ant | Jose Aug Otek |
|-------------------|--------------------------------------|-----------------------|---------------|
| Yun Volek | Frequency of emission (MHz) | Conducted limit (dBµV |) bojek Anbo |
| | And Andrew And | Quasi-peak | Average |
| K- botek Anbo | 0.15-0.5 | 66 to 56* | 56 to 46* |
| Test Limit: | 0.5-5 And | 56 | 46 20010 |
| | 5-30 And And | 60 Potek Wupo, | 50 |
| otek Anbotek | *Decreases with the logarithm of the | ne frequency. | V Vupo. |
| Test Method: | ANSI C63.10-2020 section 6.2 | Aug. | otek Anbote |

2.1. EUT Operation

| Operating Envi | ronment: |
|-------------------------------|--|
| otek Anbotek Anbotek Anbot | 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. 2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data |
| Test mode: | rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |

2.2. Test Setup



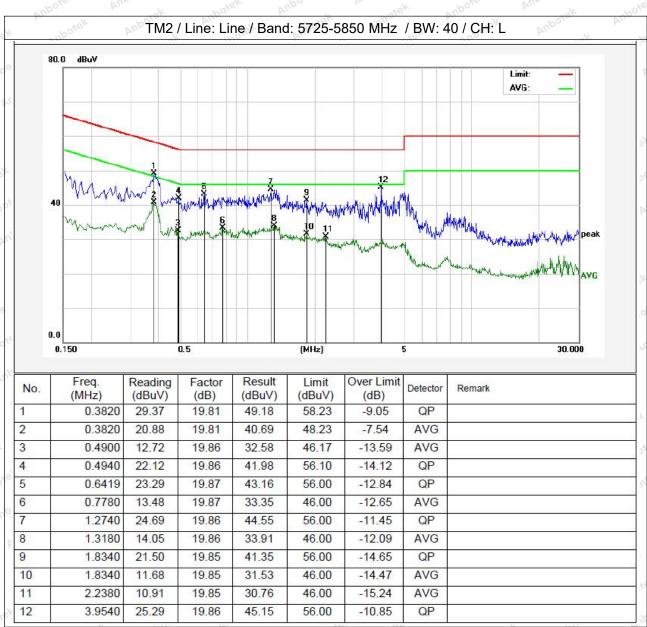




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2.3. Test Data

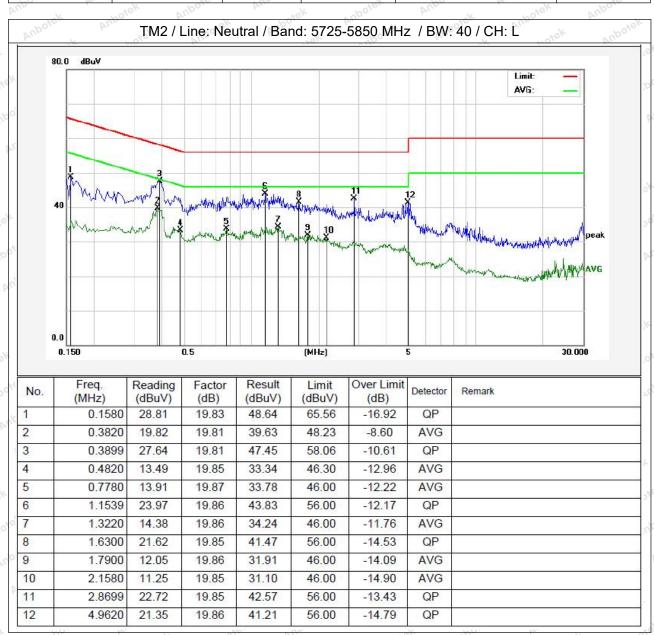
| Temperature: 22.9 °C | Humidity: | 58 % | Atmospheric Pressure: 101 kPa |
|----------------------|-----------|------|-------------------------------|
|----------------------|-----------|------|-------------------------------|





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Temperature: 22.9 °C Humidity: 58 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data (802.11n(HT40)) in the report.







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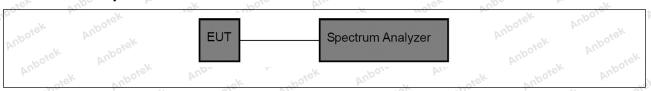
3. Duty Cycle

| Test Requirement: | All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation. |
|-------------------|--|
| Test Limit: | No limits, only for report use. |
| Test Method: | ANSI C63.10-2020 section 12.2 (b) |
| Anbotek Anbotek | i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW >= EBW if possible; otherwise, set RBW to the largest available value. |
| Procedure: | iii) Set VBW >= RBW. iv) Set detector = peak. |
| otek Vupotek Vup | v) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100. |

3.1. EUT Operation

| Operating Envi | ronment: Anbor All ek pore Anbor Anbore |
|----------------|---|
| | 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. 2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data |
| Test mode: | rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |
| | 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data |
| | rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |

3.2. Test Setup



3.3. Test Data

| Temperature: | 25.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|--------------|---------|-----------------------------|---------------|
| Tomporatare. | | i idiiidity. | 12/11/2 | / tarriogpriorio i roccuro. | PITO I III GI |







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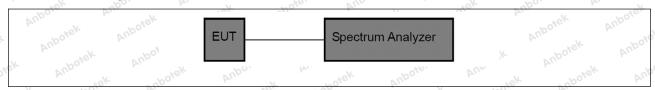
4. Maximum conducted output power

| Test Requirement: | 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) |
|---|---|
| Anbotek Anbotek Anbotek Anbotek Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. |
| Test Method: | ANSI C63.10-2020, section 12.4 |
| Procedure: | Refer to ANSI C63.10-2020 section 12.4 |

4.1. EUT Operation

| Operating Envi | ronment: Andrew Andrew Andrew Andrew |
|----------------|--|
| Anbotek Anbote | 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. 2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data |
| Test mode: | rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |
| ek Anbotek | 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the |
| poten Ando | report. botek Anbotek Anbotek |

4.2. Test Setup



4.3. Test Data

| Temperature: | 25.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa | |
|--------------|---------|-----------|------|-----------------------|---------|--|
| | | | | | | |







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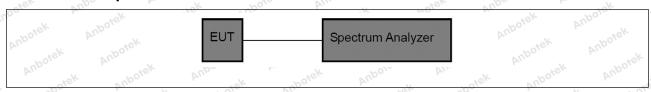
5. Power spectral density

| 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) |
|---|
| For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. |
| For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. |
| ANSI C63.10-2020, section 12.6 |
| Refer to ANSI C63.10-2020, section 12.6 |
| |

5.1. EUT Operation

| Operating Env | 1 2k 2/0, k, 1 1/2, kt, 1/2, kk 2/0, |
|---------------|--|
| | 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. 2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data |
| Test mode: | rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |
| | 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |

5.2. Test Setup



5.3. Test Data

| Temperature: | 25.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-------------|--------|-----------------------|---------------|
| 1000 | | 11011110011 | 12/1/2 | 7 111112 | W. C . III W. |







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6. Emission bandwidth and occupied bandwidth

| Test Requirement: | U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. |
|-------------------|---|
| Test Limit: | U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. |
| Test Method: | ANSI C63.10-2020, section 6.9 & 12.5 |
| Anto | Emission bandwidth: |
| | a) Set RBW = approximately 1% of the emission bandwidth. |
| | b) Set the VBW > RBW. |
| botek Anbo | c) Detector = peak. |
| | d) Trace mode = max hold. |
| | e) Measure the maximum width of the emission that is 26 dB down from the |
| | peak of the emission. |
| | Compare this with the RBW setting of the instrument. Readjust RBW and |
| | repeat measurement |
| orek Ant | as needed until the RBW/EBW ratio is approximately 1%. |
| Ann | hotek Aupo, W. Jek Upoter Aug. |
| | Occupied bandwidth: |
| | a) The instrument center frequency is set to the nominal EUT channel center |
| | frequency. The |
| VI., Upolek | frequency span for the spectrum analyzer shall be between 1.5 times and |
| | 5.0 times the OBW. |
| | b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to |
| | 5% of the OBW, |
| | and VBW shall be approximately three times the RBW, unless otherwise |
| k kotek | specified by the |
| | applicable requirement. |
| | c) Set the reference level of the instrument as required, keeping the signal |
| Procedure: | from exceeding the |
| aboren Anbe | maximum input mixer level for linear operation. In general, the peak of the |
| | spectral envelope |
| | shall be more than [10 log (OBW/RBW)] below the reference level. Specific |
| | guidance is given |
| | in 4.1.5.2. |
| | d) Step a) through step c) might require iteration to adjust within the |
| | specified range. |
| | e) Video averaging is not permitted. Where practical, a sample detection an |
| | single sweep mode |
| | shall be used. Otherwise, peak detection and max hold mode (until the trace |
| | stabilizes) shall be used. |
| Vi. Jek "Upo | l diseu. If) Use the 99% power bandwidth function of the instrument (if available) and |
| | report the measured |
| | bandwidth. |
| | g) If the instrument does not have a 99% power bandwidth function, then the |
| | trace data points are |
| Up. Wolek | recovered and directly summed in linear power terms. The recovered |
| | amplitude data points, |
| | beginning at the lowest frequency, are placed in a running sum until 0.5% of |
| | the total is reached; |
| | that frequency is recorded as the lower frequency. The process is repeated |
| | until 99.5% of the |







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> total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

6.1. EUT Operation

Operating Environment:

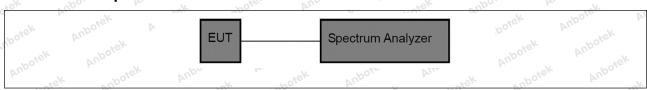
1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

6.2. Test Setup

Test mode:



6.3. Test Data

| | Temperature: | 25.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--|--------------|---------|-----------|------|-----------------------|---------|
|--|--------------|---------|-----------|------|-----------------------|---------|





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7. Channel Move Time, Channel Closing Transmission Time

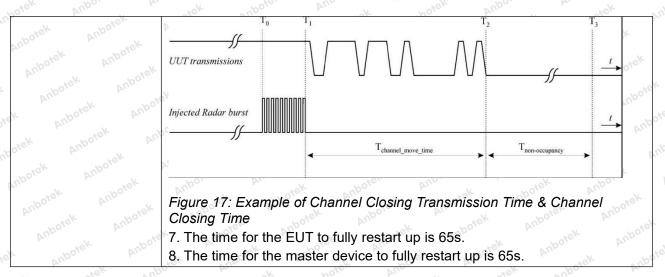
| Test Requirement: | 47 CFR Part 15.407(h)(2)(iii) |
|-------------------|---|
| Anbotek Anbotek | Channel Move Time: within 10 seconds Channel Closing Transmission Time: 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (The Channel Closing |
| To at Limite wolf | Transmission Time is comprised of 200 milliseconds starting at the beginning |
| Test Limit: | of the Channel Move Time plus any additional intermittent control signals |
| ok botek | required to facilitate a Channel move (an aggregate of 60 milliseconds) |
| pole Aug | during the remainder of the 10 second period. The aggregate duration of |
| boick Anbor | control signals will not count quiet periods in between transmissions.) |
| Test Method: | KDB 905462 D02, Clause 7.8.3 |
| Aupo ok Pole | The steps below define the procedure to determine the above-mentioned |
| Unpoter, Vunn | parameters when a radar Burst with a level equal to the DFS Detection |
| h. whek who | Threshold + 1dB is generated on the Operating Channel of the U-NII device |
| ek Yupo, K | (In- Service Monitoring). |
| tek aboten | 1. One frequency will be chosen from the Operating Channels of the UUT |
| bo, bi. | within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, |
| sporek Aupo. | the test frequency must contain control signals. This can be verified by |
| VII. "ek "potek | disabling channel loading and monitoring the spectrum analyzer. If no control |
| Anbore An- | signals are detected, another frequency must be selected within the |
| hotek Anbor | emission bandwidth where control signals are detected. |
| And ak he | 2. In case the UUT is a U-NII device operating as a <i>Client Device</i> (with or |
| k upoter And | without DFS), a U-NII device operating as a <i>Master Device</i> will be used to |
| k. ciek | allow the UUT (Client device) to Associate with the Master Device. In case |
| otek Anbe | the UUT is a <i>Master Device</i> , a U-NII device operating as a <i>Client Device</i> will |
| tek anboten | be used and it is assumed that the Client will Associate with the UUT |
| Anbo. A. siek | (Master). In both cases for conducted tests, the <i>Radar Waveform</i> generator |
| abotek Anbo | will be connected to the <i>Master Device</i> . For radiated tests, the emissions of |
| All. | the Radar Waveform generator will be directed towards the Master Device. If |
| Droodure | the <i>Master Device</i> has antenna gain, the main beam of the antenna will be |
| Procedure: | directed toward the radar emitter. Vertical polarization is used for testing. |
| Yu. | 3. Stream the channel loading test file from the <i>Master Device</i> to the <i>Client</i> |
| otek Anbore Ar | Device on the test Channel for the entire period of the test. |
| -K mojek | 4. At time T0 the <i>Radar Waveform</i> generator sends a <i>Burst</i> of pulses for one of the Radar Type 0 in Table 5 at levels defined in Table 3 , on the Operating |
| upoter And | of the Radar Type 0 in Table 5 at levels defined in Table 3 , on the <i>Operating</i> |
| otek suboten | Channel. An additional 1 dB is added to the radar test signal to ensure it is at |
| Anbo M. Mek | or above the <i>DFS Detection Threshold</i> , accounting for equipment variations/errors. |
| abotek Anbo | 5. Observe the transmissions of the UUT at the end of the radar <i>Burst</i> on the |
| by. | Operating Channel for duration greater than 10 seconds. Measure and |
| Anbor Air | record the transmissions from the UUT during the observation time (Channel |
| ok botek An | Move Time). Measure and record the Channel Move Time and Channel |
| And And | Closing Transmission Time if radar detection occurs. Figure 17 illustrates |
| otek Anbore | Channel Closing Transmission Time. |
| up. K wiek | 6. When operating as a <i>Master Device</i> , monitor the UUT for more than 30 |
| aboter And | minutes following instant T2 to verify that the UUT does not resume any |
| by. Tek "poter | transmissions on this <i>Channel</i> . Perform this test once and record the |
| Aupo, Bi | measurement result. |
| potek Anbo. | 7. In case the UUT is a U-NII device operating as a <i>Client Device</i> with <i>In-</i> |
| | |







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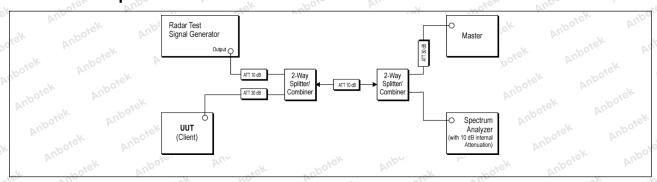


7.1. EUT Operation

Operating Environment:

4: Normal Operating: Keep the EUT works in normal operating mode and connect to companion device

7.2. Test Setup



7.3. Test Data

| Temperature: 25.3 °C | Temperature: | 25.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|------------------------|--------------|---------|-----------|------|-----------------------|---------|
|------------------------|--------------|---------|-----------|------|-----------------------|---------|





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8. DFS Detection Thresholds

| Test Requirement: | KDB 905462 D02, Clause 5.2 Table 3 | |
|-------------------|--|---|
| Anbotek Anbotek | Table 3: DFS Detection Thresholds for Master I with Radar Detection Table 3: DFS Detection Thresholds for Ma and Client Devices with Radar De | ster Devices |
| ek Anbotek An | Maximum Transmit Power EIRP ≥ 200 milliwatt | Value (See Notes 1, 2, and 3) -64 dBm |
| est Limit: | EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz EIRP < 200 milliwatt that do not meet the power spectral density | -62 dBm |
| | requirement Note 1: This is the level at the input of the receiver assuming a 0 dl Note 2: Throughout these test procedures an additional 1 dB has be test transmission waveforms to account for variations in measurement the test signal is at or above the detection threshold level to trigger Note3: EIRP is based on the highest antenna gain. For MIMO device 662911 D01. | een added to the amplitude of the ent equipment. This will ensure that a DFS response. |
| est Method: | KDB 905462 D02, Clause 7.4.1.1 | Anbo tek nbotek |
| | 1) A 50 ohm load is connected in place of the spectrum analyzer is connected to place of the 2) The interference Radar Detection Threshold had been taken into account the output power r 3) The following equipment setup was used to contain the contains the setup was used to contain the contains the contains the setup was used to contain the contains the | master Level is TH+ 0dBi +1dB that ange and antenna gain. calibrate the conducted rada |
| Procedure: | waveform. A vector signal generator was utilized level for radar type 0. During this process, there either the master or client device. The spectrum the zero spans (time domain) at the frequency of | e were no transmissions by n analyzer was switched to of the radar waveform |
| | generator. Peak detection was used. The spect bandwidth (RBW) and video bandwidth (VBW) spectrum analyzer had offset -1.0dB to compen 4) The vector signal generator amplitude was so | were set to 3 MHz. The sate RF cable loss 1.0dB. |
| | measured at the spectrum analyzer was TH + 0 the spectrum analyzer plots on short pulse rada Note: TH=-64 dBm or -62 dBm | dBi +1dB = -63dBm. Captur |

8.1. EUT Operation

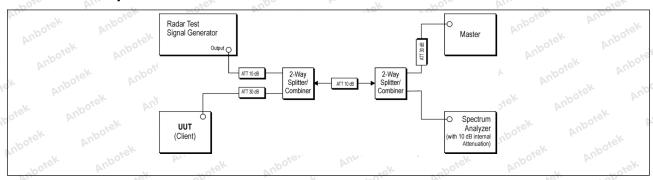
| Operating En | vironment: | | | | | | Ann |
|--------------|-------------|-----------|-------------|--------------|-----------------|--------------|-----------|
| Test mode: | 4: Normal C | perating: | Keep the EU | T works in r | normal operatin | g mode and c | onnect to |
| rest mode. | companion | device | | | | | , opore |





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8.2. Test Setup



8.3. Test Data

| e) | Temperature: | 25.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|----|--------------|---------|---------------|-------|-----------------------|----------|
| | | | Community : 1 | 10 70 | -0,u | 1 3000 0 |





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9. Band edge emissions (Radiated)

| - botek Anbotek | 47 CFR Part 15.407(b) | | Anbotek Anbo | Her Aupo |
|-------------------|---|-------------------------|---------------------|------------------|
| Test Requirement: | 47 CFR Part 15.407(b) | | | |
| Tupo, by | 47 CFR Part 15.407(b) | | Vupo, v | , solek Aupo |
| Anbotek Anbo | For transmitters operate | | | |
| k hotek Anl | of the 5.15-5.35 GHz b | and shall not exceed | d an e.i.r.p. of −2 | / dBm/MHz. |
| And | For transmitters operate | ting in the 5.25.5.35 | CHz band: All on | niccione outcido |
| otek Anbore | of the 5.15-5.35 GHz b | | | |
| ok hotek | MHz | MHz | MHz | GHz |
| Anbotek Anbotek | 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| hotek Anbor | ¹0.495-0.505 | 16.69475- | 608-614 | 5.35-5.46 |
| Vur Pote | 0.430-0.303 | 16.69525 | 000-014 | S.SS-S.40 |
| Anbore Ans | 2.1735-2.1905 | 16.80425- | 960-1240 | 7.25-7.75 |
| ak abotek Anb | 0 -2.17 00 pz. 1000 | 16.80475 | V hotek | Anbotti |
| Aur | 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| otek Anbore | 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| ok hotek | 4.20725-4.20775 | 73-74.6 | 1645.5- | 9.3-9.5 |
| Anbotek Anbotek | botek Anbo. | A. Otek | 1646.5 | ek botek |
| borek Anbore | 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| And ak hotel | 6.26775-6.26825 | 108-121.94 | 1718.8- | 13.25-13.4 |
| Anbore. And | ok sporek Ani | o. v. | 1722.2 | YUR CK |
| k hotek Anbe | 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| And | 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| otek Anbote A | 8.362-8.366 | 156.52475- 156.52525 | 2483.5-2500 | 17.7-21.4 |
| Test Limit: | 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| "ek abotek | 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| Anbor Arek | 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| abotek Anbo | 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| All sek anbo | 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) of the AT |
| Aupo, W. | 13.36-13.41 | iur Polek | Aupo. | b. Siek |
| tek abotek Ar | | | | |
| Dr. Diek | ¹ Until February 1, 1999 | 9, this restricted band | d shall be 0.490-0 | 0.510 MHz. |
| abotek Anbo | a kotek Anbore | | | |
| i. sek aboten | ² Above 38.6 | | | |
| Anbo, Air | - Anboie. And | rek spotek | Aupo. | otek Anboti |
| abotek Anbo | The field strength of er | | | |
| All tek anbot | not exceed the limits s | | | |
| Aupo, W. | 1000 MHz, compliance | | | |
| ek abotek An | using measurement in detector. Above 1000 N | | | |
| Air | 15.209shall be demons | | | |
| potek Anbo, | emissions. The provisi | | | |
| rek abotek | omigaiona. The provisi | one in 3 relocablis | | Anbo |
| Anbor An | Except as provided els | sewhere in this subpa | art, the emissions | s from an |
| botek Anbor | intentional radiator sha | | | |
| Yur "Pot | following table: | hotek Anbore | W. A. A. | abotek Anb |
| LOTO ATT | J | | | |



www.anbotek.com.cn





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| hotek Vupo, tek | Francisco (NALLE) | Mile at a selection | NA OF | 77 |
|---|--|--|--|----------------|
| rotek Anbore | Frequency (MHz) | Field strength | Measurement | |
| Aupo | Aupoig Vi. | (microvolts/meter) | distance | |
| aboten Anbe | and a series | Al. | (meters) | .e.\/ |
| bu. sek apoter | 0.009-0.490 | 2400/F(kHz) | 300 | _ |
| Anbo, Air | 0.490-1.705 | 24000/F(kHz) | 30 | 20'se |
| k hotek anbo | 1.705-30.0 | 30 Anti | 30° | |
| And | 30-88 | 100 ** | 3 Johek | PUP. |
| Ask abover As | 88-216 | 150 ** | ofer 3 And | |
| co. Dir. | 216-960 | 200 ** | atel 3 ambotes | P |
| Lotek Anbore | Above 960 | 500 | Anbore 3 All | 1 |
| And K hotek | - 100 h. | | | _ |
| anbore. And | | paragraph (g), fundamental e | | ek |
| Ar above | | ating under this section shall | | No. |
| Anbo. Ai | | IHz, 76-88 MHz, 174-216 MI | | pore |
| k hotek Anbo | | these frequency bands is p | ermitted under other | |
| And | sections of this part, e.g., | | . K | DUPO |
| sek aboter An | | ve, the tighter limit applies a | | |
| D. A. | - 1/2 | n in the above table are bas | | |
| hotek Anbo. | | i-peak detector except for th | | - |
| Augusta | 90 kHz, 110–490 kHz and | l above 1000 MHz. Radiated | d emission limits in | |
| anboren Anb | these three bands are bas | sed on measurements empl | oying an average | 1 |
| Anbote. | detector. | Aupo, K W. Wiek | Anbore. And | .eY |
| Test Method: | ANSI C63.10-2020, section | on 12.7.4, 12.7.6, 12.7.7 | anbotek Anb | 0, |
| Aupo. | Above 1GHz: | | | 700 |
| 19.0 | | | | 26.7 |
| ok about Air | a. For above 1GHz, the E | UT was placed on the top o | f a rotating table 1.5 | 20. |
| dek Yuporg Vi. | | UT was placed on the top o at a 3 meter fully-anechoic | | as |
| otek Aupotek | meters above the ground | at a 3 meter fully-anechoic | chamber. The table wa | as |
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| Upotek Vupotek | meters above the ground rotated 360 degrees to de b. The EUT was set 3 me | at a 3 meter fully-anechoic etermine the position of the l ters away from the interfere | chamber. The table wanighest radiation. nce-receiving antenna | |
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| otek Anborek | meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is viground to determine the rand vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 meters. | at a 3 meter fully-anechoic etermine the position of the laters away from the interfere e top of a variable-height arwaried from one meter to four maximum value of the field sof the antenna are set to maission, the EUT was arrangos tuned to heights from 1 metals. | chamber. The table wanighest radiation. nce-receiving antennatenna tower. r meters above the strength. Both horizontake the measurement, ed to its worst case eter to 4 meters (for the ed to heights 1 meter) | a, tal · |
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| ctek Anborek | meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on the c. The antenna height is was ground to determine the rand vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver syste Bandwidth with Maximum f. If the emission level of the limit specified, then testing would be re-tested one by and then reported in a darg. Test the EUT in the low channel. h. The radiation measured Transmitting mode, and for case. i. Repeat above procedure. | at a 3 meter fully-anechoic etermine the position of the laters away from the interfere e top of a variable-height arwaried from one meter to four maximum value of the field sof the antenna are set to manission, the EUT was arranged tuned to heights from 1 meters as turned from 0 degrees to make turned from 0 degrees to make turned from 0 degrees to make the EUT in peak mode was a grould be stopped and the wise the emissions that did not one using peak or average that the test channel, the middle charments are performed in X, Y | chamber. The table wanighest radiation. Ince-receiving antennate and tenna tower. It meters above the strength. Both horizont ake the measurement. ed to its worst case eter to 4 meters (for the ed to heights 1 meter) 360 degrees to find the unction and Specified 10dB lower than the peak values of the EU not have 10dB margine method as specified nnel, the Highest 7, Z axis positioning for which it is the worst | a, e ne |
| ctek Anborek | meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on the c. The antenna height is a ground to determine the reand vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver syste Bandwidth with Maximum f. If the emission level of the limit specified, then testing would be re-tested one by and then reported in a darg. Test the EUT in the low channel. h. The radiation measured Transmitting mode, and for case. i. Repeat above procedur Remark: | at a 3 meter fully-anechoic etermine the position of the laters away from the interfere etop of a variable-height arwaried from one meter to four maximum value of the field sof the antenna are set to manission, the EUT was arranged tuned to heights from 1 meto MHz, the antenna was tuned as turned from 0 degrees to make turned from 0 degrees to make the EUT in peak mode was a grould be stopped and the wise the emissions that did not one using peak or averaged that a sheet. The word of the middle characteristic are performed in X, Yound the X axis positioning to the stopped and the X axis positioning to the X axis positioning to the terminal of the X axis positioning to the X axis position to the X axis pos | chamber. The table wanighest radiation. Ince-receiving antennatenna tower. In meters above the strength. Both horizont ake the measurement. He to its worst case ster to 4 meters (for the doth of heights 1 meter) 360 degrees to find the function and Specified 10dB lower than the peak values of the EU not have 10dB margine method as specified nnel, the Highest for which it is the worst sured was complete. | a, e ne |









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- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.





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9.1. EUT Operation

Operating Environment:

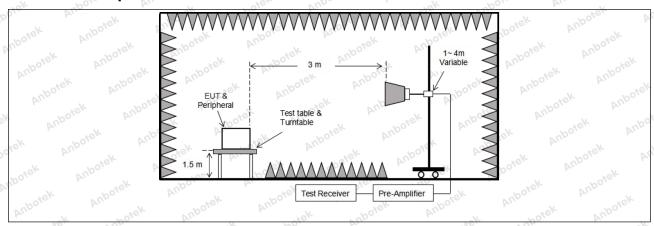
1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

9.2. Test Setup

Test mode:









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9.3. Test Data

Temperature: 25.3 °C Humidity: 48 % Atmospheric Pressure: 101 kPa

| | | No. | | | | | 1 |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|-------------------|----------|
| | | TM1 / B | and: 5150-5 | 350 MHz / BV | V: 20 / L | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00 | 37.05 | 15.99 | 53.04 | 68.20 | -15.16 | oborek H Ar | Peak |
| 5150.00 | 39.14 | 15.99 | 55.13 | 68.20 | -13.07 | Voo V | Peak |
| 5150.00 | 26.97 | 15.99 | 42.96 | 54.00 | -11.04 | Hick | AVG |
| 5150.00 | 29.04 | 15.99 | 45.03 | 54.00 | -8.97 | Vhotek | AVG |
| | | TM1 / B | and: 5150-53 | 350 MHz / BV | V: 20 / H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5350.00 | 37.48 | 16.43 | 53.91 | 68.20 | -14.29 | H _{rock} | Peak |
| 5350.00 | 40.47 | 16.43 | 56.90 | 68.20 | -11.30 | N. Nick | Peak |
| 5350.00 | 28.83 | 16.43 | 45.26 | 54.00 | -8.74 | And sek | AVG |
| 5350.00 | 29.70 | 16.43 | 46.13 | 54.00 | -7.87 | Npor | AVG |

Remark: 1. Result=Reading + Factor

| Ya Ya | OLO VIII | | wier and |) | Yo. | 100,0 VII. | V. |
|--------------------|-------------------|----------------------------|--------------------|-------------------|---------------------------|------------------------|----------|
| | | TM2 / B | and: 5150-5 | 350 MHz / BV | V: 20 / L | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00 | 35.97 | 15.99 | 51.96 | 68.20 | -16.24 | Hooter | Peak |
| 5150.00 | 37.38 | 15.99 | 53.37 | 68.20 | -14.83 | ek V _{Anbote} | Peak |
| 5150.00 | 16 26.69 NO | 15.99 | 42.68 | 54.00 mb° | -11.32 | otek H Anb | AVG AVG |
| 5150.00 | 27.67 | b ^{otel} 15.99 An | 43.66 | 54.00 | -10.34 | Veron | AVG |
| | | TM2 / B | and: 5150-53 | 350 MHz / BW | /: 20 / H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5350.00 | 37.81 | 16.43 | 54.24 | 68.20 | -13.96 | K Habois | Peak |
| 5350.00 | 38.83 | 16.43 | 55.26 | 68.20 m | -12.94 | tek V nb | Peak |
| 5350.00 | 27.84 | ote 16.43 And | 44.27 | 54.00 | o ^{tel} -9.73 An | H | AVG |
| 5350.00 | 29.32 | 16.43 | 45.75 | 54.00 | -8.25 | Inpose A | AVG |

Remark: 1. Result=Reading + Factor





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| | | TM2 / B | and: 5150-5 | 350 MHz / BV | V: 40 / L | | |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|-----------------|----------|
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00 | 36.55 | 15.99 | 52.54 | 68.20 | -15.66 | k Haboten | Peak |
| 5150.00 | 38.39 | 15.99 | 54.38 | 68.20 | -13.82 | tek V anbo | Peak |
| 5150.00 | 27.13 | 15.99 N | 43.12 | 54.00 | -10.88 Anto | Nek H | AVG |
| 5150.00 | 28.78 | 15.99 | 44.77 | 54.00 | -9.23 | We of Ar | AVG |
| | | TM2 / B | and: 5150-53 | 350 MHz / BV | V: 40 / H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5350.00 | 38.13 | 16.43 | 54.56 | 68.20 | -13.64 | kek H Mbo | Peak |
| 5350.00 | 36.98 | 16.43 M | 53.41 | 68.20 | -14.79 | V | Peak N |
| 5350.00 | 28.38 | 16.43 | 44.81 | 54.00 | -9.19 | Aport H | AVG |
| 5350.00 | 29.59 | 16.43 | 46.02 | 54.00 | -7.98 | Aupord | AVG |

Remark: 1. Result=Reading + Factor

| 0,56 | VUD | You | 2001 | 171. | 1010 | VUDO | |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|-----------------|----------|
| | | TM3 / B | and: 5150-5 | 350 MHz / BV | V: 20 / L | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00 | 37.02 | 15.99 | 53.01 | 68.20 | -15.19 | Harodor | Peak |
| 5150.00 | 38.78 | 15.99 | 54.77 | 68.20 | -13.43 | No. | Peak |
| 5150.00 | 26.60 | 15.99 | 42.59 | 54.00 | -11.41 | Hotek | AVG |
| 5150.00 | 28.82 | 15.99 | 44.81 | 54.00 | -9.19 | V Voice | AVG |
| | | TM3 / B | and: 5150-53 | 350 MHz / BV | V: 20 / H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5350.00 | 37.92 | 16.43 | 54.35 | 68.20 | -13.85 | No HEN | Peak |
| 5350.00 | 38.16 | 16.43 | 54.59 | 68.20 | -13.61 | Votek | Peak |
| 5350.00 | 27.85 | 16.43 | 44.28 | 54.00 | -9.72 | H Help | AVG |
| 5350.00 | 28.44 | 16.43 | 44.87 | 54.00 | -9.13 o | VYUDO. | AVG |

Remark: 1. Result=Reading + Factor





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| | | TM3 / B | and: 5150-53 | 350 MHz / BV | V: 40 / L | | |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|-----------------|----------|
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00 | 35.96 | 15.99 | 51.95 | 68.20 | -16.25 | H | Peak |
| 5150.00 | 36.38 | 15.99 | 52.37 | 68.20 | -15.83 | Nupp. | Peak |
| 5150.00 | 26.18 | 15.99 | 42.17 nbo | 54.00 | 11.83 M | otek H Anbo | AVG |
| 5150.00 | 26.88 | 15.99 | 42.87 | 54.00 | -11.13 | nbotek V A | AVG |
| | | TM3 / B | and: 5150-53 | 350 MHz / BV | V: 40 / H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5350.00 | 38.09 | 16.43 | 54.52 | 68.20 | -13.68 | H ^{nb} | Peak |
| 5350.00 | 37.22 | 16.43 | 53.65 | 68.20 | -14.55 | tek A Vupo, | Peak |
| 5350.00 | 27.53 | 16.43 | 43.96 | 54.00 | -10.04 | Notek H An | AVG A |
| 5350.00 | 27.57 | 16.43 | 44.00 | 54.00 | -10.00 | V | AVG |
| | . 1/10 | | 740 | V (1, | - 0/2 | -100 | 1 |

Remark: 1. Result=Reading + Factor

| | 77. | -0.1 | ~~~~ | - V | 01 | D/. | -25 |
|--------------------|--|------------------|-----------------|-------------------|--------------------|-----------------|----------|
| | | TM3 / E | Band: 5150-53 | 350 MHz / BV | V: 80 / L | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00 | o ^{tel4} 36.06 ⊾ ^{nbs} | 15.99 | 52.05 | 68.20 | -16.15 | botek H Ant | Peak |
| 5150.00 | 36.52 | 15.99 | 52.51 | 68.20 | -15.69 | abore V | Peak |
| 5150.00 | 26.67 | 15.99 | 42.66 | 54.00 | -11.34 | Hek | AVG |
| 5150.00 | 26.90 | 15.99 | 42.89 | 54.00 | -11.11 | Votek | AVG |
| | | TM3 / E | Band: 5150-53 | 350 MHz / BV | V: 80 / H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5350.00 | 38.38 | 16.43 | 54.81 | 68.20 | -13.39 | nboteH 1 | Peak |
| 5350.00 | 37.51 | 16.43 | 53.94 | 68.20 | -14.26 | N. N. | Peak |
| 5350.00 | 28.89 | 16.43 | 45.32 | 54.00 | -8.68 | And H yell | AVG |
| 5350.00 | 28.17 | 16.43 | 44.60 | 54.00 | -9.40 | AV ^O | AVG |

Remark: 1. Result=Reading + Factor





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| 0. 4. | | TM1 / B | and: 5470-58 | 350 MHz / BV | V: 20 / L | | - ATO - AT |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|---------------------|------------|
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5460.00 | 38.21 | 16.37 | 54.58 | 68.20 | -13.62 | "Ho _{to} " | Peak |
| 5460.00 | 39.61 | 16.37 | 55.98 | 68.20 | -12.22 | k V bojek | Peak |
| 5470.00 | 39.14 | 16.70 | 55.84 | 68.20 | -12.36 | H | Peak |
| 5470.00 | 39.90 | 16.70 | 56.60 | 68.20 | 11.60 | oter V Aupp | Peak |
| 5460.00 | 28.79 | 16.37 | 45.16 | 54.00 | -8.84 | hotek H Ar | AVG |
| 5460.00 | 28.67 | 16.37 | 45.04 | 54.00 | -8.96 | V | AVG |
| 5470.00 | 29.06 | 16.70 | 45.76 | 54.00 | -8.24 | Pup H ok | AVG |
| 5470.00 | 30.18 | 16.70 | 46.88 | 54.00 | -7.12 | AUDIO | AVG |
| | | TM1 / B | and: 5470-58 | 350 MHz / BV | V: 20 / H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5850.00 | 39.16 | 17.21 | 56.37 | 68.20 | -11.83 | sotek H An | Peak An |
| 5850.00 | 39.54 | 17.21 | 56.75 | 68.20 | -11.45 | V | Peak |
| 5850.00 | 29.14 | 17.21 | 46.35 | 54.00 | -7.65 | Anbort H | AVG |
| 5850.00 | 29.15 | 17.21 | 46.36 | 54.00 | -7.64 | VUIA, | AVG |

Remark: 1. Result=Reading + Factor

| 20 | 36 | - T | 10 m | Dir. | | *6, | · · · · · · · · · · · · · · · · · · · |
|--------------------|-------------------|----------------------------|--------------------|-------------------|--------------------|-----------------|---------------------------------------|
| | | TM2 / B | and: 5470-58 | 350 MHz / BV | V: 20 / L | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5460.00 | 38.19 | 16.37 | 54.56 | 68.20 | -13.64 | Auga H | Peak |
| 5460.00 | 38.78 | 16.37 | 55.15 | 68.20 | -13.05 | Anlo | Peak |
| 5470.00 | 38.30 | 16.70 | 55.00 | 68.20 | -13.20 | Hotel | Peak |
| 5470.00 | 38.73 | 16.70 | 55.43 | 68.20 | -12.77 | V Note | Peak |
| 5460.00 | 27.18 | × 16.37 | 43.55 | 54.00 | -10.45 | H | AVG NO |
| 5460.00 | 27.62 | 16.37 | 43.99 | 54.00 | -10.01 | potek V Ano | AVG |
| 5470.00 | 27.62 | 16.70 | 44.32 | 54.00 | -9.68 | , Horo | AVG |
| 5470.00 | 28.16 | 16.70 | 44.86 | 54.00 | -9.14 | N.K | AVG |
| | | TM2 / B | and: 5470-58 | 350 MHz / BV | V: 20 / H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5850.00 | 37.40 | 17.21 | 54.61 | 68.20 | -13.59 | Hands | Peak |
| 5850.00 | 38.00 | 17.21 | 55.21 NO | 68.20 | -12.99 | otek V Anbe | Peak |
| 5850.00 | 27.68 | o ^{tel} 17.21 Ant | 44.89 | 54.00 | -9.11 | HYSY | AVG A |
| 5850.00 | 28.50 | 17.21 | 45.71 | 54.00 | -8.29 | rup Ar | AVG |

Remark: 1. Result=Reading + Factor





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| | 700, k. | TM2 / F | Band: 5470-58 | 850 MHz / RV | V: 40 / I | -, 10° P | |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|---------------------|----------|
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5460.00 | 37.77 | 16.37 | 54.14 | 68.20 | -14.06 | H Nek | Peak |
| 5460.00 | 38.66 | 16.37 | 55.03 | 68.20 | -13.17 | V.⊓bs | Peak |
| 5470.00 | 38.60 | 16.70 | 55.30 | 68.20 | -12.90 | otek H Anbo | Peak |
| 5470.00 | 39.27 | 16.70 And | 55.97 | 68.20 | -12.23 | otekV N | Peak |
| 5460.00 | 26.88 | 16.37 | 43.25 | 54.00 | -10.75 | H | AVG |
| 5460.00 | 28.74 | 16.37 | 45.11 | 54.00 | -8.89 | Aupor | AVG |
| 5470.00 | 27.08 | 16.70 | 43.78 | 54.00 | -10.22 | nHP ^{tell} | AVG |
| 5470.00 | 28.42 | 16.70 | 45.12 | 54.00 | -8.88 | Votek | AVG |
| 10 t/2 * | | TM2 / B | and: 5470-58 | 350 MHz / BV | V: 40 / H | | <u>'</u> |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5850.00 | 38.13 | 17.21 | 55.34 | 68.20 | -12.86 | H L | Peak |
| 5850.00 | 38.50 | 17.21 | 55.71 | 68.20 | -12.49 | Viodua | Peak |
| 5850.00 | 28.30 | 17.21 | 45.51 | 54.00 | -8.49 | Hick | AVG |
| 5850.00 | 29.38 | 17.21 | 46.59 | 54.00 | -7.41 | Votek | AVG |

Remark: 1. Result=Reading + Factor

| | | TM3 / B | and: 5470-58 | 850 MHz / BV | V: 20 / L | | |
|--------------------|-------------------|----------------------------|--------------------|-------------------|--------------------|-----------------|----------|
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5460.00 | 37.40 | 16.37 | 53.77 | 68.20 | -14.43 | no H | Peak |
| 5460.00 | 37.54 | 16.37 | 53.91 | 68.20 | -14.29 | Vhotek | Peak |
| 5470.00 | 37.98 | 16.70 | 54.68 | 68.20 | -13.52 | H | Peak |
| 5470.00 | 38.34 | 16.70 | 55.04 | 68.20 | -13.16 | VANDO | Peak |
| 5460.00 | 28.03 | 16.37 | 44.40 | 54.00 | -9.60 | notek H Anb | AVG |
| 5460.00 | 28.68 | 16.37 | 45.05 | 54.00 | -8.95 | Ver | AVG |
| 5470.00 | 28.31 | 16.70 | 45.01 | 54.00 | -8.99 | Anbo H. | AVG |
| 5470.00 | 29.14 | 16.70 | 45.84 | 54.00 | -8.16 | Anb | AVG |
| | | TM3 / B | and: 5470-58 | 350 MHz / BV | V: 20 / H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5850.00 | 38.14 | 17.21 | 55.35 | 68.20 | -12.85 | otek H anbo | Peak |
| 5850.00 | 39.02 | ote ^k 17.21 Anh | 56.23 | 68.20 | -11.97 An | V | Peak |
| 5850.00 | 28.01 | 17.21 | 45.22 | 54.00 | -8.78 | rupo, H | AVG |
| 5850.00 | 29.10 | 17.21 | 46.31 | 54.00 | -7.69 | Vup A | AVG |

Remark: 1. Result=Reading + Factor





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| <u> </u> | | TM3 / B | and: 5470-58 | 350 MHz / BV | V: 40 / L | ., | |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|--------------------|----------|
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5460.00 | 36.35 | 16.37 | 52.72 | 68.20 | -15.48 | "Ho _{te.} | Peak |
| 5460.00 | 37.86 | 16.37 | 54.23 | 68.20 | -13.97 | v V botek | Peak |
| 5470.00 | 36.78 | 16.70 | 53.48 | 68.20 | -14.72 | H | Peak |
| 5470.00 | 38.20 | 16.70 | 54.90 | 68.20 | -13.30 | oter Aupo | Peak |
| 5460.00 | 27.34 | 16.37 | 43.71 | 54.00 | -10.29 | HOTEKH AT | AVG |
| 5460.00 | 27.47 | 16.37 | 43.84 | 54.00 | -10.16 | V | AVG |
| 5470.00 | 27.59 | 16.70 | 44.29 | 54.00 | -9.71 | Pup H ok | AVG |
| 5470.00 | 28.28 | 16.70 | 44.98 | 54.00 | -9.02 | AUD TO | AVG |
| | | TM3 / B | and: 5470-58 | 350 MHz / BV | V: 40 / H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5850.00 | 37.69 | 17.21 | 54.90 | 68.20 | -13.30 | Lotek H An | Peak Am |
| 5850.00 | 38.54 | 17.21 | 55.75 | 68.20 | -12.45 | V | Peak |
| 5850.00 | 27.70 | 17.21 | 44.91 | 54.00 | -9.09 | Anbort H | AVG |
| 5850.00 | 27.33 | 17.21 | 44.54 | 54.00 | -9.46 | NUN PER | AVG |

Remark: 1. Result=Reading + Factor

| | TM3 / B | and: 5470-58 | 850 MHz / BV | V: 80 / L | -20 | |
|-------------------|--|---|---|--|--|---|
| Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 35.62 | 16.37 | 51.99 | 68.20 | -16.21 | nboi th | Peak |
| 37.16 | 16.37 | 53.53 | 68.20 | -14.67 | Nok | Peak |
| 35.98 | 16.70 | 52.68 | 68.20 | -15.52 | H 48K | Peak |
| 38.11 | 16.70 | 54.81 | 68.20 | -13.39 | V | Peak |
| 25.90 | 16.37 | 42.27 | 54.00 | -11.73 | ek Hanbote | AVG |
| 27.00 | 16.37 | 43.37 | 54.00 choo | -10.63 | Jek V Jo | AVG MAD |
| 26.65 | 16.70 | 43.35 | 54.00 | -10.65 | Н | AVG |
| 27.21 | 16.70 | 43.91 | 54.00 | -10.09 | Vupose A b | AVG |
| | TM3 / B | and: 5470-58 | 350 MHz / BV | V: 80 / H | | |
| Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 37.67 | 17.21 | 54.88 | 68.20 | -13.32 | H hote | Peak |
| 37.96 | 17.21 | 55.17 | 68.20 | -13.03 | , V , | Peak no |
| 28.08 | 17.21 | 45.29 | 54.00 | otel-8.71 An | H | AVG |
| 28.33 | 17.21 | 45.54 | 54.00 | -8.46 | nbotek A | AVG |
| | (dBuV) 35.62 37.16 35.98 38.11 25.90 27.00 26.65 27.21 Reading (dBuV) 37.67 37.96 28.08 | Reading (dBuV) Factor (dB/m) 35.62 16.37 37.16 16.37 35.98 16.70 38.11 16.70 25.90 16.37 27.00 16.37 26.65 16.70 27.21 16.70 TM3 / B Reading (dBuV) Factor (dB/m) 37.67 17.21 37.96 17.21 28.08 17.21 | Reading (dBuV) Factor (dB/m) Result (dBuV/m) 35.62 16.37 51.99 37.16 16.37 53.53 35.98 16.70 52.68 38.11 16.70 54.81 25.90 16.37 42.27 27.00 16.37 43.37 26.65 16.70 43.35 27.21 16.70 43.91 TM3 / Band: 5470-58 Reading (dBuV) (dB/m) (dBuV/m) 37.67 17.21 54.88 37.96 17.21 55.17 28.08 17.21 45.29 | Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) 35.62 16.37 51.99 68.20 37.16 16.37 53.53 68.20 35.98 16.70 52.68 68.20 38.11 16.70 54.81 68.20 25.90 16.37 42.27 54.00 27.00 16.37 43.37 54.00 26.65 16.70 43.35 54.00 27.21 16.70 43.91 54.00 TM3 / Band: 5470-5850 MHz / BV Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) 37.67 17.21 54.88 68.20 37.96 17.21 55.17 68.20 28.08 17.21 45.29 54.00 | (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dBuV/m) 35.62 16.37 51.99 68.20 -16.21 37.16 16.37 53.53 68.20 -14.67 35.98 16.70 52.68 68.20 -15.52 38.11 16.70 54.81 68.20 -13.39 25.90 16.37 42.27 54.00 -11.73 27.00 16.37 43.37 54.00 -10.63 26.65 16.70 43.35 54.00 -10.65 27.21 16.70 43.91 54.00 -10.09 TM3 / Band: 5470-5850 MHz / BW: 80 / H Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 37.67 17.21 54.88 68.20 -13.32 37.96 17.21 55.17 68.20 -13.03 28.08 17.21 45.29 54.00 -8.71 | Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) Antenna Pol. 35.62 16.37 51.99 68.20 -16.21 H 37.16 16.37 53.53 68.20 -14.67 V 35.98 16.70 52.68 68.20 -15.52 H 38.11 16.70 54.81 68.20 -13.39 V 25.90 16.37 42.27 54.00 -11.73 H 27.00 16.37 43.37 54.00 -10.63 V 26.65 16.70 43.35 54.00 -10.65 H 27.21 16.70 43.91 54.00 -10.09 V TM3 / Band: 5470-5850 MHz / BW: 80 / H Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) Pol. 37.67 17.21 54.88 68.20 -13.32 H 37.96 17.21 55.17 68.20 -13.03 V 28.08 |

Remark: 1. Result=Reading + Factor





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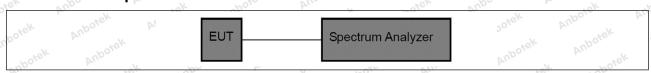
10. Band edge emissions (Conducted)

| Test Requirement: | 47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) |
|-------------------|---|
| k Aupotek Aupot | For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. |
| Test Limit: | For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. |
| Test Method: | Peak emission levels are measured by setting the instrument as follows: RBW = 1 MHz. VBW ≥ [3 × RBW] Detector = peak. Sweep time = auto. Trace mode = max hold. |

10.1. EUT Operation

| Operating Env | ronment: And And to the And to th |
|--------------------|--|
| Anbotek Anbotek | 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. 2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n |
| | modulation type. All bandwidth and data rates has been tested and found the data |
| Test mode: | rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |
| | 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |

10.2. Test Setup



10.3. Test Data

| Temperature: | 25.3 °C | Humidity: | 48 % | Atmospheric Pressure | 101 kPa | -bots |
|--------------|---------|-----------|------|----------------------|---------|--------|
| Part Control | 7,00 | 200 | 100 | - WP | Vie. | V 11 m |

Please Refer to Appendix for Details.







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11. Undesirable emission limits (below 1GHz)

| Test Requirement: | 47 CFR Part 15.407(b)(9) | Aug sporek | Aupo, Vi |
|--|---|--|--|
| Anbotek Anbotes | Unwanted emissions below strength limits set forth in | w 1 GHz must comply with th § 15.209. | e general field |
| ek Aupotek V | | nere in this subpart, the emise ot exceed the field strength le | |
| ootek Anbotek | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance |
| | 0.000.0.400 | 2400/5/(411-) | (meters) |
| | 0.009-0.490 | 2400/F(kHz) | 300 |
| | 0.490-1.705 | 24000/F(kHz) | 30 |
| | 1.705-30.0 | 30 100 ** | 30 |
| Test Limit: | 30-88 | 150 ** | 3 2 5000 |
| rest Limit. | 88-216 | 200 ** | otek 3 Anbore |
| | 216-960 | | 3 Nobolek |
| | Above 960 | │ 500 aragraph (g), fundamental en | Anbore 3 And |
| | employing a CISPR quasi- 90 kHz, 110–490 kHz and | in the above table are based peak detector except for the above 1000 MHz. Radiated of sed on measurements employ | frequency bands 9– emission limits in |
| Test Method: | ANSI C63.10-2020, sectio | n 12.7.4, 12.7.5 | Aupon An |
| otek Anbotek | meters above the ground a was rotated 360 degrees to b. The EUT was set 3 or 1 antenna, which was mount c. The antenna height is very ground to determine the mand vertical polarizations of d. For each suspected emand then the antenna was test frequency of below 30 and the rotatable table was maximum reading. | JT was placed on the top of a at a 3 meter semi-anechoic condetermine the position of the 0 meters away from the intersted on the top of a variable-haried from one meter to four maximum value of the field strong the antenna are set to make ission, the EUT was arranged tuned to heights from 1 meters and the internal was tuned to heights from 1 meters turned from 0 degrees to 36 m was set to Peak Detect Furnal and the internal was set to Peak Detect Furnal was set to Peak Detect Furn | hamber. The table he highest radiation. ference-receiving eight antenna tower. meters above the ength. Both horizonta e the measurement. It to its worst case or to 4 meters (for the 1 to heights 1 meter) and the following the series of the 1 to heights 1 meter). |
| | | Hold Mode. ne EUT in peak mode was 10 | _ Aupor |









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would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Above 1GHz:

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB









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below the limit need not be reported.

- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

11.1. EUT Operation

Operating Environment:

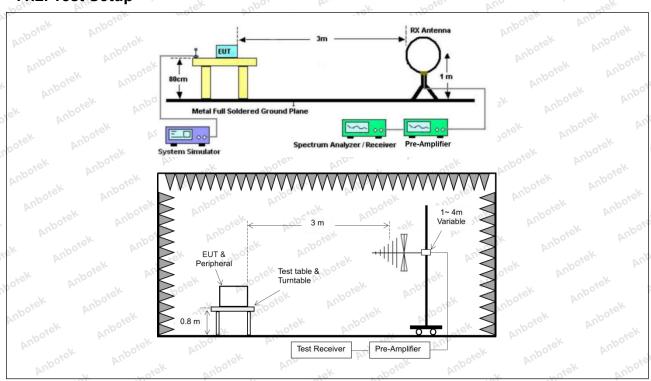
1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

11.2. Test Setup

Test mode:







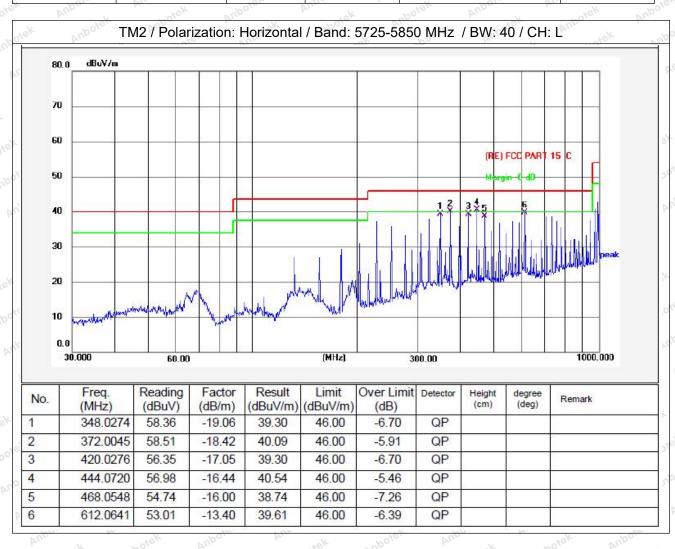


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11.3. Test Data

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

| Temperature: | 25.3 °C | Humidity: | 48 % | Atmos | spheric Pres | sure: | 101 kPa |
|--------------|---------|-----------|------|-------|--------------|-------|---------|

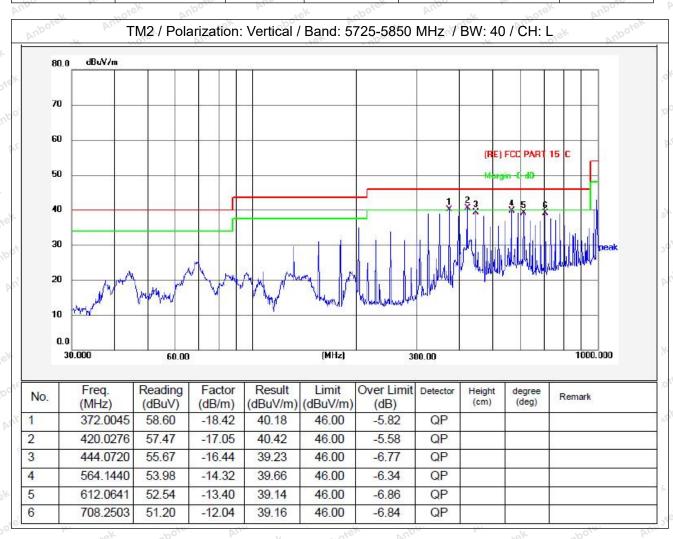






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Temperature: 25.3 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data (802.11n(HT40)) in the report.









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12. Undesirable emission limits (above 1GHz)

| Test Requirement: | 47 CFR Part 15.407(b 47 CFR Part 15.407(b 47 CFR Part 15.407(b |)(2) | Anbotek Anbo | upotek Aupot |
|-------------------|---|---|------------------------------------|-------------------------|
| ek Anbotek Anbo | For transmitters opera of the 5.15-5.35 GHz k | | | |
| | For transmitters opera | | | |
| | of the 5.15-5.35 GHz t | | | 25 |
| | MHz | MHz | MHz | GHz |
| | 0.090-0.110 10.495-0.505 | 16.42-16.423 16.69475- 16.69525 | 399.9-410 608-614 | 4.5-5.15 5.35-5.46 |
| | 2.1735-2.1905 | 16.80425- 16.80475 | 960-1240 | 7.25-7.75 |
| | 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| | 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| | 4.20725-4.20775 | 73-74.6 | 1645.5- 1646.5 | 9.3-9.5 |
| | 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| | 6.26775-6.26825 | 108-121.94 | 1718.8- 1722.2 | 13.25-13.4 |
| | 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| Aupo | 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| | 8.362-8.366 | 156.52475- 156.52525 | 2483.5-2500 | 17.7-21.4 |
| est Limit: | 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| ot Little. | 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| | 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| | 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| VII. | 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) |
| | 13.36-13.41 | ing of Potek | Anbo. | W. Sick |
| | ¹ Until February 1, 1999 ² Above 38.6 The field strength of each | missions appearing w | vithin these frequ | uency bands sha |
| | not exceed the limits s 1000 MHz, compliance using measurement in detector. Above 1000 I | e with the limits in § 1 strumentation employ | 5.209shall be de ing a CISPR qu | emonstrated asi-peak |
| | 15.209shall be demon emissions. The provisi | strated based on the | average value of | of the measured |
| | Except as provided els intentional radiator sha following table: | | | |
| | Frequency (MHz) | Field strength (microvolts/me | ter) hotek | Measurement distance |









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| otek Anbo. | atek anbote | And ak botek | "upo, K. |
|--|--|--|---|
| rek społek | hupo August Augu | Anbote Am | (meters) |
| | 0.009-0.490 | 2400/F(kHz) | 300 more |
| | 0.490-1.705 | 24000/F(kHz) | 30 |
| | 1.705-30.0 | × 30 0000 Am | 30 |
| | 30-88 | 100 ** | 3 |
| -otek Anl | 88-216 | 150 ** | Jek 3/por |
| Anba | 216-960 | 200 ** | 3 50tek |
| | Above 960 | 500 selv | abote 3 Ame |
| Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | intentional radiators ope frequency bands 54-72 l However, operation with sections of this part, e.g In the emission table about The emission limits show employing a CISPR qua 90 kHz, 110–490 kHz ar | paragraph (g), fundamenta rating under this section sha MHz, 76-88 MHz, 174-216 Min these frequency bands is ., §§ 15.231 and 15.241. ove, the tighter limit applies when in the above table are basi-peak detector except for and above 1000 MHz. Radiate and an massurements are | all not be located in the MHz or 470-806 MHz. permitted under other at the band edges. used on measurements the frequency bands 9-ed emission limits in |
| oote, Aupotek | detector. | ased on measurements em | ploying an average |
| Test Method: | ANSI C63.10-2020, sect | tion 12.7.4, 12.7.6, 12.7.7 | botek Anbore |
| | Above 1GHz: | | |
| | a. For above 1GHz, the | EUT was placed on the top | of a rotating table 1.5 |
| And | meters above the ground | d at a 3 meter fully-anechoid | c chamber. The table wa |
| ak anbote. A | rotated 360 degrees to d | determine the position of the | highest radiation. |
| | | eters away from the interfer | |
| | | the top of a variable-height a | |
| | | varied from one meter to fo | |
| | | maximum value of the field | |
| | | s of the antenna are set to n | |
| VII. | | mission, the EUT was arran | |
| | | as tuned to heights from 1 m | |
| | | 30MHz, the antenna was tu | |
| | | vas turned from 0 degrees to | o 360 degrees to find the |
| | maximum reading. | Anbe | Thore Arra |
| Procedure: | ~ U | em was set to Peak Detect | runction and Specified |
| Procedure: | Bandwidth with Maximul | | 10dP lower than the |
| | | the EUT in peak mode was | |
| | | ng could be stopped and the rwise the emissions that did | |
| | | oy one using peak or averag | |
| | and then reported in a d | | je memou as specilieu |
| | | west channel, the middle ch | annel the Highest |
| | channel. | west chainer, the initiale of | idinioi, trio i lignost |
| | 240 | ements are performed in X, | Y 7 axis positioning for |
| | | found the X axis positioning | |
| | case. | Todala dio A ano positioning | THINGI ICIO GIO WOLST |
| | - CV | ures until all frequencies me | asured was complete |
| | Remark: | and an inequalities ine | assiss has complete. |
| | K %0, | Cable Loss+ Antenna Factor | - Preamp Factor |
| | | 40GHz, the disturbance abo | |
| | | bove plots are the highest e | |
| 16k 70po, | The points marked off al | coro pioto dio tilo fligilost e | inissions could be lould |









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when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

12.1. EUT Operation

Operating Environment:

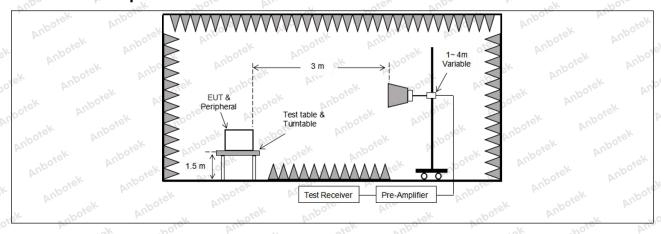
1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

Test mode:

2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

12.2. Test Setup









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12.3. Test Data

| Temperature: 25.3 °C | Humidity: 48 % | Atmospheric Pressure: | 101 kPa |
|----------------------|----------------|-----------------------|---------|
|----------------------|----------------|-----------------------|---------|

| - V | PO1. | D1 | 750 | "Up. | - No. | -h01 | D1. |
|--------------------|-------------------|------------------|--------------------------------------|-------------------|--------------------|--------------------|----------|
| | | TM1 / Ban | d: 5150-525 | 0 MHz / BW: | 20 / CH: L | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 10360.00 | 31.53 | 23.81 | 55.34 | 68.20 | -12.86 | V | Peak |
| 15540.00 | 32.90 | 28.68 | 61.58 | 68.20 | -6.62 | Nupo, A | Peak |
| 10360.00 | 31.98 | 23.81 | 55.79 | 68.20 | -12.41 | PupoH | Peak |
| 15540.00 | 32.96 | 28.68 | 61.64 | 68.20 | -6.56 | "Ho _{jer} | Peak |
| 10360.00 | 20.951 | 23.81 | 44.76 | 54.00 | -9.24 | Vobořek | AVG |
| 15540.00 | 22.075 | 28.68 | 50.76 | 54.00 | -3.24 | V V | AVG |
| 10360.00 | 21.168 | 23.81 | 44.98 | 54.00 | -9.02 AND | H AM | AVG |
| 15540.00 | 21.627 | 28.68 | 50.31 | 54.00 | -3.69 | nbotek H Ar | AVG |
| | | TM1 / Ban | d: 5150-5250 | MHz / BW: | 20 / CH: M | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 10400.00 | 30.89 | 23.81 | 54.70 | 68.20 | -13.50 | Kupote | Peak |
| 15600.00 | 32.43 | 29.13 | 61.56 | 68.20 | -6.64 | iek V nbot | Peak |
| 10400.00 | 31.47 | 23.81 | 55.28 | 68.20 | -12.92 | , H | Peak |
| 15600.00 | 32.48 | 29.13 | o ^{no} 61.61 ^{Ani} | 68.20 | -6.59 | h H | Peak |
| 10400.00 | 21.221 | 23.81 | 45.03 | 54.00 | -8.97 | AnboreV | AVG |
| 15600.00 | 22.195 | 29.13 | 51.33 | 54.00 | -2.67 | VUPA SK | AVG |
| 10400.00 | 21.158 | 23.81 | 44.97 | 54.00 | -9.03 | Hotek | AVG |
| 15600.00 | 21.707 | 29.13 | 50.84 | 54.00 | -3.16 | H | AVG |
| | | TM1 / Ban | d: 5150-525 | 0 MHz / BW: | 20 / CH: H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 10480.00 | 30.46 | 23.80 | 54.26 | 68.20 | -13.94 | Aups Auk | Peak |
| 15720.00 | 31.91 | 30.03 | 61.94 | 68.20 | -6.26 | Anbo | Peak |
| 10480.00 | 31.11 | 23.80 | 54.91 | 68.20 | -13.29 | Hotel | Peak |
| 15720.00 | 31.39 | 30.03 | 61.42 | 68.20 | -6.78 | ek Habote | Peak |
| 10480.00 | 19.89 | 23.80 | 43.69 | 54.00 | -10.31 | V V | AVG |
| 15720.00 | 20.96 | 30.03 | 50.99 | 54.00 | 3.01 ph | V | AVG |
| 10480.00 | 20.37 | 23.80 | 44.17 | 54.00 | -9.83 | Anbote H A | AVG |
| 15720.00 | 20.50 | 30.03 | 50.53 | 54.00 | -3.47 | NOTE N | AVG |

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case 802.11a is recorded in the report.









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| | | TM3 / Ban | d: 5250-535 | 0 MHz / BW: | 40 / CH: L | | |
|--------------------|-------------------|------------------|--------------------|-------------------|-----------------|-----------------|----------|
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 10540.00 | 27.46 | 23.83 | 51.29 | 68.20 | -16.91 | P.V. | Peak |
| 15810.00 | 29.23 | 30.70 | 59.93 | 68.20 | -8.27 | K Nupote | Peak |
| 10540.00 | 27.78 | 23.83 | 51.61 | 68.20 | -16.59 | sek H nb | Peak |
| 15810.00 | 29.18 | 30.70 M | 59.88 | 68.20 | -8.32 | Н | Peak |
| 10540.00 | 17.03 | 23.83 | 40.86 | 54.00 | -13.14 | Nupor V | AVG |
| 15810.00 | 18.37 | 30.70 | 49.07 | 54.00 | -4.93 | AUP OF | AVG |
| 10540.00 | 17.61 | 23.83 | 41.44 | 54.00 | -12.56 | Hotek | AVG |
| 15810.00 | 18.51 | 30.70 | 49.21 | 54.00 | -4.79 | H botek | AVG |
| 5.07 | | TM3 / Ban | d: 5250-535 | 0 MHz / BW: | 40 / CH: H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 10620.00 | 28.21 | 23.90 | 52.11 | 68.20 | -16.09 | Ŋ. | Peak |
| 15930.00 | 27.86 | 31.83 | 59.69 | 68.20 | -8.51 | Aup Aug | Peak |
| 10620.00 | 28.58 | 23.90 | 52.48 | 68.20 | -15.72 | AnH | Peak |
| 15930.00 | 28.64 | 31.83 | 60.47 | 68.20 | -7.73 | Hoose | Peak |
| 10620.00 | 18.43 | 23.90 | 42.33 | 54.00 | -11.67 | ek V nbot | AVG |
| 15930.00 | 17.67 | 31.83 | 49.50 | 54.00 | -4.50 | V | AVG |
| 10620.00 | 18.60 | 23.90 | 42.50 | 54.00 | -11.50 | Apole H W | AVG |
| 15930.00 | 17.80 | 31.83 | 49.63 | 54.00 | -4.37 | Anborett H | AVG |

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case 802.11ac(VHT40) is recorded in the report.



Hotline



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| ter Aup | · · · · · · · · · · · · · · · · · · · | stek sol | oto Pur | - 2/4- | botek An | 00 % | ajek. |
|--------------------|---------------------------------------|------------------|--------------------|-------------------|--------------------|-----------------|----------|
| | | TM3 / Bar | nd: 5470-572 | 5 MHz / BW: | 40 / CH: L | 1 | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 11020.000 | 27.70 | 24.12 | 51.82 | 68.20 | -16.38 | AV O | Peak |
| 16530.000 | 28.09 | 32.96 | 61.05 | 68.20 | -7.15 | K VAnbore | Peak |
| 11020.000 | 28.97 | 24.12 | 53.09 | 68.20 | -15.11 | otek H anbo | Peak |
| 16530.000 | 27.69 | 32.96 M | 60.65 | 68.20 | -7.55 Ant | Н | Peak |
| 11020.000 | 17.47 | 24.12 | 41.59 | 54.00 | -12.41 | Nupo. A | AVG |
| 16530.000 | 18.21 | 32.96 | 51.17 | 54.00 | -2.83 | Auport. | AVG |
| 11020.000 | 17.17 | 24.12 | 41.29 | 54.00 | -12.71 | Hotek | AVG |
| 16530.000 | 17.79 | 32.96 | 50.75 | 54.00 | -3.25 | Hootek | AVG |
| | | TM3 / Ban | d: 5470-572 | 5 MHz / BW: | 40 / CH: M | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 11180.000 | 27.13 | 23.86 | 50.99 | 68.20 | -17.21 | Ŋ. | Peak |
| 16770.000 | 28.29 | 32.25 | 60.54 | 68.20 | -7.66 | Aup Aup A | Peak |
| 11180.000 | 27.52 | 23.86 | 51.38 | 68.20 | -16.82 | AUH. | Peak |
| 16770.000 | 27.79 | 32.25 | 60.04 | 68.20 | -8.16 | Hoose | Peak |
| 11180.000 | 16.81 | 23.86 | 40.67 | 54.00 | -13.33 | ek V nbot | AVG |
| 16770.000 | 16.90 | 32.25 | 49.15 | 54.00 | -4.85 | V | AVG |
| 11180.000 | 16.57 | 23.86 | 40.43 | 54.00 | -13.57 | H by | AVG |
| 16770.000 | 17.32 | 32.25 | 49.57 | 54.00 | -4.43 | AnboteH | AVG |
| | | TM3 / Bar | nd: 5470-572 | 5 MHz / BW: | 40 / CH: H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 11340.000 | 28.13 | 23.60 | 51.73 | 68.20 | -16.47 | isk A Vupos | Peak |
| 17010.000 | 28.29 | 31.58 | 59.87 | 68.20 m | -8.33 | otek V Ant | Peak P |
| 11340.000 | 26.52 | 23.60 | 50.12 | 68.20 | -18.08 | Н | Peak |
| 17010.000 | 27.24 | 31.58 | 58.82 | 68.20 | -9.38 | Aupo, H | Peak |
| 11340.000 | 17.60 | 23.60 | 41.20 | 54.00 | -12.80 | Anbolio | AVG |
| 17010.000 | 18.14 | 31.58 | 49.72 | 54.00 | -4.28 | Notek | AVG |
| 11340.000 | 17.05 | 23.60 | 40.65 | 54.00 | -13.35 | ek Habote | AVG |
| 17010.000 | 17.92 | 31.58 | 49.50 | 54.00 | -4.50 nbc | , Н | AVG |

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case 802.11ac(VHT40) is recorded in the report.







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| Ye. AUD | | arek and | 10, Kr. | 40. | poter An | | rek. |
|--------------------|-------------------|------------------|--------------------|-------------------|-----------------|-----------------|----------|
| | | TM2 / Ban | d: 5725-585 | 0 MHz / BW: | 40 / CH: L | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 11510.000 | 28.60 | 23.36 | 51.96 | 68.20 | -16.24 | P.V. | Peak |
| 17265.000 | 29.16 | 32.02 | 61.18 | 68.20 | -7.02 | K VAnbore | Peak |
| 11510.000 | 29.46 | 23.36 | 52.82 | 68.20 | -15.38 | dek H no | Peak |
| 17265.000 | 29.41 | 32.02 M | 61.43 | 68.20 | oten-6.77 Ant | Н | Peak |
| 11510.000 | 18.32 | 23.36 | 41.68 | 54.00 | -12.32 | Nupo, A | AVG |
| 17265.000 | 18.71 | 32.02 | 50.73 | 54.00 | -3.27 | Aup of C | AVG |
| 11510.000 | 18.68 | 23.36 | 42.04 | 54.00 | -11.96 | Hotek | AVG |
| 17265.000 | 19.17 | 32.02 | 51.19 | 54.00 | -2.81 | H botek | AVG |
| | | TM2 / Ban | d: 5725-585 | 0 MHz / BW: | 40 / CH: H | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 11590.00 | 27.94 | 23.43 | 51.37 | 68.20 | -16.83 | Ŋ. | Peak |
| 17385.00 | 29.12 | 32.23 | 61.35 | 68.20 | -6.85 | Aup Aug | Peak |
| 11590.00 | 28.45 | 23.43 | 51.88 | 68.20 | -16.32 | AUH. | Peak |
| 17385.00 | 28.68 | 32.23 | 60.91 | 68.20 | -7.29 | Hoose | Peak |
| 11590.00 | 17.57 | 23.43 | 41.00 | 54.00 | -13.00 | ek V nbot | AVG |
| 17385.00 | 17.73 | 32.23 | 49.96 | 54.00 | -4.04 | V | AVG |
| 11590.00 | 18.49 | 23.43 | 41.92 | 54.00 | -12.08 | H bu | AVG |
| 17385.00 | 18.65 | 32.23 | 50.88 | 54.00 | -3.12 | Anborett H | AVG |

Remark:

- 1. Result =Reading + Factor
- 2. Only the worst case(802.11n(HT40) is recorded in the report.



Hotline



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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 -----

