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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

FCC Test Report

Applicant : SimplyTech Electronics, Inc.

Address 1407 Broadway Suite 1703, New York, NY 10018,

United States

Product Name : ACTIVE NOISE CANCELLING PREMIUM

HEADPHONE

Report Date : Oct. 29, 2024

Shenzhen Anbotek Compliance Laboratory Limited









Contents

| 1. General Information | 4910 | Pupoje, Vue | | ootek An | 6 |
|---|---------------------------------------|--|--|--|----------------------|
| 1.1. Client Information | ing Test | ************************************** | Hayoda 4 | Wupoley Will | 2.4 - |
| 1.6. Measurement Uncertainty 1.7. Test Summary 1.8. Description of Test Facility 1.9. Disclaimer | r | logy Kupo _L | | gk | 8 |
| 2. Antana a regularization | Aupolok | VIIDO. | nbolek | Anbolt | ۱ ::نین |
| 2.1 Canalysian | anbotek. | Artoni | abolek . | Anboiei | بر الأ |
| 2.1. Conclusion | ~k ~bo' | ick Vupore | | Aupolok | 15 |
| 3. Conducted Emission at AC power lin | ie | otek Aupo | 10 July 10 Jul | rek upc | ., _e k 14 |
| 3.1. EUT Operation | 18100lg/ 18100lg/ | | 750 Sept | ''up olek | 14 14 15 |
| 4. Occupied Bandwidth | Volek | Vupo _{fer} | Aug | , abotek | Anbo |
| 3.1. EUT Operation 3.2. Test Setup 3.3. Test Data 4. Occupied Bandwidth 4.1. EUT Operation 4.2. Test Setup 4.3. Test Data 5. Maximum Conducted Output Power 5.1. EUT Operation 5.2. Test Setup 5.3. Test Data 6. Channel Separation 6.1. EUT Operation 6.2. Test Setup 6.3. Test Data 7. Number of Hopping Frequencies 7.1. EUT Operation | Augustek Miliotek | lek Vupolek | Pupoley Vion | Albotok Vilbotok | 18 18 18 |
| 5. Maximum Conducted Output Power | | 70016 Naton | y. V. | day | 19 |
| 5.1. EUT Operation 5.2. Test Setup 5.3. Test Data | Aurotek Aurotek | Vuparek b | wholes Wun | Projectop. | 19 20 20 |
| 6. Channel Separation | Wupo, | F | | William Soft | 2´ |
| 6.1. EUT Operation 6.2. Test Setup 6.3. Test Data | otek An | 9101 VIII | olek Andre | | 2′ 2′ 2′ |
| 7. Number of Hopping Frequencies | Vupu _{tek} | Vupo, W. | | ooke, Vu | 22 |
| 7.1. EUT Operation 7.2. Test Setup 7.3. Test Data | Auporek Waran | Andorek Andorek | Vupalak Vupalak | Kupo que y Vario q | 22 23 |
| 8. Dwell Time | , , , , , , , , , , , , , , , , , , , | k Aupo | /k ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | | 24 |
| 7.1. EUT Operation | 2018k W. | Papolek Vupor Potek Vupor | orge visor | ot _{ke} no ^t | 2! 2! 2! |
| 9. Emissions in non-restricted frequence | cy bands | r upotek | Vupo, V | | 26 |
| 9.1. EUT Operation 9.2. Test Setup | Anbo tek | Augolek Pulotek | Vuporek | Pupolek Vin | 27 |



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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

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|-----------------|---|--|---|-----------------------------------|--------------------|---------------------------------|----------------------------|------------------------|---|----------------|--------|
| olek | 10. Band e | edge emission | s (Radiated |) ⁰ / _{6k} | Vupo, Viek | | sk Vi | | VIII. | 28 | Aupol |
| Anborek | 10.1. I 10.2. ⁻ 10.3. ⁻ | EUT Operatior Test Setup Test Data | 1.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Vupojek Vapoje _k | Ano Lobot | 14 Yar | o o tek | Aupolek Vupor | A.00° | 28 29 30 | A' |
| VIII | V | ons in frequen | VUR | - / | lz) | | W. Wolek | Anbo | | 31 | ek |
| ek B | 11.1. E 11.2. T 11.3. T | EUT Operatior Fest Setup Fest Data |) | °0;e _k | hupoley Waloday | Wapolek Wapolek | est Yes | ² 10 legt V | Vipotek Vipotek | 31 32 33 | ,botek |
| anbotek Ibo | 12. Emissi | ons in frequen | cy bands (a | above 1GF | Hz) | ie _k V _{up} | ^{Up} olok | Vipotek Vipotek | Anbo | 35 | Ь. |
| Anb | 12.1.1 12.2. 12.3. | EUT Operation Fest Setup Fest Data | V V Orek | Anboles. | No _K b | nborok | Kupo o koji Kupo o koji | Anbo | Zep. 1 | 36 37 | ve/k |
| ^{le} k | APPENDIX | (I TEST SE (II EXTERN (III INTERN | IAL PHOTO | GRAPH. | 1 | Pupole _k | Anb ^o | 76 _K | ⁷ ¹ 190 ¹⁶ k | 40 40 40 | nbotek |
| upolek | k Aupore | olek Vup. | rek A | hotek | Anbotek | Anbr | rek plek | Anbotek | Anbore | + - ~ Y- | Anb |

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TEST REPORT

Applicant SimplyTech Electronics, Inc.

Manufacturer : SHENZHEN CLEVER BRIGHT IMP. & EXP. CO.,LTD

Product Name : ACTIVE NOISE CANCELLING PREMIUM HEADPHONE

Model No. : ELITE-ANC-WHITE, ELITE-ANC-BLACK, CB-ANC8500, ANC Elite

Trade Mark : N/A

Rating(s) : Input: 5V-- 1A (with DC 3.7V, 400mAh Battery inside)

47 CFR Part 15.247

Test Standard(s) : ANSI C63.10-2020

KDB 558074 D01 15.247 Meas Guidance v05r02

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

| Date of Receipt: | AUG | Lotek And | Sept. 19, 2024 | "upole" | VUC |
|-----------------------|--------------|--------------------|--------------------------|-------------|--------------|
| Jon All | Anborek | And | apolok Aupo, | wo tek | An |
| Date of Test: | , upotek | Anboro Se | ept. 19, 2024 to Oct. 09 | 9, 2024 | 6 |
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| Prepared By: | Vupor V | otek Anboy | YUP. | abotek | Aupo. |
| Yek Yupotek | Aupores Au | potok Ant | (Nianxiu Chen) | Anbotek | Anbol |
| por tek upotek | Anboles | Vun Polek | 1/ de min | k anbotek | P. |
| Aupor | K Aupole. | Vue Polek | Lingkongjin | otok anbote | 3/4 |
| Approved & Authorized | d Signer: | Vun. | Any Valer | 20, 1, | - Note |
| POFEK VU | 200 | ek anbore | (KingKong Jin) | aboten An | 0 |







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Anbotek Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

Revision History

| k Anbolek | ek Anb | otek An | Revision I | distory, would | ek Vuporek | Aupolek |
|----------------|-------------|---------|----------------|----------------|------------|-------------|
| Re | port Versio | n | Descripti | on | Issued | Date |
| polek | MR00 | Vupo, | Original Iss | sue. | Oct. 29 | , 2024 |
| Aupolek Str | Anboles | K VIDO | ek Aupolek | Vupo, Potek | Anboiek | Aupora Viek |
| Anbolek | Vupor | otek Vi | "potek Vupore, | ek Vpolsk | Aupolek | Vupo, Polek |

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1. General Information

1.1. Client Information

| | -K -NO. | . h. | All |
|----|--------------|------|--|
| 0 | Applicant | : | SimplyTech Electronics, Inc. |
| - | Address | : | 1407 Broadway Suite 1703, New York, NY 10018, United States |
| | Manufacturer | : | SHENZHEN CLEVER BRIGHT IMP. & EXP. CO.,LTD |
| | Address | : | Rm1701, Zhuoyue Building, Fuhua Yi Rd., Futian Central Zone, Shenzhen, P.R.China |
| 9 | Factory | : | SHENZHEN CLEVER BRIGHT IMP. & EXP. CO.,LTD |
| U. | Address | : | Rm1701, Zhuoyue Building, Fuhua Yi Rd., Futian Central Zone, Shenzhen, P.R.China |

1.2. Description of Device (EUT)

| "Ole VIII | | tok tup |
|------------------------|---|--|
| Product Name | : | ACTIVE NOISE CANCELLING PREMIUM HEADPHONE |
| Model No. | : | ELITE-ANC-WHITE, ELITE-ANC-BLACK, CB-ANC8500, ANC Elite (Note: All samples are the same except the model name and appearance color, so we prepare "CB-ANC8500" for test only.) |
| Trade Mark | | N/A tek Aupore, Yun Potek Auporek Auporek |
| Test Power Supply | : | DC from Adapter input AC120V/60Hz, DC 3.7V battery inside |
| Test Sample No. | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) |
| Adapter | : | NA Wholek Whole W Wolek Wholek Wupolek Wupolek |
| RF Specification | | |
| Operation Frequency | | 2402MHz to 2480MHz |
| Number of Channel | : | 79 hotek Anbotek Anbotek Anbotek Anbotek |
| Modulation Type | : | GFSK, π/4 DQPSK, 8DPSK |
| Antenna Type | : | PCB Antenna |
| Antenna Gain(Peak) | : | 6.902dBi Andotek Andotek Andotek Andotek Andotek |

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







1.3. Auxiliary Equipment Used During Test

| 3/5 | Title | Manufacturer | Model No. | Serial No. | |
|-----|--------------------|--------------|-----------|-----------------|--|
| '0 | Xiaomi 33W adapter | Xiaomi | MDY-11-EX | SA62212LA04358J | |

1.4. Operation channel list

Operation Band:

| Operation B | and: | VUDO | V. | d_{D} A_{E} | Dr. | V. | "Ofer |
|----------------------|--------------------|-------------------------------------|--------------------|----------------------|-----------------------|-----------------------|------------------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| O And | 016×2402 Ant | 20 A | 2422 | May 40 | 2442 | 60 | 2462 |
| 1 | 2403 | Anboi21 | 2423 | 41 rek | 2443 | 61 | 2463,000 ¹⁰ |
| inboker 2 | 2404 | 22 | 2424 | 42 nb o tel | 2444 boile | 62 | oote*2464 Ant |
| Aup 3 | 2405 | 23,000 | 2425 | 43 | otek 2445 And | 63 | 2465 |
| Albolok | 2406 | × 24 Anb | 2426 And 2 | 44 | 2446 | ^{nbo} 64 | 2466 |
| 5 Anbol | 2407 | 10 Lev 25 | nbo*2427 | 45 | 2447 | 65 | 2467 |
| otek 6 M | 2408 AT | 26 | 2428 | Anbata | 2448 | 66°°'' | 2468 |
| Tologo. | 2409 | And 27 | 2429 | 47 | 2449 | 67 Anbol | 2469 |
| 8 tek | 2410 | 28 | 2430 | 48 Anbox | 2450 | otek 68 V | 2470 |
| And 9 hotek | 2411 | 29 ^{,100} | 2431 | itek 49 Ari | 2451 | , 69 | 2471 |
| 10 | 1ek 2412 Anbol | 30 Aug | 2432 | nbote50 | 2452 | 70 | 2472 |
| 11 And | 2413 | _{1,0} 01e ¹⁶ 31 | 2433 | 51 ^{-k} | 2453 | 71 plek | 2473 |
| 12 | 2414 | Anb 32 | 2434 | 52 _{otek} | 2454 | 72 | 2474 Anbo |
| Anbolo | 2415 | 33° 10 K | 2435 | 53 | 2455 _{Anbot} | 73 | 2475 |
| A14 10 H | 2416 | 34 Anbore | 2436 | 54 | 2456 M | ²⁰ 74 | 2476 |
| 15, no 10 10 1 | 2417 | 35 | otek 2437 Anto | 55 | 2457 | Anboto 75 | 2477 |
| ek 16 _{Anb} | 2418 And | 36 | 2438 | Anbolo | 2458 | 76 | 2478 |
| botek17 | 2419 | 37 | 2439 | №57 | 2459 | 77,nboke | 2479 |
| 18 | 2420 | And 38 | 2440 | 58 ¹⁰⁰ 10 | 2460 | ek 78 _{Anto} | 2480 And |
| And 19 tek | 2421 | 39 | 2441 100 | 59 Anb | 2461 | hotek - | Aupolen 1 |
| " Uh. | | 700 | | | 0/0. | 11- | 10. |







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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

1.5. Description of Test Modes

| Pretest Modes | Descriptions |
|-------------------------|---|
| TM1× Anbote | Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. |
| And otek TM2 otek An | Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. |
| And Andotek TM3 Andotek | Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation. |
| Anbotek TM4 Anbote | Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. |
| otek Another Another | Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation. |
| TM6 | Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |

1.6. Measurement Uncertainty

| Parameter | Uncertainty |
|--|---|
| Conducted emissions (AMN 150kHz~30MHz) | 3.4dB |
| Occupied Bandwidth | 925Hz ek Anbotek Anbotek |
| Conducted Output Power | 0.76dB |
| Dwell-Time And Dwell-Time | 2% Andotek Anbotek Anbo |
| Conducted Spurious Emission | 1.24dB |
| Radiated spurious emissions (above 1GHz) | 1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB |
| Radiated emissions (Below 30MHz) | 3.53dB |
| Radiated spurious emissions (30MHz~1GHz) | Horizontal: 3.92dB; Vertical: 4.52dB |

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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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

Anbolek 1.7. Test Summary

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| Test Items | Test Modes | Statu |
|--|------------------|---------|
| Antenna requirement | Aupore Aurotek | Rat |
| Conducted Emission at AC power line | Mode1,2,3 | » P |
| Occupied Bandwidth | Mode1,2,3 | otek P |
| Maximum Conducted Output Power | Mode1,2,3 | abol P |
| Channel Separation | Mode4,5,6 | P |
| Number of Hopping Frequencies | Mode4,5,6 | Р |
| Dwell Time And | Mode4,5,6 | P |
| Emissions in non-restricted frequency bands | Mode1,2,3,4,5,6 | Р |
| Band edge emissions (Radiated) | Mode1,2,3 | iporg b |
| Emissions in frequency bands (below 1GHz) | Mode1,2,3 | Aupo B |
| Emissions in frequency bands (above 1GHz) | Mode1,2,3 | ÞΡ̈́° |

Note:

P: Pass

N: N/A, not applicable





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.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, 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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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

1.10. Test Equipment List

| Aupolek | Cond | ucted Emission at A | C power line | W upolek | Aupoles | K Vinn | Aupolek |
|------------|-----------|--|------------------|-----------|------------------|------------|--------------|
| Anbo | Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| P | nbolek | L.I.S.N. Artificial Mains Network | Rohde & Schwarz | ENV216 | 100055 | 2024-01-18 | 2025-01-17 |
| olek ek | Anbo | Three Phase V- type Artificial Power Network | CYBERTEK | EM5040DT | E215040D T001 | 2024-01-17 | 2025-01-16 |
| Anbolek | 3 | Software Name EZ-EMC | Farad Technology | ANB-03A | N/A | Alpoto | Auporek |
| anb | orek 4 | EMI Test Receiver | Rohde & Schwarz | ESPI3 | 100926 | 2023-10-12 | 2024-10-11 |

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

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Emissions in non-restricted frequency bands

| Jt | em | m Equipment Manufacturer | | Model No. | Serial No. | Last Cal. | Cal.Due Date |
|-----|----------------------------|---|-----------|----------------|-----------------|------------|--------------|
| Ar | 1901°EN | Constant Temperature Humidity Chamber | ZHONGJIAN | ZJ- KHWS80B | ooke N/A | 2023-10-16 | 2024-10-15 |
| | 2 | DC Power Supply IVYTECH | | IV3605 | 1804D360 510 | 2023-10-20 | 2024-10-19 |
| rek | 3 Spectrum Rohde & Schwarz | | FSV40-N | 102150 | 2024-05-06 | 2025-05-05 | |
| 000 | 4 | MXA Spectrum Analysis KEYSIGHT | | N9020A | MY505318 23 | 2024-02-22 | 2025-02-21 |
| | 500 | Oscilloscope Tektronix | | MDO3012 | C020298 | 2023-10-12 | 2024-10-11 |
| P | 6 AN | MXG RF Vector Signal Generator | Agilent | N5182A | MY474206 47 | 2024-02-04 | 2025-02-03 |

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| | sions in frequency ba edge emissions (Ra | | Vupolek | Aupoten | Vun. | Aupolek |
|----------------|---|------------------|----------------------|-----------------|------------|-------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Dat |
| 1 | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | 2024-01-23 | 2025-01-22 |
| 2 | EMI Preamplifier | SKET Electronic | LNPA- 0118G-45 | SKET-PA- 002 | 2024-01-17 | 2025-01-16 |
| 3 | Double Ridged Horn Antenna | SCHWARZBECK | BBHA 9120D | 02555 | 2022-10-16 | 2025-10-15 |
| 4 | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A N/A | Alboick | Auporo |
| ₆ 5 | Horn Antenna | A-INFO no lek | LB-180400- KF | J21106062 8 | 2023-10-12 | 2024-10-11 |
| nb6iek | Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 102150 | 2024-05-06 | 2025-05-05 |
| Zupo | Amplifier | Talent Microwave | TLLA18G40 G-50-30 | 23022802 | 2024-05-07 | 2025-05-06 |

| | upore A. | sk apoler | VUD. | | Aupo | 184 |
|------------------|----------------------------|-------------------|--------------------------|------------|---------------|--------------|
| Emiss | sions in frequency ba | ands (below 1GHz) | Anboien | Yur. | Anbolek | Anbo |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal | Cal.Due Date |
| 1,0 | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | 2024-01-23 | 2025-01-22 |
| Anda | Pre-amplifier | SONOMA | 0018 ¹ 010N № | 186860 | 2024-01-17 | 2025-01-16 |
| 3 ^{Anb} | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | 345 | 2022-10-23 | 2025-10-22 |
| 4 | Loop Antenna (9K- 30M) | Schwarzbeck | FMZB1519 B | 00053 | 2023-10-12 | 2024-10-11 |
| 5. | EMI Test Software EZ-EMC | SHURPLE | N/A ^{lootest} | N/A | otek / Anbote | K Ando |
| Anbore | k Vuporek | And Anborek Anbo | Jiek Vupo | Potek | Anbotek An | oole Viek |

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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

2. Antenna requirement

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Test Requirement:

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

2.1. Conclusion

The antenna is a **PCB Antenna** which permanently attached, and the best case gain of the antenna is **6.902dBi**. It complies with the standard requirement.

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3. Conducted Emission at AC power line

| Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted | | | | | | | | |
|--|--|------------------------|------------------|--|--|--|--|--|
| Test Requirement: back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table measured using a 50 µH/50 ohms line impedance stabilization network (LISN). | | | | | | | | |
| Vupo ex | Frequency of emission (MHz) | Conducted limit (dBµV) | | | | | | |
| k Aupole, Aur | rak Spokek Aupo | Quasi-peak | Average | | | | | |
| - clek | 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | |
| Test Limit: | 0.5-5 | .56 h | 46 | | | | | |
| iek "upoter | 5-30 And | 60 | 50 | | | | | |
| Aupore K. Potek | *Decreases with the logarithm of the frequency. | | | | | | | |
| Test Method: | ANSI C63.10-2020 section 6.2 | polek Aupole | VII. | | | | | |
| Procedure: | Refer to ANSI C63.10-2020 section line conducted emissions from unli | | od for ac power- | | | | | |

3.1. EUT Operation

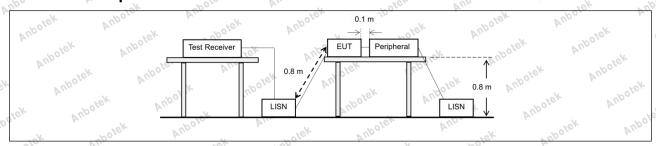
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| | | V | W.O., | 100 | | V. I | |
|-----------------|----------------------|--|--------------------------------|-----------|--------|-----------------|-----|
| Operating Envir | onment: | Aupolen | Yun Jek | Vupotek | Anbo | polek | Anb |
| Aupotek Au | hopping) |) with GFSk | modulation. | Anbo | 1000 % | smitting mode (| |
| Test mode: | (non-hop 3: TX-8D | oping) with [`] OPSK (Non- | π/4 DQPSK mo Hopping): Keep | dulation. | 18K | nsmitting mode | 40. |
| lek Pupo, | hopping |) with 8DPS | K modulation. | Y II. | "Olek | AUD | 2/6 |

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3.2. Test Setup

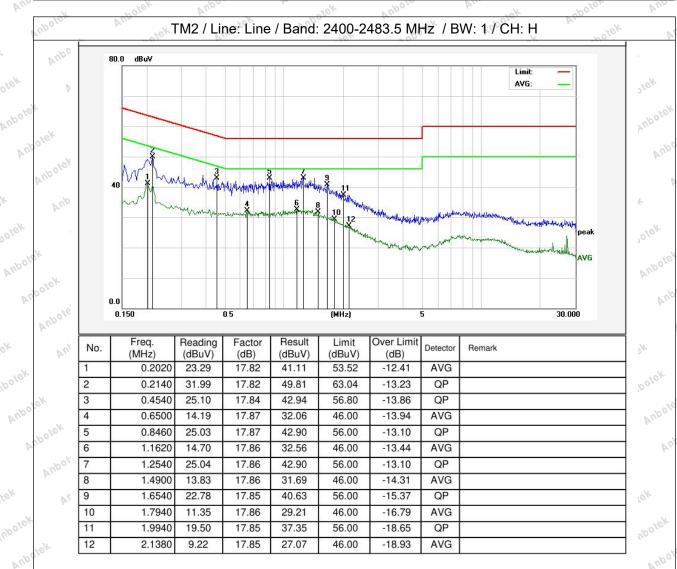






3.3. Test Data

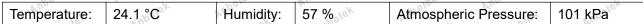
Temperature: 24.1 °C Humidity: 57 % Atmospheric Pressure: 101 kPa

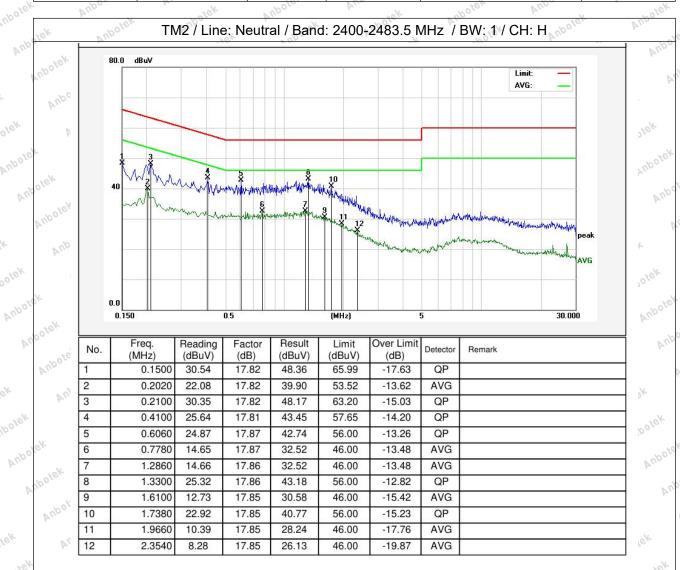












Note:Only record the worst data in the report.







Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

4. Occupied Bandwidth

| 40. | Pole Ville | otek Mup tok Moor W. |
|------------------|-----------------------------------|---|
| pole | Test Requirement: | 47 CFR 15.247(a)(1) |
| Yup, | Test Limit: Anbotek | Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. |
| nbote' | Test Method: | ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02 |
| o ^{tek} | Wallotek Aupotek Aupotek Aupotek | The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between |
| Ant An | Valoriek Valoriek | 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 at least three times the RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In |
| vupo, | ek Aupotek Au | general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the |
| k V, | Procedure: | specified range. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used. f) Use the 99% power bandwidth function of the instrument (if available) and |
| potek Anbr | tek Aupotek Aupo | report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are |
| 'ek | Anbotek Anbotek Anbotek Anbotek | 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 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 spectral plot(s) of |
| nbotel | Anbotek Anb | 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). |

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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

4.1. EUT Operation

Operating Environment:

1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-

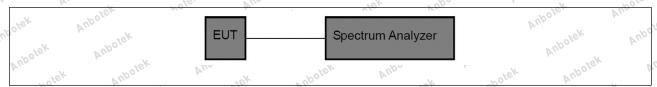
hopping) with GFSK modulation.

Test mode:

2: $TX-\pi/4$ -DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.

3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

4.2. Test Setup



4.3. Test Data

| Temperature: | 24 °C | Humidity: | 57 % | Atmospheric Pressure: | 101 kPa |
|----------------------------|-------|-----------|-----------|--|---------|
| V . 2.11.15 2.1 2.1000 2.1 | 1 | | A . V. V. | 7 1011100 1111111111111111111111111111 | |

Please Refer to Appendix for Details.





Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

5. Maximum Conducted Output Power

| Test Requirement: | 47 CFR 15.247(b)(1) |
|-------------------------------|--|
| Test Limit: Anbotek Anbotek | Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts. |
| Test Method: | ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| upotek Aupotek | This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer |
| Aupotek Aupoter | settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. |
| Procedure: | d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. |
| Aupotek Aupotek | g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. |
| Aupotek Aupo | i) The indicated level is the peak output power, after any corrections for external attenuators and cables. |
| k Vupore V | j) A spectral plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power |
| Aupotek Aupotek | meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer. |
| 5.1. EUT Operation | Nek Aupoles Augolek Vipolek Vipolek Vipolek Vipolek |

5.1. EUT Operation

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| Operating Envi | ronment: | Yun Yek | upoiek | Anbo | potek | Anbolo |
|----------------|--|---|---|----------------|-------------------|---------|
| Test mode: | 1: TX-GFSK (No hopping) with GF 2: TX-π/4-DQPS (non-hopping) wi 3: TX-8DPSK (N hopping) with 8D | SK modulation. K (Non-Hopping) th π/4 DQPSK m on-Hopping): Kee | : Keep the I lodulation. ep the EUT | EUT in continu | ously transmittir | ng mode |









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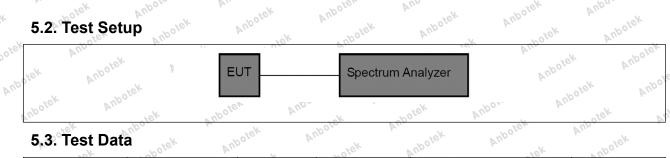
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5.2. Test Setup



5.3. Test Data

| 5.3. Test Data | a obolek | Anbotek A | 'upole | Aupolek | Aupoler. | Anotek |
|----------------|----------|-----------|--------|---------|----------------|---------|
| Temperature: | 24 °C | Humidity: | 57 % | Atmosph | eric Pressure: | 101 kPa |

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Please Refer to Appendix for Details.

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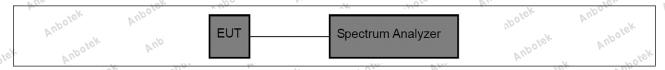
6. Channel Separation

| -10° N. | All |
|---|--|
| Test Requirement: | 47 CFR 15.247(a)(1) |
| Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. |
| Test Method: | ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Anbotek Anbotek Anbotek Anbote Anbotek Anbote | The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. |
| Procedure: Anbotek Anbotek Anbotek Anbotek | d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. |
| ek ^{Vuporek} Vupo _t | Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report. |

6.1. EUT Operation

| | Operating Envir | onment: | Aupolen | Vun Vick | * uporek | Vupo, | w polek |
|----------------|-----------------|-----------|---------------------------------|----------------|-----------------|--------------------|----------------|
| | Vupoter. | | SK (Hopping): K modulation,. | | in continuously | y transmitting m | ode (hopping) |
| * | Test mode: | 5: TX-π/4 | -DQPSK (Hop | | | nuously transmit | ting mode |
| o _C | ter. Vur | 6: TX-8DF | PSK (Hopping) |): Keep the EU | T in continuous | sly transmitting r | node (hopping) |
| | otek Anbo | with 8DPS | SK modulation | · upoter | And | hotek A | 'upo, W. |

6.2. Test Setup



6.3. Test Data

| Temperature: 24 °C Humidity: 57 % Atmospheric Pressure: 10 | 101 kPa |
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Please Refer to Appendix for Details.







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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

7. Number of Hopping Frequencies

| Whore W. | Aug toke topo |
|---|---|
| Test Requirement: | 47 CFR 15.247(a)(1)(iii) |
| Test Limit: Anborek | Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. |
| Test Method: | ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Anbotek | The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate |
| Polek Vupolek | regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report. |
| 16 | |

7.1. EUT Operation

| | Operating Envir | conment: |
|-----|-----------------|---|
| ,V | Aupolek. | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. |
| 00% | Test mode: | 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation. |
| P. | ipolek Aupo | 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |





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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

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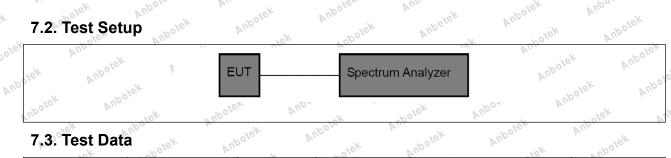
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7.2. Test Setup



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7.3. Test Data

| Temperature: | 24 °C | Humidity: | 57 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-------------|-----------|--------------------------|-----------|
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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

8. Dwell Time

| Test Requirement: | 47 CFR 15.247(a)(1)(iii) |
|--|--|
| Test Limit: | Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. |
| Test Method: | ANSI C63.10-2020, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Aupotek Aupotek | The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission. |
| Who sek Aupotek | The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period. |
| Anbotek Anbotek Anbotek Procedure: Anbotek | The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest |
| Anbotek Anbotek | dwell time with the minimum number of channels. Use the following spectrum analyzer settings to determine the dwell time per |
| Potek Auporek V | hop: a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be |
| Aupotek Aupotek | set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this. |
| ek Anbotek Anbotek | d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel. |
| Aupotek Aupotek | e) Detector function: Peak.f) Trace: Clear-write, single sweep.g) Place markers at the start of the first transmission on the channel and at |







the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3/0.5 \times 10$, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

8.1. EUT Operation

Operating Environment:

4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping)

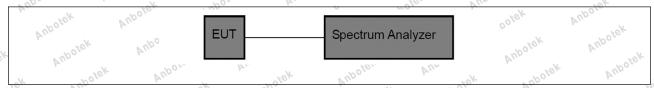
with GFSK modulation,..

Test mode:

5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.

6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

8.2. Test Setup



8.3. Test Data

| Temperature: 24 °C Humidity: 57 % Atmospheric Pressure: 101 kPa | by |
|---|----|
|---|----|

Please Refer to Appendix for Details.









9. Emissions in non-restricted frequency bands

| Test Requirement: | 47 CFR 15.247(d), 15.209, 15.205 |
|--|---|
| Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Method: | ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Aupotek Aupotek Aupotek Aupotek | 7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled. |
| Anbotek Anbo | Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of |
| potek Aupotek | testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. |
| Procedure: Anbotek Anbotek Anbotek Anbotek | The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be |
| Aupolek Aupol | when conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring |
| Aupotek Aupotek | using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the |





exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

7.8.7.2 Band-edges

Compliance with a relative limit at the band-edges (e.g., −20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

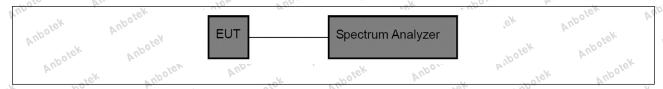
9.1. EUT Operation

Operating Environment:

- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (nonhopping) with GFSK modulation.
- 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (nonhopping) with 8DPSK modulation.
- 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
- 5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

9.2. Test Setup

Test mode:



9.3. Test Data

| emperature: 24 °C | Humidity: 57 % | Atmospheric Pressure: | 101 kPa ⊾ ^{™°} |
|-------------------|----------------|-----------------------|-------------------------|
|-------------------|----------------|-----------------------|-------------------------|

Please Refer to Appendix for Details.







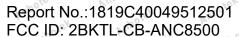
10. Band edge emissions (Radiated)

| . NO. W. | Vie. Vie. | " " " " " " " " " " " " " " " " " " " | -V | | |
|--|---|--|-------------------------------|--|--|
| Test Requirement: | restricted bands, as defined | , In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2 | ly with the | | |
| Aupotek Aupotek | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) | | |
| Anboiek Anbo | 0.009-0.490 | 2400/F(kHz) | 300 | | |
| k Anbotek Ant | 0.490-1.705 1.705-30.0 | 24000/F(kHz) 30 | 30 | | |
| r "olek | 30-88 | 100 ** | 316k Aupa | | |
| oter Vun | 88-216 | 150 ** And | "3 _b | | |
| Olek Aupole | 216-960 | 200 ** | 3,000 | | |
| Aupo | Above 960 | 500 And And | 3 potek | | |
| ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9– | | | | | |
| Aupotek Aupotek | 90 kHz, 110–490 kHz and a | above 1000 MHz. Radiated emised on measurements employing | sion limits in | | |
| Test Method: | ANSI C63.10-2020 section KDB 558074 D01 15.247 M | | potek Anbotek | | |
| Procedure: | ANSI C63.10-2020 section | 6.10.5.2 | abotek Anbor | | |

10.1. EUT Operation

| | 70. | 7 | A | 76 | P.Lina | 101 | 7/00 | 4. |
|----|-----------------|---|---|---|--------------------------|----------------|---------------------|-----|
| P. | 10.1. EUT Op | eration | Vuporek. | Aupolek | Anbolek | Vupor, Polek | Aupolek | Anb |
| | Operating Envir | onment: | Auport | Polek | Aupole | Vun Ofek | ^{Uupo} lek | |
| 06 | Test mode: | hopping) 2: TX-π/- (non-hop 3: TX-8D |) with GFSK m 4-DQPSK (No oping) with π/4 | on-Hopping): Ke 4 DQPSK modu opping): Keep th | ep the EUT in lation. | continuously t | ransmitting mo | ode |





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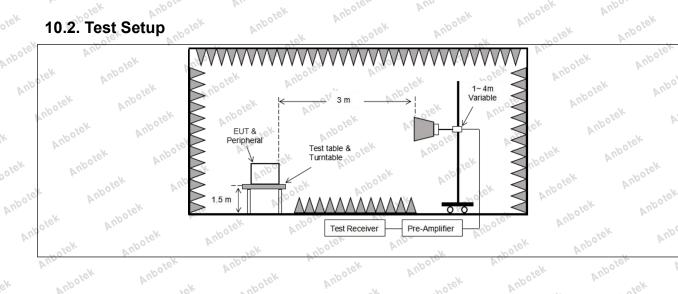
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10.2. Test Setup



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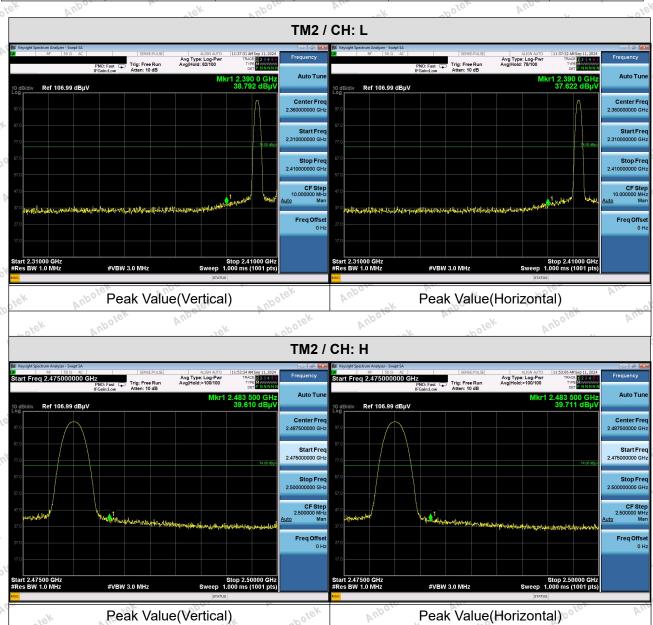
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10.3. Test Data

Temperature: 24 °C Humidity: 57 % Atmospheric Pressure: 101 kPa



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







11. Emissions in frequency bands (below 1GHz)

| Aup | Refer to 47 CFR 15 247(d) | In addition, radiated emissions | which fall in the |
|---|--|---|--|
| Test Requirement: | | d in § 15.205(a), must also comp | |
| k hotek | | ecified in § 15.209(a)(see § 15.2 | |
| "uporer Vun | Frequency (MHz) | Field strength | Measurement |
| Anborek Anbore | V Vupotek Vupoter | (microvolts/meter) | distance (meters) |
| abolek Anbo | 0.009-0.490 | 2400/F(kHz) | 300 And |
| VI. | 0.490-1.705 | 24000/F(kHz) | 30 |
| Aupo. W. | 1.705-30.0 | 30 And | 30 |
| ok spolek | 30-88 | 100 ** | 31er And |
| ole. Yun | 88-216 | 150 ** | 3 NA |
| Total Aupore | 216-960 | 200 ** | 3,000 |
| Test Limit: | Above 960 | 500 Anboter Anu | 3 motek |
| Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | frequency bands 54-72 MH However, operation within to sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p90 kHz, 110–490 kHz and a these three bands are base detector. | e, the tighter limit applies at the bin the above table are based on beak detector except for the frequency 1000 MHz. Radiated emised on measurements employing | 470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in |
| Test Method: | ANSI C63.10-2020 section KDB 558074 D01 15.247 M | - 10 | otek Auporen |
| Procedure: | ANSI C63.10-2020 section | 6.6.4 | Anbo |
| 11.1. EUT Operatio | n Aupotek Aupo | Vupolek Vupole | Projek V |

11.1. EUT Operation

| | Operating Envir | onment: | Aupor | holek | Aupole | VII. | Anboiek |
|---|-----------------|-------------|----------------------------|------------------|---------------|-------------------|------------------|
| | Aupo. | | K (Non-Hopp ith GFSK mo | | EUT in contir | nuously transmitt | ing mode (non- |
| * | Test mode: | 2: TX-π/4-E | DQPSK (Nor | n-Hopping): Keep | | continuously tra | nsmitting mode |
| 0 | ick Vup. | | | DQPSK modula | | tinuously transmi | tting mode (non- |
| | abotek Anbo | | ith 8DPSK n | | 16K | hotek | Anbo |







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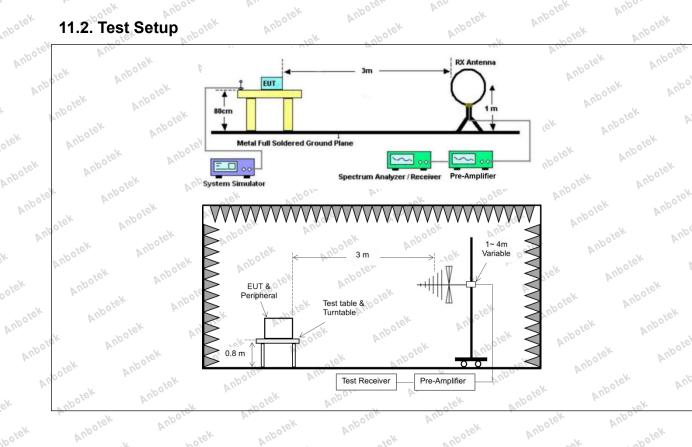
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11.2. Test Setup

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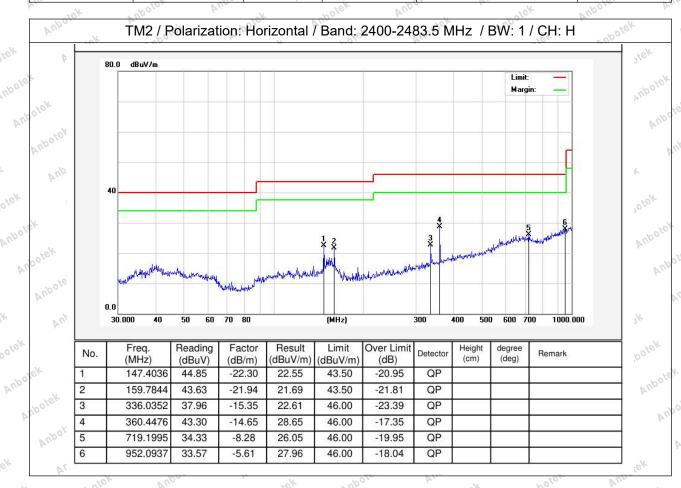




11.3. Test Data

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

| | NAME OF TAXABLE PARTY. | CA. | - | | | - | | _ |
|--------------|------------------------|--------------|--------|------|--------------------------------|-----|------------|---|
| - 4 - 50 | 00000 | | V | VIII | 10 m | V . | | |
| Temperature | ∣ 22 6 °C ` | Humidity | 1 56 % | for- | Atmospheric Pressure: | ີ 1 | 01.kPa | |
| Tomporatare. | | i community. | 00 ,0 | | Than toop notion to too out or | | 0 1 111 01 | |

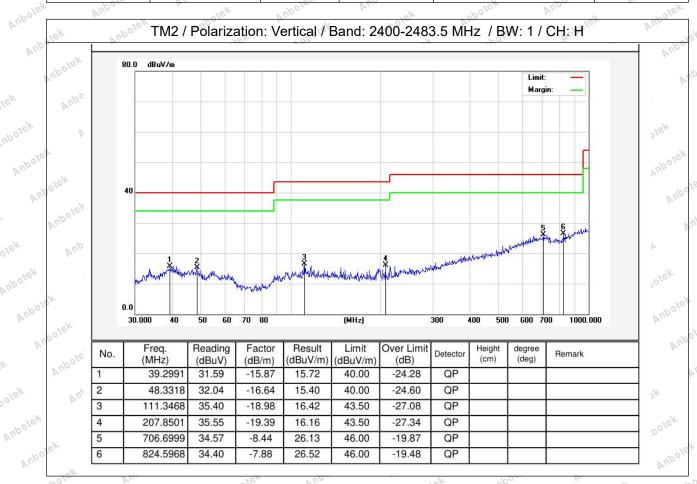






Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

Temperature: 22.6 °C Humidity: 56 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.





12. Emissions in frequency bands (above 1GHz)

| Test Requirement: | | ons which fall in the restricted be omply with the radiated emission $\delta(c)$. | |
|--|---|--|---|
| Auporek Auporek | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| Polek Vupo | 0.009-0.490 | 2400/F(kHz) | 300 |
| VII. | 0.490-1.705 | 24000/F(kHz) | 30 Anbole |
| Sk Wuporg Wi | 1.705-30.0 | 30 K Polek Wyp | 30 |
| Korek | 30-88 | 100 ** | 3 tek Anbu |
| 10 ofer And | 88-216 | 150 ** | 3 |
| Jek Vupole. | 216-960 | 200 ** | 3 nbor |
| Test Limit: | Above 960 | 500 photes And | 3 hotek |
| Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | However, operation within to sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a | e, the tighter limit applies at the bin the above table are based on beak detector except for the free above 1000 MHz. Radiated emised on measurements employing | pand edges. measurements quency bands 9– ssion limits in |
| Test Method: | KDB 558074 D01 15.247 M | - 40. | potek Augo |
| Procedure: | ANSI C63.10-2020 section | 6.6.4 | abotek Anb |
| 12.1. EUT Operatio | n Aupotek Aupotek | Aupotek Aupo, | Auporek |

12.1. EUT Operation

| Operating Envi | ronment: And Andrew Andrew |
|----------------|--|
| Test mode: | 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation. |







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Page 36 of 40

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12.2. Test Setup

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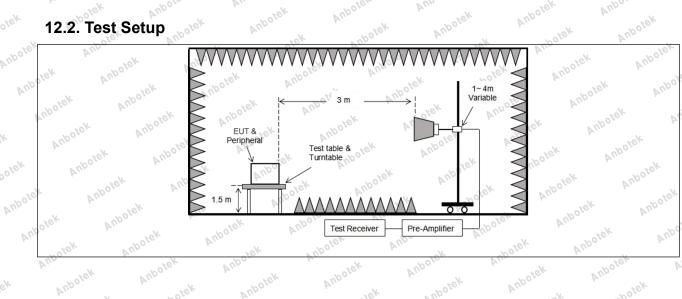
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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

Anbolek 12.3. Test Data

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| 12.3. Test Data | Vupotek | Aupo, upolek | Aupotek Aupote. | otek Anborek |
|--------------------|----------------|--------------|--------------------|--------------|
| Temperature: 24 °C | Humidity: | 47 % | Atmospheric Pressu | ıre: 101 kPa |

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| ek Aupare. | , tek | Anbore | V., | k abotek | Anb | |
|------------------------|-------------------|------------------|--------------------|-------------------|--------------------|--------------|
| | | | TM2 / CH: L | | | |
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4804.00 | 28.18 | 15.27 | 43.45 | 74.00 | -30.55 | Vertical |
| 7206.00 | 29.17 | 18.09 | 47.26 | 74.00 | -26.74 | Vertical |
| 9608.00 | 30.34 | 23.76 | 54.10 | 74.00 | -19.90 | Vertical |
| 12010.00 | * * | ick Aupo | iek And | 74.00 | otek Aupo | Vertical |
| 14412.00 | oolek * Yup | | aborek An | 74.00 | -olek b | Vertical |
| 4804.00 | 28.47 | 15.27 | 43.74 | 74.00 | -30.26 | Horizontal |
| 7206.00 | 29.71 | 18.09 | 47.80 | 74.00 | -26.20 | Horizontal |
| 9608.00 | 28.67 | 23.76 | 52.43 | 74.00 | -21.57 | Horizontal |
| 12010.00 | *hole | VIII | Aupolek | 74.00 | k wolek | Horizontal |
| 14412.00 | ek * nbote | K Aupor | 1000 | 74.00 m | <i>P</i> . | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4804.00 | 17.56 | 15.27 | 32.83 | 54.00 | -21.17 | Vertical |
| 7206.00 | 18.20 | 18.09 | 36.29 | 54.00 | -17.71 | Vertical |
| 9608.00 ⁰⁰⁰ | 19.36 | 23.76 | 43.12 | 54.00 NO | -10.88 | Vertical |
| 12010.00 | * Yun | 184 201 | olek Vup. | 54.00 | potek Aut | Vertical |
| 14412.00 | "polek * VL | 100, | Polek | 54.00 | rek | Vertical |
| 4804.00 | 16.82 | 15.27 | 32.09 | 54.00 | -21.91 | Horizontal |
| 7206.00 | 18.77 | 18.09 | 36.86 | 54.00 | -17.14 | Horizontal |
| 9608.00 | 17.98 | 23.76 | 41.74 | 54.00 | -12.26 | Horizontal |
| 12010.00 | * * Anborek | VU. | k upole | 54.00 | 2000 | Horizontal |
| 14412.00 | * | ick Vupor | V | 54.00 M | V. VIII | Horizontal |

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Report No.:1819C40049512501 FCC ID: 2BKTL-CB-ANC8500

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| Aupolek Yul | Anbotek A | hotek An | ole, VII. | Aupolek A | upoter An | Anbolek |
|--------------------|-------------------|------------------|--------------------|--|--------------------|--------------|
| ~oter | Anto | 187 | ГМ2 / CH: M | <u>, </u> | Tholes. | Alla |
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4882.00 | 10to 28.20 M | 15.42 | 43.62 | 74.00 M | -30.38 | Vertical N |
| 7323.00 | 29.02 | 18.02 | 47.04 | 74.00 | -26.96 | Vertical |
| 9764.00 | 29.35 | 23.80 | 53.15 | 74.00 | -20.85 | Vertical |
| 12205.00 | Aupo* | Vun | , abotek | 74.00 | hotek | Vertical |
| 14646.00 | * polek | Aupor | hotek | 74.00 | Vu. | Vertical |
| 4882.00 | 28.17 | 15.42 | 43.59 | 74.00 | -30.41 | Horizontal |
| 7323.00 | 29.70 | 18.02 | 47.72 nb | 74.00 | ove* -26.28 And | Horizontal |
| 9764.00 | 28.37 | 23.80 | 52.17 | 74.00 | -21.83 | Horizontal |
| 12205.00 | 10/6/k* | Aupoles, A | 10k | 74.00 | Aupo | Horizontal |
| 14646.00 | VUD * | upotek | Vupote. | 74.00 | Anborok | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4882.00 | 17.29 | otek 15.42 And | 32.71 | 54.00 | -21.29 Am | Vertical |
| 7323.00 | 18.30 | 18.02 | 36.32 | 54.00 | -17.68 | Vertical |
| 9764.00 | 19.22 | 23.80 | 43.02 | 54.00 | -10.98 | Vertical |
| 12205.00 | *tek | Aupoten | A. Olek | 54.00 | Vup. | Vertical |
| 14646.00 | * Tek | Aupolek | And | 54.00 | Vupo. | Vertical |
| 4882.00 | 16.73 | 15.42 | 32.15 | 54.00 | -21.85 | Horizontal |
| 7323.00 | 18.33 nbo | 18.02 | ntek 36.35 And | 54.00 | -17.65 | Horizontal |
| 9764.00 | 18.49 | 23.80 | 42.29 | 54.00 | -11.71 | Horizontal |
| 12205.00 | Vup * | Vupolek. | Anboro | 54.00 | Aupolek | Horizontal |
| 14646.00 | Vupor* | Viek | Aupolek | 54.00 | abotek. | Horizontal |

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| " otek | Aupo | 19K | anbore | Y | poler | AUD |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|--------------|
| | | • | TM2 / CH: H | | | |
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4960.00 | 28.47 | 15.58 | 44.05 | otek 74.00 km | -29.95 | Vertical |
| 7440.00 | 29.03 | 17.93 | 46.96 | 74.00 | -27.04 | Vertical |
| 9920.00 | 29.90 | 23.83 | 53.73 | 74.00 | -20.27 | Vertical |
| 12400.00 | 2005K | Anbore | "Otek | 74.00 | Vier | Vertical |
| 14880.00 | * 164 | Aupolet | And ick | 74.00 | Anbore | Vertical |
| 4960.00 | 28.24 | 15.58 | 43.82 | 74.00 | -30.18 | Horizontal |
| 7440.00 | 29.73 | 17.93 | 47.66 | 74.00 | -26.34 | Horizontal |
| 9920.00 | 29.05 | 23.83 | 52.88 | 74.00 M | -21.12 | Horizontal |
| 12400.00 | * | Spolek A | upor b. | 74.00 | Aupoles A | Horizontal |
| 14880.00 | Anbore * | Notek | Vupolek, | 74.00 | * upolek | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4960.00 | 18.41 | 15.58 | 33.99 | 54.00 | 20.01 kg/g | Vertical |
| 7440.00 | 19.31 An | 17.93 | 37.24 | 54.00 | -16.76 | Vertical |
| 9920.00 | 19.77 | 23.83 | 43.60 | 54.00 | -10.40 | Vertical |
| 12400.00 | Vun * * * * | abolek | Aupo | 54.00 | Anbole | Vertical |
| 14880.00 | Vul* | hotek | Vupo,e. | 54.00 | Nupolek . | Vertical |
| 4960.00 | 18.17 | 15.58 | 33.75 | 54.00 | -20.25 | Horizontal |
| 7440.00 | 19.70 | 17.93 | 37.63 | 54.00 NOO | -16.37 | Horizontal |
| 9920.00 | 18.39 | 23.83 M | 42.22 | 54.00 | 10010 -11.78 Ani | Horizontal |
| 12400.00 | upotes * A | iek . | "upolek | 54.00 | holek | Horizontal |
| 14880.00 | 10/3K | Aupor | F. Sek | 54.00 | Vii | Horizontal |

Remark:

- 1. Result =Reading + Factor
- Test frequency are from 1GHz to 25GHz, "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.
- Only the worst case is recorded in the report.



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APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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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

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And of Report -----

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